

Version 7.0.1.1

Windows, UNIX, and Linux



Web Services API Guide

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Note

This edition applies to version 7.0.1.1 of IBM Rational Portfolio Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in “Notices” on page 1013.

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About this book

This book contains the reference documentation for the IBM® Rational Portfolio Manager® API. It includes the classes and their defined methods and properties that are supported.

This book does not cover late-breaking changes. Refer to the IBM Rational Portfolio Manager 7.0.1.1 Release Notes for any last minute changes, limitations, and interfaces that are available with this release.

Who should read this book

The information in this book is intended for Rational® Portfolio Manager Web Services API schema developers and other users of the Rational Portfolio Manager.

Contacting IBM Customer Support for Rational software products

If you have questions about installing, using, or maintaining this product, contact IBM Customer Support as follows:

The IBM software support Internet site provides you with self-help resources and electronic problem submission. The IBM Software Support Home page for Rational products can be found at <http://www.ibm.com/software/rational/support/>.

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Note: When you contact IBM Customer Support, please be prepared to supply the following information:

- Your name, company name, ICN number, telephone number, and e-mail address
- Your operating system, version number, and any service packs or patches you have applied
- Product name and release number
- Your PMR number (if you are following up on a previously reported problem)

Chapter 1. Prerequisites

This section describes:

- What the reader must know prior to reading this guide.
- The set up and configuration of the system to be used by software developers working with the Rational Portfolio Manager (RPM) Web Services Application Programming Interface (API).
- Other documents and useful information related to this guide.

Prerequisites

Before beginning to build any application using the RPM Web Services API, the reader must install the development platform that is to be used according to the corresponding product documentation.

This document assumes that the reader is familiar with WSDL standards. For more information on WSDL, refer to the following resource: <http://www.w3.org/TR/wsdl>

Chapter 2. Introducing RPM Web Services API

The objective of this section is to introduce the Rational Portfolio Manager (RPM) Web Services Application Programming Interface (API) and to give the reader an overview of the RPM Web Services API characteristics, the compliance with the Web Services standards, and the supported development platforms.

clearly stating that not all of the API documented has been implemented. That sections stating that "API is not available with this release" have been provided for the purpose of planning and to contact support for an update regarding when the API will be available.

Please note that not all sections of the Web Services API have been implemented in this release. Documented sections in Chapter 6, "RPM Web Services API – Objects," on page 63 stating "Not available with this release" have been provided for the sole purpose of planning. Contact IBM customer support for Rational software products for information regarding updates as to when non implemented API's will be available. For information on contacting IBM customer support for Rational software products refer to "Contacting IBM Customer Support for Rational software products" on page xix.

Introduction to Web Services

Web Services provides a way of integrating applications based on a collection of protocols and standards such as XML, WSDL, and SOAP.

The term Web Services describes a standardized way of integrating Web-based applications over the Web through programmatic interfaces. The World Wide Web is more and more used for application to application communication. The programmatic interfaces made available are referred to as Web services.

Web Services enable businesses to communicate with each other and with other clients, without intimate knowledge of each other's IT systems residing behind a firewall. Web Services share business logic, data, and processes through a Web Services API (Application Programming Interface). Application developers can then add the Web Services to an interface (such as a Web page or an executable program) to offer specific functionality to users.

The Web Services core technologies include:

- **Extensible Markup Language (XML):** Language that defines the structure and content of Web Services.
- **Web Services Description Language (WSDL):** XML-formatted language that is used to describe the Web Services' capabilities, thereby allowing applications to communicate effectively. The WSDL file is an XML file that defines the objects and methods.
- **Simple Object Access Protocol (SOAP):** XML-based protocol used to send Web Services messages. Web services messages are sent between the customer implementation of Web Services and the SOAP handler on the RPM Web Services server.

For more information on Web Services technologies, refer to: <http://www.w3.org/2002/wsdl>

Web Services Resources

The following are resources available on the internet in regards to Web Services:

- SOAP Specification: <http://www.w3.org/TR/soap>
- WSDL Specification: <http://www.w3.org/TR/wsdl>
- XML Specification: <http://www.w3.org/XML>
- XPath: XML Path Language: <http://www.w3.org/TR/xpath>
- Java Web Services Development with Apache Axis: <http://ws.apache.org/axis/>

RPM Web Services API Overview

Rational Portfolio Manager (RPM) Release 6.2 introduces Web Services as the preferred technology to allow integration between external applications and RPM. This technology enables customers, to automatically interconnect their databases to the RPM database and to perform initial loading of the RPM repository. Therefore, this technology bypasses the time consuming, costly, and error-prone process of having resources manually import data using the RPM Client.

A Web Services API (Application Programming Interface) is made available to provide programmatic access to the RPM database. With this API, customers can develop direct access to the RPM database information in order to create, an unlimited array of new integration possibilities using programming languages, such as Java, C++, or C#. The RPM Web Services API also enables customers and third-party integrators alike to build custom integration client applications, tools, and services that leverage the RPM application in new ways. The power of the RPM Web Services API lies in making client applications independent of the RPM user interface. That is, a custom client application does not need to change every time the RPM user interface changes, and avoids the need to present data in the same way as RPM. An RPM-enabled application can customize data to best meet the users' needs.

Web Services technology provides a standards-based foundation that enables independent evolution and upgrades of both the customer's application and of RPM. In most cases, the applications can be changed without the need to modify the API. Conversely, the API can be enhanced without the need to change the end-user applications, only the integration client application

Inside the integration client application, the RPM Web Services interface is an object in the application's native programming language. A SOAP client is used to generate business-object interfaces and network stubs from a WSDL document that specifies the RPM message schema, the service address, and other interface information. The integration client application works with data in the form of object properties, and it sends and receives the data by calling object methods. The SOAP client handles the details of building the SOAP request and sending it to RPM, and converting the response back to an object that is easy to work with. This avoids developers, the need to build and parse XML documents themselves, allowing them to focus on managing and presenting the data itself. By simplifying the way the end-user applications access RPM data, the Web Services API supports customers in getting applications up and running and to adapt to change at a faster pace.

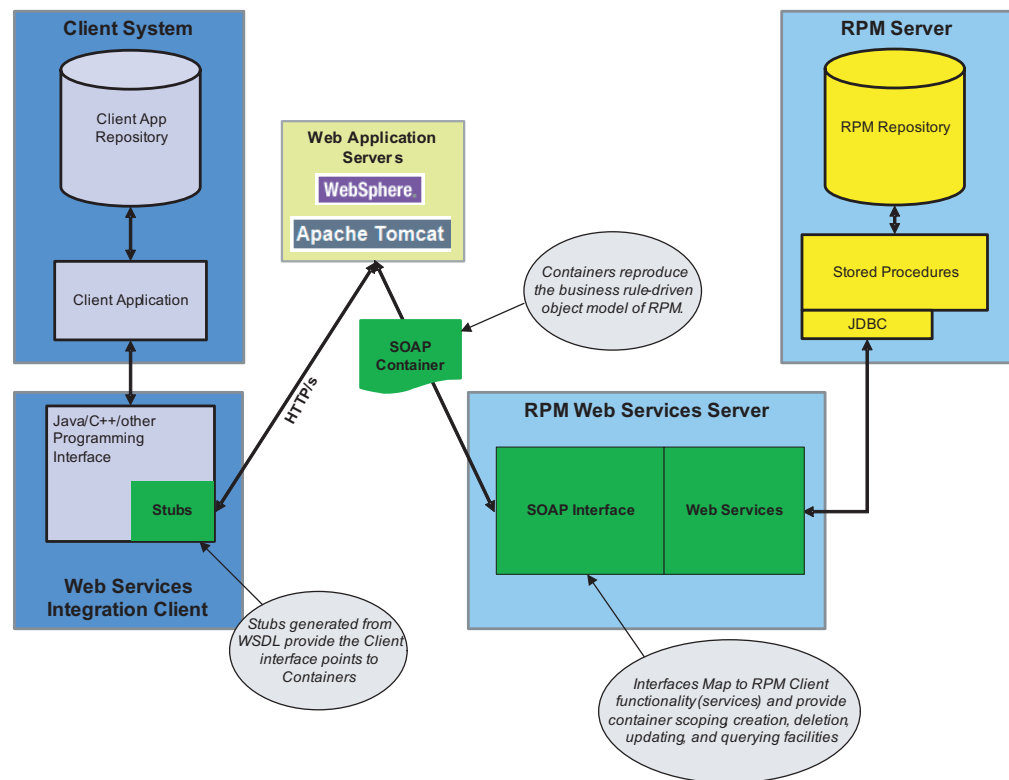
Characteristics

The API is built on open standards such as SOAP and WSDL. These standards are supported by a wide-range of development tools on a variety of platforms.

The RPM Web Services API is broken into logical modules, where each module is defined by an individual WSDL document. Each module's WSDL document defines the interface for the methods that can be called for that module as well as a description of the types of data objects that will be returned. This guide is intended to provide a general overview of the functionalities that are offered by each module of the API.

The following diagram presents an overview of the RPM Web Services API and its components.

RPM Web Services API High Level Overview



Supported Operations

The RPM Web Services API can be used to perform tasks such as the following:

- Log into the RPM server
- Create, update and delete data
- Query information in database
- Perform searches

Examples of practical operations on the RPM database include:

- Create, modify, delete RPM Resources with their user name and password
- Manage the RPM Resource contact groups
- Manage the resource pools
- Query the resources held in RPM

For each operation, client applications submit a request to the RPM Web Services, await the Web Services' response, and processes the results. The RPM Web Services commit any changed data automatically

Standards Compliance

The RPM Web Services API is implemented to comply with the following Web Services standards:

- SOAP 1.1 specifications, with the exception of RPC/Literal, Document/Literal and Document/Encoded.
- WSDL 1.1 specifications
- XML-Schema 1.0

RPM Web Services are based on J2EE Web Services provided by WebSphere.

RPM Web Services connections are supported over both HTTP and HTTPS protocols.

Compatible Development Platforms

Supported Servers

The RPM Web Services server supports the WebSphere and Tomcat servers.

Table 1. Supported Servers

Server Name	Supported Version
WebSphere	6.0
Tomcat	5.0, 5.5

Supported Client Environments

The RPM Web Services API works with modern SOAP development environments, such as Visual Studio .NET and Apache Axis. In this guide, we provide Java(Axis) and C# (.NET) examples.

Table 2. Supported Client Environments

SOAP Client	Supported Version	Programming Environment	Operating Environment
Apache Axis	1.3.0	Java (J2SE 1.3.1 and 1.4.X)	Any environment supported by Java
Microsoft .NET Framework	1.1	Microsoft Visual Studio .NET	Microsoft Windows 2000 and Windows XP

For information and downloads, refer to the following resources.

- For Java development:
 - **J2SE or J2EE 1.3.1 or newer (1.4.X recommended)**. Sun Microsystems, Inc. <http://java.sun.com/downloads/index.html>
 - **Apache Axis**. The Apache Software Foundation. <http://ws.apache.org/axis/>
- For .NET development:

- **Microsoft .NET Framework Version 1.1** . Microsoft Corporation.<http://www.microsoft.com/downloads/details.aspx?FamilyID=262d25e3-f589-4842-8157-034d1e7cf3a3&DisplayLang=en>

Chapter 3. RPM Web Services API – Server Installation

The objective of this section is to provide the reader with step-by-step procedures on how to set up the services on the Web server side, using either WebSphere or Tomcat.

Supported Application Servers

The following Web Application Servers are currently supported for the deployment of the RPM Web Services API:

- WebSphere 6.0
 - Deployed using an Enterprise ARchive file (EAR)
- Tomcat 5.0 (*starting with RPM Web Service API version 6.2*)
 - Deployed using WAR and XML files

The following Web Application Server is planned to be supported for deployment of the RPM Web Service API in future releases:

- WebLogic
 - Deployed using an Enterprise ARchive file (EAR)

Installing the Session Database

The RPM Web Services uses sessions to regulate the exchange of information between the client and the server. A session prompts the client to authenticate, to use the services of the Web Services as long as the server allows, and to logout from the session. The information relative to the session is stored in a database on the client side and on the server side.

The following procedure describes, the session database installation instructions using IBM Cloudscape V10 or its open source version Apache Derby V10. This session database can be used for WebSphere or Tomcat installations. Websphere users can use Cloudscape V5.1, which is included in Websphere 6, however, they will have to adapt installation procedures and datasource parameters.

Installing the session database is the first step required for the installation of the Web Services. It is recommended to reserve 200mb of hard drive space to host the session database.

To install the session database

Note: Paths must be adjusted when operating on UNIX environments.

1. Download and Install Cloudscape v10.0 from the following link:
<http://www-128.ibm.com/developerworks/db2/library/techarticle/dm-0408cline/#N10148>. Follow the link in the section: **Download IBM Cloudscape version 10..** Alternatively, you can download and install the Apache Derby, open source version of Cloudscape from the following link:
<http://incubator.apache.org/derby/>. Follow the link in the section: **Downloads' and download the most stable Snapshot Jars.** The Snapshot Jars include the Derby database tools required to create the RPMSESSION database.

Note: Do not use the Incubator Release.

2. Set the environment variable in order to run <ij> from a command prompt. Set derbytools.jar and derby.jar into your classpath. Add to your path the following: %Cloudscape_Install%\frameworks\embedded\bin or %Derby_Install%\frameworks\embedded\bin
3. Ensure the <ij> command works from the command prompt.
4. Open a command prompt window.
5. Move to the root directory c:\ to make it the current directory.
6. Create an SQL file and name it RPMSESSION.sql with the following SQL command.

Note: RPMSESSION.sql must be under c:\. RPMSESSION.sql, it must reside in the current directory in order to run it.

```
CREATE TABLE RPMSESSION.RPMSESSION
(
SESSIONID BIGINT NOT NULL,
RESOURCEID VARCHAR(32),
DSN VARCHAR(255),
ACTIVITY TIMESTAMP,
PRIMARY KEY(SESSIONID)
);
```

```
CREATE INDEX RPMSESSION_IX1 ON RPMSESSION.RPMSESSION(ACTIVITY);
CREATE INDEX RPMSESSION_IX2 ON RPMSESSION.RPMSESSION(RESOURCEID);
```

```
call SYSCS_UTIL.SYSCS_SET_DATABASE_PROPERTY('derby.connection.requireAuthentication','true');
call SYSCS_UTIL.SYSCS_SET_DATABASE_PROPERTY('derby.user.RPMSESSION','RPMSESSION');
call SYSCS_UTIL.SYSCS_SET_DATABASE_PROPERTY('derby.fullAccessUsers','RPMSESSION');
```

7. Type ij then: connect 'jdbc:derby:c:/RPMSESSION;create=true';

Note: The quote (') format differs from the DOS shell. Do not paste this command; it must be typed in manually.

8. Execute the SQL file RPMSESSION.sql by typing the following command: run 'RPMSESSION.sql';

Note: You can run the above command directly from the ij console.

Note: The quote (') format differs from the DOS shell. Do not paste this command; it must be typed in manually.

9. Type exit to close ij.
10. Close the command prompt window.

Note: The Session database can also be installed on Oracle DB or other databases.

Setting Up the RPM Web Services on WebSphere

The objective of this section is to provide the reader with detailed procedures on how to set up the RPM Web Services on WebSphere.

Overview – Main Steps

The following main steps are required to deploy the RPM Web Services on WebSphere and they must be performed respecting the specified order.

Note: Paths must be adjusted when operating on UNIX environments.

Prerequisite: Installation of Cloudscape V10 and creation of the RPMSESSION cloudscape database in c:\. Refer to section “Installing the Session Database” on page 9 for details.

1. Install WebSphere 6.0.
2. Start the **WebSphere Administrative Console**.
3. Set the WebSphere variables for the DB2 and Cloudscape databases.
4. Create the authentication aliases: **servadm** and **RPMSESSION**.
5. Create the JDBC providers: **DB2 Universal JDBC Driver Provider** and **Cloudscape V10 JDBC Provider**.
6. Create the data sources: **jdbcrpmdatadatasource** and **jdbcrpmsession**.
7. Deploy the EAR file.
8. Start the RPMEAR enterprise application.

Detailed Steps

This section details the eight steps required to install RPM Web Services on WebSphere.

Note: Paths must be adjusted when operating on UNIX environments.

1 - Installing WebSphere

- Install **WebSphere** using the default settings or the settings required by the customer.

2 - Starting the WebSphere Administrative Console

- Start the **WebSphere Administrative Console** from your desktop.

3 - Setting the WebSphere variables

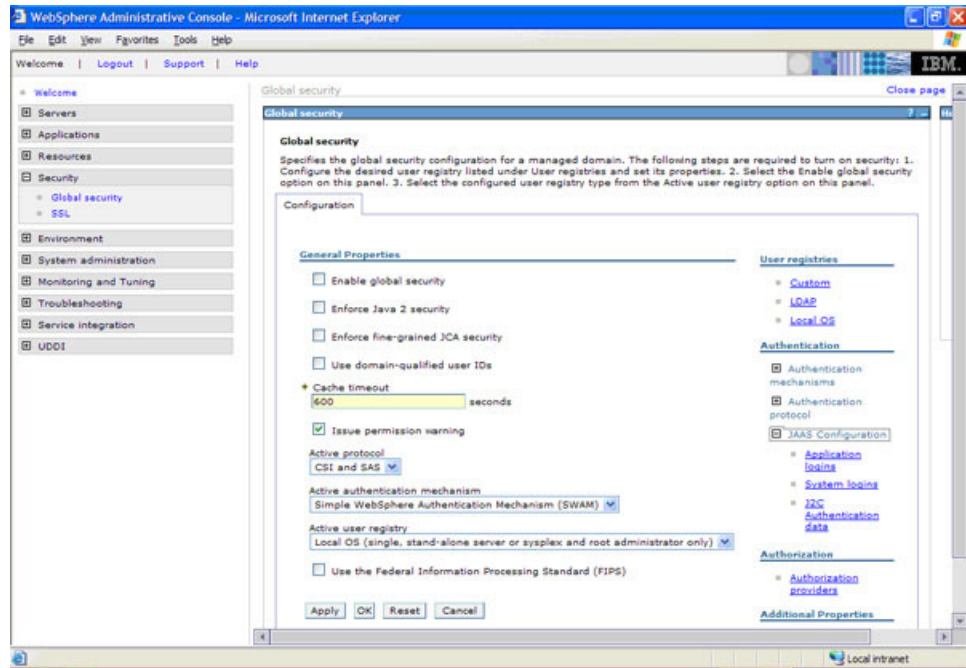
1. From the **WebSphere Administrative Console** window, go to **Environment** then to **WebSphere Variables**.
2. Modify these variables:
 - **Name:** DB2UNIVERSAL_JDBC_DRIVER_PATH
 - **Value:** C:\Program Files\IBM\SQLLIB\java (or the folder where db2jcc.jar is installed)
 - **Name:** DB2_JDBC_DRIVER_PATH
 - **Value:** C:\Program Files\IBM\SQLLIB\java (or the folder where db2jcc.jar is installed)
3. Add a new variable:
 - **Name:** CLOUDSCAPEV10_JDBC_DRIVER_PATH
 - **Value:** C:\Program Files\IBM\Cloudscape_10.0\lib

Note: For CLOUDSCAPEV10 to work, you must have the cloudscape-v10-helper.jar stored in the lib/ext of Websphere. This jar can be found in the rpm-web-services.ear. To retrieve it extract the EAR file with a Zip file extractor, this should extract the file rpm-web-services.war then extract the WAR file located in the folder /WEB-INF/lib/cloudscape-v10-helper.jar.

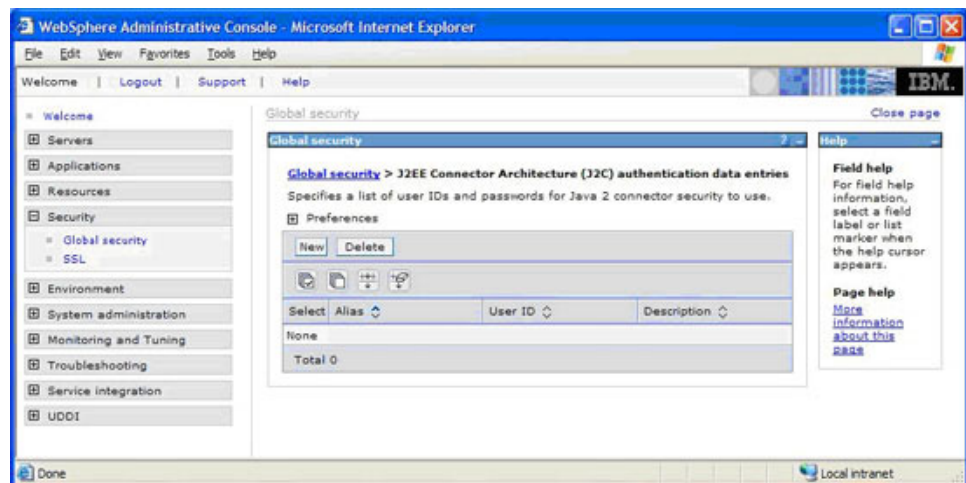
4 - Creating the Authentication Aliases

You need to create two Authentication Aliases: **servadm** and **RPMSESSION**.

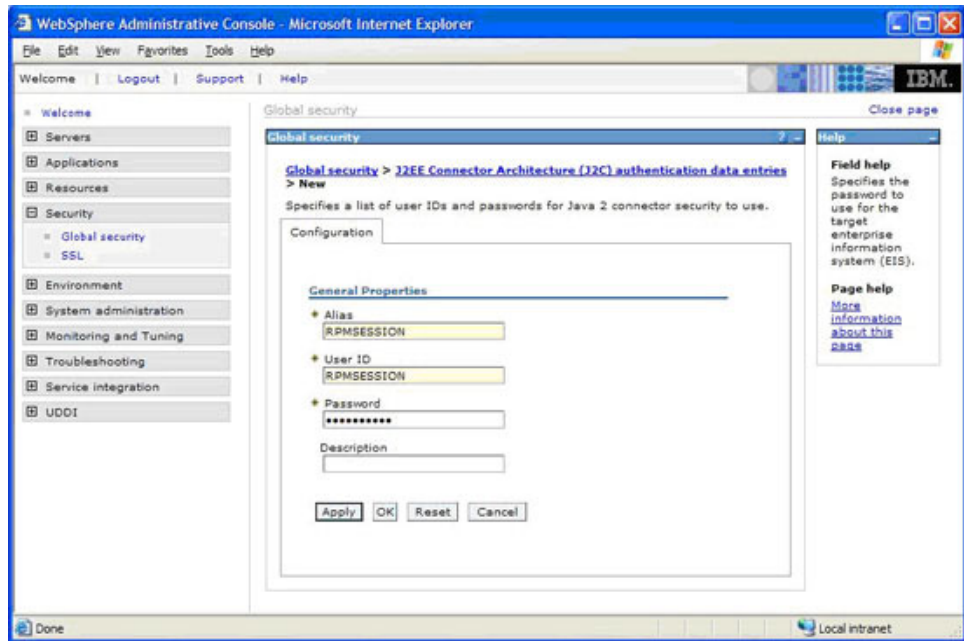
1. From the **WebSphere Administrative Console** window, go to **Security** then to **Global Security**.



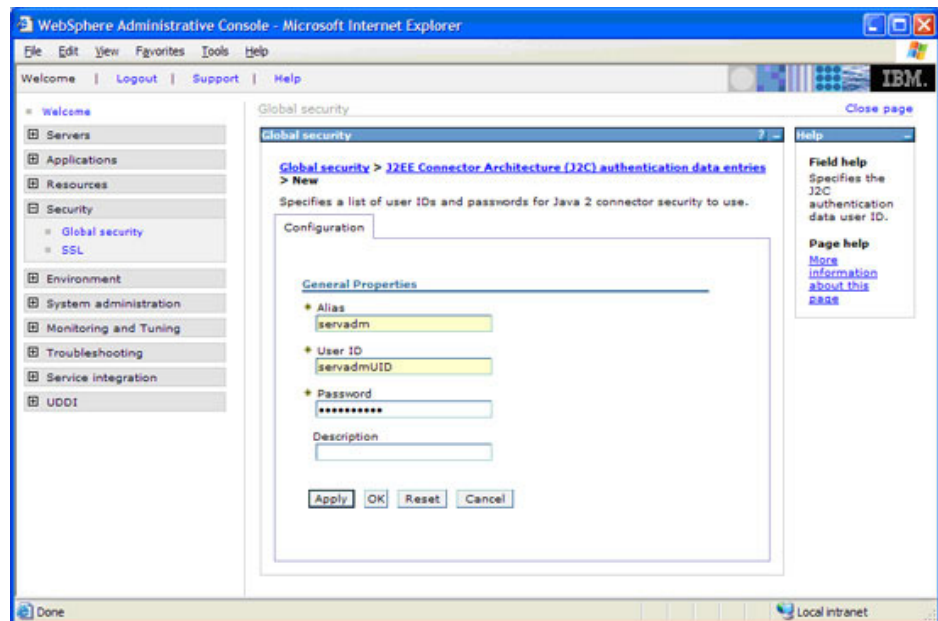
2. In the **Global Security** panel, select **JAAS Configuration** then click **J2C Authentication Data**.
3. Create an alias. To proceed, click **New**.



4. Create the RPMSESSION alias:
 - **Alias:** RPMSESSION
 - **User ID:** RPMSESSION
 - **Password:** RPMSESSION



5. Click **OK** and save the changes to the master configuration.
6. Create the **servadm** alias:
 - **Alias:** servadm
 - **User ID:** The userid to connect to your RPM database
 - **Password:** The password for this userid

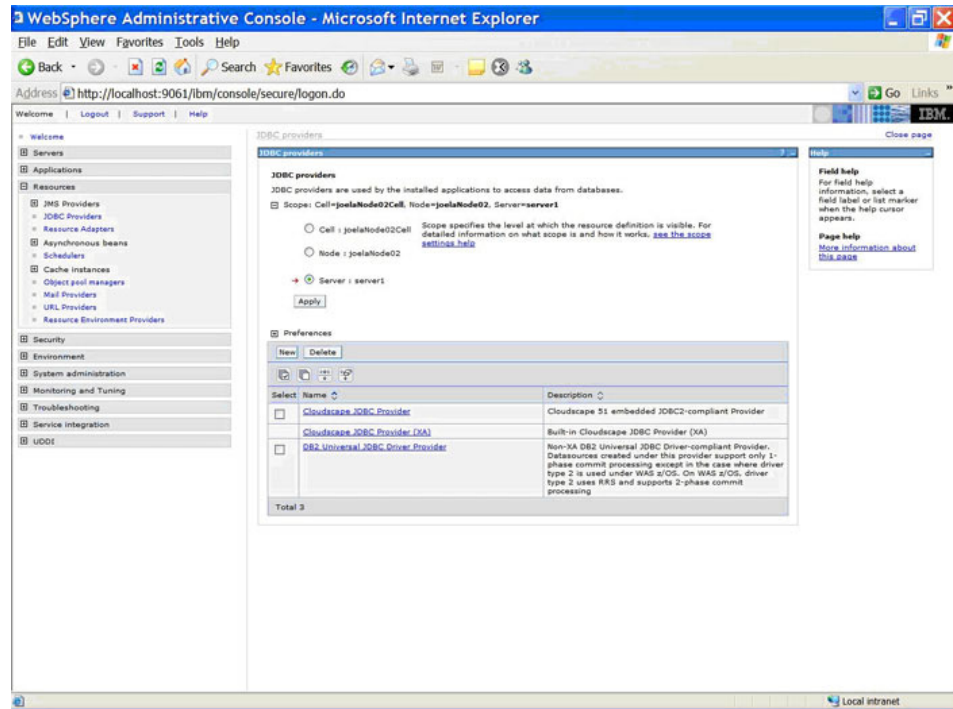


7. Click **OK** and save the changes to the master configuration.

5 - Creating the JDBC Providers

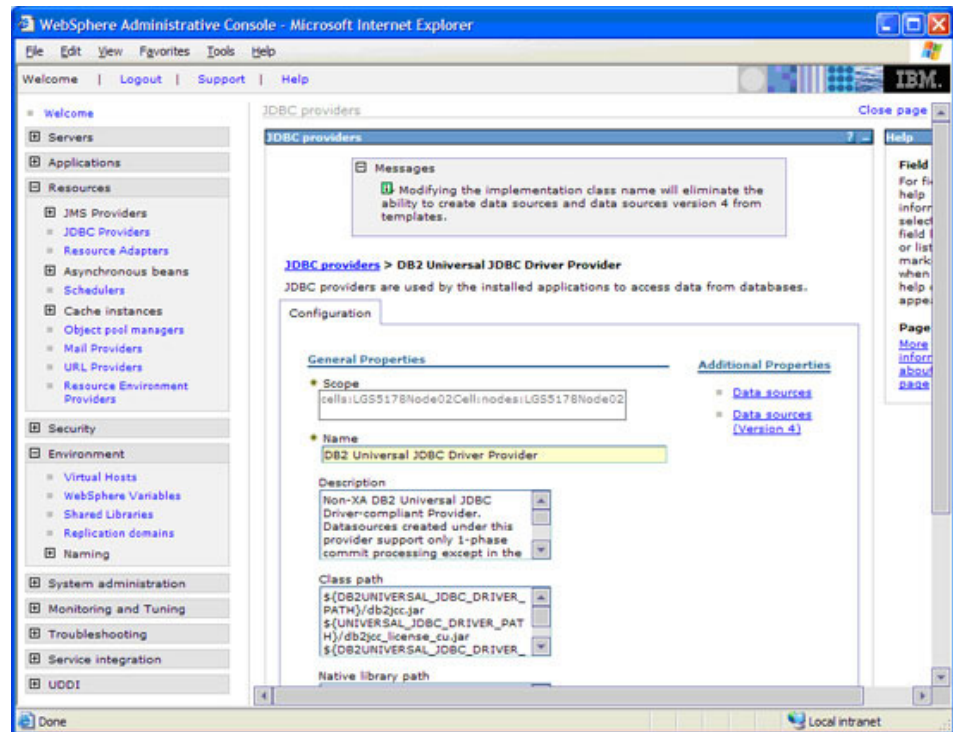
Two JDBC providers must be created. One for the RPM DB2 database and the other for the RPM SESSION database.

1. From the **WebSphere Administrative Console** window, go to **Resources** then to **JDBC Providers**.

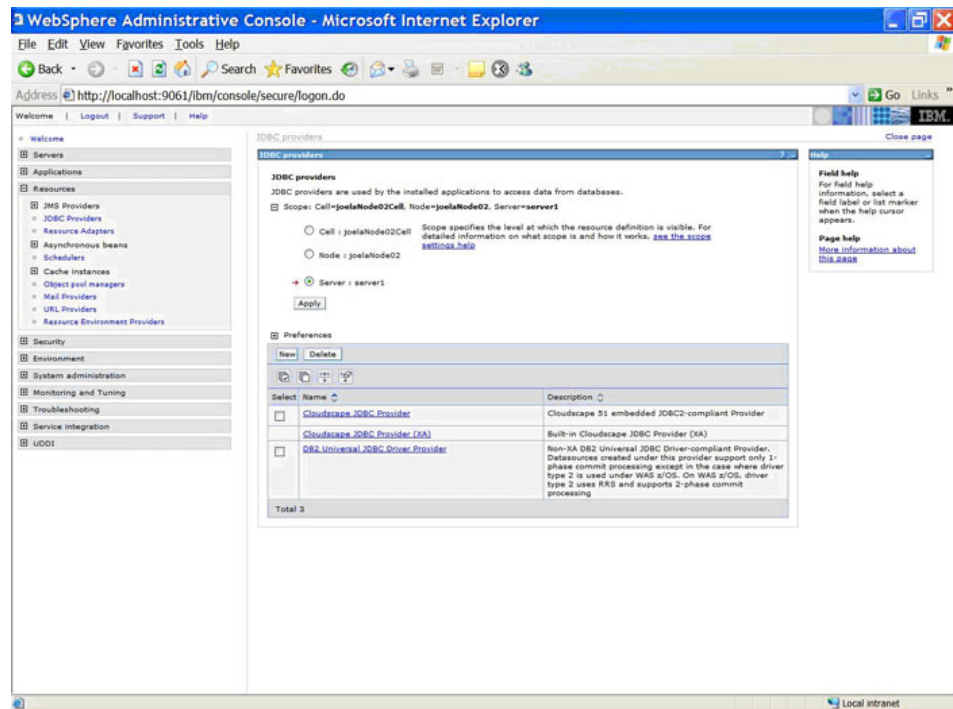


Note: The JDBC provider scope is set to **Server**.

2. Select the **Server** radio button.
3. Click **Apply**.
4. Click **New** to add the provider.
5. Complete the information relative to the provider using these values:
 - **Database type:** DB2
 - **Provider type:** DB2 Universal JDBC Driver Provider
 - **Implementation type:** Connection pool data source
6. Click **Next**.



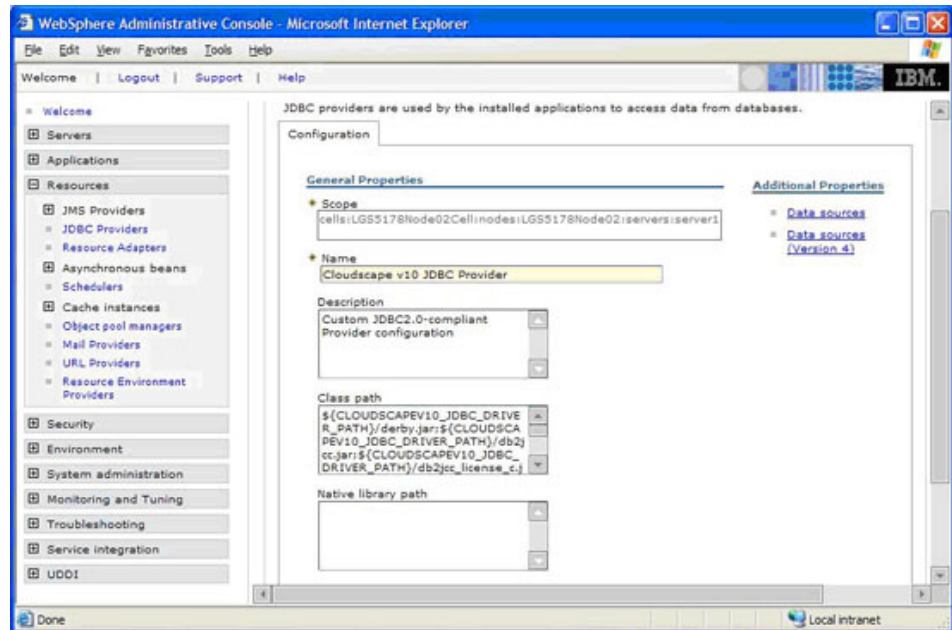
7. Click **OK** and save the master configuration before creating the other data source.
8. Return to **Resources** then to **JDBC Providers**.



Note: The JDBC provider scope is set to **Server**.

9. Select the **Server** radio button.
10. Click **Apply**.

11. Click **New** to add the provider.
12. Complete the information relative to the provider using these values:
 - **Database type:** User-defined
 - **Provider type:** User-defined JDBC Driver Provider
 - **Implementation type:** User-defined
13. Click **Next**.



14. Set the following fields as indicated below:
 - **Name:** Cloudscape v10 JDBC Provider
 - **Description:** Cloudscape v10 JDBC Provider
 - **Class path:** \${CLOUDSCAPEV10_JDBC_DRIVER_PATH}/derby.jar;
 - **Implementation class name:** org.apache.derby.jdbc.EmbeddedConnectionPoolDataSource
15. Click **OK** and save the master configuration before creating the data sources.

6 - Creating the Data Sources

To save information to the RPM repository, when using the RPM Web Services API, the data source information or DSN (Data Source Name) must be set correctly. The information specified in the DSN allows the RPM Web Service to connect to the RPM repository database.

When you have several hosts or databases you can run batch scripts to work with each of them by specifying correctly the DSN you want to connect to.

The information required for the data source setting is the following:

- The database host.
- The database name.
- The user name and password for this database.

This information will be used when the client logs into the server and when a session is started.

The following two datasources must be create two: **jdbc/RPMDATASOURCE** and **jdbc/RPMSESSION**

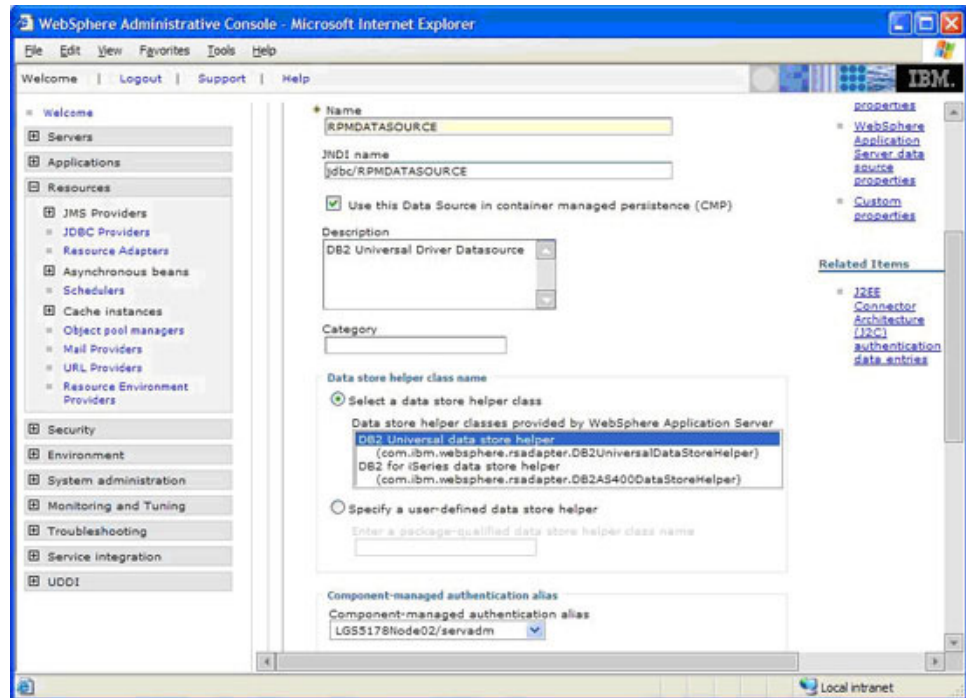
In addition, you also need to place the `cloudscape-v10-helper.jar` in the `lib/ext` directory of your Websphere installation. This jar can be found in the `rpm-web-services.ear`. Extract the EAR file with a Zip file extractor, this should extract the file `rpm-web-services.war`, then also extract the WAR file with a Zip file extractor. The file is located in the folder `/WEB-INF/lib/cloudscape-v10-helper.jar`.

To create the RPM database Data Source

1. From the **WebSphere Administrative Console** window, go to **Resources** then to **JDBC Providers**.
2. Select the newly created: DB2 Universal JDBC Driver Provider.
3. Click Data sources (not Data sources (version 4) then New to create the `jdbc/RPMDATASOURCE` data source using the following values.

Note: When connecting to the server that specifies the data source, it should read: `jdbc/RPMDATASOURCE`.

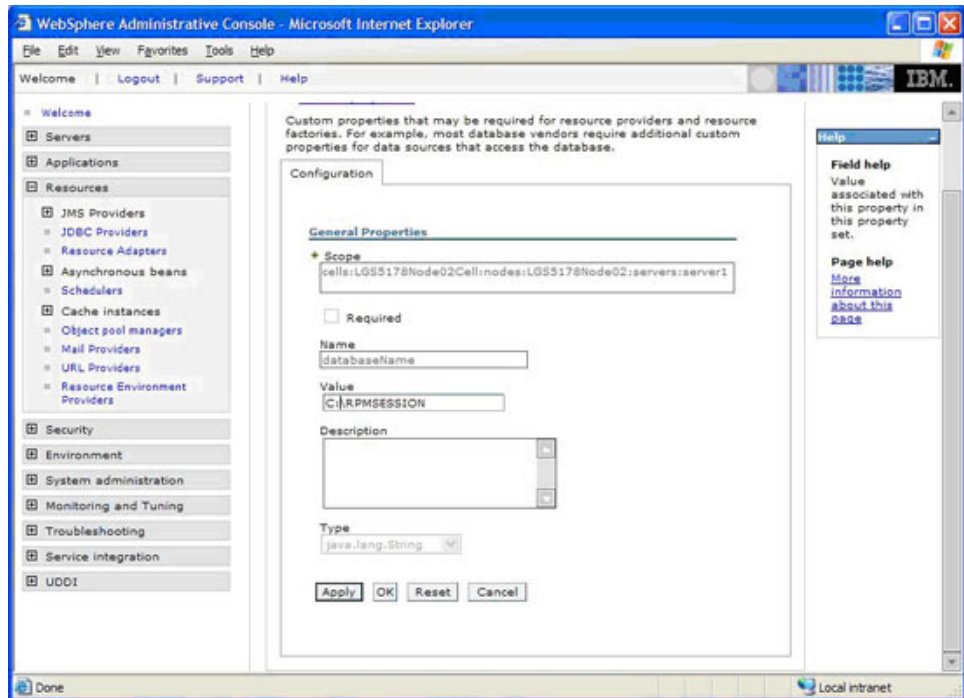
- **Name:** RPMDATASOURCE
- **JNDI name:** jdbc/RPMDATASOURCE
- **Use this Data Source in CMP:** checked
- **Select a data store helper class:** selected
- **Data store helper classes provided by WebSphere Application Server:**
Select the DB2 Universal data store helper.
- **Component-managed authentication alias:** the alias you have created (servadm)
- **Database name:** Name of the DB2 instance that will be used. Case sensitive.
- **Driver type :** 4
- **Server name :** Name or IP address of the physical machine that is hosting the database.
- **Port number:** Usually 50000 but should be what the DB admin has chosen.



4. Click **OK** and save changes to the master configuration file.

To create the RPMSESSION Data Source

1. From the **WebSphere Administrative Console** window, go to **Resources** then to **JDBC Providers**.
2. Select the Cloudscape v10 JDBC Provider.
3. Click **Data sources** (not Data sources (version 4)) then **New** to create the jdbc/RPMSESSION data source using the following values:
 - **Name** : RPMSESSION
 - **JNDI name** : jdbc/RPMSESSION
 - **Use this Data Source in CMP**: checked
 - **Select**: Specify a user-defined data store helper
 - **Enter a package-qualified data store helper class name**:
com.ibm.rpm.CloudscapeV10DataStoreHelper ((this class comes from the previously extracted CloudscapeV10Helper.jar)
 - **Component-managed authentication alias**: the session alias you have created (RPMSESSION)
4. Click **OK** and save the changes to the master configuration.
5. Click on the newly created RPMSESSION data source on **Custom Properties**.
6. Click **New** to add a new property:
 - **Name**: databaseName
 - **Value**: C:/RPMSESSION (the path to your RPM Session database as defined in the section "Installing the Session Database" on page 9)

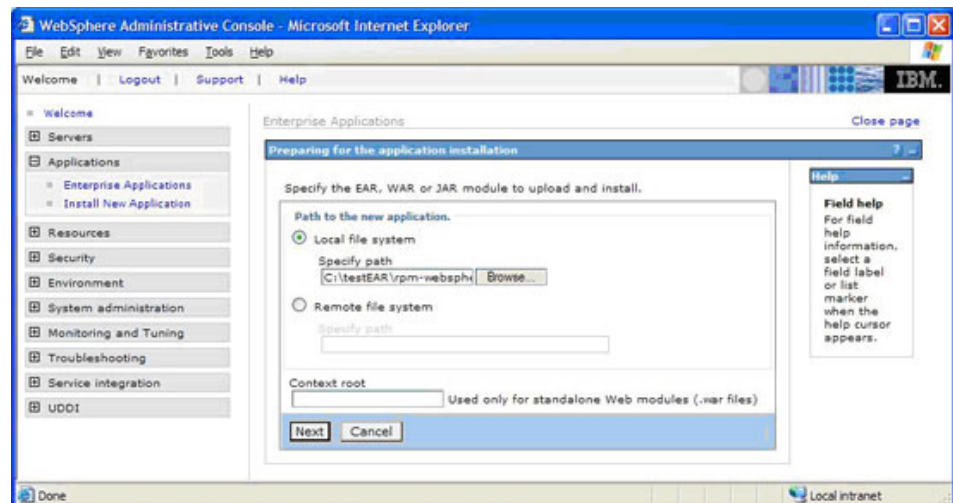


7. Click **OK** and save changes to the master configuration.

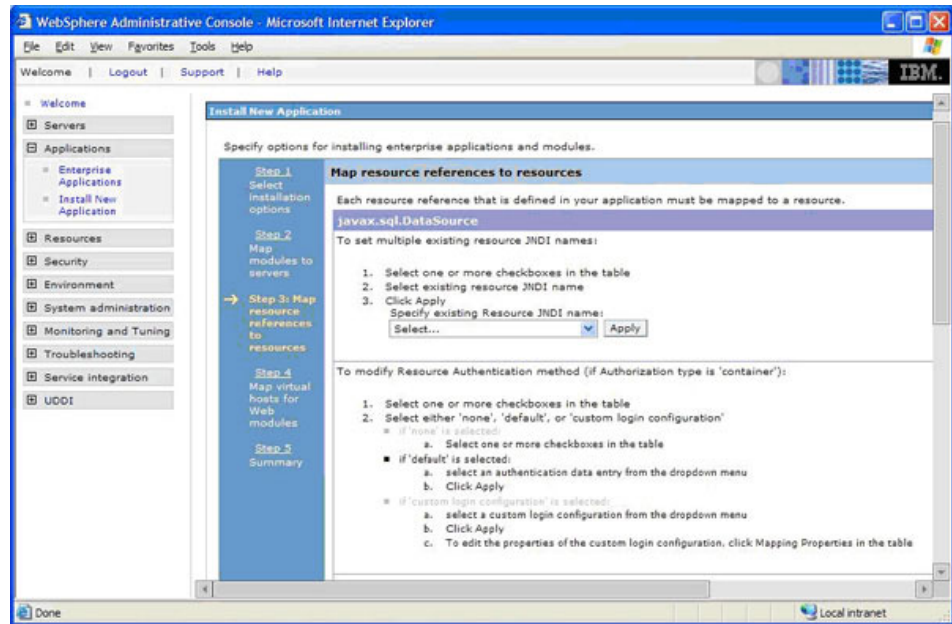
7 - Deploying the EAR File

These steps describe how to deploy the RPM Web Services Enterprise application.

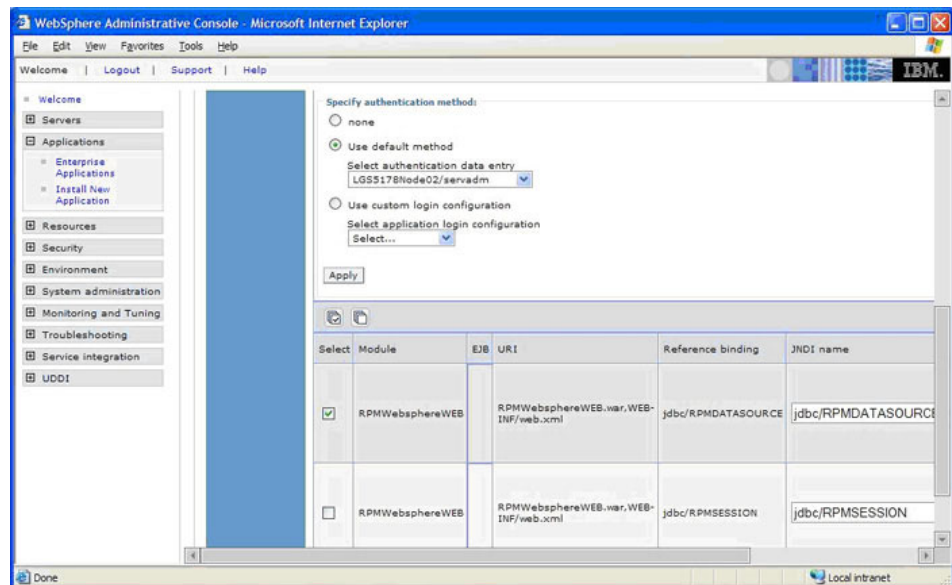
1. From the **WebSphere Administrative Console** window, go to **Applications**, then to **Install New Application**.
2. Check the **Local File System** box, then click **Browse** to select the rpm-web-services.ear file.



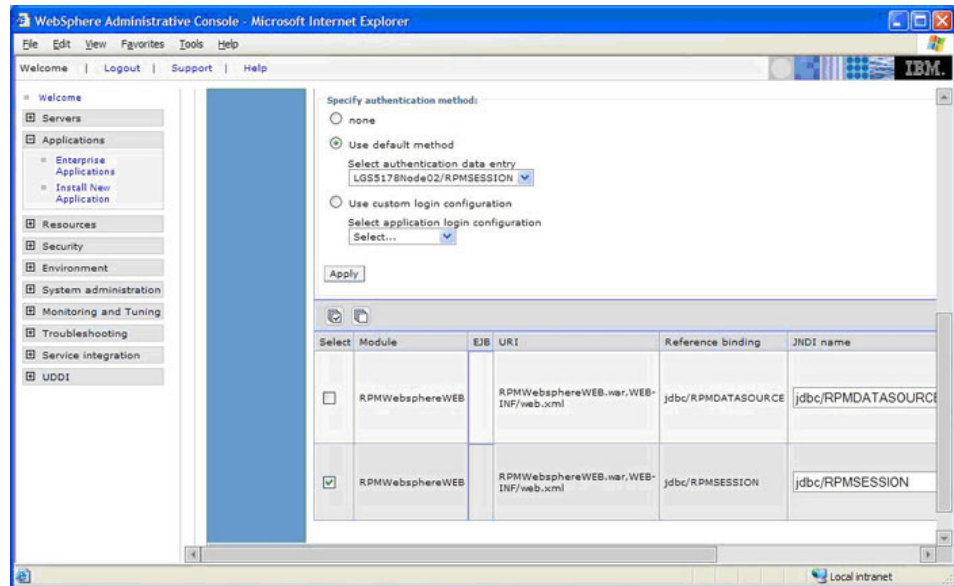
3. Scroll down and click **Next** on each screen until **Step 3: Map resource references to resources** has been reached.



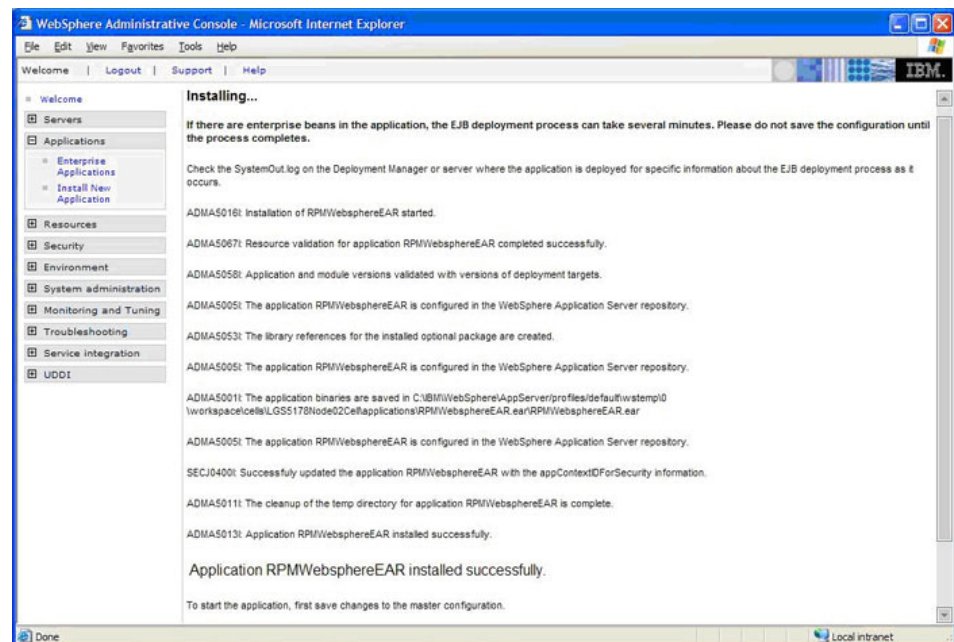
4. In **Step 3**; scroll down to select the **jdbcr/RPMDATASOURCE**.
5. Select **Use default method**.
6. Select the **servadm** alias in the **Authentication Data Entry** listbox.
7. Click **Apply**.



8. Scroll down again to select the **jdbcr/RPMSESSION**.
9. Select **Use default method**.
10. Select the **RPMSESSION** alias in the **Authentication Data Entry** listbox.
11. Click **Apply**.



12. Click **Next**.
13. On **Step 4**:, click **Next**.
14. On **Step 5: Summary**, click **Finish**. The following screen is displayed.



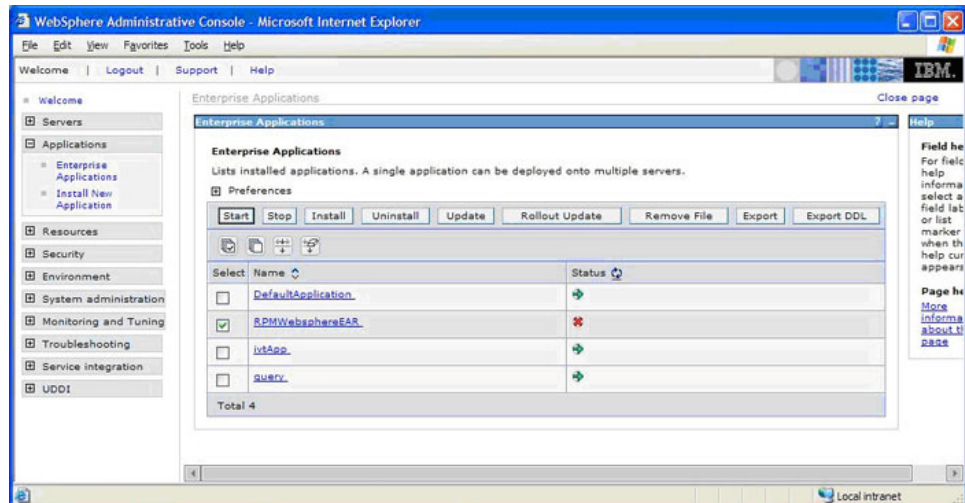
All messages should be informative (ex: ADMA5016I).

Note: If any errors or warnings are received, the Web Services will not work.

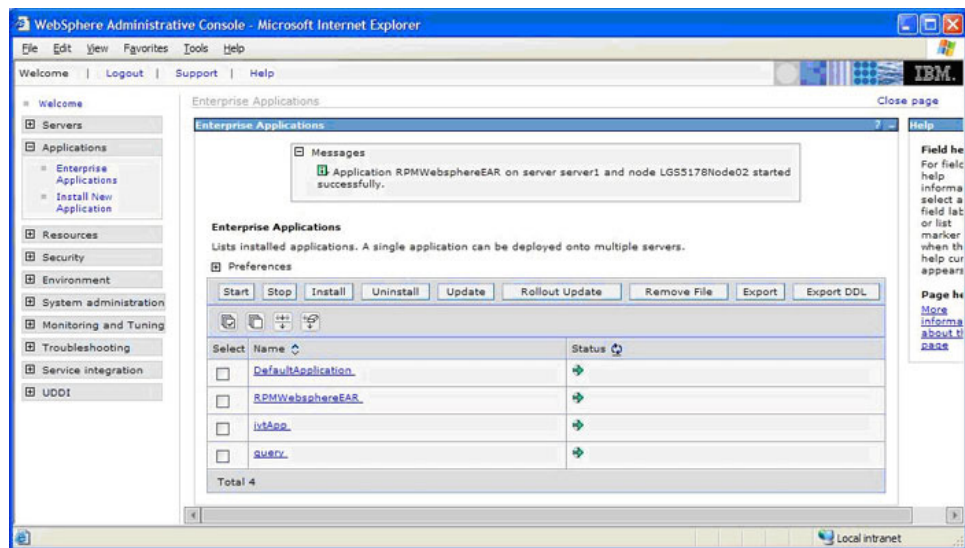
15. Scroll down and click **Save to Master Configuration** and follow the instructions from WebSphere.

8 - Starting the RPMEAR Enterprise Application

1. From the **WebSphere Administrative Console** window, go to **Applications**, then to **Enterprise Applications**.
2. Check the **RPMEAR** box.



3. Click **Start**. The following screen is displayed.



4. The Web Services API is enabled and ready for use.

Setting Up the RPM Web Services on Apache Tomcat V5.0

The objective of this section is to provide the reader with detailed procedures on how to set up the RPM Web Services on Apache Tomcat V5.0.

Overview – Main Steps

The following main steps are required to deploy the RPM Web Services on Apache Tomcat Version 5.0. It is mandatory to perform steps respecting the specified order.

Note: Paths must be adjusted when operating on UNIX environments.

Prerequisite: Download and installation of Apache Derby and creation of the RPMSESSION database in c:\. Refer to section “Installing the Session Database” on page 9 for details.

1. Download and install the Sun Java SDK 1.4.2 or later (Sun Java SDK is required by Tomcat, the Sun Java JRE cannot be used).

2. Download and install Apache Tomcat V5.0.
3. Edit the rpm.xml file to configure the application for your databases.
4. Start Tomcat and open the Tomcat Manager to deploy the rpmws-1.0.0.0.war using the rpm.xml file.

Detailed Steps

This section details the four steps required to install RPM Web Services on Tomcat.

Note: Paths must be adjusted when operating on UNIX environments.

1 - Installing the Sun Java SDK

- Download and install the Sun Java SDK 1.4.2 or later version (Sun Java SDK is required by Tomcat, the Sun Java JRE must not be used) from:
<http://java.sun.com/j2se/1.4.2/download.html>

2 - Installing Apache Tomcat

1. Download and install the Sun Java SDK 1.4.2 or later (Sun Java SDK is required by Tomcat, the Sun Java JRE must not be used) from: <http://java.sun.com/j2se/1.4.2/download.html>
2. Download and install Apache Tomcat V5.0 using the default settings or the settings required by the customer: http://jakarta.apache.org/site/downloads/downloads_tomcat-5.cgi
3. Configure the Tomcat user database (tomcat-users.xml) to be able to run the administration and manager applications. The file is stored in the TomcatBaseDirectory/conf directory:

```
<?xml version='1.0' encoding='utf-8'?>
<tomcat-users>
  <role rolename="tomcat"/>
  <role rolename="role1"/>
  <role rolename="manager"/>
  <role rolename="admin"/>
  <user username="tomcat" password="tomcat" roles="tomcat,admin,manager"/>
  <user username="role1" password="tomcat" roles="role1"/>
  <user username="both" password="tomcat" roles="tomcat,role1"/>
</tomcat-users>
```
4. Copy the IBM DB2 Universal JDBC Driver files and Apache Derby Driver file in the TomcatBaseDirectory/common/lib directory. The required files are: db2jcc.jar, db2jcc_license_cu.jar and derby.jar. The DB2 JDBC Driver files are included with IBM DB2. The Derby Driver file is included with Apache Derby. Instead of copying the files to the common/lib directory, they may be added to the Tomcat classpath. Refer to the Tomcat documentation for instructions.
5. Download the open source xalan-2.6.0.jar file from the TomcatBaseDirectory/common/endorsed directory. The file can be downloaded from the following address: <http://www.ibiblio.org/maven/xalan/jars/>

3 - Editing the Deployment File rpm.xml

1. Copy the rpm.xml and rpm-web-services.war files to a directory on the same computer as the Tomcat Server. The rpm-web-services.war file can be found in the rpm-web-services.ear. Extract the EAR file with a Zip file extractor to find the WAR file.
2. Open the rpm.xml file with a text editor.
3. Edit the Context docBase tag to state the location of the rpm-web-services.war file. It should be set to the directory where you copied the two files. If you are you using Tomcat V5.0, change the **path="/rpm"** parameter only if required. It

defines the actual URL that will be used to call the Web Services API (for example, `http://mytomcatserver.mycompany.com:8080/rpm`). If you are using Tomcat V5.5, there should not be a path attribute in the Context element.

4. Edit the `jdbc/RPMSESSION` to the actual values defined in the section “Installing the Session Database” on page 9. Do not change the **Resource name** or the **ResourceParams** name. They also need to have the same value. Do not remove or change the **validationQuery** parameter. This parameter is a SQL statement that enables Tomcat to know if a connection is still valid.
5. Edit `jdbc/RPMDATASOURCE` parameters to the actual value required by your RPM database. If you change the **Resource name** or the **ResourceParams** name, make sure they have the exact same value. This name will be used as the DSN name when calling a Web Service.

Note: Do not remove or change the **validationQuery** parameter. This parameter is an SQL statement that enables Tomcat to know if a connection is still valid.

6. Save and close the `rpm.xml` file.

The following is an example of the `rpm.xml` file for Tomcat V5.0:

```
<?xml version='1.0' encoding='utf-8'?>
<Context docBase="C:/tmpwars/rpm-web-services.war" path="/rpm" reloadable="true">
  <Resource name="jdbc/RPMSESSION" type="javax.sql.DataSource"/>
  <ResourceParams name="jdbc/RPMSESSION">
    <parameter>
      <name>maxWait</name>
      <value>5000</value>
    </parameter>
    <parameter>
      <name>maxActive</name>
      <value>4</value>
    </parameter>
    <parameter>
      <name>password</name>
      <value>RPMSESSION</value>
    </parameter>
    <parameter>
      <name>url</name>
      <value>jdbc:derby:C:\RPMSESSION</value>
    </parameter>
    <parameter>
      <name>driverClassName</name>
      <value>org.apache.derby.jdbc.EmbeddedDriver</value>
    </parameter>
    <parameter>
      <name>maxIdle</name>
      <value>2</value>
    </parameter>
    <parameter>
      <name>username</name>
      <value>RPMSESSION</value>
    </parameter>
    <parameter>
      <name>validationQuery</name>
      <value>values(1)</value>
    </parameter>
  </ResourceParams>
  <Resource name="jdbc/RPMDATASOURCE" type="javax.sql.DataSource"/>
  <ResourceParams name="jdbc/RPMDATASOURCE">
    <parameter>
      <name>validationQuery</name>
      <value>values(1)</value>
    </parameter>
    <parameter>
```

```

        <name>maxWait</name>
        <value>5000</value>
    </parameter>
    <parameter>
        <name>maxActive</name>
        <value>4</value>
    </parameter>
    <parameter>
        <name>password</name>
        <value>database-server-password</value>
    </parameter>
    <parameter>
        <name>url</name>
        <value>jdbc:db2://database-server-url.com:50000/RPM</value>
    </parameter>
    <parameter>
        <name>driverClassName</name>
        <value>com.ibm.db2.jcc.DB2Driver</value>
    </parameter>
    <parameter>
        <name>maxIdle</name>
        <value>2</value>
    </parameter>
    <parameter>
        <name>username</name>
        <value>database-user-name</value>
    </parameter>
</ResourceParams>
</Context>

```

The following is an example of the rpm.xml file for Tomcat V5.5:

```

<?xml version='1.0' encoding='utf-8'?>
<Context docBase="c:\tmpwars\rpm-web-services-x.x.x.x.war" reloadable="true">
    <Resource
        auth="Container"
        description=""
        name="jdbc/RPMSESSION"
        type="javax.sql.DataSource"
        password="RPMSESSION"
        driverClassName="org.apache.derby.jdbc.EmbeddedDriver"
        maxIdle="2"
        maxWait="5000"
        username="RPMSESSION"
        url="jdbc:derby:C:\RPMSESSION"
        maxActive="4"
        validationQuery="values(1)"/>
    <Resource
        auth="Container"
        description=""
        name="jdbc/RPMDATASOURCE"
        type="javax.sql.DataSource"
        password="database-server-password"
        driverClassName="com.ibm.db2.jcc.DB2Driver"
        maxIdle="2"
        maxWait="5000"
        username="database-user-name"
        url="jdbc:db2://database-server-url.com:50000/RPM"
        maxActive="4"/>
</Context>

```

4 - Running the Tomcat Manager

1. Run the startup.bat file located in the TomcatBaseDirectory/bin directory to start the Apache Tomcat server.

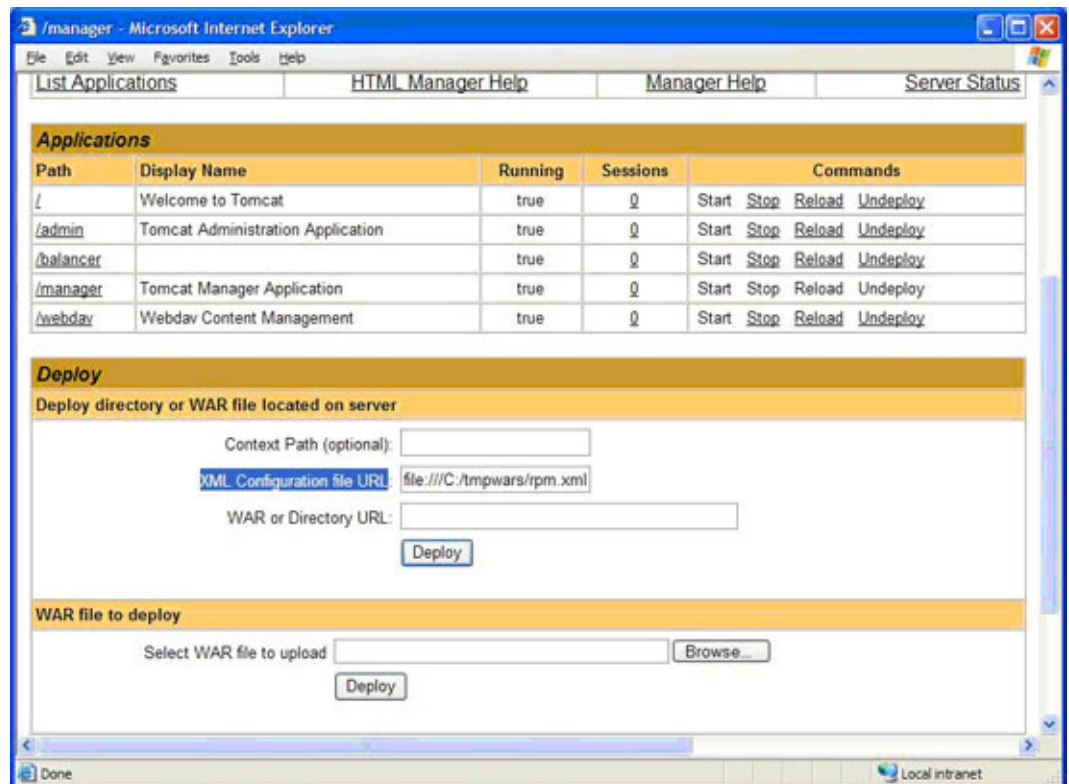
- Open a web browser and run the Tomcat Manager: <http://localhost:8080/manager/html>. This URL may be different depending on your Tomcat installation (server name and/or port may be different).
- Enter the manager name and password as defined in the step 3 of the section “2 - Installing Apache Tomcat” on page 23.



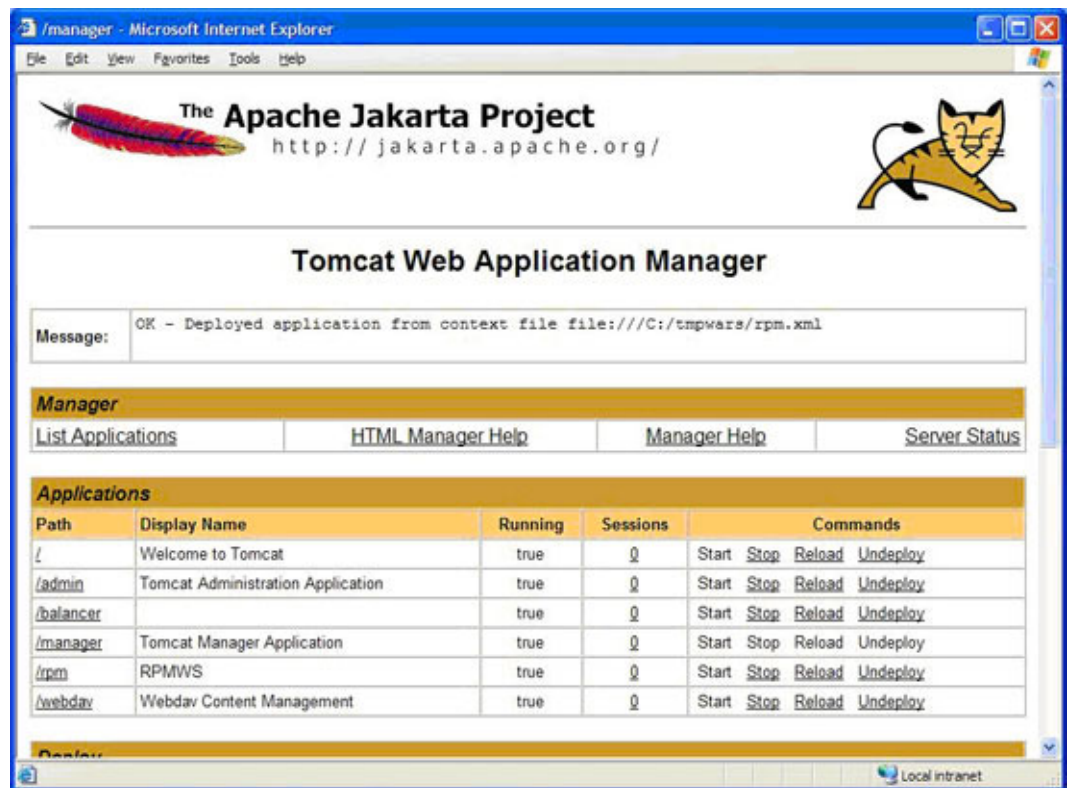
- Scroll down to deploy directory or WAR file located on server, and enter the location of the rpm.xml file in the XML Configuration file URL text box.

Note: The format of the URL: `file:///C:/tmpwars/rpm.xml` where rpm.xml is located in the `c:\tmpwars` directory.

If you are using Tomcat V5.5 you must type the context path (for example, `/rpm`) in the Context Path field.



- Click **Deploy**. You should see that the RPM Web Services API (RPMWS) is running at the `/rpm` path.



6. You can start using the Web Services API.

RPM Web Services Configuration

RPM Web Services are configured using two property files: `com.ibm.rpm.GeneralOptions.properties` and `com.ibm.rpm.LdapOptions.properties`. The files are located in the directory where `rpm-web-services.ear` has been deployed.

Table 3. Application Servers and Configuration files

Application Server	Configuration Files' Directory location
Tomcat 5.0, 5.5	{TomcatInstallDir}\webapps\rpm\WEB-INF\classes
WebSphere 6.0	{WebSphereInstallDir}\profiles\{profile}\installedApps\{cell}\rpm-web-services.ear\rpm-web-services.war\WEB-INF\classes

General Options

The file `com.ibm.rpm.GeneralOptions.properties` contains the set of general options for RPM Web Services. The values of these options must be edited as required for your application.

Authentication Type

- Property name: **authenticationType**
- Type: String
- Default Value: Database
- Description: Specifies the type of authentication used when the RPM Web Services' client calls **Authenticate.login**(username, password, dsn). Valid values are: Database, LDAP.

- When using Database authentication, the username and password supplied are matched with the username and password specified in the Resource Management section of RPM's database.

Note: When Database authentication is specified, the file `com.ibm.rpm.LdapOptions.properties` is ignored.

- When using LDAP authentication, the username supplied is matched with the one specified in the Resource Management section of RPM's database, then the password is matched with the one specified on the configured LDAP server. The Ldap configuration is located in `com.ibm.rpm.LdapOptions.properties`.

Note: The **changePassword** method is not available when LDAP authentication is specified.

Use Session Timeout

- Property name: **useSessionTimeout**
- Type: boolean
- Default Value: false
- Description: If this value is set to *true*, the RPM Web Services will automatically disable sessions which have remained inactive for a period of time greater than is specified in the parameter **sessionTimeoutDelayInSeconds**.

Session Timeout Delay In Seconds

- Property name: **sessionTimeoutDelayInSeconds**
- Type: Integer
- Default Value: 600 seconds
- Description: This value specifies the lapse of time in seconds during which a session can remain inactive before it times out. This parameter is not used if the **useSessionTimeout** parameter is set to *false*. The value range of this parameter is 1 to 2147483647. If an invalid value is detected, the default value is applied.

Use Api security flag on login

- Property name: **useApiSecurityFlagOnLogin**
- Type: String
- Default Value: no
- Description: If the value is set to yes, only users that have the security right to use the Web Services API will be able to login when RPM Web Services' client calls **Authenticate.login(username, password, dsn)**. Valid values are: on, off.

Ldap Options

The file `com.ibm.rpm.LdapOptions.properties` contains the set of LDAP options for RPM Web Services. It is used only if the general option **authenticationType** is set to LDAP. Edit the values of these options as required for your application.

Note: The content of this file should be identical to the content of the RPM Middleware configuration file `com.ibm.rpm.auth.jndi.JNDIController.properties`.

Search Context

- Property name: **com.ibm.rpm.auth.jndi.Ldapsearchcontext**
- Type: String

- Default Value: CN=Users,DC=corp,DC=hq,DC=ibm,DC=com
- Description: Defines the subset of the LDAP server to be searched for the specified username. It is used as a filter during the directory search.

User ID Attribute

- Property name: **com.ibm.rpm.auth.jndi.ldapuseridattr**
- Type: String
- Default Value: uid
- Description: LDAP attribute that will be used to match Authenticate.login's username parameter.

User Authentication Distinguished Name

- Property name: **com.ibm.rpm.auth.jndi.ldapuserauthdn**
- Type: String
- Default Value: dn
- Description: Unique name for an entry in the LDAP directory.

LDAP Server URL

- Property name: **java.naming.provider.url**
- Type: String
- Default Value: ldap://bluepages.ibm.com:389
- Description: the LDAP server's URL

Note: You must modify this value if you are not installing within IBM.

LDAP Context Implementation

- Property name: **java.naming.factory.initial**
- Type: String
- Default Value: com.sun.jndi.ldap.LdapCtxFactory
- Description: LDAP context implementation class

Note: This value is rarely modified

LDAP Version

- Property name: **java.naming.ldap.version**
- Type: Integer
- Default Value: 3
- Description: Version of LDAP to be used, valid values are: 2, 3.

Note: This field is rarely modified

Security Protocol

- Property name: **java.naming.security.protocol**
- Type: String
- Default Value: simple
- Description: Security protocol to be used, valid values are: simple, ssl.

Security Authentication

- Property name: **java.naming.security.authentication**

- Type: String
- Default Value: none
- Description: Specifies the authentication mechanism that the Service Provider will use.

The following values are valid:

- none - use no authentication (anonymous)
- simple - use weak authentication (clear text password)

If this option is not set but the `java.naming.security.principal` property has been, the Service Provider will use simple authentication. If neither property is set, the Service Provider will bind anonymously.

SSL Key Store

- Property name: **`javax.net.ssl.keyStore`**
- Type: String
- Default Value: *No default value*
- Description: Specifies the location of where to find key material for the default KeyManager.

SSL Key Store Type

- Property name: **`javax.net.ssl.keyStoreType`**
- Type: String
- Default Value: `jks`
- Description: Specifies the KeyStore file type for key material for the default KeyManager.

SSL Key Store Password

- Property name: **`javax.net.ssl.keyStorePassword`**
- Type: String
- Default Value: *No default value*
- Description: Specifies the password to be used with this KeyStore.

SSL Trust Store

- Property name: **`javax.net.ssl.trustStore`**
- Type: String
- Default Value: *No default value*
- Description: Specifies the location of where to find key material for the default TrustManager.

SSL Trust Store Type

- Property name: **`javax.net.ssl.trustStoreType`**
- Type: String
- Default Value: `jks`
- Description: Specifies the KeyStore file type for key material for the default TrustManager.

SSL Trust Store Password

- Property name: **`javax.net.ssl.trustStorePassword`**
- Type: String

- Default Value: *No default value*
- Description: Specifies the password to be used with this KeyStore.

Data Source Recommended Settings

The following settings are recommended for the **RPMDATASOURCE** connection pool:

- Connection timeout: 600 seconds
- Maximum connections: 50
- Minimum connections: 10
- Reap time: 180 seconds
- Unused timeout: 1800 seconds

It is recommended to keep the **maximum connections** number equal or higher to the number of concurrent threads configured on the web server.

Chapter 4. RPM Web Services API – Client Installation

The objective of this section is to provide help getting started with the Web Services API. This section provides explanations on how to generate, set up, and use the Web Services API, and introduces some basic usage of the services through code samples.

Getting the WSDL Files

The WSDL files contain all the information the client application requires to connect to the RPM Web Services.

The following two WSDL files are retrievable from the Websphere EAR file or from the Tomcat JAR file:

- Authenticate.wsdl
- Application.wsdl

From the EAR file

To get the WSDL files from the EAR file:

1. Extract the EAR file.
This will produce a file called rpm-web-services.war.
2. Extract the rpm-web-services.war file.
3. Go to the WEB-INF/wsdl folder of the extracted rpm-web-services.war.
4. Take the Authenticate.wsdl file and edit the last section to match the connection URL of your server. `<wsdlsoap:address location="http://my.server.url:9080/rpm/services/Authenticate"/>`
5. Take the Application.wsdl file and edit the last section to match the connection URL of your server. `<wsdlsoap:address location="http://my.server.url:9080/rpm/services/Application"/>`

Generating the API from the WSDL

This section provides instructions for generating the API for Java and Microsoft Visual Studio .NET development environments.

Once the WSDL files are obtained, they must be imported into the development platform in order to enable the development environment to generate the API with the necessary objects that are to be used when building your client Web Service application.

Java Environments

The RPM Web Services currently supports the Java API from the WSDL2Java utility.

Java environments access the RPM Web Services API through Java objects that serve as proxies for the server-side counterparts. Before using the RPM Web Services API, the objects must first be generated from the WSDL files.

Before running WSDL2Java, the Apache Axis must be installed on your system and all of its component JAR files must be referenced in your classpath. With MS-DOS command line, the classpath variable can be viewed using the following command line:

```
echo %classpath%;
```

Axis

Generating the API using Apache Axis WSDL2Java:

1. Download the Apache Axis tool kit from Download the Apache Axis tool kit from http://www.apache.org/dyn/closer.cgi/ws/axis/1_3_0.
2. Extract the ZIP file on to your hard drive.
3. Add the JAR files to you classpath.
4. Open a command prompt window.
5. Go to your \wsdl folder.
6. Execute the following command: `java org.apache.axis.wsdl.WSDL2Java yourwsdlfilename.wsdl .` This will generate a set of folders and Java source code files in the same directory in which it was run.
7. Cut and paste the folder and its content into your Java workspace.

You can now start using the API and begin development.

Microsoft Visual Studio .NET Environments

The RPM Web Services currently support the C++/C#/VB API.

Visual Studio languages access the RPM Web Services API through objects that serves as proxies for their server-side counterparts. Before sing the RPM Web Services API, you must first generate these objects form your WSDL files.

Visual Studio provides two approaches for importing your WSDL files and generating a Web service client: an IDE-based approach and a command line approach.

.NET with C#

Adding a Web reference:

1. On the **Project** menu, choose **Add Web Reference**.
2. In the URL box of the **Add Web Reference** dialog box, type the URL to obtain the service description of the XML Web service you want to access, such as:
`File://c:/wsdlrep/Application.wsdl`
3. Click the **Go** button to retrieve information about the XML Web service
4. In the Web reference name box, rename the Web reference to the wsdl file name.
5. Click **Add Reference** to add a Web reference for the target XML Web service.
6. Visual Studio retrieves the service description and generates a proxy class to interface between your application and the XML Web service

You can now start using the API and begin development.

Using Visual Studio Tools:

1. Install the .NET SDK framework.

2. Have `wsdl.exe` in your path.
3. Open a command prompt window.
4. Go to your `\wsdl` folder.
5. Execute the command: `wsdl /1 [CS/VB/JS] yourwsdlfilename.wsdl..` This will generate the API with the following files:
 - `Youwsdlfilename.cs` for C#
 - `Youwsdlfilename.vb` for Visual Basic
 - `Youwsdlfilename.js` for Jscript

You can now start using the API and begin development.

Code Samples

Once the API has been generated from the WSDL files, you can begin writing programs that use the RPM Web Services API. This section provides code samples that are intended to facilitate the learning process, on how to build code for a client application using the RPM Web Services API.

This section uses the two following code samples:

- Java sample code (Apache Axis)
- C# sample code

The purpose of this sample application code is to demonstrate the required steps to:

1. Login on a RPM Web Service.
2. Create a pool of resources.
3. Query the created pool.
4. Add a resource to that pool.
5. Delete the pool with the resource.
6. Log out from the server.

Java Code Sample

```
import java.net.URL;

import com.ibm.rpm.framework.RPMObject;
import com.ibm.rpm.framework.ReloadType;
import com.ibm.rpm.interfaces.Application;
import com.ibm.rpm.interfaces.ApplicationServiceLocator;
import com.ibm.rpm.interfaces.Authenticate;
import com.ibm.rpm.interfaces.AuthenticateServiceLocator;
import com.ibm.rpm.resource.containers.Pool;
import com.ibm.rpm.resource.containers.Resource;
import com.ibm.rpm.resource.scope.PoolScope;
import com.ibm.rpm.resource.scope.ResourceScope;

public class JavaSample
{
    //The Application interface has the save, query and delete methods
    public static Application applicationInterface = null;

    //The ApplicationServiceLocator creates the application
    //service from the specified URL
    public static ApplicationServiceLocator applicationLocator =
        new ApplicationServiceLocator();
```

```

//The URL of the Web service
public static String url = "http://localhost:8080/rpm/services/";

//The Authenticate interface has the login, logout and change password
// methods
public static Authenticate authenticate = null;

//The AuthenticateServiceLocator creates the service,
//authenticates service from the specified URL
public static AuthenticateServiceLocator authlocator =
    new AuthenticateServiceLocator();

//The SessionID is used through the whole program to keep the connection
// alive
public static String sessionid;

public static void main(String[] args) throws Exception
{
    //Creation of the object which will be used to
    //get a session with the RPM Web Service
    //Use the AuthenticateServiceLocator to create the Authenticate with
    // the
    //URL to connect.
    //Authenticate is an Interface, so you cannot instantiate it.
    authenticate = authlocator
        .getAuthenticate(new URL(url + "Authenticate"));

    //A User/Password/dsn is required to be authenticated by the server
    String username = "rpmadministrator";
    String password = "yourrpmpassword";
    String dsn = "jdbc/RPMDATASOURCE";

    //Use the authenticate object to login with the user/password/dsn
    //If the login is successful, it returns a sessionId that will be used
    //All along the creation/modification/query of the RPM object.
    sessionid = authenticate.login(username, password, dsn);

    //Creation of the object which will be used to save\modify\query RPM
    // object

    //The application is an Interface, you have to use the
    // //applicationServiceLocator to obtain an application instance. You
    // also need //to specify where to connect by specifying the URL at
    // creation.
    applicationInterface = applicationLocator.getApplication(new URL(url
        + "Application"));

    //Create a container pool and set a name
    Pool demoPool = new Pool();
    demoPool.setName("SaveThisPool");

    //Save the pool in the RPM Repository
    applicationInterface.save(sessionid, demoPool, null,
        ReloadType.ReloadResult);

    //Query the Pool you have saved in the RPM Repository with an XPath
    // that has //the name of the pool
    //The Query returns an array of Pool that has the name you have queried
    RPMObject pools[] = applicationInterface.loadFromXPath(sessionid,
        "/Pool[name='SaveThisPool']", null).getRpmObjectList();

    Pool queryPool = (Pool) pools[0];

    //Create a resource to be saved under the pool
    Resource secondLevelResource = new Resource();

    //Set a resource that is contained within the demoPool

```

```

        queryPool.setResources(new Resource[]
        {
            secondLevelResource
        });

        //Create a scope from which the hierarchy of container will be kept
        PoolScope demoScope = new PoolScope();

        //Set a Resource under the pool which represents a multi-level
        // structure
        //If it is not set, the only container save will be the demoPool
        demoScope.setResources(new ResourceScope());

        //The application interface will connect to the server with the
        // sessionId
        //Send the container with the scope so it is correctly saved in the RPM
        // //Database
        applicationInterface.save(sessionid, queryPool, demoScope,
            ReloadType.ReloadResult);

        //Delete the Pool from the RPM Repository
        applicationInterface.delete(sessionid, queryPool);

        //After executing all commands, you have to logout with the sessionId
        authenticate.logout(sessionid);
    }
}

```

.NET Code Sample

```

using System;

using Project.ApplicationAPI;
using Project.AuthenticateAPI;

namespace TestFramework
{
    /// <summary>
    ///
    /// <summary>
    public class SAMPLE
    {
        public SAMPLE()
        {
            //
            // TODO: Add constructor logic here
            //
        }

        //User, password, DataSource Name are use to authenticate with the service
        static String username = "administrator";
        static String password = "ibmrpm";
        static String dsn = "jdbc/RPMDATASOURCE";

        //Session ID is use for all transaction and is get from the
        //Authenticate.login function. The session ID will replace the
        //User password while transacting
        private static String sessionid;

        //The url will describe the location of all the services
        //It will need to have the service attach to the url like
        //http://localhost:8080/rpm/services/Application
        private static String url = "http://localhost:9081/rpm/services/";

        //Object AuthenticateService which provide de
        //login/logout/change password interface
        //It is a wsdl imported from project->addWebReference
    }
}

```

```

static AuthenticateService auth;

//Object ApplicationService which provide de
//Save/load/checkin/checkout interface
//It is a wsdl imported from project->addWebReference
static ApplicationService service;

//Containers to be save/load in the database
static Pool pool;
static Resource resource;
/// <summary>
/// The main entry point for the application.
/// <summary>
[STAThread]
static void Main()
{
    //Get an instance of authenticateService
    auth = new AuthenticateService();

    //Specify the url to connect to which is represented
    //by the location of all the services and the specified
    //service Authenticate
    auth.Url = url + "Authenticate";

    //Login from the authenticateService api with your
    //user/password/dsn. This will return your session ID
    //To use for the application acces.
    sessionid = auth.login(username, password, dsn);

    //Create a container to save in the RPM Database
    //The creation of the container pool is being done
    //by the application api. All the container are held
    //Within the application wsdl
    pool = new Pool();
    //Specify a name or anything you want for the Specific
    //pool
    pool.name = "DOTNET";

    //Get an instance of ApplicationService
    service = new ApplicationService();

    //Specify the url to connect to which is represented
    //by the location of all the services and the specified
    //service Application
    service.Url = url + "Application";

    //Use the service instance to save the pool with the
    //sessionID, to be authenticate, the pool, which you're
    //looking to save, and the scope, to represente the
    //structure of multiple linked container
    ReloadType saved = new ReloadType();
    saved = ReloadType.ReloadResult;

    service.save(sessionid, pool, null, saved);

    //Query the Pool you have saved in the RPM Repository
    //with an XPath that has the name of the pool in it
    //The Query return an array of Pool
    //that has the name you have query

    RPMObject[] poolarray = service.loadFromXpath(sessionid,
        "/Pool[name='DOTNET']", null).rpmObjectList;

    //Take the first object of the returned array
    pool = (Pool)poolarray[0];
}

```



```

//Create a new resource that will be save
resource = new Resource();
resource.fullName = "youfullrname";
resource.userName = "yourusername";
resource.password = "yourpswd";
resource.active = true;

//Set a resource that is contain within the pool
//There can be multiple resource under the pool
//This is why you need to saved them in an array
pool.resources = new Resource[] { resource };

//The pool scope is use to specify the hiearchy of the
//the containers saved in the database
PoolScope scope = new PoolScope();
//Set a Resource under the pool represents a multi-level structure
//If it is not set, the only container save will be the pool
scope.resources = new ResourceScope();

//The application interface will connect to
//the server with the sessionId
//Send the container with the scope so it is
//correctly saves in the RPM Database
service.save(sessionid, pool, scope, ReloadType.SavedResult);

//Delete the Pool from the RPM Repository
service.delete(sessionid, pool);

auth.logout(sessionid);
    }
}

```

Chapter 5. RPM Web Services API – Concepts

The objective of this section is to describe the concepts behind the RPM Web Services API and to provide support to the reader for correct usage of the API. This section also describes the methods which are used with the two interfaces that are provided with the API.

This section provides information on the following concepts:

- Session IDs
- Scoping
- XPath
- Calendar and Time zones
- Concurrency
- Interfaces and methods
- Document Transfer
- Error handling
- Transactions
- Performance Recommendations
- Security in the RPM Web Services API

Session IDs

Session IDs contain information used by the Web Service to identify the client user through transactions without having to send the user name and password each time. The Web Service assigns a session ID to the client at logon which is valid until the client sends a logout request to the Authenticate service to terminate the session.

Use the following syntax to get a session ID:

C# and Java

```
sessionid = (authenticate).login(username, password, dsn);
```

To use any function or method of the Application interface, send the sessionid from the login with the following syntax:

C# and Java

```
application.save(sessionid, container, scope, reloadType);
```

To correctly end the transaction between the user and the Web Service, the user must logout from the server using the Authenticate logout function and provide the session ID he wants to close. Use the following syntax to logout, close a session ID, and stop any further transactions

```
authenticate.logout(sessionid);
```

Scoping

Scoping is the conceptual reference to a hierarchy of elements represented by boundaries. Scoping is used to create elements in a specified way or to retrieve specified linked objects.

For instance, if you want to create a pool of resources with two resources attached to it, you must represent the resources as children of the pool. In this case, the scoping of the structure will use the following syntax:

C#

```
ApplicationAPI.PoolScope scope = new ApplicationAPI.PoolScope();
scope.resources = new ApplicationAPI.ResourceScope();
```

Java

```
PoolScope scope = new PoolScope();
scope.setResources(new ResourceScope());
```

In this example, you must first create a PoolScope taking into account to later save a Pool container. Use the following syntax to create the main element:

C#

```
ApplicationAPI.PoolScope scope = new ApplicationAPI.PoolScope();
```

Java

```
PoolScope scope = new PoolScope();
```

The next step consists of placing the scope of the children under the scope of the parent. In this case, the resources are the children of the PoolScope but there are many other possible hierarchy structures. To represent the resources as the children of the PoolScope, set the PoolScope resources member using the following syntax:

C#

```
scope.resources = new ApplicationAPI.ResourceScope();
```

Java

```
scope.setResources(new ResourceScope());
```

Once the scope is created, you can save or load or modify the containers in the RPM Database. Send the message containing the scope using the following syntax:

C# and Java

```
application.save(sessionid, pool, scope, reloadtype);
```

If you do not want to save the children or parents, simply use the save method specifying a null value for the scope:

C# and Java

```
application.save(sessionid, pool, null, reloadtype);
```

XPaths

XPath is the language used to find information in an XML document. In the Web Service interface it is used to retrieve containers from the RPM database. XPaths that are sent with the load function or method from the Application interface.

The ApplicationService interface provides three functions to load a container from a Web Service, however, it only one uses XPath.

Remember that the scoping function allows you to retrieve children and parent at the same time. When no scope is used (null value), only the main container is returned.

XPaths must respect the following syntax:

```
/statement/statement/...
```

Statement: The XPath must contain a minimum of 1 statement. The last statement will indicate the type of container that will be returned by the XPath query. Each statement has the following syntax:

```
container[conditions]
```

Container: The name of the container being queried. This field is mandatory. The value of this field must match the value of one of the containers described in chapter 6 of this API Guide. If there are multiple statements, the containers used in adjacent statements must have a relationship between each other. The container name is case insensitive.

Condition: A condition that will be applied to the specified container. This field is optional. Supported conditions are the following:

- Equals condition
- Not Equal condition
- Bigger than condition
- Bigger or Equal to condition
- Smaller than condition
- Smaller or equal to condition
- Starts with condition
- Contains condition

Equals condition: Verifies that a field equals a specific value. Syntax :
[field=value]

Not Equal condition: Verifies that a field doesn't equals a specific value. Syntax :
[field!=value]

Bigger than condition: Verifies that a field is bigger than a specific value. Syntax :
[field>value]

Bigger or equal to condition: Verifies that a field is bigger or equal to a specific value. Syntax : [field>=value]

Smaller than condition: Verifies that a field is smaller than a specific value. Syntax : [field<value]

Smaller or equal to condition: Verifies that a field is smaller or equal to a specific value. Syntax : [field<=value]

Starts with condition: Verifies that a text field starts with a specific value. Syntax :
[starts-with(field,value)]

Contains condition: Verifies that a text field contains a specific value. Syntax :
[contains(field,value)]

Multiple conditions: More than one condition can be specified:

- AND: [condition1 and condition2]
- OR: [condition1 or condition2]

Field: Name of a field in the queried container. This field name must match the name specified in chapter 6 of this API Guide. A field name is always prefixed by the @ character. The field name is case insensitive.

Value: The value to be queried. The format of the value can be the following:

- **A string:** Sample String
- **A number:** 3.14
- **A date in the format YEAR-MONTH-DAY:** 2006-07-19
- **A date in the format YEAR-MONTH-DAY HOUR:MINUTES:SECONDS:**
2006-07-19 13:01:69
- **A boolean:** 0 for false or 1 for true.

Example 1: The following query will return all the pools named 'Pool Name'.

```
/Pool[@name='Pool Name']
```

Example 2: This query will return all the resources contained in all the pools named 'Pool Name'.

```
/Pool[@name='Pool Name']/Resource
```

Example 3: This query will return all the resources that have an effective start date that occurs after 2006-08-15 9:50:43.

```
/resource[@EffectiveStartDate>'2006-08-15 09:50:43']
```

Example 4: This query will return all the pools that contain a resource named 'Resource Name'.

```
/pool[@resources[@fullName='Resource Name']]
```

Example 5: This query will return all the resources that are named 'Resource Name' and that have an effective start date equal to 2006-08-15.

```
/Resource[@fullName='Resource Name' and @EffectiveStartDate='2006-08-15']
```

Example 6: This query will return all the resources that are named 'Bob' or 'Bill'.

```
/Resource[@fullName='Bob' or @fullName='Bill']
```

Example 7: This query will return all the resources where the full name contains the "Bob" substring.

```
/Resource[contains(@fullName,'Bob')]
```

Calendars and Time Zones

The RPM Web Services server (Axis & Websphere) is expected to operate in Universal Time Coordinated (UTC) format which discards all time zone information. Therefore, all Calendar information sent through SOAP is translated to UTC.

Concurrency

The RPM Web Service API does not support the concurrency functionality. However, the RPM Web Service API automatically manages the **Check Out** and **Check In** functions on the objects that are used.

When calls are issued to modify objects, the RPM Web Service API automatically performs a **Check Out** and **Check In** on the desired resources. For instance, the call for saving a container will automatically **Check Out** and **Check In** the elements of the RPM repository in order to save the container.

Transactions

Each call to the API is treated as a single transaction. If any critical error is detected during a call to the API, the call will be rolled back and the list of errors will be returned to the client.

Interfaces and Methods

The following two interfaces are released with the RPM Web Services API:

- Authenticate Interface
- Application Interface

Authenticate Interface

The Authenticate interface provides the following calls:

- **string login** (String rpmmuser, String rpmpassword, String datasource) throws RPMException

The login method provides a session ID which must be used to call any method of the Application interface.

Note: The authentication can be of two types: Database or LDAP. Refer to the configuration section in chapter 2 for details.

- The parameter **rpmmuser**, defines the RPM user name. If this parameter is invalid, the method will fail and will return an RPM Exception.
- The parameter **rpmpassword**, defines the password associated with the RPM user name. If the password does not match the RPM user, the method will fail and will return an RPM Exception.
- The parameter **datasource**, defines the data source name of the RPM database to use. This data source name is configured during the installation of the RPM Web Services, refer to chapter 2 for details. If this parameter is invalid, the method will fail and will return an RPM Exception.
- The return of a **sessionID** from the server means the login is successful.

- **void logout** (String sessionID) throws RPMException

The logout method will close a session represented by the specified session ID.

- The parameter **sessionID**, defines the ID of the session to terminate. If the session ID is invalid, the method will fail and will return an RPM Exception.
- **void changePassword** (String rpmuser, String oldpassword, String newpassword, String datasourcename) throws RPMException
Method used to change the password of a specific RPM user account.

Note: This method is not available when using LDAP authentication.

- The parameter **rpmuser**, defines the RPM user name. If this parameter is invalid, the method will fail and will return an RPM Exception.
- The parameter **oldpassword**, defines the current password of the RPM user. If the password does not match the RPM user, the method will fail and will return an RPM Exception.
- The parameter **newpassword**, defines the new password to assign to the RPM user. If the password does not satisfy the RPM requirements concerning password complexity and length, the method will fail and will return an RPM Exception.
- The parameter **datasource**, defines the data source name of the RPM database to use. This data source name is configured during the installation of the RPM Web Services, refer to chapter 2 for details. If this parameter is invalid, the method will fail and will return an RPM Exception.

Application Interface

The Application interface provides the following methods:

- **Result checkOut**(String sessionID, RPMObject container)
The CheckOut method is disabled.
- **Result checkIn**(String sessionID, RPMObject container)
The CheckIn method is disabled.
- **Result undoCheckOut**(String sessionID, RPMObject container)
The UndoCheckOut method is disabled.
- **PropertyArray getSystemInfo**(String sessionID) throws RPMException
This method is used to query all the information about the RPM Web services server.
 - Parameter **sessionID**: The session identifier obtained during the login call. If this parameter isn't valid, the method will fail with a RPM Exception.
 - Returns an array containing all the information in the server, using key/value pairs.
In the current version, the returned property keys are the following:
 - **com.ibm.rpm.ws.database.supportedversion**: the version of the database supported by this API. This is fixed at build time.
 - **com.ibm.rpm.ws.build.version**: the version of this API. This is fixed at build time.
 - **com.ibm.rpm.ws.database.version**: the version of the database currently used by this API. This depends on your installation and configuration.
- **SingleResult save** (String sessionID, RPMObject container, RPMObjectScope scope, ReloadType reloadtype)
The save method applies changes to the specified containers. The save method starts by applying the changes to the specified container, it then follows the objects linked to this container depending on the scope parameter.

In the case that the delete flag of a container is set to true, the save method deletes the specified container.

If there are errors during the save process, each error is registered and sent back in the `SaveResult`.

Some containers have restrictions about their usage in the save method. For details, refer to the container specific documentation in chapter 5.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail with and will return an RPM Exception.
- The parameter **container**, defines the container to save. If the value of this parameter is null, the method will fail and will return an RPM Exception.
- The parameter **scope**, defines the linked objects that will be followed during the save method. If the value of this parameter is null, only the specified container will be saved and no links will be followed.
- The parameter **reloadtype**, defines the type of reload performed during the save operation. It affects the structure returned in the **SingleResult**. Possible values are the following:

None: This value denotes that the containers will not be reloaded during the save call. The `rpmObject` returned in the **SingleResult** will be *null*.

SavedResult: This value denotes that the saved containers will be reloaded during the save call. The `rpmObject` returned in the **SingleResult** will correspond to the new version of the containers in the RPM database.

ReloadResult: This value denotes that the save method will reload all the containers, starting from the specified container parameter, and will also follow all the specified scopes in the scope parameter.

- Returns the `SingleResult` object. This object contains the following information:

`boolean successful:` A flag that indicates if the task was successful or not.

`RPMObject rpmObject:` The state of the container after the save operation is performed. The objects contained in this field depend on the specified `reloadType` parameter.

`RPMException[] exceptions:` An array containing all the exceptions that occurred during the save operation.

- **Result delete** (String `sessionID`, `RPMObject` `container`)

This method deletes an object from the RPM database.

If the delete call fails, it will throw an RPM Exception.

- The parameter **sessionID**, is the session identifier obtained during the login call. If this parameter is invalid, the method will fail and will return an RPM Exception.
- The parameter **container**, is the container to delete. If this parameter is null, the method will fail and will return an RPM Exception.

- **ArrayResult loadFromXpath** (String `sessionID`, String `XPath`, `RPMObjectScope` `scope`)

This method performs a query to find a list of containers that depend on the conditions specified in the `XPath`.

- The parameter **sessionID**, is the session identifier obtained during the login call. If this parameter is invalid, the method will fail and will return an RPM Exception.

- The parameter **XPath**, is a query to be executed. Refer to section about XPaths in chapter 4 for details. If the XPath query syntax is invalid, the method will fail and return an RPM Exception.
 - The parameter **scope**, indicates which linked objects shall be loaded during the operation. If this parameter is null, only the containers found by the query will be loaded.
 - Returns `ArrayResult.rpmObjectList`, the array of containers that match the desired query.
- **ArrayResult loadArrayFromID** (String sessionID, RPMObject[] rpmObjectArray, RPMObjectScope scope)

This method performs a query to find a list of containers using their unique identifiers.

- The parameter **sessionID**, is the session identifier obtained during the login call. If this parameter is invalid, the method will fail and will return an RPM Exception.
 - The parameter **rpmObjectArray**, is an array of RPM Objects. The IDs of those containers must be set before this method is called. If this parameter is invalid, the method will fail and will return an RPM Exception.
 - The parameter **scope**, indicates which linked objects shall be loaded during the operation. If the value of this parameter is null, only the containers found by the query will be loaded.
 - Returns `ArrayResult.rpmObjectList`, the array of reloaded containers.
- **SingleResult loadFromID**(String sessionID, RPMObject rpmObject, RPMObjectScope scope)

This method performs a query to find a specific container using its unique identifier.

- The parameter **sessionID**, is the session identifier obtained during the login call. If this parameter is invalid, the method will fail and will return an RPM Exception.
 - The parameter **rpmObject**, is the container to be loaded. The ID of this container must be set before this method is called. If this parameter is invalid, the method will fail and will return an RPM Exception.
 - The parameter **scope**, indicates which linked objects are to be loaded during the operation. If the value of this parameter is null, only the containers found by the query will be loaded.
 - Returns `SingleResult.rpmObject`, the loaded container.
- **SingleResult assignScorecard** (String sessionID, RPMObject container, RPMObjectScope scope, ReloadType reloadtype)

The `assignScorecard` method assigns a Scorecard object to an RPMObject. There are three types of RPMObjects that are amenable for scorecard assignment, Asset, GenericProject and its subobjects, and AbstractScope and its subobjects. Refer to documentation on these objects for further information.

It is assumed for the assignment, that the Scorecard has already been created and saved during the design phase and that the RPMObject has already been saved. Once the scorecard has been assigned, any changes to the Scorecard will not affect the AssignedScorecard.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail with and will return an RPM Exception.
- The parameter **objectToAssign** defines the container to save. If this parameter's value is *null*, the method will fail and return an RPM Exception.

- The parameter **objectToAssignScope** defines the scope which defines the linked objects that will be loaded during the assignScorecard method. If this parameter's value is *null*, only the specified container will be loaded after the assignment. It is recommended to set the ScorecardScope structure in the objectToAssignScope in order to load the AssignedScorecard.
 - The parameter **scorecardToAssign** defines the Scorecard to be assigned to the objectToAssign. This should be a scorecard that has been saved with the same context as the objectToAssign.
 - The parameter **reloadtype** defines the type of reload performed during the save operation. It affects the structure returned in the SingleResult.
The possible values are:
 - *None*: The containers will not be reloaded during the save call. The rpmObject returned in the SingleResult will be null.
 - *SavedResult*: The saved containers will be reloaded during the save call. The rpmObject returned in the SingleResult will correspond to the new version of the containers in the RPM database.
 - *ReloadResult*: The save method will reload all the containers starting from the specified container parameter and follow all the scopes specified in the scope parameter.
 - Returns SingleResult object. SingleResult.rpmObject is the objectToAssign after the assignment was completed
- **SingleResult publishScorecard** (String sessionID, AssignedScorecard assignedScorecard, AbstractScorecardScope scorecardScope)
The publishScorecard publishes an assignedScorecard. This operation has two results, the assignedScorecard becomes available for portfolio analysis and the assignedScorecard values are versioned which allows a user to return to history assignedScorecard values and compare versions. For more information refer to RPM's scorecard documentation.
A user can publish an assignedScorecard as many times as desired, each publication marks new version. Once an assignedScorecard is published, it will continue to be as such. The assignedScorecard can be deactivated by a user, using the AssignedScorecardState (for more information refer to AssignedScorecardState documentation).
 - The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
 - The parameter **assignedScorecard** defines the assignedScorecard to publish
 - The parameter **assignedScorecardScope** is the scope that defines the assignedScorecard elements which will be loaded and returned. If the value is set to *null*, only the assignedScorecard will be loaded.
 - Returns **AssignedScorecard** object. SingleResult.rpmObject is the assignedScorecard after the publication has been completed.
 - **SingleResult acceptTaskAssignmentChanges**(String sessionID, TaskAssignment taskAssignment, TaskAssignmentScope scope, boolean acceptEETC, boolean acceptForecastDates)
The user can modify EETC and forecast dates in their own **timesheet**. These changes will not impact the project's current schedule or budgeted cost until it is accepted by the manager.
 - The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.

- The parameter **taskAssignment** defines the **taskAssignment** to accept changes to.
- The parameter **taskAssignmentScope** is the scope that defines the **taskAssignment** element which will be loaded and returned. If the value is set to *null*, only the **taskAssignment** will be loaded.
- The parameter **acceptEETC** indicates whether the value in **EETC** is to be accepted.
- The parameter **acceptForecastDates** indicates whether the values in **forecastStartDate** and **forecastFinishDate** are to be accepted.
- Returns **SingleResult** object. This object contains the **TaskAssignment** after the changes have been accepted, and any exceptions that were raised while performing the changes.

- **SingleResult rejectTaskAssignmentChanges**(String sessionID, TaskAssignment taskAssignment, TaskAssignmentScope taskAssignmentScope, boolean rejectEETC, boolean rejectForecastDates)

The user can modify **EETC** and forecast dates in their own **timesheet**. However, the manager can reject these changes, in which case the fields will revert back to their previous value.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
- The parameter **taskAssignment** defines the **taskAssignment** to reject changes to.
- The parameter **taskAssignmentScope** is the scope that defines the **taskAssignment** element which will be loaded and returned. If the value is set to *null*, only the **taskAssignment** will be loaded.
- The parameter **rejectEETC** indicates whether the value in **EETC** is to be rejected.
- The parameter **rejectForecastDates** indicates whether the values in **forecastStartDate** and **forecastFinishDate** are to be rejected.
- Returns **SingleResult** object. This object contains the **TaskAssignment** after the changes have been rejected, and any exceptions that were raised while performing the changes.

- **SingleResult commitAffectedResources**(String sessionID, GenericProject genericProject, WorkElementScope workElementScope)

After assigning resources to a **GenericProject**, the resources can be committed to the **genericProject** using this method.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
- The parameter **genericProject** defines the **GenericProject** to commit resources to.
- The parameter **workElementScope** is the scope that defines the **genericProject** element which will be loaded and returned. If the value is set to *null*, only the **genericProject** will be loaded.
- Returns **SingleResult** object. This object contains the **GenericProject** after committing affected resources, and any exceptions that were raised while performing the changes.
- **SingleResult copyProposedToPlan**(String sessionID, WorkElement workElement, WorkElementScope workElementScope)

This function copies all of the **workElement**'s proposed dates into planned dates. The impacts of Copy Proposed to Plan are shown below:

1. Allows baseline dates to be set
 2. Removes previous Proposed dates
 3. Allows hours to be logged in timesheets provided that the project is also published
 4. Allows reporting of actual start/finish for duration-based assignments
 - The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
 - The parameter **workElement** defines the **WorkElement** to commit resources to.
 - The parameter **workElementScope** is the scope that defines the **workElement** element which will be loaded and returned. If the value is set to *null*, only the **workElement** will be loaded. In this case, the **workElementScope** **scheduleDates** field should be set to *true* so that the plan and proposed dates are reloaded and returned to the caller.
 - Returns **SingleResult** object. This object contains the **WorkElement** after copying the proposed dates into planned, in addition to any exceptions that were raised while performing the changes.
- **Result replaceProfileWithResource**(String sessionID, ResourceTaskAssignment rta, ResourceTaskAssignmentScope rtaScope, Resource resource)
This function replaces a Profile assigned to a **ResourceTaskAssignment** with a Resource.
 - The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
 - The parameter **rta** contains the Profile to be replaced by the Resource.
 - The parameter **rtaScope** is the scope with which the returned ResourceTaskAssignment will be reloaded.
 - The parameter **resource** defines a resource which meets all criteria defined by the profile (for example, ProfileCompetencyAssignment, ProfileSkillAssignment, Organizational, Geographical, Pool).
 - Returns **SingleResult** object. This object contains the ResourceTaskAssignment with a Resource and no Profile, in addition to any exceptions that were raised while performing the conversion.
 - **Result replaceResourceWithProfile**(String sessionID, ResourceTaskAssignment rta, ResourceTaskAssignmentScope rtaScope)
This function replaces a Resource assigned to a ResourceTaskAssignment with a Profile.

This function replaces a Resource assigned to a ResourceTaskAssignment with a Profile.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an **RPMException**.
- The parameter **rta** contains the Resource to be replaced by a Profile.
- The parameter **rtaScope** is the scope with which the returned ResourceTaskAssignment will be reloaded.
- Returns **SingleResult** object. This object contains the ResourceTaskAssignment with a Profile and no Resource, in addition to any exceptions that were raised while performing the conversion.

- **SingleResult convertWorkElement** (String sessionID, WorkElement inputWorkElement, WorkElement outputWorkElement, WorkElementScope workElementScope)

This function converts a WorkElement to a different type of WorkElement.

A GenericProject can be converted to another type of GenericProject.

An AggregateNode can be converted to another AggregateNode. It can also be converted to a SimpleNode if the AggregateNode does not have children.

A SimpleNode can be converted to another SimpleNode or to an AggregateNode.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an **RPMException**.
- The parameter **inputWorkElement** identifies the WorkElement to be converted.
- The parameter **outputWorkElement** should be set to an empty WorkElement that identifies the type of WorkElement to convert the inputWorkElement to.
- The parameter **workElementScope** is the scope with which the outputWorkElement will be reloaded.
- Returns **SingleResult** object. This object contains the converted WorkElement in addition to any exceptions that were raised while performing the conversion.

- **SingleResult startWorkflow**(String sessionID, WorkflowProcess process, RPMObject target, Resource initiator)

This function starts the given workflow process on the given target object.

- The parameter **process** identifies the workflow process to be started. It cannot be *null*. It must be active.
 - The parameter **target** identifies the object on which the workflow process is to be started. It cannot be *null*. Its root workflow group has to match the process as specified below. Each line in this list maps a workflow group name (as seen in RPM Client) to a target RPM container type.
 1. Project: GenericProject
 2. Deliverable: Deliverable
 3. Task: SimpleNode
 4. Defects: Defect
 5. Change Request: ChangeRequest
 6. Risk: Risk
 7. Issue: Issue
 8. Requirement: Requirement
 9. Service Requests: ServiceRequest
 10. Action Item: Action
 11. Document: Document
 12. Note Minutes: NoteMinutes
 - The parameter **initiator** identifies the resource that will start the workflow process. If its value is set to *null*, the user id entered at login will be used.
 - Returns SingleResult. This object contains any exception that was raised during the execution of this function.
- It will eventually return the object that will represent the workflow instance created when the workflow started. This object will be used to control the

workflow execution with operations such as pause, resume, and stop. For the current version, this object reference is *null*.

–

- **Result transferUnderScope**(String sessionID, RPMObject element, ScopeElement scopeElement)

This function is not implemented in this release.

- **Result transferUnderWBS**(String sessionID, WorkElement workElement, RPMObject element)

This function is not implemented in this release.

- **SingleResult createProjectWithTemplate**(String sessionID, GenericProject inputProject, GenericProject templateProject, WorkElementScope workElementScope)

This function creates a project using a template. If fields are set within **inputProjects**, they will be overwritten by the corresponding template field, therefore, the method will not fail but will return a warning indicating the fields in question.

The inputProject should not be *null* and should also be an instance of Proposal, Project, or WorkOrganization otherwise, the method will fail and return an RPM Exception.

The templateProject should be a valid template and not *null*, it should also be an instance of Proposal, Project, or WorkOrganization otherwise, the method will fail and return an RPM Exception.

- The parameter **sessionID** defines the session identifier obtained during the login call. If this parameter is invalid, the method will fail and return an RPM Exception.
- The parameter **inputProject** defines the GenericProject that will conform to the templateProject.
- The parameter **templateProject** defines the GenericProject that will be used to modify the inputProject
- The parameter **workElementScope** is the scope that defines the genericProject element which will be loaded and returned. If the value is set to *null*, only the genericProject will be loaded.
- Returns SingleResult object. This object contains the GenericProject once all fields in the template have been applied to the input project and any exceptions that were raised while performing the changes.

Document Transfer

Document Transfer enables the upload or download of documents attached to an RPM object such as Wbs, Scope, Asset, Resource, and others. Document transfer is implemented as an HTTP servlet, not as a Webservice.

You can download or upload a document by performing a **GET** or **POST** request on the **DocumentTransfer** servlet providing parameters. For example:

```
GET http://rpmserver.com/rpm/servlet/DocumentTransfer?
ACTION=DOWNLOADUNZIPPED
&CONTEXT_NAME=WBS
&DOCUMENT_ID=EBF75A9C1E854C3B8B8DD17005032D3D
&SESSION_ID=12345678
```

Then you may use **httpConnection.getInputStream()** to download the file.

Uploads are possible via **POST** only. See code samples for the details.

HTTP Parameters

The following table lists the parameters to perform HTTP GET or POST request on DocumentTransfer to upload or download a document.

Table 4. DocumentTransfer Field Description

Parameter	Details
ACTION	<p>Type: string</p> <p>Description: The way document file will be downloaded</p> <p>This parameter is mandatory, the following 4 values are allowed:</p> <ul style="list-style-type: none">• DOWNLOADZIPPED – download zipped version of the document file• DOWNLOADUNZIPPED – download unzipped version of the document file• UPLOADZIPPED – upload zipped version of the document file• UPLOADUNZIPPED – upload unzipped version of the document file
DOCUMENT_ID	<p>Type: string</p> <p>Description: The ID of the DocumentElement object that will be associated with a given file. You can retrieve this ID by using standard Web Services objects. This parameter is mandatory. A 32 characters maximum is allowed for its value.</p>
SESSION_ID	<p>Type: string</p> <p>Description: Indicates the Session ID, it is created by the current server connection. It can be retrieved from the WebServices API connection. This parameter is mandatory. A 32 characters maximum is allowed for its value.</p>
CONTEXT_NAME	<p>Type: string</p> <p>Description: Describes to which context the given Document object belongs to. This parameter is mandatory, possible values are:</p> <ul style="list-style-type: none">• Wbs• Scope• Client• Asset• Resource• Pool
FILE	<p>Type: string</p> <p>Description: Indicates the name of the file to be uploaded on the server.</p>

Table 4. DocumentTransfer Field Description (continued)

Parameter	Details
CONTENT_LENGTH	<p>Type: string</p> <p>Description: Indicates the length, in bytes, of the file to be uploaded. The maximum size of a document that can be uploaded depends on database configuration.</p> <p>Note: The content length might be set automatically depending on the class used to handle the upload process.</p>

Code samples

This section provides you with a code sample intended to help you further understand the Document upload/download process. It walks you through the following Java code sample:

```
import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.net.HttpURLConnection;
import java.net.URL;

import com.ibm.rpm.document.containers.Document;
import com.ibm.rpm.document.containers.DocumentElement;
import com.ibm.rpm.document.containers.DocumentFolder;
import com.ibm.rpm.document.scope.DocumentScope;
import com.ibm.rpm.framework.LoadResult;
import com.ibm.rpm.framework.RPMException;
import com.ibm.rpm.framework.RPMObject;
import com.ibm.rpm.framework.ReloadType;
import com.ibm.rpm.framework.Result;
import com.ibm.rpm.framework.SaveResult;
import com.ibm.rpm.interfaces.Application;
import com.ibm.rpm.interfaces.ApplicationServiceLocator;
import com.ibm.rpm.interfaces.Authenticate;
import com.ibm.rpm.interfaces.AuthenticateServiceLocator;
import com.ibm.rpm.wbs.containers.Project;
import com.ibm.rpm.wbs.scope.WorkElementScope;

public class DocumentUploadDownload_CodeSample
{
    private static Authenticate authenticateInterface = null;

    private static Application applicationInterface = null;

    private static String sessionId = null;

    private static String endpointURL = "http://localhost:8080/rpm/services/";

    private static String projectName = "CodeSampleProject";

    private static String docName = "CodeSampleDoc";

    private static String documentTransferUrl = "http://localhost:8080/rpm/
servlet/DocumentTransfer";

    private static String documentUploadPath = "C:\\Data\\";

    private static String documentDownloadPath = "C:\\";
```

```

public static void main(String[] args)
{
    try
    {
        System.out.println("Create Web service interfaces");

        AuthenticateServiceLocator authenticateSL =
            new AuthenticateServiceLocator();
        authenticateInterface = authenticateSL
            .getAuthenticate(new java.net.URL(endpointURL
                + "Authenticate"));

        ApplicationServiceLocator appSL = new ApplicationServiceLocator();
        applicationInterface = appSL.getApplication(new java.net.URL(
            endpointURL + "Application"));

        System.out.println("Login to RPM WS");
        sessionID = authenticateInterface.login("user",
            "password", "jdbc/RPMDATASOURCE");

        createProjectWithDocument();

        uploadDocument();

        downloadDocument();
    }
    catch (Exception e)
    {
        e.printStackTrace();
    }
    finally
    {
        try
        {
            System.out.println("Logout");
            authenticateInterface.logout(sessionID);
        }
        catch (Exception e)
        {
            //do nothing
        }
    }
}

private static void createProjectWithDocument() throws Exception
{
    System.out.println("Create a project");

    Project project = new Project();

    project.setName(projectName);

    WorkElementScope wbsscope = new WorkElementScope();
    DocumentScope documentScope = new DocumentScope();
    documentScope.setChildren(documentScope);
    wbsscope.setDocumentFolder(documentScope);

    SaveResult result = applicationInterface.save(sessionID, project,
        wbsscope, ReloadType.SavedResult);

    checkTaskSucessfull(result);

    project = (Project) result.getRpmObject();
}

```

```

        System.out.println("Reload the project with the root document folder");

        String xpath = "/Project[name='" + projectName + "']";

        LoadResult result2 = applicationInterface.loadFromXpath(sessionID,
            xpath, wbsscope);

        checkTaskSucessfull(result2);

        RPMObject[] objects = result2.getRpmObjectList();

        Project loadedProject = (Project) objects[0];
        DocumentFolder rootDocumentFolder = loadedProject.getDocumentFolder();

        System.out.println("Add a document to the project");

        Document document = new Document();
        document.setName(docName);

        rootDocumentFolder.setChildren(new DocumentElement[]
        {
            document
        });

        SaveResult result3 = applicationInterface.save(sessionID,
            loadedProject, wbsscope, ReloadType.SavedResult);

        checkTaskSucessfull(result3);
    }

    private static void uploadDocument() throws Exception
    {
        String documentId = null;
        String contextName = null;

        //To load a zipped document
        String documentName = "Test.zip";
        String action = "UPLOADZIPPED";

        //To load an unzipped document
        //String documentName = "Test.doc";
        //String action = "UPLOADUNZIPPED";

        System.out.println("Retrieve the previouly created project");

        WorkElementScope wbsscope = new WorkElementScope();
        DocumentScope documentScope = new DocumentScope();
        documentScope.setChildren(documentScope);
        wbsscope.setDocumentFolder(documentScope);

        String xpath = "/Project[name = '" + projectName + "']";

        LoadResult result = applicationInterface.loadFromXpath(sessionID,
            xpath, wbsscope);

        checkTaskSucessfull(result);

        RPMObject[] objects = result.getRpmObjectList();

        Project loadedProject = (Project) objects[0];
        DocumentFolder rootDocumentFolder = loadedProject.getDocumentFolder();
        Document doc = (Document) rootDocumentFolder.getChildren()[0];

        System.out.println("Upload the document using DocumentTransfer");
    }

```

```

//Document id is needed to upload the document
documentId = doc.getID();

//retrieve contextName from the document
contextName = doc.getContextName();

//Load the file into a File object
File f = new File(documentUploadPath + documentName);
if (f.length() > 2147483647)
{
    throw new Exception("File is too large.");
}

//Create a connection
URL url = new URL(documentTransferUrl);

URLConnection httpConnection = null;
try
{
    httpConnection = (URLConnection) url.openConnection();

    // Enable the use of the http output stream to send the file
    httpConnection.setDoOutput(true);
    httpConnection.setDoInput(true);
    httpConnection.setUseCaches(false);
    httpConnection.setRequestMethod("POST");
    httpConnection.setRequestProperty("ACTION", action);
    httpConnection.setRequestProperty("SESSION_ID", sessionId);
    httpConnection.setRequestProperty("DOCUMENT_ID", documentId);
    httpConnection.setRequestProperty("CONTEXT_NAME", contextName);
    httpConnection.setRequestProperty("FILE", documentName);
    httpConnection.setRequestProperty("CONTENT_LENGTH", Long.toString(
        f.length()));

    httpConnection.connect();

    FileInputStream fis = new FileInputStream(f);
    BufferedOutputStream bos = new BufferedOutputStream(httpConnection
        .getOutputStream());
    int count;
    final int BUFFER_SIZE = 2048;
    byte data[] = new byte[BUFFER_SIZE];
    int total = 0;
    while ((count = fis.read(data, 0, BUFFER_SIZE)) != -1)
    {
        bos.write(data, 0, count);
        total += count;
    }
    bos.flush();
    bos.close();
    fis.close();

    // Get the result code
    int responseCode = httpConnection.getResponseCode();

    if (responseCode != HttpURLConnection.HTTP_OK)
    {
        throw new Exception("HTTP " + responseCode + " "
            + httpConnection.getResponseMessage());
    }
}
finally
{
    if (httpConnection != null)
    {
        httpConnection.disconnect();
    }
}

```

```

    }
}

private static void downloadDocument() throws Exception
{
    String documentId = null;
    String contextName = null;

    //To load an unzipped document
    //String action = "DOWNLOADZIPPED";

    //To load an unzipped document
    String action = "DOWNLOADUNZIPPED";

    System.out.println("Retrieve the previously created project");

    WorkElementScope wbsscope = new WorkElementScope();
    DocumentScope documentScope = new DocumentScope();
    documentScope.setChildren(documentScope);
    wbsscope.setDocumentFolder(documentScope);

    String xpath = "/Project[name = '" + projectName + "']";

    LoadResult result = applicationInterface.loadFromXpath(sessionID,
        xpath, wbsscope);

    checkTaskSucessfull(result);

    RPMObject[] objects = result.getRpmObjectList();

    Project loadedProject = (Project) objects[0];
    DocumentFolder rootDocumentFolder = loadedProject.getDocumentFolder();
    Document doc = (Document) rootDocumentFolder.getChildren()[0];

    System.out.println("Download the document using DocumentTransfer");

    //Document id is needed to upload the document
    documentId = doc.getID();

    //retrieve contextName from the document
    contextName = doc.getContextName();

    URL url = new URL(documentTransferUrl);

    HttpURLConnection httpConnection = null;
    try
    {
        httpConnection = (HttpURLConnection) url.openConnection();
        // Enable the use of the http output stream to send the file
        httpConnection.setDoOutput(true);
        httpConnection.setDoInput(true);
        httpConnection.setUseCaches(false);
        httpConnection.setRequestMethod("POST");
        httpConnection.setRequestProperty("ACTION", action);
        httpConnection.setRequestProperty("SESSION_ID", sessionID);
        httpConnection.setRequestProperty("DOCUMENT_ID", documentId);
        httpConnection.setRequestProperty("CONTEXT_NAME", contextName);

        httpConnection.connect();

        int responseCode = httpConnection.getResponseCode();
        if (responseCode != HttpURLConnection.HTTP_OK)
        {
            throw new Exception("HTTP " + responseCode + " "
                + httpConnection.getResponseMessage());
        }
    }
}

```

```

        String contentDisposition = httpConnection
            .getHeaderField("Content-Disposition");
        String contentType = httpConnection.getContentType();
        System.out.println("contentType: " + contentType);

        String delimiter = "filename=\"";
        String filename = contentDisposition.substring(delimiter.length()
            + contentDisposition.indexOf(delimiter), contentDisposition
            .lastIndexOf("\""));

        BufferedInputStream bis = new BufferedInputStream(httpConnection
            .getInputStream());

        //File will be saved on disk
        File f = new File(documentDownloadPath + filename);

        BufferedOutputStream bos = new BufferedOutputStream(
            new FileOutputStream(f));

        int count;
        final int BUFFER_SIZE = 2048;
        byte data[] = new byte[BUFFER_SIZE];
        while ((count = bis.read(data, 0, BUFFER_SIZE)) != -1)
        {
            bos.write(data, 0, count);
        }
        bos.flush();
        bos.close();
        bis.close();
    }
    finally
    {
        if (httpConnection != null)
        {
            httpConnection.disconnect();
        }
    }
}

private static void checkTaskSucessfull(Result result)
{
    if (result.isSuccessful())
    {
        System.out.println("Task sucessfull!");
    }
    else
    {
        if (result.getErrors() != null)
        {
            RPMSException[] exceptions = result.getErrors();
            for (int i = 0; i < exceptions.length; i++)
            {
                System.out.println(exceptions[i].getRpmMessage());
            }
        }
    }
}
}
}

```

Error Handling

The RPM Web Services API provides an error handling mechanism that allows client applications to recover from abnormal behavior. In the case that an RPM API call fails, it will either throw an exception of type **RPMException** or will embed a list of **RPMExceptions** in a **Result**, a **SingleResult**, or an **ArrayResult** object.. The **RPMException** carries the **RPMObject** ID (if the object has already been created), an RPM error code, an error, a severity level, an error message text, and the class name that is concerned. Refer to Chapter 6 for more details on these objects.

Performance Recommendations

This section contains recommendations and tips on how to improve the performance of programs that use the RPM Web Services.

1. Ensure that the server operating the RPM Web Services is at near proximity of the RPM Database Server.
2. When calling the load and save methods, the scope should be restricted to necessary relationships.
3. When loading objects using XPath, queries can generate large result sets, therefore, it is not recommended to load more than 100 objects per request. Hence, the recommendation to use XPath conditions as it reduces the load of information.
4. Save multiple objects per call.
5. Before calling the save methods, remove any unused relationships between the objects which are being saved by setting their values to null.
6. The number of objects that can be loaded or saved per call is restricted by the server's Random Access Memory (RAM), therefore, it is not recommended to save more than 100 objects per call.

Security

The RPM Web Services Server assumes that all users who connect to the server have full access rights.

Microsoft Web Services library version 1.1

The Microsoft Web Services library version 1.1 contains the following restrictions which may affect the behavior of the API:

- Null Dates are not allowed. As a work around for this restriction, dates that contain the value 0000/01/01 are handled as null dates by the RPM Web Services.
- Null Enumeration values are not allowed. Therefore, client programs using Microsoft Web Services library version 1.1 will automatically assign a default value to each field that contains an enumerated type. Those default values override the default values described in this API guide.
- For elements with basic types, fields such as integers and booleans will be initialized by .NET which will overwrite the default values stated in this API guide. Integer values will be set to 0 and boolean values will be set to false.

Chapter 6. RPM Web Services API – Objects

The objective of this section is to describe all the objects defined in the RPM Web Services API.

The objects in this chapter are organized per category according to the organization of the Web Services API. For each category all objects are listed and contain the following information:

- Package name
- The object each object extends
- Usage
- Supported API calls
- Security restrictions (Not available with this release)
- Field descriptions
- Inherited fields
- Related objects

In addition, at the end of each category, a section is dedicated to the illustration of relationships between objects in the form of diagrams. Code samples are also provided at the end of the chapter.

Application Administration

This section describes the objects available in the Application Administration category of the Web Services API.

ActionRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

ActionRTF is used to represent the action datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPM Object

From Datafield

From DatafieldRTF

Related Objects

- Action

ActionState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldSate

Usage

ActionState represents an action datafield state, it is used to manage the following list of Action states that are displayed and used:

- Scope Management View/Workflow Collaboration Band
- Action Description/Identification Portlet
- OLAP Pivots
- Reports
- Dashboard

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

From `DatafieldState`

Related Objects

- `Action`

AdministrationModule

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `AbstractModule`

Usage

This module class is used to load all relevant containers related to `ApplicationAdministration`.

Supported API Calls

- `save`
- `loadFromXpath`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 5. AdministrationModule Field Description

Field	Detail
currencies	Type: <code>Currency[]</code>
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 5. AdministrationModule Field Description (continued)

Field	Detail
datafieldCategories	Type: DatafieldCategory[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
geographicals	Type: Geographical[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
organizationals	Type: Organizational[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
rpmCalendars	Type: RPMCalendar[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ArchivedProject (Not available with this release) Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

ArchivedProject is used to represent archived projects.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 6. ArchivedProject Field Description

Field	Detail
archivedDate	Type: dateTime
	Default value: Current date
	Description: The date the project is archived.
	Field validation description: N/A
projectManager	Additional field security restrictions: N/A
	Type: string
	Default value: N/A
	Description: The Project Manager of the project.
user	Field validation description: N/A
	Additional field security restrictions: N/A
	Type: string
	Default value: N/A
	Description: The username of the resource that has archived the project.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

AssetCategory

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

AssetCategory is used to represent the category of an asset, which is used to categorize attributes into meaningful groups, such as Infrastructure or Application.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- AssetClassification
- AssetAttribute
- AttributeCategory
- AttributeScope

AssetFinancialCategory

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

AssetFinancialCategory is used to represent financial categories of assets, also known as asset codes.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath.

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

Related Objects

- AbstractScope
- Defect
- ChangeRequest
- ServiceRequest
- Issue

AssetRevisionImpact

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

AssetRevisionImpact is used to represents the revision impact of an asset.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

AssetRevisionType Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

AssetRevisionType is used to represent the type of an asset.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

AssetRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

AssetRTF is used to represent an asset datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Asset

AssetState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extend: DatafieldState

Usage

AssetState represents an asset datafield state, it is used to manage the state of any given asset.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- Asset

AssignmentStatus

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

AssignmentStatus represents an assignment status.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Datafield
- StaffAcquisition

Attribute

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: GenericAttribute

Usage

An attribute is defined as a characteristic related to an element which defines and categorizes it. Attributes can be defined for projects, deliverables, tasks, documents, scope elements, and so on.

Attribute is used to create attributes for WorkElement, ClientCostCenter, Asset, Pool, and GenericDocument items. Attributes are assigned to these items using AttributeAssignment.

Parent is mandatory, allowed parent type is AttributeClassification.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 7. Attribute Field Description

Field	Detail
inputType	Type: InputType Default value: N/A Description: Input type of the attribute. Queries based on this field are not supported by the XPath framework. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **GenericAttribute**

Related Objects

- **AttributeCategory**
- **AttributeClassification**
- **AttributeScope**
- **AttributeAssignment**
- **WorkElement**
- **ClientCostCenter**
- **Asset**
- **Pool**
- **GenericDocument**

AttributeAssignment Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

AttributeAssignment is used to represent an assigned attribute.

Parent is mandatory, allowed parent types are Asset, ClientCostCenter, GenericDocument, Pool, AbstractAggregateScope, AbstractScopeTask, WorkElement, or Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 8. AttributeAssignment Field Description

Field	Detail
attribute	Type: Attribute Default value: N/A Description: The assigned attribute. Field validation description: This field is mandatory. Additional field security restrictions: N/A
value	Type: object Default value: N/A Description: The value of the attribute. Field validation description: If inputType is <i>Numeric</i> , <i>Risktolerance</i> , or <i>Riskappetite</i> , the value range of this field is 0 to 9,999,999,999,999,99. If the value of inputType is <i>None</i> , the field value must be <i>null</i> . If the value of inputType is <i>Date</i> , the field value must be a Date instance or a String in the valid date Format. If the value of inputType is <i>Text</i> , the field is limited to 255 characters. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

AttributeCategory

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: GenericAttribute

Usage

The construct for Attributes is hierarchical (3 levels) which consists of a Category first level, and an Attribute Multi-select or Single Select. AttributeClassification represents the second level attribute classification.

Parent is mandatory, allowed parent types are AttributeCategory, AssetModule, ClientModule, DocumentModule, PoolModule, ScopeManagementModule, and WbsModule.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 9. AttributeCategory Field Description

Field	Detail
categories	Type: AttributeCategory[]
	Default value: N/A
	Description: Children attribute categories
	Field validation description: N/A
	Additional field security restrictions: N/A
classifications	Type: AttributeClassifications[]
	Default value: N/A
	Description: Children attribute classifications
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericAttribute`

Related Objects

- `AttributeScope`

AttributeClassification

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `GenericAttribute`

Usage

The construct for Attributes is hierarchical (3 levels) which consists of Category, Classification, and Attribute (Multi-select or Single Select). `AttributeClassification` represents the second level.

`AttributeClassification` is used to represent attribute classifications.

Parent is mandatory, allowed parent type is `AttributeCategory`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 10. AttributeClassification Field Description

Field	Detail
selectType	Type: SelectType Default value: "Single" Description: Select type of attribute classification. Queries based on this field are not supported by the XPath framework. Field validation description: N/A Additional field security restrictions: N/A
attributes	Type: Attribute[] Default value: N/A Description: The children attributes. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericAttribute

Related Objects

- Attribute
- AttributeCategory
- AttributeScope

BenefitDatafield1

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

BenefitDatafield1 represents a benefit datafield, it is used to create a custom drop-down list box that is displayed and used, such as Project/Proposal Description View/Financials Portlet/Benefit Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Datafield

BenefitDatafield2

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

BenefitDatafield2 represents a benefit datafield, it is used to create a custom drop-down list box that is displayed and used such as, Project/Proposal Description, View/Financials Portlet/Benefit, and Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

BenefitDatafieldLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

BenefitDatafieldLabelText represents benefit datafield label text, it is used to name the Benefit custom drop-down list boxes.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

BenefitLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

BenefitLabelText represents benefit label text, it is used to create a custom drop-down list box that are displayed and used for Project/Proposal Description, View/Financials, Portlet/Benefits, and Tab/Description Band. There is a maximum of 10 text fields.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

CalendarDay

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

CalendarDay is an abstract class used to represents the working time of a day.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 11. CalendarDay Field Description

Field	Detail
type	Type: CalendarWeekDayType Default value: N/A Description: Type of day Field validation description: N/A Additional field security restrictions: N/A
intervals	Type: WorkInterval[] Default value: N/A Description: Intervals of working time in a day. A maximum of 5 intervals can be added. Field validation description: : A maximum of 5 intervals can be added. The to field must be smaller than the from field of a consecutive WorkInterval . Additional field security restrictions: N/A
minutes	Type: int Default value: N/A Description: Number of working minutes in a day Field validation description: This field is read-only. It is calculated automatically from the intervals. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- CalendarScope
- RPMCalendar

- WorkInterval
- CalendarWeekday
- CalendarException

CalendarException

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: CalendarDay

Usage

CalendarException represents the working time of a calendar exception.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 12. CalendarException Field Description

Field	Detail
day	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: Date for which this schedule applies.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From CalendarDay

Related Objects

- CalendarScope
- RPMCalendar
- WorkInterval

CalendarWeekDay

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: CalendarDay

Usage

CalendarWeekDay represents the default working time for a specific day of the week.

Parent is mandatory, allowed parent type is **RPMCalendar**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **CalendarDay**

Related Objects

- CalendarScope
- RPMCalendar
- WorkInterval

CapitalDatafield1

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CapitalDatafield1 represents a capital datafield, it is used to create a custom drop-down list box which is displayed and used for View/Financials, Portlet/Capital, and Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath.

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

CapitalDatafield2

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CapitalDatafield1 represents a capital datafield, it is used to create a custom drop-down list box which is displayed and used for View/Financials, Portlet/Capital, and Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath.

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

CapitalDatafieldLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CapitalDatafieldLabelText represents capital datafield label text, it is used to name the Capital custom drop-down list boxes.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

CapitalLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CapitalLabelText represents capital label text, it is used to create custom drop-down list boxes to display and use Project/Proposal, Description View/Financials, Portlet/Capital, and Tab/Description Band.

There is a maximum of 10 fields.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ChangeRequestRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

ChangeRequestRTF is used to represents a change request datafield. A change request is a request to change some aspect of the project, project plan, activity definition, or a document.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- ChangeRequest

ChangeRequestState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

ChangeRequestState represents a change request datafield state, it is used to manage the list of change request states, such as Scope Management View/Workflow Collaboration Band, Change Request Description/Identification

Portlet, OLAP Pivots, Reports, Dashboard. A change request is a request to change some aspect of the project, project plan, activity definition, or a document.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldState**

Related Objects

- ChangeRequest

ChargeCodeStage

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

ChargeCodeStage is used to define the Charge Code Stage. There are 20 fields allocated for Charge Code Stage.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- LoadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

From `DatafieldState`

Related Objects

- `ChargeCode`

ChargeType

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `Datafield`

Usage

`ChargeType` represents a charge type datafield, it is used to manage the cross charge units description such as hours, megabytes, or connections in the Cross Charge portlet for Assets.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

Related Objects

- `CrossChargeFinancials`

CitizenshipCountryCode

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `Datafield`

Usage

`CitizenshipCountryCode` represents a citizenship/country code datafield, it is used to represent a resource's location preferences for travel and relocation, as well as the country indicated in a resource's visa.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

Related Objects

- `LocationPreferences`
- `Visa`

City

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Geographical

Usage

City represents the geographical city that is defined for a Resource. The geographical sub types that can be defined are Region, Country, CountryState, City, and Location.

Parent is mandatory, allowed parent types are Country, Region, CountryState, and City.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Geographical

Related Objects

- GeographicalScope
- Region
- Country
- CountryState
- Location

Classification

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Classification represents a classification datafield, it is used to manage the classification list in a resource's industry experience and project history.

The following are displayed and used Resource Description, View/Project History Portlet, and Creation Dialog

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

Related Objects

- IndustryExperience
- ProjectHistory

ClientRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

ClientRTF is used to represent the client description datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

N/A

CommonScopeRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

CommonScopeRTF is used to represent a common scope element RTF caption.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- DatafieldRTF

CommonWbsRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

CommonWbsRTF is used to represent a common Wbs RTF caption.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- DatafieldRTF

CompanyNameCode

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CompanyNameCode represents a company name code datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

CompanySize

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

CompanySize represents a company size datafield, it is used to manage the Company Size entries.

The following is displayed and used Resource Management, Pool Description, and References Portlet.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Reference

ContactGroup

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

ContactGroup objects are created to eventually assign membership to resources. For example, teams that typically cross the boundaries of single projects, such as Change Control Management Board or a Portfolio Management group. They are used during collaboration workflows in the same way mailing distribution lists are used.

Parent is not mandatory, allowed parent type is ContactGroup.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 13. ContactGroup Field Description

Field	Detail
contactGroups	Type: ContactGroup[] Default value: N/A Description: List of contact group children. Field validation description: N/A Additional field security restrictions: N/A
name	Type: string Default value: N/A Description: The name of the contact group Field validation description: Limit 50 characters Additional field security restrictions: N/A
description	Type: string Default value: N/A Description: The description of the contact group. Field validation description: Limit 50 characters Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- ContactGroupScope

ContactGroupAssignment Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

This object represents a contact group assignment.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

Table 14. ContactGroupAssignment Field Description

Field	Detail
groups	Type: ContactGroup Default value: N/A Description: The contact group that the resource is assigned to. Field validation description: Not null Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ContractType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ContractType is used to represent and define the Contract Type, there are 20 fields allocated for it.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID

- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Contract

CostCenterStage

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

CostCenterStage represents and is used to define the Cost Center Stage, there are 20 fields allocated for it.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

From `DatafieldState`

Related Objects

- `ClientCostCenter`

Country

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `Geographical`

Usage

Country represents the country that is defined for a Resource. Country sub types that can be defined are `Region`, `CountryState`, `City`, and `Location`.

Parent is not mandatory, allowed parent type is `Region`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Geographical`

Related Objects

- `GeographicalScope`
- `Region`

- CountryState
- City
- Location

CountryState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Geographical

Usage

Represents a state or province, it can be defined for a Resource. Geographical sub types that can be defined are Region, Country, CountryState, City, and Location.

Parent is mandatory, allowed parent types are Country and Region.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Geographical

Related Objects

- GeographicalScope
- Region
- Country
- City
- Location

Currency

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

Represents currencies which can be assigned to resources and projects.

Currencies are a datafield type, therefore, they cannot be deleted.

Historical data of the exchange rate is kept at the exchangeRanges array level (refer to, CurrencyExchangeRange).

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 15. Currency Field Description

Field	Detail
name	Type: string Default value: N/A Description: The currency name. Field validation description: Limit to 50 characters. This field is mandatory. Additional field security restrictions: N/A
exchangeRate	Type: double Default value: N/A Description: The current exchange rate of this currency. Field validation description: The value range is 0 to 9,999,999,999,999,99. Additional field security restrictions: N/A

Table 15. Currency Field Description (continued)

Field	Detail
exchangeRanges	<p>Type: CurrencyExchangeRange[]</p> <p>Default value: N/A</p> <p>Description: The array of currency exchange ranges. It represents the historical information of the currency.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

- CurrencyScope
- CurrencyExchangeRange

CurrencyExchangeRange Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

Represents a time interval in which an exchange range is applied for a currency. When creating or updating an instance of **CurrencyExchangeRange**, only the **rates** and the **startDate** should be set because **finishDate** is calculated automatically.

Parent is mandatory, allowed parent type is **Currency**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 16. CurrencyExchangeRange Field Description

Field	Detail
exchangeRate	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The exchange rate applied for this time interval.</p> <p>Field validation description: Value range is 0 to 9,999,999,999,999,99.</p> <p>Additional field security restrictions: N/A</p>
startDate	<p>Type: dateTime</p> <p>Default value: The first day of the current month.</p> <p>Description: The start date of the interval.</p> <p>Field validation description: Must be larger than all existing start dates for the currency.</p> <p>Additional field security restrictions: N/A</p>
finishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The finish date of the interval.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- CurrencyScope
- Currency

CustomDatafield Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **GenericDatafield**

From **Datafield**

Related Objects

- DatafieldRTF
- Action

CustomDatafieldCategory

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldCategory

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericDatafield`

From `DatafieldCategory`

Related Objects

N/A

Datafield

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: `RPMObject`

Usage

Datafield is used to represent various datafields, they define and customize the various drop-down lists used in IBM Rational Portfolio Manager. Lists include those relevant to Workflow, Scope Elements, Resource Management, Staff Acquisition, and so on. These lists are used in various areas of the system.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 17. Datafield Field Description

Field	Detail
value	Type: string
	Default value: N/A
	Description: The value of the datafield.
	Field validation description: Limit 50 characters
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericDatafield`

Related Objects

- `RPMObject`

DatafieldCategory

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `GenericDatafield`

Usage

N/A

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 18. DatafieldCategory Field Description

Field	Detail
children	Type: <code>Datafield[]</code>
	Default value: <code>Datafield[]</code>
	Description: <code>Datafield[]</code>
	Field validation description: <code>Datafield[]</code>
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From GenericDatafield

Related Objects

N/A

DatafieldRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

DatafieldRTF is used as the base class for all rtf datafields.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 19. DatafieldRTF Field Description

Field	Detail
appendOnly	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Indicates whether the content of the RTF portlet is limited to being appended or if it can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
closedState	<p>Type: DatafieldState</p> <p>Default value: N/A</p> <p>Description: Indicates if the state is at a closed state.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

Related Objects

N/A

DatafieldState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: `Datafield`

Usage

`DatafieldState` is used as the base class for all datafield states.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 20. DatafieldState Field Description

Field	Detail
<code>closedState</code>	Type: boolean Default value: N/A Description: Indicates if the state is at a closed state. Field validation description: N/A Additional field security restrictions: N/A

Table 20. DatafieldState Field Description (continued)

Field	Detail
proposal	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Defines if the state should be assigned to a proposal.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Datafield
- DatafieldRTF
- WorkElement

DefectRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

DefectRTF is used to represent the defect description datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldRTF**

Related Objects

- Defect

DefectState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

DefectState represents a defect datafield state, it is used to manage the list of defect states.

The following are displayed and used Scope Management View/Workflow Collaboration Band, Defects Description/Identification Portlet, OLAP Pivots, Reports, and Dashboard.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldState**

Related Objects

- Defect

DeliverableRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

Represents a deliverable description datafield. A deliverable is a physical output or input, or a procedural outcome that represents the completion of some part of the project which is delivered to the customer or project sponsor. DeliverableRTF is used to represent the deliverable description datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Deliverable

DeliverableState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

DeliverableState represents a deliverable datafield state which is used to manage the list of deliverable states. A deliverable is a physical output or input, or procedural outcome that represents the completion of some part of the project and is delivered to the customer or project sponsor.

The deliverables displayed and used are WBS Workflow and Collaboration Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Deliverable

Department

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Geographical

Usage

Represents a department which can be defined for a Resource. Organizational sub types that can be defined are Organization, Department, Group and Office.

Parent is mandatory, allowed parent types are Organization, Department and Group.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Organizational

Related Objects

- Organizational
- Organization
- OrganizationalScope
- Group
- Office

DocumentRevisionType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the type of revision to which a document is submitted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

DocumentState Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

DocumentState represents a document datafield state and it is used to manage the list of document states. A document is an attachment such as a text file, a spreadsheet, graphics, videos, a URL, or other that can be appended to an element in the Work Breakdown Structure (WBS), a resource record, an exception, or a requirement. It is displayed and used with Documents View/Version Band and Documents Description/Details.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- AbstractDocument

EmployeeStatus

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

EmployeeStatus represents and is used to manage the list of resource's employee status. It is displayed and used with Resource Description View/Employee Information Portlet, Staffing View/Name Band, and OLAP Pivots.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Resource

ExpenseCapitalCommonBenefitDatafieldLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseCapitalCommonBenefitDatafieldLabelText represents expense, capital, and benefit datafield label text,. it is used to name the Expense/Capital Common custom drop-down list boxes.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ExpenseCapitalCommonBenefitDatafield1 Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseCapitalCommonBenefitDatafield1 represents an expense, capital, and benefit datafield, it is used to create a custom drop-down list box for Project/Proposal Description, View/Financials, Portlet/Expense Tab, and Capital Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ExpenseCapitalCommonBenefitDatafield2 Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

The ExpenseCapitalCommonBenefitDatafield2 represents an expense, capital, and benefit datafield, it is used to create a custom drop-down list box for Project/Proposal Description, View/Financials, Portlet/Expense Tab, and Capital Tab/Description Band.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ExpenseDatafield1

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseDatafield1 represents an expense datafield, it is used to create a custom drop-down list box for Project/Proposal Description, View/Financials, Portlet/Expense, and Tab/Description Band

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ExpenseDatafield2

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseDatafield2 represents an expense datafield, it is used to create a custom drop-down list box for Project/Proposal Description, View/Financials, Portlet/Expense and Tab/Description Band.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ExpenseDatafieldLabelText

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseDatafieldLabelText represents expense datafield label text, it is used to name the Expense custom drop-down list boxes.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

Related Objects

N/A

ExpenseLabelText Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ExpenseLabelText represents expense label text, it is used to create a custom drop-down list box for Project/Proposal Description, View/Financials, Portlet/Expense, and Tab/Description Band.

There are a maximum of 10 text fields.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DatafieldState

Related Objects

N/A

Experience

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Experience represents an experience datafield, it is used to manage the list of Experience options for a resource record for Resource Description View/Employee Information Portlet and Staffing View/Project Resource/Skill Pivot.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Resource
- ResourceAttributeAssignment

GenericAttribute Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

GenericAttribute is used to represent a base class for all attributes, a parent cannot be specified

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 21. GenericAttribute Field Description

Field	Detail
name	Type: string
	Default value: N/A
	Description: Name of attribute.
	Field validation description: Between 1 and 255 characters.
description	Additional field security restrictions: N/A
	Type: string
	Default value: N/A
	Description: The description of the attribute
	Field validation description: Limit 255 characters.
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- [AttributeScope](#)
- [Attribute](#)
- [AttributeClassification](#)
- [AttributeCategory](#)

GenericDatafield

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

N/A

Supported API Calls

- [save](#)
- [loadArrayFromID](#)
- [loadFromID](#)
- [loadFromXpath](#)

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 22. GenericDatafield Field Description

Field	Detail
name	Type: string
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Geographical

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

A Geographical represents a geographical position which can be defined for a Resource. Geographical sub types that can be defined are Region, Country, CountryState, City, and Location.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 23. Geographical Field Description

Field	Detail
name	Type: string
	Default value: N/A
	Description: Name of the geographical.
	Field validation description: Limit 50 characters
description	Additional field security restrictions: N/A
	Type: string
	Default value: N/A
	Description: Description of the geographical.
locations	Field validation description: Limit 50 characters
	Additional field security restrictions: N/A
	Type: Location[]
	Default value: N/A
	Description: List of geographical locations.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- GeographicalScope
- Region
- Country
- CountryState
- City
- Location

GeographicalAssignment Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

This object represents the assignment of a geographical position to a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 24. GeographicalAssignment Field Description

Field	Detail
geographical	Type: Geographical Default value: N/A Description: The geographical location where the resource is assigned. Field validation description: This field is mandatory. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

- Resource

Group

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Organizational

Usage

Group represents a group which can be defined for a Resource. Organizational sub types that can be defined are Organization, Department, Group, and Office.

Parent is mandatory, allowed parent types are Organization, Department, and Group.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Organizational**

Related Objects

- Organization
- OrganizationalScope
- Office

IndustryType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

IndustryType represents an industry type datafield, it is used to manage the Industry Type List in the project history for resources.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

IssueRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

IssueRTF is used to represents an issue description datafield. An issue identifies and quantifies any potential problem in a project, and is submitted for the consideration of others.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Issue

IssueState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

IssueState represents an issue datafield it is used to manage the list of issue states, such as Scope Management View/Workflow Collaboration Band, Issue Description/Identification Portlet, OLAP Pivots, Reports, and Dashboard. An issue identifies and quantifies any potential problem in a project, and is submitted for the consideration of others.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- Issue

Language

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Language represents a language datafield, it is used to manage the list of languages for resource records for Resource Description View/Language Proficiency Portlet and creation dialog.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- LanguageProficiency

Location

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Geographical

Usage

Represents a Geographical location which can be defined for a Resource. Geographical sub types that can be defined are Region, Country, CountryState, City, and Location.

Parent is mandatory, allowed parent types are Country, Region, CountryState, City, and Location.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Geographical

Related Objects

- RPMObject
- GeographicalScope
- Geographical
- Region
- Country
- CountryState
- City

MilestoneRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

MilestoneRTF is used to represent a milestone datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Milestone

NoteMinutesRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

NoteMinutesRTF is used to represent a note minutes datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldRTF**

Related Objects

- NoteMinutes

NoteState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

NoteState Represents a note datafield state, it is used to manage the list of note states for Documents View/Version Band and Notes/Minutes Description/Details Portlet.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `Datafield`

From `DatafieldState`

Related Objects

- `NoteMinutes`

Office

Description

Package: `com.ibm.rpm.applicationadministration.containers`

Extends: `Organizational`

Usage

`Office` represents an `Organizational` office which can be defined for a `Resource`. `Organizational` sub types that can be defined are `Organization`, `Department`, `Group` and `Office`.

Parent is mandatory, allowed parent types are `Organization`, `Department`, `Group`, and `Office`.

Supported API Calls

- `save`
- `loadFromArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From **Organizational**

Related Objects

- Organization
- Organizational
- OrganizationalScope
- Department
- Group

Organization

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Organizational

Usage

Organization represents an Organizational organization which can be defined for a Resource. Organizational sub types that can be defined are Organization, Department, Group and Office.

Parent is not mandatory, allowed parent type is Organization.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Organizational**

Related Objects

- OrganizationalScope
- Office

Organizational

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

Organizational represents an Organizational which can be defined for a Resource. Organizational sub types that can be defined are Organization, Department, Group and Office.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 25. Organizational Field Description

Field	Detail
name	Type: string Default value: N/A Description: The name of the organizational. Field validation description: Limit 50 characters. Additional field security restrictions: N/A
description	Type: string Default value: N/A Description: The description of the organizational. Field validation description: Limit 50 characters Additional field security restrictions: N/A

Table 25. Organizational Field Description (continued)

Field	Detail
children	<p>Type: Organizational[]</p> <p>Default value: N/A</p> <p>Description: The list of organizational children</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- OrganizationalScope
- Organization
- Department
- Group
- Office

OrganizationalAssignment Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

This Object represents an organizational assignment of a resource to a project.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

Table 26. OrganizationalAssignment Field Description

Field	Detail
organizational	Type: Organizational Default value: N/A Description: The organizational where the resource is assigned. Field validation description: Not null Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

OrganizationType Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

OrganizationType represents an organization type datafield. It is used to manage the “Organization type” list in the “General” datafields.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

PaymentType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

PaymentType represents a payment type datafield which is used to manage the list of payment types for Expenses/Invoices, Expenses View/Invoice Band, and Expenses View/Invoice Creation Dialog.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

PoolDomain

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

PoolDomain represents a pool domain which is used to group and categorize resource pools.

Parent is not mandatory, allowed parent type is PoolDomain.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 27. PoolDomain Field Description

Field	Detail
name	Type: string Default value: N/A Description: The name of the pool domain. Field validation description: Limit 50 characters Additional field security restrictions: N/A
poolDomains	Type: PoolDomain[] Default value: N/A Description: List of pool domain children. Field validation description: N/A Additional field security restrictions: N/A

Table 27. PoolDomain Field Description (continued)

Field	Detail
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the pool domain.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Pool
- PoolDomainScope

PreferenceRank

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

PreferenceRank represents a classification datafield, it is used to manage the list of preference options for skills and competencies for Resource Resource Record Description View/Competencies and Skills Portlets and Staffing View/Project Resources/Skill Pivot.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- ResourceAttributeAssignment

ProficiencyLevel

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ProficiencyLevel represents a proficiency level datafield which is used to manage the list of the organization proficiency levels for Application Administration Resource Attributes/Proficiency creation dialog for a competency or skill, Resource Record Description/Competencies and Skills Portlets, Staffing View/Search Criteria, Staffing View/Project Resources/Skill Pivot, and OLAP Pivots.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- IndustryExperience
- ResourceAttributeCompetencyProficiencyLevel

- ResourceAttributeSkillProficiencyLevel

ProjectRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

ProjectRTF is used to represent the project description datafield. A risk is defined as any temporary endeavor or initiative created and managed in order to achieve an organization's objectives.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Project

Region

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Geographical

Usage

Represents a Geographical region which can be defined for a Resource. The Geographical sub types that can be defined are Region, Country, CountryState, City, and Location.

Parent is not mandatory, allowed parent types are Country and Region.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Geographical

Related Objects

- GeographicalScope
- Geographical

RequirementRevisionType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the type of revision to which a requirement is submitted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- LoadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

RequirementRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

RequirementRTF is used to represent the requirement datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObjects

From Datafield

From DatafieldRTF

Related Objects

- Requirement

RequirementState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

RequirementState represents a requirement datafield state, it is used to manage the list of requirements states for Scope Management View/Workflow Collaboration Band, Requirements Description/Identification Portlet, OLAP Pivots, Reports, and Dashboard

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Requirement

ResourceCustomFields

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

ResourceCustomFields represents a custom employee information field for Resource, it is used to specify the name of a custom employee information field for Resource.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ResourceRevisionType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the type of revision to which a resource is submitted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Datafield
- GeneralDatafield

RevisionImpact

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the impact of a revision on the project.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

RiskRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

RiskRTF represents a risk description datafield, it is used to represent the risk description datafield. A risk is defined as the chances of of an uncertain occurrence and the cumulative impact that will adversely affect project objectives.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- Risk

RiskState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

RiskState represents a risk datafield state which is used to manage the list of risk states, such as Scope Management View/Workflow Collaboration Band, Risk Description/Identification Portlet, OLAP Pivots, Reports, Related Objects, and DatafieldState. A risk is defined as the chances of an uncertain occurrence and the cumulative impact that will adversely affect project objectives.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- Risk

RPMCalendar

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

RPMCalendar represents a calendar, it determine the standard working time and non-working time, such as weekends and holidays, or special working shifts for a project or a resource.

Parent is not mandatory, allowed parent type is **RPMCalendar**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 28. RPMCalendar Field Description

Field	Detail
calendars	Type: RPMCalendar[]
	Default value: N/A
	Description: List of RPMCalendar children
	Field validation description: N/A
	Additional field security restrictions: N/A
exceptions	Type: CalendarException[]
	Default value: N/A
	Description: List of dates for which the working time does not follow the default schedule.
	Field validation description: N/A
	Additional field security restrictions: N/A
startDate	Type: dateTime
	Default value: Event date and time
	Description: Start date
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 28. RPMCalendar Field Description (continued)

Field	Detail
hoursPerDay	<p>Type: int</p> <p>Default value: The parent calendar's hour per day.</p> <p>Description: The average number of hours per day.</p> <p>Field validation description: The value range is 0 to 24.</p> <p>Additional field security restrictions: N/A</p>
hoursPerWeek	<p>Type: int</p> <p>Default value: The parent calendar's hours per week.</p> <p>Description: The average number of hours per week.</p> <p>Field validation description: The value range is 0 to 168.</p> <p>Additional field security restrictions: N/A</p>
standardMonday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Monday.</p> <p>Description: Monday standard working time.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
standardMondayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Monday.</p> <p>Description: Standard Monday number of minutes.</p> <p>Field validation description: This field is calculated automatically from standard Monday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardTuesday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Tuesday.</p> <p>Description: Tuesday standard working time.</p> <p>Field validation description: Tuesday standard working time.</p> <p>Additional field security restrictions: N/A</p>

Table 28. RPMCalendar Field Description (continued)

Field	Detail
standardTuesdayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Tuesday.</p> <p>Description: Tuesday standard number of minutes.</p> <p>Field validation description: This field is calculated automatically from standard Tuesday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardWednesday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Wednesday.</p> <p>Description: Wednesday standard working time.</p> <p>Field validation description: Wednesday's standard working time.</p> <p>Additional field security restrictions: N/A</p>
standardWednesdayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Wednesday.</p> <p>Description: Wednesday standard number of minutes. This field is read-only.</p> <p>Field validation description: This field is calculated automatically from standard Wednesday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardThursday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Thursday.</p> <p>Description: Thursday standard working time.</p> <p>Field validation description: Thursday's standard working time.</p> <p>Additional field security restrictions: N/A</p>

Table 28. RPMCalendar Field Description (continued)

Field	Detail
standardThursdayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Thursday.</p> <p>Description: Thursday standard number of minutes.</p> <p>Field validation description: This field is calculated automatically from standard Thursday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardFriday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Friday.</p> <p>Description: Friday standard working time.</p> <p>Field validation description: Friday's standard working time.</p> <p>Additional field security restrictions: N/A</p>
standardFridayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Friday.</p> <p>Description: Friday standard number of minutes.</p> <p>Field validation description: This field is calculated automatically from standard Friday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardSaturday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Saturday.</p> <p>Description: Saturday standard working time.</p> <p>Field validation description: Saturday's standard working time.</p> <p>Additional field security restrictions: N/A</p>

Table 28. RPMCalendar Field Description (continued)

Field	Detail
standardSaturdayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Saturday.</p> <p>Description: Saturday standard number of minutes.</p> <p>Field validation description: This field is calculated automatically from standard Saturday's interval. This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
standardSunday	<p>Type: CalendarWeekDay</p> <p>Default value: The parent calendar's standard Sunday.</p> <p>Description: Sunday standard working time.</p> <p>Field validation description: Sunday's standard working time.</p> <p>Additional field security restrictions: N/A</p>
standardSundayMinutes	<p>Type: int</p> <p>Default value: The parent calendar's standard Sunday.</p> <p>Description: Sunday standard number of minutes.</p> <p>Field validation description: Read-only. This field is calculated automatically from standard Sunday's interval.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- RPMObject

RtfAssignment Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMObject

Usage

Represents the assignment of custom fields in the application administration module, it is used to assign a custom name to a specific RTF datafield.

Parent is mandatory, allowed parent types are Action, Asset, ChangeRequest, ClientCostCenter, Deliverable, Defect, Issue, Milestone, NoteMinutes, Project, Requirement, Risk, ServiceRequest, SummaryTask, Task, and WorkProduct.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 29. RtfAssignment Field Description

Field	Detail
bitFlag	Type: int Default value: N/A Description: The number of the RTF datafield. Field validation description: N/A Additional field security restrictions: N/A
rtf	Type: DatafieldRTF Default value: N/A Description: The RTF datafield. Field validation description: N/A Additional field security restrictions: N/A
value	Type: string Default value: N/A Description: The value, or name, of the RTF datafield. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Asset
- ClientCostCenter
- NoteMinutes
- WorkElement

ScheduleImpact

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the impact on the schedule.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ScopeElementsRevisionType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the type of revision to which scope elements are submitted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ScorecardRevisionType Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Represents the type of revision to which a scorecard is submitted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

ScorecardState Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

Represents a scorecard datafield state. A scorecard is a pre-defined form or checklist of questions and responses that are weighted to provide "scores" or ratings.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

N/A

ServiceRequestRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

ServiceRequestRTF represents a service request datafield. A service request is an IBM Rational Portfolio Manager element that allows for the managing and tracking of work requests.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- ServiceRequest

ServiceRequestState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

Represents a service request datafield state, it is used to manage the list of service requests state.

The following are displayed and used:

- Scope Management View/Workflow Collaboration Band
- Service Request Description/Identification Portlet
- OLAP Pivots
- Reports
- Dashboard Related Objects

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- ServiceRequest

State

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

State represents and manages the list of project/proposal states. State is a term used in IBM Rational Portfolio Manager to describe the current condition of a project element. The various element states are determined by the organization's process and reporting requirements.

The following are displayed and used:

- WBS Workflow Collaboration Band
- Project/Proposal Description View/Identification Portlet
- OLAP Pivots
- Reports
- Dashboard

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

N/A

SummaryTaskRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

SummaryTaskRTF is used to represents a summary task datafield. A summary task is a task that is comprised of a series of sub-tasks.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldRTF

Related Objects

- SummaryTask

TaskRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

TaskRTF is used to represent the task description datafield.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldRTF**

Related Objects

N/A

TaskState

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldState

Usage

TaskState represents a task datafield state, it is used to manage the list of task states.

The following are displayed and used:

- WBS Workflow Collaboration Band
- Task Description View/Identification Portlet

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

From DatafieldState

Related Objects

- Task

WbsRevisionType

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

N/A

WorkingStatus

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

WorkingStatusRe represents the working status of a resource, it is used to manage the list of employee working status. Working status is customized by the end-user.

The following are displayed and used:

- Resource Description View/Employee Information Portlet
- OLAP Pivots

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Resource

WorkInterval

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: RPMContainer

Usage

WorkInterval represents a period of time in a day.

Parent is mandatory, allowed parent type is CalendarWeekDay.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 30. WorkInterval Field Description

Field	Detail
from	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The starting time of the working interval.</p> <p>Field validation description: The from field must be less than the to field. The value must be in HH:MM format, between 00:15 to 23:45. MM is limited to 00, 15, 30, and 45.</p> <p>Additional field security restrictions: N/A</p>
to	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The ending time of the working interval.</p> <p>Field validation description: The from field must be less than the to field. The value must be in HH:MM format, between 00:30 to 24:00. MM is limited to 00, 15, 30, and 45.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMContainer

Related Objects

- CalendarWeekDay
- RPMCalendar

WorkLocation

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: Datafield

Usage

WorkLocation represents a physical work location, which indicates the location from which a resource works, it is used to manage the list of list of work locations for a resource record.

The following are displayed and used:

- Resource Record Description View/Employee Information Portlet
- Staffing View Search Create Input Criteria
- Staffing View/Result Set/Location Band

Parent is mandatory. Allowed parent type is CalendarWeekDay.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From Datafield

Related Objects

- Resource

WorkProductRTF

Description

Package: com.ibm.rpm.applicationadministration.containers

Extends: DatafieldRTF

Usage

WorkProductRTF is used to represents a work product datafield. Work products are physical output or procedural outcomes that represent the completion of some part of a project, contrary to deliverables, work products are typically internal to the organization.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **Datafield**

From **DatafieldRTF**

Related Objects

- WorkProduct

ErrorCodes

Description

Package: com.ibm.rpm.applicationadministration.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file `errorCode.properties` according to the integer error code provided.

Application administration errors are specific to the application administration section of the API.

Application administration error codes ranges: 401,001 - 402,000

- 401,001 - 401,299: validation codes
- 401,300 - 401,499: xpath codes

- 401,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following tables lists the fields for this object.

Table 31. Validation ErrorCodes

Field	Description
401001	Cannot assign multiple attributes deriving from the stated classification ID because the selectType field is set to 'Single'.

Table 32. Manager ErrorCodes

Field	Description
401500	The maximum number of currencies have been created. Cannot create a new currency.
401501	The work intervals specified are not valid.
401502	A work interval must be specified.
401503	Invalid interval(s). An odd number of times is specified.
401504	The type of the attribute is invalid.
401505	The attribute's root is not a valid type.

Inherited Fields

N/A

Related Objects

N/A

AdministrationModuleScope

Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to AdministrationModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 33. AdministrationModuleScope Field Description

Field	Detail
currencies	Type: CurrencyScope Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
datafieldCategories	Type: boolean Default value: N/A Description: This field is true if datafieldCategories should be loaded, and is false if it should not. Field validation description: N/A Additional field security restrictions: N/A
geographicals	Type: GeographicalScope Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
organizational	Type: OrganizationalScope Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
rpmCalendars	Type: CalendarScope Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

AttributeScope

Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope\

Usage

AttributeScope represents a scope to navigate objects related to **Attribute** (such as WBS, Scope, Pool, Client, Asset, Document). It is used to browse the Attribute, AttributeCategory, AttributeClassification object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 34. AttributeScope Field Description

Field	Detail
categories	Type: AttributeScope
	Default value: null
	Description: Child attribute category scope.
	Field validation description: N/A
classifications	Additional field security restrictions: N/A
	Type: AttributeScope
	Default value: null
	Description: Child attribute classification scope.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 34. AttributeScope Field Description (continued)

Field	Detail
attributes	Type: AttributeScope
	Default value: null
	Description: Child attribute scope.
	Field validation description: N/A
	Additional field security restrictions: N/A
parent	Type: AttributeScope
	Default value: null
	Description: Attribute parent scope.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Attribute
- AttributeCategory
- AttributeClassification

CalendarScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

CalendarScope is used to represents a scope to navigate objects related to RPMCalendar.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 35. CalendarScope Field Description

Field	Detail
parent	Type: CalendarScope Default value: null Description: RPMCalendar parent scope. Field validation description: N/A Additional field security restrictions: N/A
calendars	Type: CalendarScope Default value: null Description: RPMCalendar children scope. Field validation description: N/A Additional field security restrictions: N/A
exceptions	Type: boolean Default value: false Description: This field is <i>true</i> if exceptions should be loaded, and <i>false</i> if otherwise. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- RPMCalendar

ContactGroupScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

ContactGroupScope is used to represents a scope to navigate to objects related to ContactGroups.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 36. ContactGroupScope Field Description

Field	Detail
contactGroups	Type: ContactGroupScope Default value: null Description: List of ContactGroups children scope. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: ContactGroupScope Default value: null Description: ContactGroups parent scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- ContactGroups

CurrencyScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

CurrencyScope represents a scope to navigate to objects related to **Currency**. It is used to browse the Currency object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 37. *CurrencyScope Field Description*

Field	Detail
exchangeRanges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the exchangeRange of Currency objects in the scope should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- Currency

GeographicalScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

GeographicalScope represents a scope to navigate objects related to **Geographical**. It is used to browse the Geographical object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 38. GeographicalScope Field Description

Field	Detail
parent	Type: GeographicalScope
	Default value: null
	Description: The Geographical parent scope.
	Field validation description: N/A
children	Additional field security restrictions: N/A
	Type: GeographicalScope
	Default value: null
	Description: The children scope
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- RPMObjectScope
- Geographical

OrganizationalScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

OrganizationalScope represents a scope to navigate objects related to **Organizational**. It is used to browse the Organizational object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 39. OrganizationalScope Field Description

Field	Detail
parent	Type: OrganizationalScope
	Default value: null
	Description: Organizational parent scope
	Field validation description: N/A
	Additional field security restrictions: N/A
children	Type: OrganizationalScope
	Default value: null
	Description: The children scope
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Organizational
- Group
- Office

PoolDomainScope Description

Package: com.ibm.rpm.applicationadministration.scope

Extends: RPMObjectScope

Usage

PoolDomainScope represents a scope to navigate objects related to PoolDomain. it is used to browse PoolDomain object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 40. PoolDomainScope Field Description

Field	Detail
poolDomains	Type: PoolDomainScope
	Default value: N/A
	Description: PoolDomain children scope
	Field validation description: N/A
	Additional field security restrictions: N/A
parent	Type: PoolDomainScope
	Default value: N/A
	Description: PoolDomain parent scope
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- RPMObjectScope
- PoolDomain.

CalendarWeekDayType Description

Package: com.ibm.rpm.applicationadministration.types

Usage

CalendarWeekDayType represents the type of day in a calendar, it is an enumeration of available day type.

Fields

The following table lists the values for this object.

Table 41. CalendarWeekDayType Value Description

Value	Description
UseDefault	Indicates the default day schedule.
NonWorking	Indicates a non working day.
NonDefaultWorking	Indicates a non default day schedule.

Related Objects

- RPMCalendar
- CalendarWeekDay

InputType

Description

Package: com.ibm.rpm.applicationadministration.types

Usage

N/A

Values

The following table lists the enumerated value descriptions for this object.

Table 42. InputType Value Description

Field	Description
Text	Indicates the text input type.
RiskTolerance	Indicates the risk tolerance input type.
RiskAppetite	Indicates the risk appetite input type.
Numeric	Indicates the numeric input type.
None	Indicates that there is no input type.
Date	Indicates the date of the input type.

Related Objects

- Attribute
- CustomField

SelectType

Description

Package: com.ibm.rpm.applicationadministration.types

Usage

SelectType indicate the allowed type of selection of selectable fields.

Values

The following table lists the enumerated values for this object.

Table 43. SelectType Enumeration Value Description

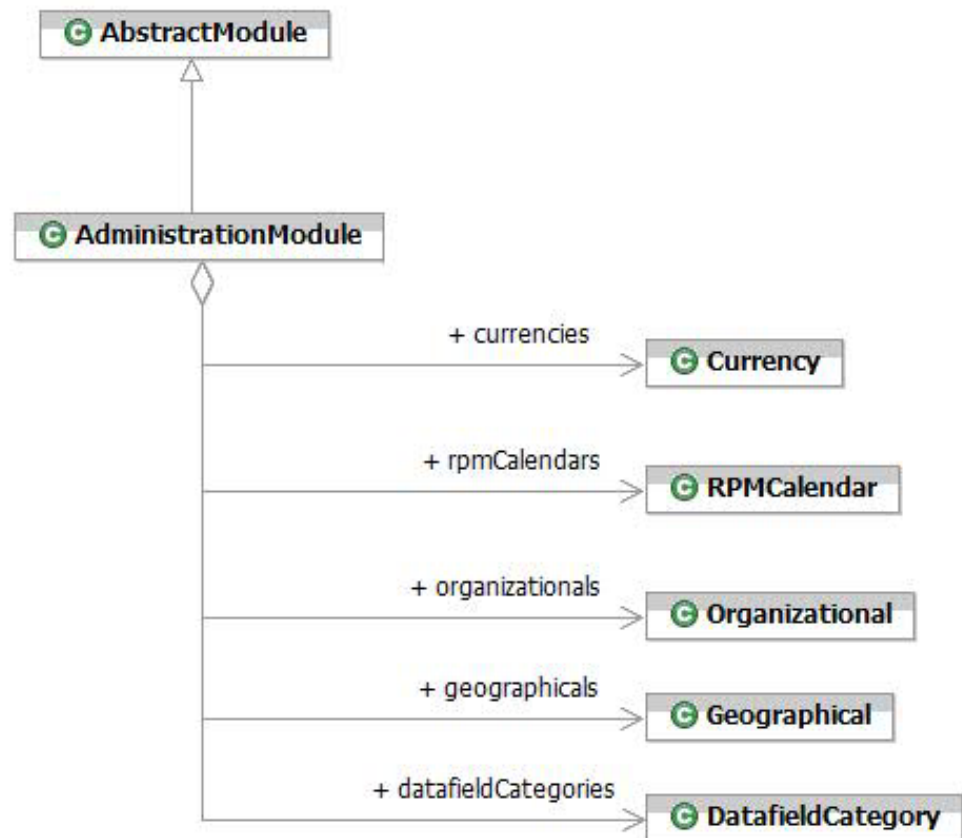
Value	Description
Multi	Indicates a multi-selection enabled type.
Single	Indicates a single selection enabled type.

Related Objects

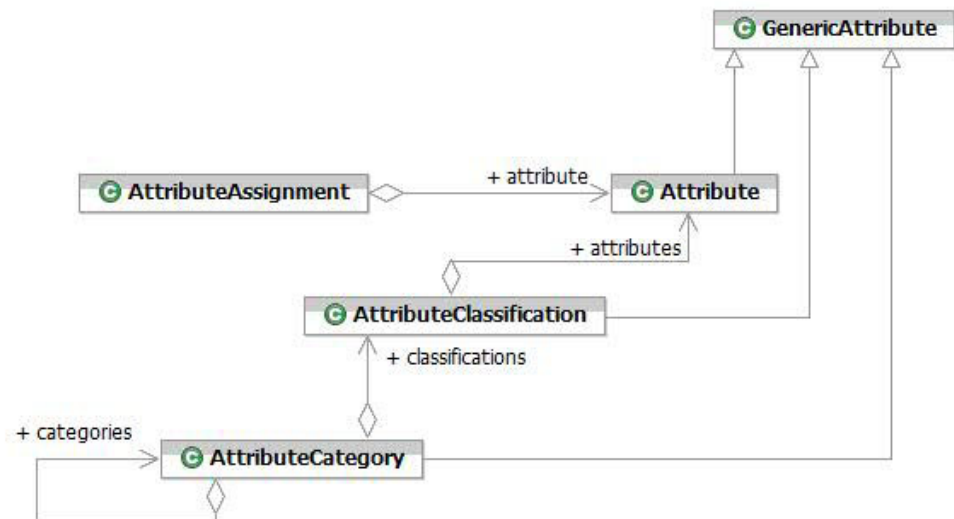
- AttributeClassification

Application Administration Object Relationship Diagrams

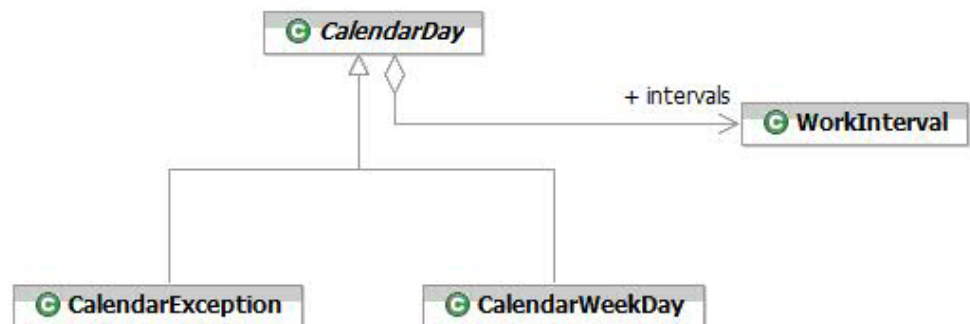
AdministrationModule



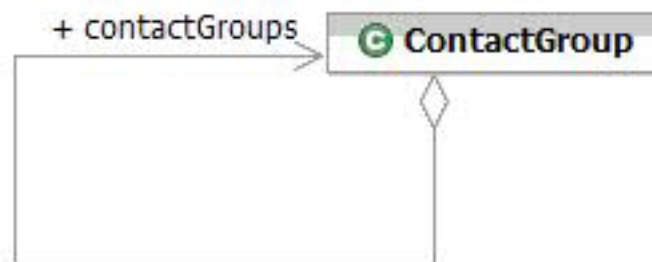
Attributes



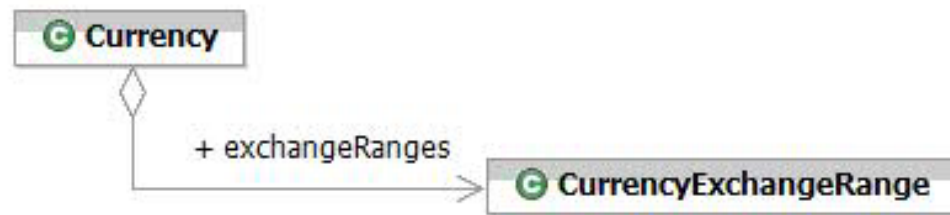
CalendarDay



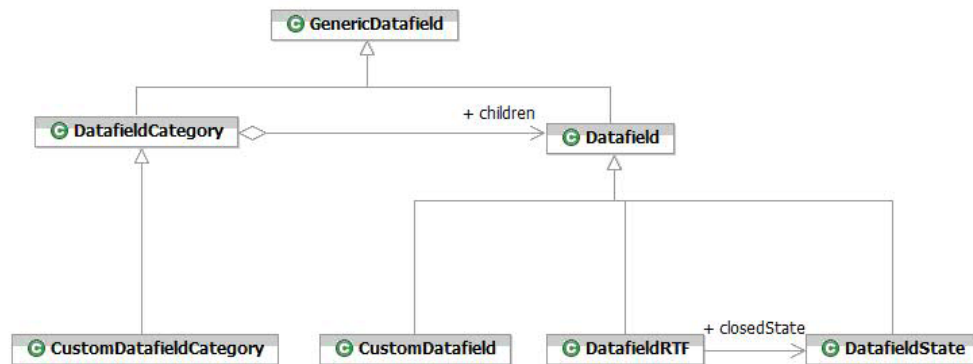
ContactGroup



Currency



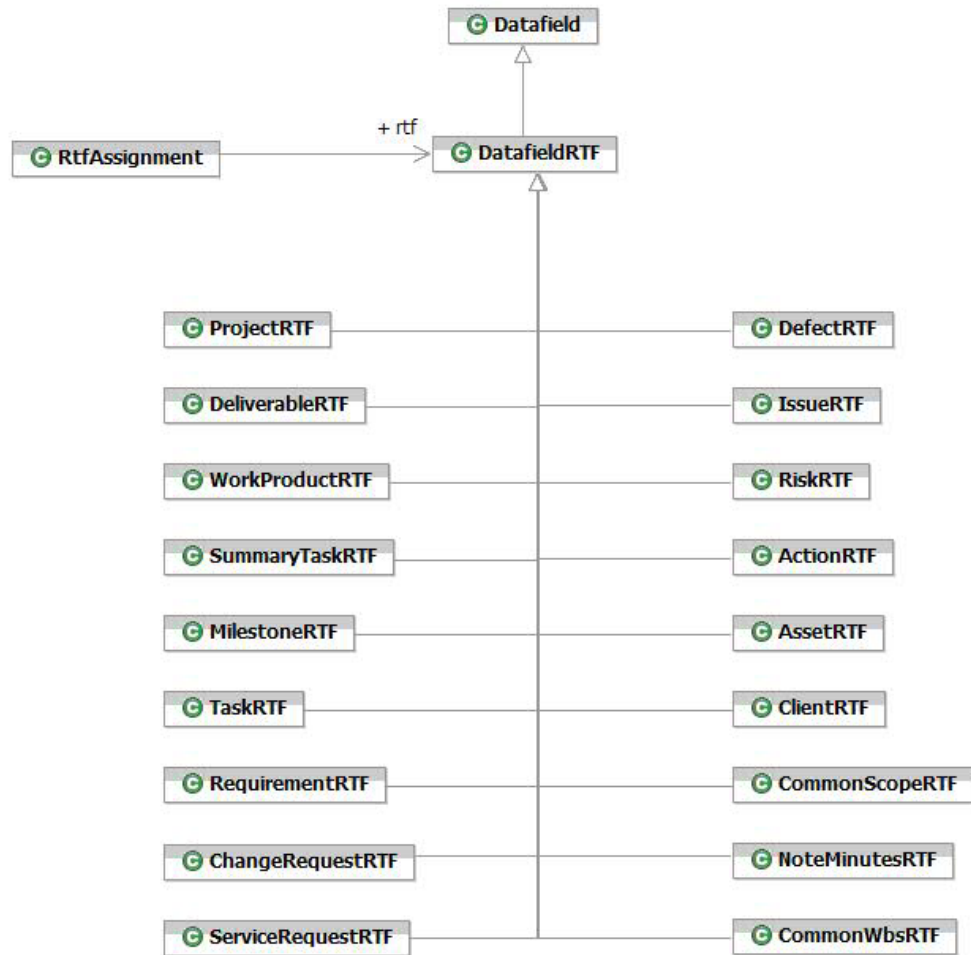
Datafield1



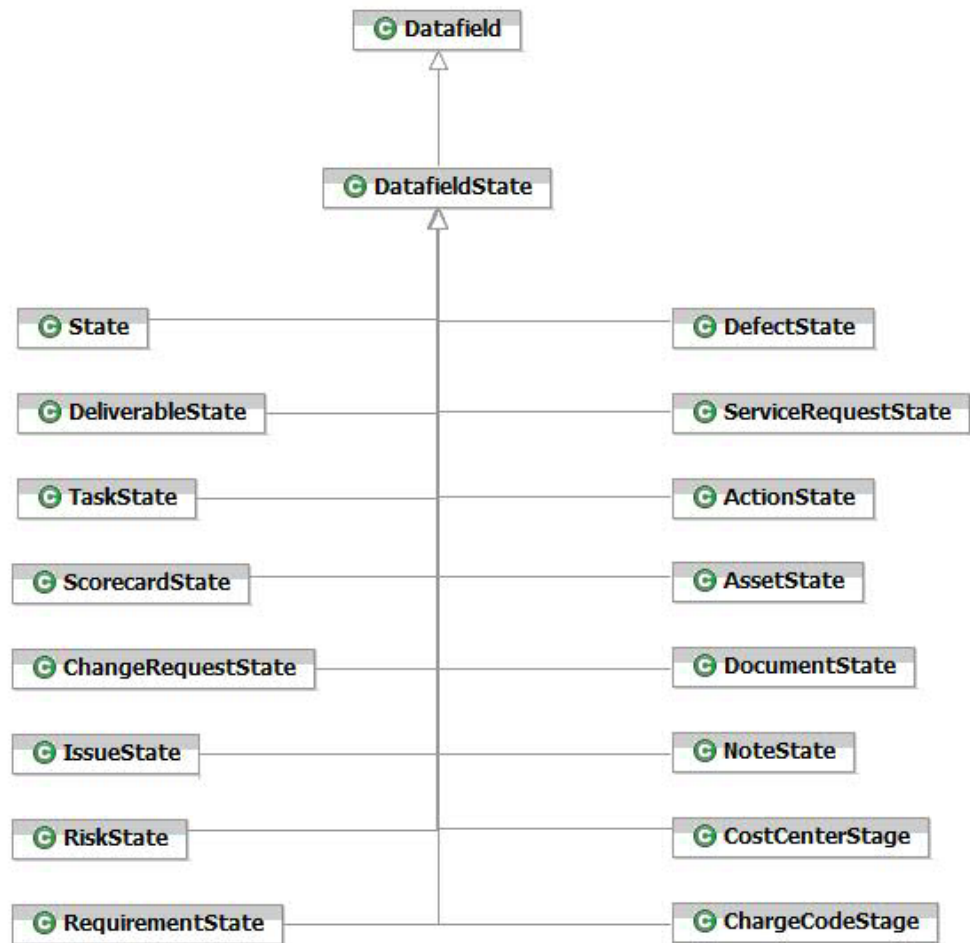
Datafield2



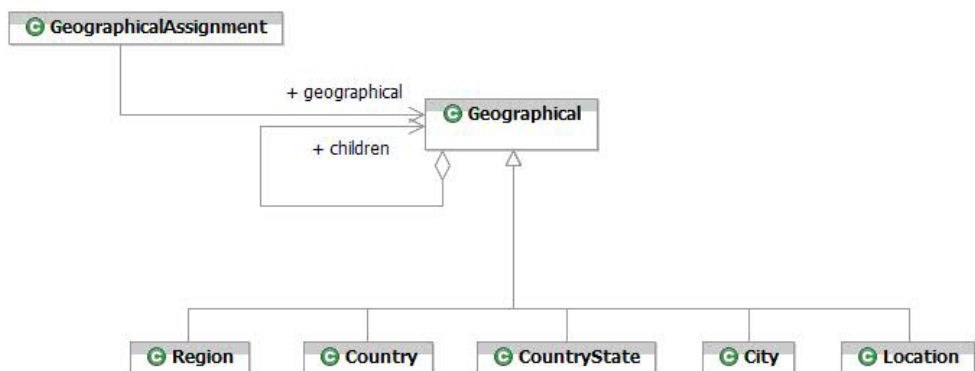
DatafieldRTF



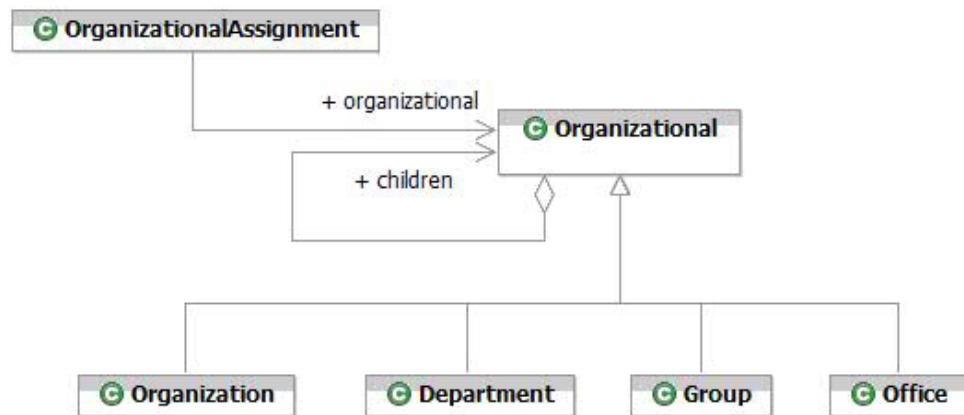
DatafieldState



Geographical



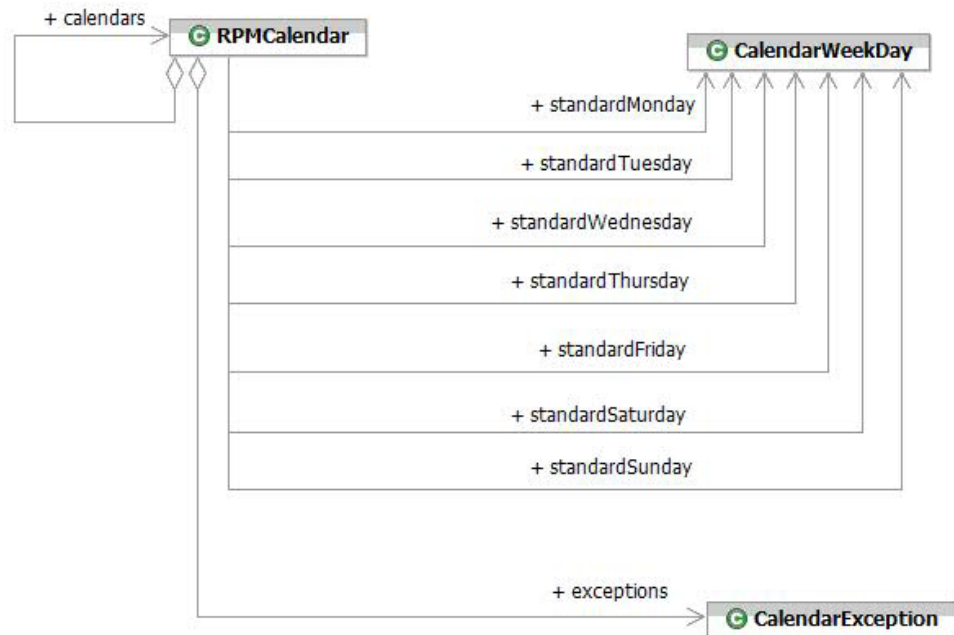
Organizational



PoolDomain



RPMCalendar



Asset

This section describes the objects available in the Asset category of the Web Services API.

Asset

Description

Package: com.ibm.rpm.asset.container

Extends: GenericAsset

Usage

Asset represents an asset which is available in the organization. An asset can be items such as software, hardware or other.

Parent is mandatory. An Asset object must be saved with a parent asset or parent folder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 44. Asset Field Description

Field	Detail
WBSActivityFinish	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The finish date of an activity. This field is read-only.</p> <p>Field validation description: Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
WBSActivityStart	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The start date of an activity. This field is read-only.</p> <p>Field validation description: Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
assetLife	<p>Type: Int</p> <p>Default value: 0</p> <p>Description: The asset's depreciable life in months. This field is read-only if manual depreciation is used. This field is read-only.</p> <p>Field validation description: Must be positive. Should not be changed.</p> <p>Additional field security restrictions: N/A</p>
assetResourceAssignment	<p>Type: ResourceAssignment[]</p> <p>Default value: An empty array</p> <p>Description: The asset's assignments to resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
attributeAssignment	<p>Type: AttributeAssignment[]</p> <p>Default value: An empty array</p> <p>Description: The Asset's attribute assignments.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
barcodeNumber	<p>Type: string</p> <p>Default value: Empty string</p> <p>Description: The barcode number for an asset.</p> <p>Field validation description: Limit 30 characters.</p> <p>Additional field security restrictions: N/A</p>
capitalValue	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: Capital value of an Asset. This field is read-only.</p> <p>Field validation description: Must be positive.</p> <p>Additional field security restrictions: N/A</p>
category	<p>Type: AssetsAssetCategory</p> <p>Default value: N/A</p> <p>Description: The category of an asset.</p> <p>Field validation description: Must be of a valid category.</p> <p>Additional field security restrictions: N/A</p>
contact	<p>Type: string</p> <p>Default value: Empty string</p> <p>Description: The contact person for an Asset.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
contactEmail	<p>Type: string</p> <p>Default value: Empty string</p> <p>Description: The contact person's e-mail adress.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
contactPhone	<p>Type: string</p> <p>Default value: Empty string</p> <p>Description: The contact person's phone number.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
crossChargeFinancials	<p>Type: CrossChargeFinancials[]</p> <p>Default value: An empty array</p> <p>Description: Departmental cross charges.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
crossChargeToDate	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The cross charge of an asset to date.This field is read-only.</p> <p>Field validation description: Must be positive. Field value should not be changed</p> <p>Additional field security restrictions: N/A</p>
currentValue	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The current value of an asset. This field is read-only.</p> <p>Field validation description: Must be positive. Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
dateAcquired	<p>Type: dateTime</p> <p>Default value: The current date</p> <p>Description: The date an asset was acquired.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
depreciationMethod	<p>Type: Integer</p> <p>Default value: 1</p> <p>Description: The depreciation method for an asset.</p> <p>Field validation description: Must be either 0 (manual), or 1 (linear).</p> <p>Additional field security restrictions: N/A</p>
depreciationSchedules	<p>Type: DepreciationSchedule[]</p> <p>Default value: An empty array</p> <p>Description: The depreciation schedules for an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
depreciationToDate	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The depreciation to date of an asset. This field is read-only.</p> <p>Field validation description: Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
dispositionDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The Asset's disposition or sale date.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: The document folder of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
estimateCrossCharge	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The estimated cross-charge of an Asset. This field is read-only.</p> <p>Field validation description: Must be positive. Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
estimateMaintenance	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: : The estimated maintenance of an asset. This field is read-only.</p> <p>Field validation description: Must be positive. Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
geographicalAssignment	<p>Type: GeographicalAssignment</p> <p>Default value: N/A</p> <p>Description: The geographical assignment of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
initialCost	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The initial cost of an asset.</p> <p>Field validation description: Must be positive.</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
licenseExpiryDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The license expiration date of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
maintenanceActivityDetails	<p>Type: MaintenanceActivityDetail[]</p> <p>Default value: An empty array</p> <p>Description: The Maintenance activity details of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
maintenanceActivitySummaries	<p>Type: MaintenanceActivitySummary[]</p> <p>Default value: An empty array</p> <p>Description: The Maintenance activity summaries of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
maintenanceEstimates	<p>Type: MaintenanceEstimates[]</p> <p>Default value: An empty array</p> <p>Description: The Maintenance estimates of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
maintenanceToDate	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: Maintenance to date of an asset. This field is read-only.</p> <p>Field validation description: Must be positive. Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
model	<p>Type: string</p> <p>Default value: An empty string</p> <p>Description: The model of an asset.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
modelNumber	<p>Type: string</p> <p>Default value: An empty string</p> <p>Description: Model number of an asset.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>
nextScheduleMaintenance	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The next scheduled maintenance of an asset. This field is read-only.</p> <p>Field validation description: Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
organizationalAssignment	<p>Type: OrganizationalAssignment</p> <p>Default value: N/A</p> <p>Description: Organizational assignment of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
quantity	<p>Type: Integer</p> <p>Default value: 0</p> <p>Description: Quantity available of an asset.</p> <p>Field validation description: Must be positive.</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
rtfAssignments	<p>Type: RtfAssignment[]</p> <p>Default value: An empty array</p> <p>Description: RTF assignments of an asset</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
salvageValue	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: Salvage value of an Asset. This field is read-only</p> <p>Field validation description: Must be positive. Field value should not be changed.</p> <p>Additional field security restrictions: N/A</p>
scorecardAssignments	<p>Type: ScorecardAssignment[]</p> <p>Default value: An empty array</p> <p>Description: Scorecard assignments of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
serialNumber	<p>Type: string</p> <p>Default value: An empty string</p> <p>Description: Serial number of an asset.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
State	<p>Type: AssetState</p> <p>Default value: Open</p> <p>Description: The current state of an asset.</p> <p>Field validation description: Must be a valid asset state.</p> <p>Additional field security restrictions: N/A</p>
statusUpdates	<p>Type: StatusUpdate[]</p> <p>Default value: An empty array</p> <p>Description: State updates of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 44. Asset Field Description (continued)

Field	Detail
tracked	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Whether the asset is tracked or not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
warrantySLAExpiryDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: SLA expiry date of an asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericAsset`

Related Objects

N/A

AssetFolder

Description

Package: com.ibm.rpm.asset.container

Extends: `GenericAsset`

Usage

Represents a folder which may contain Asset objects. An AssetFolder object has to be saved with an AssetFolder parent.

Parent is not mandatory, allowed parent type is AssetFolder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 45. AssetFolder Field Description

Field	Detail
folders	Type: AssetFolder[] Default value: An empty array Description: The child AssetFolders of an AssetFolder. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericAsset

Related Objects

N/A

AssetModule

Description

Package: com.ibm.rpm.asset.containers

Extends: AbstractModule

Usage

This module class is used to load all relevant containers related to Asset.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 46. AssetModule Field Description

Field	Detail
assetFolders	Type: AssetFolder[]
	Default value: N/A
	Description: The first level AssetFolders.
	Field validation description: N/A
	Additional field security restrictions: N/A
assetCategories	Type: AssetCategory[]
	Default value: N/A
	Description: The asset categories.
	Field validation description: N/A
	Additional field security restrictions: N/A
attributeCategories	Type: AttributeCategory[]
	Default value: N/A
	Description: The first level asset attribute categories.
	Field validation description: N/A
	Additional field security restrictions: N/A
chargeTypes	Type: ChargeType[]
	Default value: N/A
	Description: The charge types.
	Field validation description: N/A
	Additional field security restrictions: N/A
assetStates	Type: AssetState[]
	Default value: N/A
	Description: The asset states.
	Field validation description: N/A
	Additional field security restrictions: N/A
assetRtfs	Type: AssetRTF[]
	Default value: N/A
	Description: The asset rtfs.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 46. AssetModule Field Description (continued)

Field	Detail
customFieldCategories	<p>Type: CustomFieldCategory[]</p> <p>Default value: N/A</p> <p>Description: The first level asset custom field categories.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scorecardFolders	<p>Type: ScorecardFolder[]</p> <p>Default value: N/A</p> <p>Description: The scorecard folders.</p> <p>Field validation description:</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

AssetOrganizationalAssignment Description

Package: com.ibm.rpm.asset.containers

Extends: OrganizationalAssignment

Usage

AssetOrganizationalAssignment represents an association between an asset and an organization. IBM Rational Portfolio Manager allows the asset manager to assign one organization to an asset.

Parent is mandatory, allowed parent type is Asset.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties

- getProperty

Security Restrictions

N/A

Fields

N/A

Inherited Fields

From RPMObject

From OrganizationalAssignment

Related Objects

- Asset
- Organizational

AssetResourceAssignment

Description

Package: com.ibm.rpm.asset.containers

Extends: RPMObject

Usage

AssetResourceAssignment represents an association between an asset and a resource. IBM Rational Portfolio Manager allows the asset manager to assign individual users to an asset.

Parent is mandatory, allowed parent type is Asset.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 47. AssetResourceAssignment Field Description

Field	Detail
Field resource	Type: Resource
	Default value: N/A
	Description: The assigned resource.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Asset
- Resource

CrossChargeFinancials (Not available with this release)

Description

Package: com.ibm.rpm.asset.containers

Extends: RPMObject

Usage

CrossChargeFinancials represents an association between assets and projects or clients. The use of assets are tracked and associated to projects or clients. This allows IT asset managers to cross charge IT asset use.

At the end of each fiscal period, the asset manager may enter an actual amount for each month or an updated actual cross charge. The method depends on the estimation method.

IBM Rational Portfolio Manager permits the asset manager to enter the paid amounts that can be compared against the estimates and actuals that allow reconciliation when integrating with other asset management systems or general ledger systems.

Parent is mandatory, allowed parent type is Asset.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 48. CrossChargeFinancials Field Description

Field	Detail
chargeType	Type: ChargeType Default value: N/A Description: The charge type (none, connection, hours, units, MB, infrastructure). Field validation description: N/A Additional field security restrictions: N/A
cost	Type: double Default value: - 0.00 Description: The cost of each unit. Field validation description: N/A Additional field security restrictions: N/A
costCenter	Type: AbstractCostCenter Default value: N/A Description: The ID of charged entity (project / client). Field validation description: N/A Additional field security restrictions: N/A
estimatedActual	Type: double Default value: - 0.00 Description: The total amount for the estimated actual cross charge. Field validation description: N/A Additional field security restrictions: N/A

Table 48. CrossChargeFinancials Field Description (continued)

Field	Detail
estimatedBudget	<p>Type: double</p> <p>Default value: - 0.00</p> <p>Description: The total amount of the estimated budget cross charge.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
estimatedPaid	<p>Type: double</p> <p>Default value: - 0.00</p> <p>Description: The total amount for the estimated paid cross charge.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
finishDate	<p>Type: datetime</p> <p>Default value: N/A</p> <p>Description: The finish date of the cross charge period.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
quantity	<p>Type: double</p> <p>Default value: - 0.00</p> <p>Description: The number of units to charge.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
startDate	<p>Type: datetime</p> <p>Default value: N/A</p> <p>Description: The start date of cross charge period.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Asset
- ClientCostCenter
- ProjectCostCenter

DepreciationSchedule

Description

Package: com.ibm.rpm.asset.containers

Extends: RPMObject

Usage

Represents a depreciation schedule for an asset. In this schedule the asset is depreciated by the designated amount. Each asset might have a few depreciation schedules, which their sum equals to the asset acquisition cost.

DepreciationSchedule is used to define the depreciation schedule for an asset in order to perform accountability for the asset. The depreciation can be linearly, (same amount every month/year) until the value is zero, or manually in which the user chooses the amount to depreciate each time.

Parent is mandatory, allowed parent type is Asset

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 49. DepreciationSchedule Field Description

Field	Detail
depreciationDate	Type: datetime
	Default value: N/A
	Description: The time for depreciation.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 49. DepreciationSchedule Field Description (continued)

Field	Detail
amount	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount to depreciate.</p> <p>Field validation description: Must be a positive number.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Asset

GenericAsset

Description

Package: com.ibm.rpm.asset.container

Extends: RPMObject

Usage

Represents either an Asset or an AssetFolder.

GenericAsset is a common parent of both Assets and AssetFolders. It should be instantiated, only returned as children of an Asset/AssetFolder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 50. GenericAsset Field Description

Field	Detail
assets	Type: GenericAsset[] Default value: An empty array. Description: The child GenericAssets of an GenericAsset. Field validation description: N/A Additional field security restrictions: N/A
name	Type: string Default value: N/A Description: The name of the asset. Field validation description: Limit 50 characters. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

MaintenanceEstimates Description

Package: com.ibm.rpm.asset.containers

Extends: RPMObject

Usage

Represents maintenance estimates for assets. Each asset may have many maintenance estimate records, which the sum of their contents are reflected in estimateMaintenance, maintenanceToDate, and nextScheduleMaintenance summary fields.

MaintenanceEstimates is used to define the maintenance effort for an asset in order to perform accountability for the asset. Multiple maintenance estimates can be defined for an asset.

Parent is mandatory, allowed parent type is Asset.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 51. Field Description

Field	Detail
scheduleDate	Type: datetime Default value: N/A Description: The schedule time for performing the next maintenance effort. Field validation description: N/A Additional field security restrictions: N/A
description	Type: string Default value: N/A Description: The description of the maintenance effort. Field validation description: N/A Additional field security restrictions: N/A
actualCost	Type: double Default value: -0.00 Description: The actual cost for implementing the maintenance effort. Field validation description: N/A Additional field security restrictions: N/A

Table 51. Field Description (continued)

Field	Detail
estimatedCost	Type: double Default value: -0.00 Description: The estimated cost for implementing the maintenance effort. Field validation description: N/A Additional field security restrictions: N/A
performedBy	Type: string Default value: N/A Description: The resource that will execute the maintenance effort. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

- [Asset](#)

AssetModuleScope Description

Package: com.ibm.rpm.asset.scope

Extends: RPMObjectScope

Usage

AssetModuleScope represents a scope to navigate to objects that are related to AssetModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 52. AssetModuleScope Field Description

Field	Detail
assetFolders	Type: AssetScope[] Default value: N/A Description: Indicates if asset folders are in the scope. Field validation description: N/A Additional field security restrictions: N/A
assetCategories	Type: boolean Default value: N/A Description: Indicates if asset categories are in the scope. Field validation description: N/A Additional field security restrictions: N/A
attributeCategories	Type: AttributeScope[] Default value: N/A Description: Indicates if attribute categories are in the scope. Field validation description: N/A Additional field security restrictions: N/A
chargeTypes	Type: boolean Default value: N/A Description: Indicates if charge types are in the scope. Field validation description: N/A Additional field security restrictions: N/A
assetStates	Type: boolean Default value: N/A Description: Indicates if asset states are in the scope. Field validation description: N/A Additional field security restrictions: N/A

Table 52. AssetModuleScope Field Description (continued)

Field	Detail
assetRtfs	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Indicates if asset rtfs are in the scope.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldScope[]</p> <p>Default value: N/A</p> <p>Description: Indicates if asset custom field categories are in the scope.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scorecardFolders	<p>Type: ScorecardFolderScope[]</p> <p>Default value: N/A</p> <p>Description: Indicates if scorecard folders are in the scope.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

AssetScope Description

Package: The following table lists the fields for this object.

Extends: RPMObjectScope

Usage

Represents the scope of an Asset or an AssetFolder. An AssetScope can be queried to see what auxiliary object it contains that is related to this asset. In addition, it leads to the children and parent of the Asset.

Parent is not mandatory if the parent object is not in the scope. Allowed parent type is **AssetScope**

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 53. AssetScope Field Description

Field	Detail
assetOrganizationAssignment	Type: boolean Default value: false Description: Specifies whether there is an organizational assignment. Field validation description: N/A Additional field security restrictions: N/A
assetResourceAssignment	Type: boolean Default value: false Description: Specifies whether there is a resource assignment in the scope. Field validation description: N/A Additional field security restrictions: N/A
assets	Type: AssetScope Default value: N/A Description: Leads to children asset scopes. Field validation description: N/A Additional field security restrictions: N/A
attributeAssignments	Type: boolean Default value: false Description: Specifies whether there are attributeAssignments . Field validation description: N/A Additional field security restrictions: N/A

Table 53. AssetScope Field Description (continued)

Field	Detail
assignedScorecard	<p>Type: ScorecardScope</p> <p>Default value: null</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
crossChargeFinancials	<p>Type: CrossChargeFinancialsScope</p> <p>Default value: null</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: The scope of the custom field assignments</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
depreciationSchedules	<p>Type: DepreciationScheduleScope</p> <p>Default value: null</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentScope</p> <p>Default value: null</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
folders	<p>Type: AssetScope</p> <p>Default value: null</p> <p>Description: Leads to children asset folder scopes.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 53. AssetScope Field Description (continued)

Field	Detail
geographicalAssignment	<p>Type: AssetGeographicalAssignmentScope</p> <p>Default value: false</p> <p>Description: Specifies whether there is a geographical assignment for this asset.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
maintenanceEstimates	<p>Type: MaintenanceEstimatesScope</p> <p>Default value: null</p> <p>Description: Specifies whether to load maintenance estimates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: AssetScope</p> <p>Default value: false</p> <p>Description: Leads to the parent scope. Specifies whether to load theparent.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: AssetRtfAssignmentScope</p> <p>Default value: false</p> <p>Description: Specifies whether to load RTF assignments.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

CrossChargeFinancialsScope Description

Package: com.ibm.rpm.asset.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to the charged objects scope that is the charged object of the CrossChargeFinancials.

This object defines whether to load the parent asset and the charged objects with or without a scope.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 54. CrossChargeFinancialsScope Field Description

Field	Detail
chargedType	Type: boolean
	Default value: false
	Description: The charged type object scope.
	Field validation description: N/A
costCenter	Additional field security restrictions: N/A
	Type: AbstractCostCenterScope
	Default value: null
	Description: The cost center object scope
parent	Field validation description: N/A
	Additional field security restrictions: N/A
	Type: AssetScope
	Default value: N/A
	Description: The parent asset scope.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

DepreciationScheduleScope

Description

Package: com.ibm.rpm.asset.scope

Extends: RPMObjectScope

Usage

This object defines whether to load the parent asset with or without a scope.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 55. DepreciationScheduleScope Field Description

Field	Detail
parentScope	Type: AssetScope Default value: N/A Description: The parent asset scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

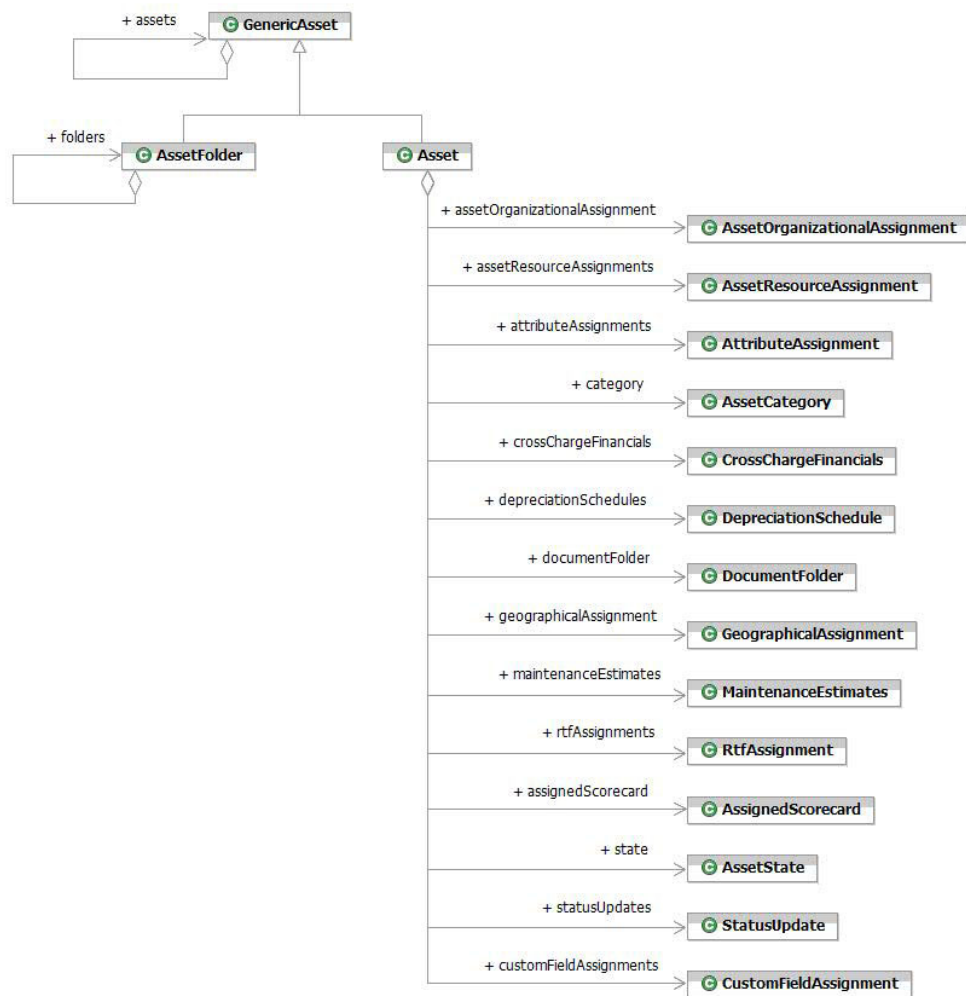
N/A

Related Objects

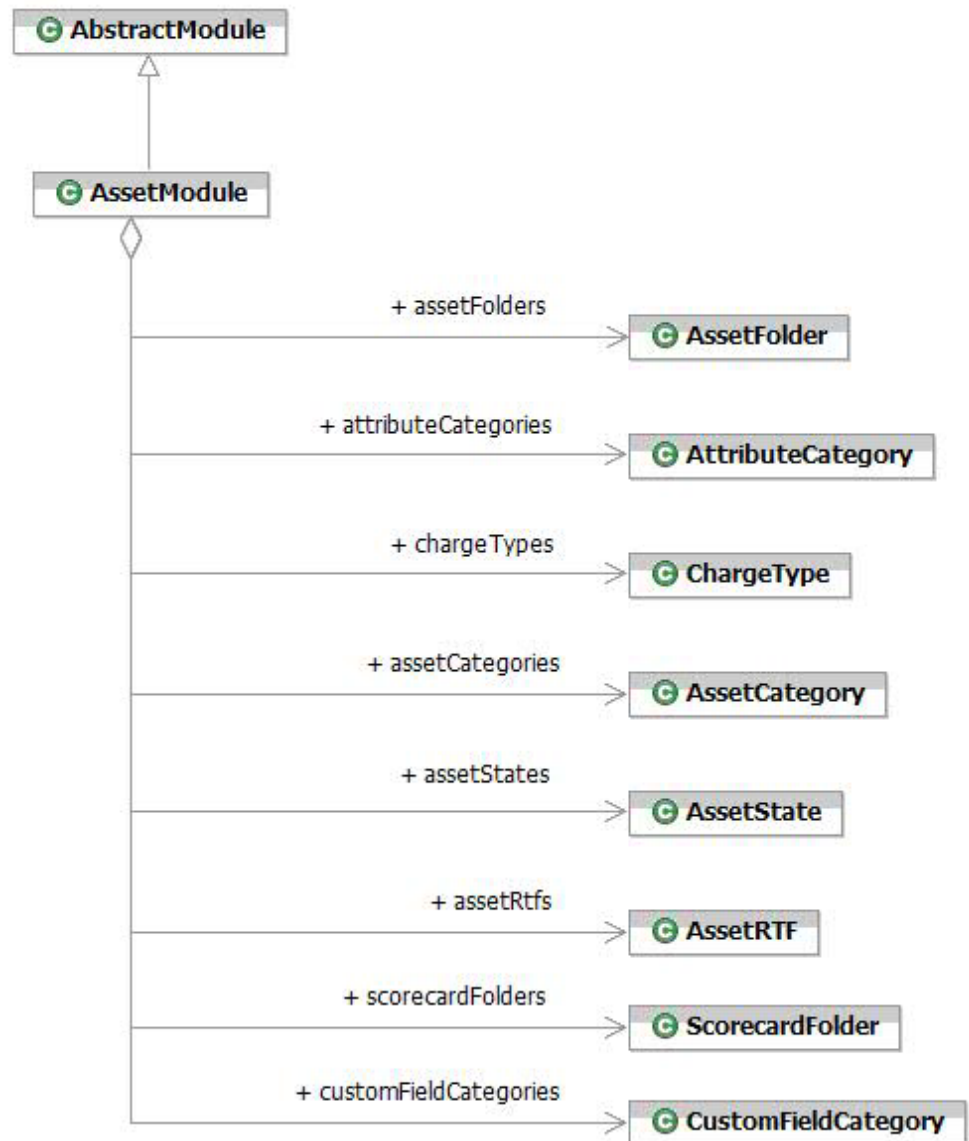
N/A

Asset Object Relationship Diagrams

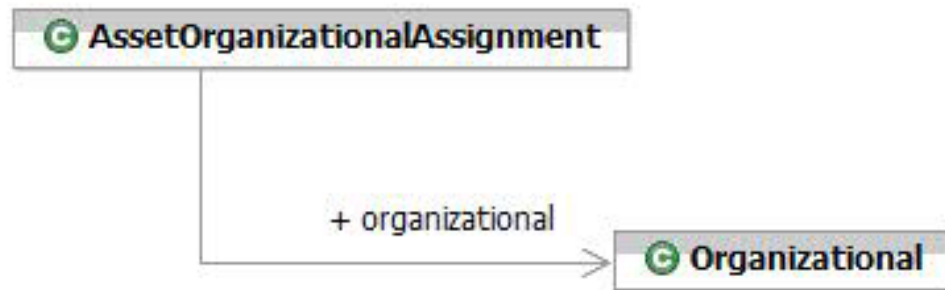
Asset



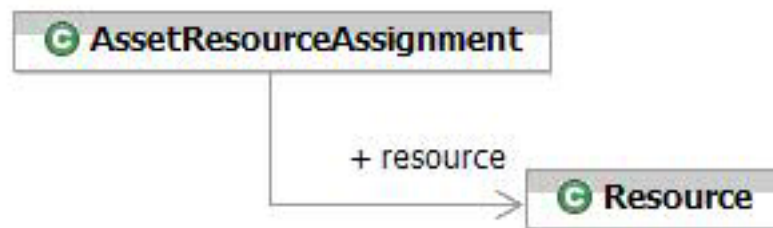
AssetModule



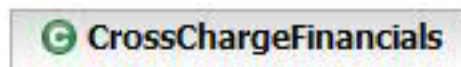
AssetOrganizationalAssignment



AssetResourceAssignment



CrossChargeFinancials



ClientCostCenter

This section describes the objects and scope available in the Client/Cost Center category of the Web Services API.

AbstractCostCenter

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: GenericClient

Usage

This is an abstract class, therefore, cannot be used directly to create an object. It is extended to create ClientCostCenter and ProjectCostCenter.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 56. AbstractCostCenter Field Description

Field	Detail
parent	<p>Type:</p> <ul style="list-style-type: none">• For ClientCostCenter, the type can be ClientFolder or Division.• For ProjectCostCenter, the parent is null. <p>Default value: N/A</p> <p>Description: The parent of the abstractCostCenter.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
name	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the abstractCostCenter.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the abstractCostCenter.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- RPMObject
- GenericClient
- ClientCostCenter
- ProjectCostCenter

ClientCostCenter

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: AbstractCostCenter

Usage

ClientCostCenter records, include information that is required to identify a ClientCostCenter and assign them to projects.

Parent is not mandatory, allowed parent types are ClientFolder and Division.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 57. ClientCostCenter Field Description

Field	Detail
attributeAssignments	Type: AttributeAssignment[] Default value: N/A Description: The attribute assignments for this ClientCostCenter Field validation description: N/A Additional field security restrictions: N/A
customFieldAssignments	Type: CustomFieldAssignment[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Table 57. ClientCostCenter Field Description (continued)

Field	Detail
defaultFlag	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates if the current ClientCostCenter is the default one.</p> <p>Field validation description: The value must be 'Y', 'N', or <i>null</i>.</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: The documentFolder for this ClientCostCenter.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
externalID	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The external identifier of this client cost center.</p> <p>Field validation description: Limit 32 characters.</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: RtfAssignment[]</p> <p>Default value: N/A</p> <p>Description: The RTF assignments for this ClientCostCenter.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
state	<p>Type: CostCenterStage[]</p> <p>Default value: N/A</p> <p>Description: TBD</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 57. ClientCostCenter Field Description (continued)

Field	Detail
statusUpdates	<p>Type: StatusUpdate[]</p> <p>Default value: N/A</p> <p>Description: The status updates for this ClientCostCenter.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericClient

Related Objects

- AstractCostCenter
- GenericClient
- ClientCostCenter
- ClientFolder
- Division

ClientCostCenterAssignment Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: RPMObject

Usage

When creating or updating an instance of ClientCostCenterAssignment, only the fields clientCostCenter and startDate should be set due to the fact that finishDate is calculated automatically.

Parent is mandatory.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 58. ClientCostCenterAssignment Field Description

Field	Detail
startDate	Type: dateTime Default value: N/A Description: The date at which the assignment starts. Field validation description: N/A Additional field security restrictions: N/A
finishDate	Type: dateTime Default value: N/A Description: The date at which the assignment ends Field validation description: N/A Additional field security restrictions: N/A
clientCostCenter	Type: ClientCostCenter Default value: N/A Description: The assigned ClientCostCenter. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ClientFolder

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: GenericClient

Usage

ClientFolder is used to create client folders which can contain divisions, client cost centers, and client folders.

Parent is not mandatory, allowed parent type is ClientFolder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 59. ClientFolder Field Description

Field	Detail
folders	<p>Type: ClientFolder[]</p> <p>Default value: N/A</p> <p>Description: The subfolders that belong to this ClientFolder.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
divisions	<p>Type: Division[]</p> <p>Default value: N/A</p> <p>Description: The subdivisions of this ClientFolder</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clientCostCenters	<p>Type: ClientCostCenter[]</p> <p>Default value: N/A</p> <p>Description: The children (ClientCostCenters) that belong to this ClientFolder.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- ClientCostCenter
- ClientFolder
- Division
- GenericClient

ClientModule

Description

Package: com.ibm.rpm.clientcostcenter.containers

Extends: AbstractModule

Usage

This module class is used to load all the relevant containers related to Clients.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 60. ClientModule Field Description

Field	Detail
attributeCategories	Type: AttributeCategory[] Default value: N/A Description: The first level Client attribute categories. Field validation description: N/A Additional field security restrictions: N/A
clientRtfs	Type: ClientRTF[] Default value: N/A Description: The client Rtfs. Field validation description: N/A Additional field security restrictions: N/A
clients	Type: GenericClient[] Default value: N/A Description: The first level generic clients. Field validation description: N/A Additional field security restrictions: N/A

Table 60. ClientModule Field Description (continued)

Field	Detail
costCenterStages	<p>Type: CostCenterStage[]</p> <p>Default value: N/A</p> <p>Description: The cost center stages.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldCategory[]</p> <p>Default value: N/A</p> <p>Description: The first level client custom field categories.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Division

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: GenericClient

Usage

Division is used to create divisions under client cost center structures and client folders.

Parent is not mandatory, allowed parent type is ClientFolder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 61. Division Field Description

Field	Detail
clientCostCenters	Type: ClientCostCenter[] Default value: N/A Description: The children (ClientCostCenters) of this Division. Field validation description: N/A Additional field security restrictions: N/A
state	Type: CostCenterStage Default value: N/A Description: Indicates the element's check out status. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- GenericClient
- ClientCostCenter
- ClientFolder
- Divison

GenericClient

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: RPMObject

Usage

This is an abstract class, therefore, cannot be used directly to create an object. It is extended to create ClientCostCenter, Division, ClientFolder, and ProjectCostCenter.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath

- delete

Security Restrictions

N/A

Fields

Table 62. GenericClient Field Description

Field	Detail
parent	<p>Type:</p> <ul style="list-style-type: none"> • For Division, the type is ClientFolder. • For ClientFolder, the type is ClientFolder. • For ClientCostCenter, the type can be ClientFolder or Division. • For ProjectCostCenter, the parent is null. <p>Default value: N/A</p> <p>Description: The parent of the genericClient.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
name	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the genericClient</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the genericClient</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- RPMObject
- AbstractCostCenter
- Division
- ClientFolder
- ClientCostCenter

- ProjectCostCenter

ProjectCostCenter

Description

Package: com.ibm.rpm.clientcostcenters.containers

Extends: AbstractCostCenter

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericClient

Related Objects

N/A

AbstractCostCenterScope

Description

Package: com.ibm.rpm.clientcostcenters.scope

Extends: RPMObjectScope

Usage

This is an abstract cost center scope class. It is extended to create ClientCostCenterScope and ProjectCostCenterScope

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

N/A

Related Objects

- RPMObjectScope
- ClientCostCenterScope
- ProjectCostCenterScope

ClientCostCenterScope

Description

Package: com.ibm.rpm.clientcostcenters.scope

Extends: AbstractCostCenterScope

Usage

ClientCostCenterScope represents a scope to navigate to objects related to ClientCostCenter, it is used to browse ClientCostCenter Object graphs.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 63. ClientCostCenterScope Field Description

Field	Detail
attributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if attributeAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clientCostCenters	<p>Type: ClientCostCenterScope</p> <p>Default value: N/A</p> <p>Description: The scope of the children (clientcostcenters)</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: TBD</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
divisions	<p>Type: ClientCostCenterScope</p> <p>Default value: null</p> <p>Description: The scopes of the subdivisions.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentScope</p> <p>Default value: N/A</p> <p>Description: TBD</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 63. ClientCostCenterScope Field Description (continued)

Field	Detail
folders	<p>Type: ClientCostCenterScope</p> <p>Default value: N/A</p> <p>Description: The scope of subfolders.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: ClientCostCenterScope</p> <p>Default value: N/A</p> <p>Description: The scope of the parent object.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if rtfAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
state	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Indicates if the State should be loaded or not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- RPMObjectScope
- AbstractCostCenterScope
- ClientCostCenter
- ClientCostCenterScope
- Division
- ClientFolder

ClientModuleScope

Description

Package: com.ibm.rpm.clientcostcenters.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to **ClientModule**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 64. ClientModuleScope Field Description

Field	Detail
attributeCategories	<p>Type: AttributeScope</p> <p>Default value: N/A</p> <p>Description: The scope of the associated AttributeCategory list.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clients	<p>Type: ClientCostCenterScope</p> <p>Default value: N/A</p> <p>Description: The scope of the associated GenericClient list.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clientRtfs	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if the ClientModule's clientRtfs field should be loaded or saved, and is <i>false</i> otherwise. The field is ignored if the corresponding ClientModule does not have a clientRtfs field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 64. ClientModuleScope Field Description (continued)

Field	Detail
costCenterStages	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if the ClientModule's costCenterStages field should be loaded or saved, and is <i>false</i> otherwise. The field is ignored if the corresponding ClientModule does not have a costCenterStages field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldScope</p> <p>Default value: N/A</p> <p>Description: The scope of the associated CustomField.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

ProjectCostCenterScope Description

Package: com.ibm.rpm.clientcostcenters.scope

Extends: AbstractCostCenterScope

Usage

N/A

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

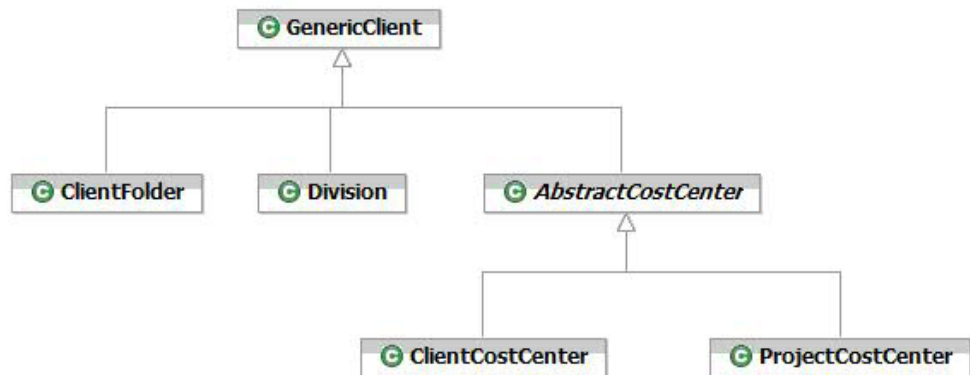
N/A

Related Objects

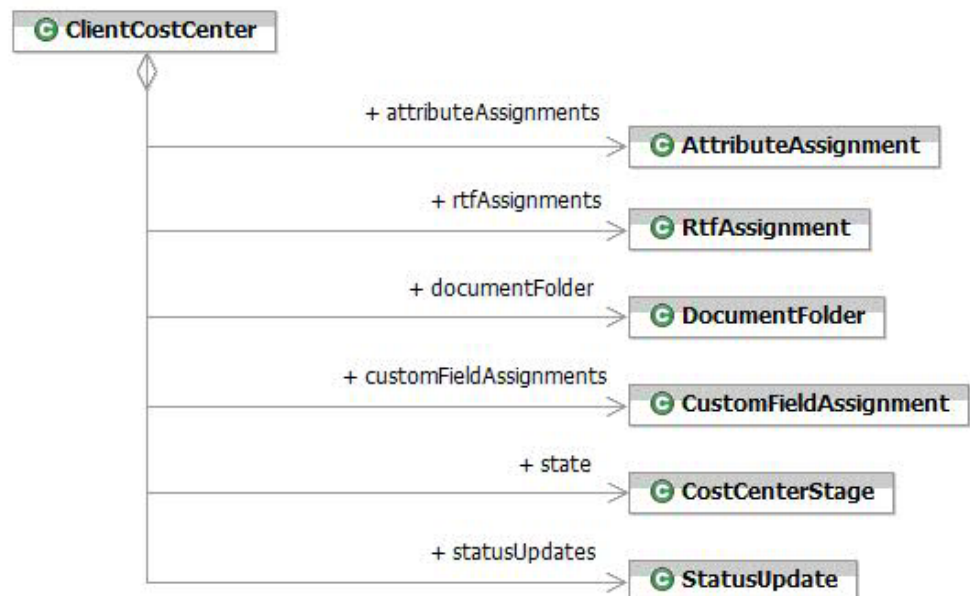
N/A

ClientCostCenter Object Relationship Diagrams

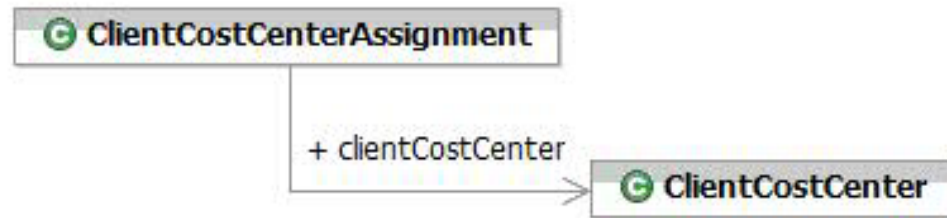
ClientCostCenter1



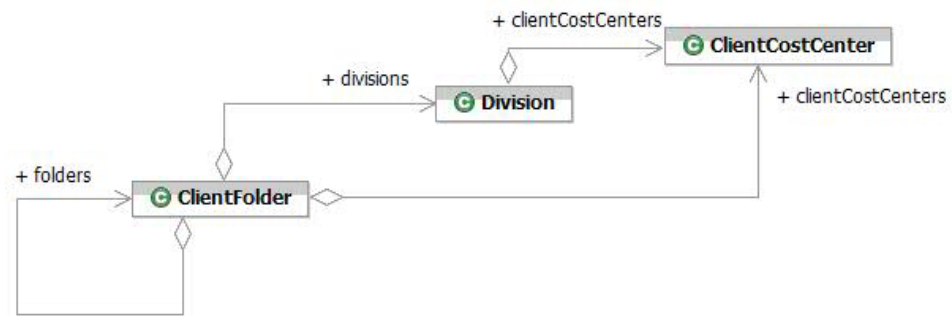
ClientCostCenter2



ClientCostCenterAssignment



ClientFolder



ClientModule



Contract

This section describes the objects available in the Contract category of the Web Services API.

Contract

Description

Package: com.ibm.rpm.contract.containers

Extends: GenericContract

Usage

Parent is not mandatory, allowed parent type is **ContractFolder**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 65. Contract Field Description

Field	Detail
chargeSchedules	Type: ContractChargeSchedule[] Default value: N/A Description: The charging schedule of the customer. Field validation description: N/A Additional field security restrictions: N/A
contractType	Type: ContractType Default value: The ContractType containing the name field with the value "1". Description: The type of the contract. Field validation description: N/A Additional field security restrictions: N/A

Table 65. Contract Field Description (continued)

Field	Detail
currency	<p>Type: Currency</p> <p>Default value: N/A</p> <p>Description: The currency in which the contract will be paid.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the contract</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
externalReference	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The external references of the current contract.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
maximumAmount	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The maximum amount which can be charged for the current contract.</p> <p>Field validation description: The value range is 0.00 to 9,999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericContract

Related Objects

N/A

ContractChargeSchedule

Description

Package: com.ibm.rpm.contract.containers

Extends: RPMObject

Usage

Parent is mandatory, allowed parent type is Contract.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 66. ContractChargeSchedule Field Description

Field	Detail
amount	Type: double Default value: N/A Description: The amount of the payment. Field validation description: The value range is 0.00 to 9,999,999,999,999.99. Additional field security restrictions: N/A
scheduleDate	Type: dateTime Default value: The first day of the current month. Description: The scheduled date for a payment. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ContractFolder Description

Package: com.ibm.rpm.contract.containers

Extends: GenericContract

Usage

ContractFolder represents the folder that contains all contracts for a customer.

Parent is not mandatory, allowed parent type is **ContractFolder**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 67. ContractFolder Field Description

Field	Detail
contracts	Type: Contract[] Default value: N/A Description: The contracts in the current folder. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericContract

Related Objects

N/A

ContractModule Description

Package: com.ibm.rpm.contract.containers

Extends: AbstractModule

Usage

This module class is used to load all the relevant containers related to Contract.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 68. ContractModule Field Description

Field	Detail
contracts	Type: GenericContract[] Default value: N/A Description: The first level of generic contracts. Field validation description: N/A Additional field security restrictions: N/A
contractTypes	Type: Default value: N/A Description: The contract types. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

GenericContract

Description

Package: com.ibm.rpm.contract.containers

Extends: RPMObject

Usage

This class should not be implemented directly. It is extended by Contract and ContractFolder.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 69. GenericContract Field Description

Field	Detail
name	Type: string Default value: N/A Description: The name of the object being created (Contract or Folder). Field validation description: Limit 50 characters. This field is mandatory. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ContractModuleScope

Description

Package: com.ibm.rpm.contract.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to ContractModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 70. ContractModuleScope Field Description

Field	Detail
contracts	Type: ContractScope[] Default value: N/A Description: Indicates if contracts are in the scope. Field validation description: N/A Additional field security restrictions: N/A
contractTypes	Type: boolean Default value: TBD Description: Indicates if contract types are in the scope. Field validation description: TBD Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ContractScope

Description

Package: com.ibm.rpm.contract.containers

Extends: RPMObjectScope

Usage

ContractScope is used to browse the Contract object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 71. ContractScope Field Description

Field	Detail
contracts	Type: ContractScope Default value: N/A Description: The scope of the contracts Field validation description: N/A Additional field security restrictions: N/A
parent	Type: ContractScope Default value: N/A Description: The scope of the parent object. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

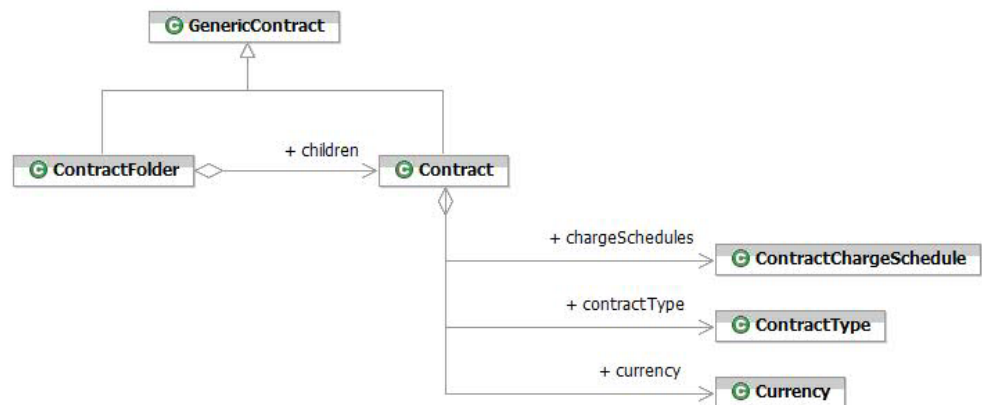
N/A

Related Objects

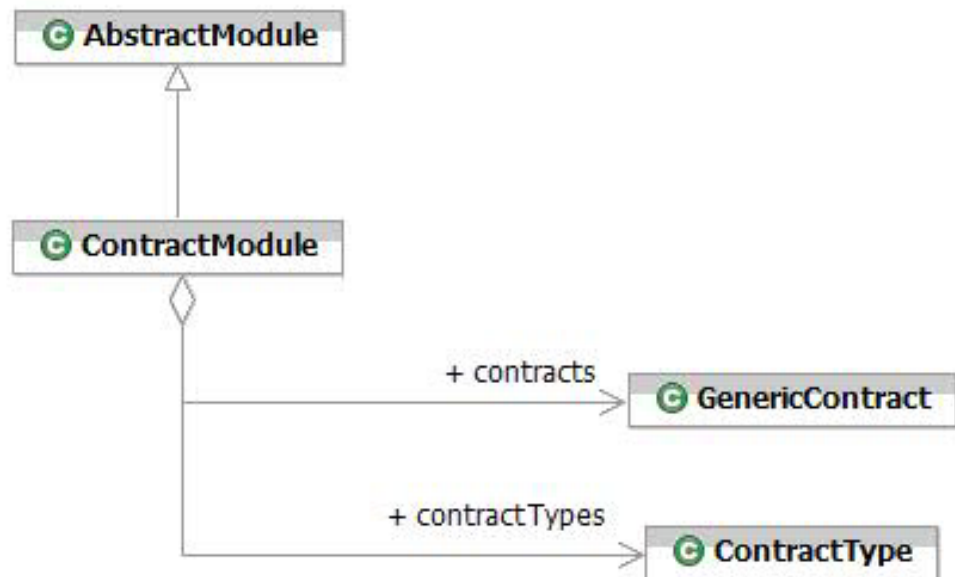
N/A

Contract Object Relationship Diagrams

Contract



ContractModule



Custom Field

This section describes the objects available in the Custom Field category of the Web Services API.

CustomField

Description

Package: com.ibm.rpm.customfield.containers

Extends: GenericCustomField

Usage

A CustomField represent an organization-defined (or user-defined) field to be used within Rational Portfolio Manager. It is assigned to projects, deliverables, tasks, scope elements, documents, resources, clients, or assets through the intermediate class CustomFieldAssignment.

Parent is mandatory, allowed parent value is CustomFieldCategory

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 72. CustomField Field Description

Field	Detail
datafieldCategory	<p>Type: DatafieldCategory</p> <p>Default value: null</p> <p>Description: Defines the domain of valid values for this custom field, when the value of inputType is set to <i>Datafield</i>.</p> <p>Field validation description: Must be specified when it is a CustomDatafieldCategory (and hence its value is a <i>CustomDatafield</i>). Otherwise, it can be inferred from the type of the defaultValue, if the latter is specified.</p> <p>Additional field security restrictions: N/A</p>

Table 72. CustomField Field Description (continued)

Field	Detail
defaultValue	<p>Type: anyType</p> <p>Default value: null</p> <p>Description: The default value for all CustomFieldAssignment instances associated with this custom field.</p> <p>Field validation description: Validation varies depending on the value attributed to inputType:</p> <ul style="list-style-type: none"> • <i>Text:</i> string. Limit 400 characters. • <i>Currency:</i> double • <i>Date:</i> date • <i>Numeric:</i> integer • <i>Checkbox:</i> boolean • <i>Datafield:</i> Datafield. Must be a child of the specified datafieldCategory. <p>Additional field security restrictions: N/A</p>
inputType	<p>Type: FieldInputType</p> <p>Default value: N/A</p> <p>Description: The type of value that this custom field can contain (see defaultValue).</p> <p>Field validation description: This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>
securityGroup	<p>Type: int</p> <p>Default value: 0</p> <p>Description: One of the predefined security groups.</p> <p>Note: Not implemented in this release.</p> <p>Field validation description: This field is mandatory on update.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericCustomField

Related Objects

- GenericCustomField
- CustomFieldCategory

- FieldInputType
- DatafieldCategory
- Datafield
- CustomFieldAssignment

CustomFieldAssignment

Description

Package: com.ibm.rpm.customfield.containers

Extends: RPMObject

Usage

A CustomFieldAssignment is used to assign a custom field to a particular project, deliverable, task, scope element, document, resource, client cost center, or asset. CustomFieldAssignment is always loaded with both its parent and related CustomField objects.

Calling 'delete' on this object will cause it to switch to the default value.

Parent is mandatory, allowed parent values are work element, scope, document, asset, resource and clientcostcenter.

Note: A CustomFieldAssignment must never be created manually.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 73. CustomFieldAssignment Field Description

Field	Detail
customField	<p>Type: CustomField</p> <p>Default value: N/A</p> <p>Description: Defines the domain of valid values which can be assigned.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>

Table 73. CustomFieldAssignment Field Description (continued)

Field	Detail
value	<p>Type: anyType</p> <p>Default value: null</p> <p>Description: Defines the value of the custom field for this particular assignment.</p> <p>Field validation description: May be null. The validation is dependant on the value of inputType.</p> <ul style="list-style-type: none"> • <i>Text:</i> string. Limit 400 characters • <i>Currency:</i> double • <i>Date:</i> date • <i>Numeric:</i> integer • <i>Checkbox:</i> boolean • <i>Datafield:</i> The value is a Datafield. Must be a child of the specified datafieldCategory. <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- CustomField

CustomFieldCategory

Description

Package: com.ibm.rpm.customfield.containers

Extends: GenericCustomField

Usage

A CustomFieldCategory represents the category that custom fields belong to. When creating a new CustomFieldCategory the parent CustomFieldGroup must be specified.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 74. CustomFieldCategory Field Description

Field	Detail
children	Type: CustomField[] Default value: null Description: The list of custom fields that belong to this custom field category. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericCustomField

Related Objects

- GenericCustomField
- CustomFieldGroup
- CustomField

CustomPortlet (Not available with this release) Description

Package: com.ibm.rpm.customfield.containers

Extends: GenericCustomPortlet

Usage

TBD

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericCustomPortlet`

Related Objects

N/A

CustomPortletCategory (Not available with this release)

Description

Package: `com.ibm.rpm.customfield.containers`

Extends: `GenericCustomPortlet`

Usage

TBD

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 75. CustomPortletCategory Field Description

Field	Detail
customPortlets	Type: CustomPortlet[] Default value: N/A Description: TBD Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From GenericCustomField

Related Objects

N/A

GenericCustomField Description

Package: com.ibm.rpm.customfield.containers

Extends: RPMObject

Usage

GenericCustomField is the base class for CustomField, CustomFieldCategory, and CustomFieldGroup.

Instances of this class are used to load or delete any of the derived classes from generic custom fields.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 76. *GenericCustomField Field Description*

Field	Detail
name	Type: string Default value: null Description: The name of the custom field. Field validation description: Limit 255 characters or may be <i>null</i> . Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

- **RPMObject**
- **CustomFieldGroup**
- **CustomFieldCategory**
- **CustomField**

GenericCustomPortlet (Not available with this release)

Description

Package: com.ibm.rpm.customfield.containers

Extends: RPMObject

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 77. GenericCustomPortlet Field Description

Field	Detail
name	Type: string Default value: N/A Description: TBD Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.customfield.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file errorCode.properties according to the integer error code provided.

Custom Field errors are specific to the custom field section of the API.

Custom Field error codes ranges: 409,001 - 410,000

- 409,001 - 409,299: validation codes
- 409,300 - 409,499: xpath codes
- 409,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 78. CustomField Validation Error Codes

Code	Description
409002	The datafield specified is not in the required datafield category.
409001	If the datafieldCategory field is set to <i>null</i> , the defaultValue field must also be set to <i>null</i> .

Inherited Fields

N/A

Related Objects

N/A

CustomFieldScope

Description

Package: com.ibm.rpm.customfield.scope

Extends: RPMObjectScope

Usage

CustomFieldScope is used to define the extent of a save or load operation on a GenericCustomField or any of its derived classes.

One or many CustomFieldScopes must be specified when saving or loading ancestors and/or descendants of a given custom field.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 79. CustomFieldScope Field Description

Field	Detail
children	Type: CustomFieldScope Default value: null Description: The children attribute scope. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: RPMObjectScope Default value: null Description: The parent attribute scope. Field validation description: Must be a CustomFieldScope. Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- GenericCustomField
- CustomFieldGroup
- CustomFieldCategory
- CustomField

CustomPortletScope (Not available with this release) Description

Package: com.ibm.rpm.customfield.scope

Extends: RPMObjectScope

Usage

TBD

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 80. CustomPortletScope Field Description

Field	Detail
children	Type: boolean Default value: N/A Description: TBD Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- CustomPortletCategory

FieldInputType Description

Package: com.ibm.rpm.customfield.types

Usage

The FieldInputType indicates the type of values which can be assigned to a custom field.

CustomField.inputType is used to validate any value assigned to a custom field, including its default value.

Values

The following table lists the values for this object..

Table 81. Value Description

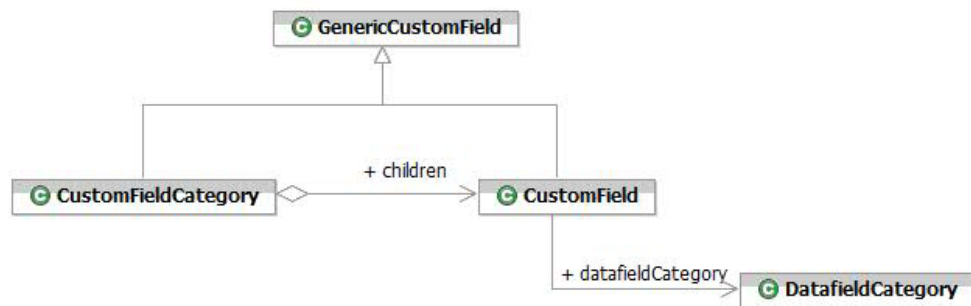
Value	Description
Text	Indicates the custom field value is a string.
Currency	Indicates the custom field value is a double.
Date	Indicates the custom field value is a date.
Numeric	Indicates the custom field value is an integer.
Checkbox	Indicates the custom field value is a boolean.
Datafield	Indicates the custom field value is a datafield.

Related Objects

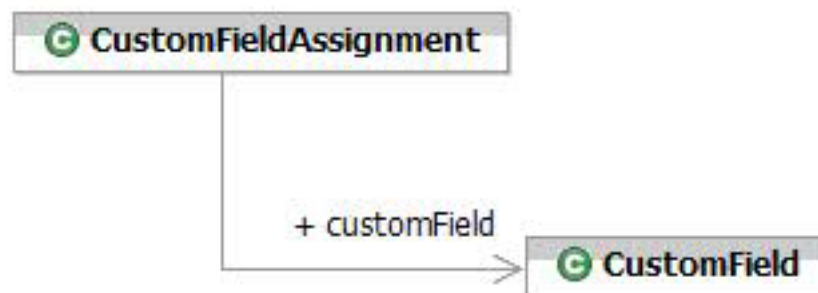
- CustomField

Custom Field Object Relationship Diagrams

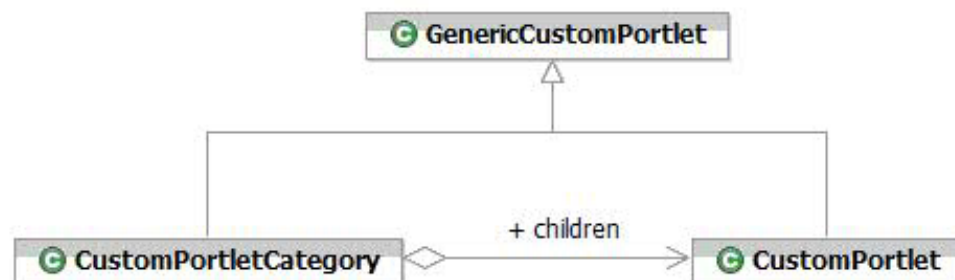
CustomField



CustomFieldAssignment



CustomPortlet



Document

This section describes the objects available in the Document category of the Web Services API.

AbstractDocument

Description

Package: com.ibm.rpm.document.containers

Extends: GenericDocument

Usage

AbstractDocument is an abstract class.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 82. AbstractDocument Field Description

Field	Detail
elementNumber	Type: int Default value: N/A Description: The unique ID of the document. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
keywords	Type: string Default value: N/A Description: Keywords that can be used for future document searches. Field validation description: Limit 255 characters. Additional field security restrictions: N/A

Table 82. AbstractDocument Field Description (continued)

Field	Detail
majorRevisionNumber	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: Each checkin action increments the minor revision number by 1. When the minor revision number reaches 99, the next checkin action sets it to 0 and the major revision number is incremented by 1. The document's actual revision number is the major revision and the minor revision numbers seperated by a period. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
minorRevisionNumber	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: Each checkin action increments the minor revision number by 1. When the minor revision number reaches 99, the next checkin action sets it to 0 and the major revision number is incremented by 1. The document's actual revision number is the major revision and the minor revision numbers seperated by a period. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
published	<p>Type: PublishedType</p> <p>Default value: None</p> <p>Description: Determines if the document is published to the team, to a template, or not at all.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
referenceNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: A reference number for the document.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 82. AbstractDocument Field Description (continued)

Field	Detail
state	<p>Type: DocumentState</p> <p>Default value: The DocumentState containing the name field with the value '1'.</p> <p>Description: The current state of the document.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
summary	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: A summary of the document's contents.</p> <p>Field validation description: Limit 1024 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

From GenericDocument

Related Objects

- DelDoc
- Document
- Software
- URL
- WPDoc

DelDoc

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractDocument

Usage

DelDoc is used to represent documents that are usually related to specific contract deliverable.

Parent is mandatory. Allowed parent types are DocumentFolder, DelDoc, Document, NoteMinutes, Software, URL, and WPDoc.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

From GenericDocument

From AbstractDocument

Related Objects

N/A

Document

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractDocument

Usage

Document is used to represent the majority of external documents.

Parent is mandatory, allowed parent types are DocumentFolder, DelDoc, Document, NoteMinutes, Software, URL, and WPDoc.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **DocumentElement**

From **GenericDocument**

From **AbstractDocument**

Related Objects

N/A

DocumentElement Description

Package: com.ibm.rpm.document.containers

Extends: RPMObject

Usage

DocumentElement cannot be used directly to create an object. It is extended to create **DocumentFolder** and **GenericDocument**.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 83. DocumentElement Field Description

Field	Detail
children	Type: DocumentElement[] Default value: N/A Description: The children documents or folders. Field validation description: N/A Additional field security restrictions: N/A
name	Type: string Default value: N/A Description: The name of the document or folder. Field validation description: Limit 255 characters. Additional field security restrictions: N/A
documentElements	Type: DocumentElement[] Default value: N/A Description: The children documents or folders. Field validation description: N/A Additional field security restrictions: N/A
resourceAssignment	Type: ResourceRoleAssignment Default value: N/A Description: The assignment of a resource to the document with a specific role. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

DocumentFolder

Description

Package: com.ibm.rpm.document.containers

Extends: DocumentElement

Usage

DocumentFolder is used to group documents.

Parent is not mandatory. Allowed parent type is DocumentFolder.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 84. DocumentFolder Field Description

Field	Detail
privateFolder	Type: boolean Default value: false Description: This field is <i>true</i> if the folder is private, and is <i>false</i> if it is published to everyone. Field validation description: Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

Related Objects

- DelDoc
- Document
- NoteMinutes

- Software
- URL
- WPDoc

DocumentModule

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractModule

Usage

This module class is used to load all relevant containers related to documents.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 85. DocumentModule Field Description

Field	Details
attributeCategories	Type: AttributeCategory[] Default value: TBD Description: TBD Field validation description: N/A Additional field security restrictions: N/A
customFieldCategories	Type: CustomFieldCategory[] Default value: TBD Description: TBD Field validation description: N/A Additional field security restrictions: N/A
documentStates	Type: DocumentState[] Default value: TBD Description: TBD Field validation description: N/A Additional field security restrictions: N/A

Table 85. DocumentModule Field Description (continued)

Field	Details
noteMinutesRtfs	Type: NoteMinutesRTF[] Default value: TBD Description: TBD Field validation description: N/A Additional field security restrictions: N/A
noteStates	Type: NoteState[] Default value: TBD Description: TBD Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

GenericDocument Description

Package: com.ibm.rpm.document.containers

Extends: DocumentElement

Usage

This object contains information common to all documents.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 86. *GenericDocument* Field Description

Field	Detail
attributeAssignments	Type: AttributeAssignment[] Default value: N/A Description: Attributes assigned to this document. Field validation description: N/A Additional field security restrictions: N/A
customFieldAssignments	Type: CustomFieldAssignment[] Default value: N/A Description: The CustomFieldAssignment list associated with the GenericDocument. Field validation description: N/A Additional field security restrictions: N/A
elementSecurityType	Type: ElementSecurityType Default value: ProjectLevel Description: The Element Security feature provides the document creator with the ability to allow access at Project Level to documents or to restrict access to specific documents By Invitation. Field validation description: N/A Additional field security restrictions: N/A
locked	Type: boolean Default value: false Description: When a document has been checked out by a resource, it is available to other resources in read-only mode. Therefore, in the event that a document must be temporarily secured from all editing, the value of this field can be set to <i>true</i> . If the value of this field value is set to <i>false</i> , then the document is available for editing. Field validation description: N/A Additional field security restrictions: N/A

Table 86. *GenericDocument Field Description (continued)*

Field	Detail
statusUpdates	<p>Type: StatusUpdate[]</p> <p>Default value: N/A</p> <p>Description: Allows the user to update the status of each revision of the document by entering a change brief.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
visibleAtParent	<p>Type: boolean</p> <p>Default value: true</p> <p>Description: When the value of this field is set to <i>false</i>, the document is prevented from rolling up to its immediate parent and all parents above. If this value of this field is <i>true</i>, then the document can be seen from any of its parents.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **DocumentElement**

Related Objects

- AbstractDocument
- DelDoc
- Document
- NoteMinutes
- Software
- URL
- WPDoc

NoteMinutes

Description

Package: com.ibm.rpm.document.containers

Extends: GenericDocument

Usage

NoteMinutes is used to attach formatted text without an external file.

Parent is mandatory. Allowed parent types are DocumentFolder, DelDoc, Document, NoteMinutes, Software, URL, and WPDoc.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 87. NoteMinutes Field Description

Field	Detail
priority	Type: int Default value: 500 Description: The priority of the NoteMinutes document. Field validation description: Must be between 0 and 1000. Additional field security restrictions: N/A
rank	Type: int Default value: 500 Description: The rank of the NoteMinutes document. Field validation description: Must be between 0 and 1000 Additional field security restrictions: N/A
rtfAssignment	Type: RtfAssignment Default value: N/A Description: The assignment of a NoteMinutesRTF datafield to NotesMinutes. The NoteMinutesRTF datafield contains the formatted text. Field validation description: N/A Additional field security restrictions: N/A

Table 87. NoteMinutes Field Description (continued)

Field	Detail
state	<p>Type: NoteState</p> <p>Default value: The NoteState whose field name is '1'.</p> <p>Description: The state of the NoteMinutes document.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

From GenericDocument

Related Objects

N/A

Software

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractDocument

Usage

A document used to attach software files.

Parent is mandatory. Allowed parent types are: DocumentFolder, DelDoc, Document, NoteMinutes, Software, URL, and WPDoc.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **DocumentElement**

From **GenericDocument**

From **AbstractDocument**

Related Objects

N/A

UrlDocument

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractDocument

Usage

This object provides a URL link to a document.

Parent is mandatory, allowed parent types are **DocumentFolder**, **DelDoc**, **Document**, **NoteMinutes**, **Software**, **UrlDocument**, and **WPDdoc**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 88. URL Field Description

Field	Detail
processLink	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if this link is an RUP 2006 link, and is <i>false</i> if otherwise. When the link is executed, Rational Portfolio Manager will concatenate the address specified in url with the RUP 2006 Home Address specified in Application Administration.</p> <p>Field validation description: Only one of processLink and RUPLink may have its value set to <i>true</i>.</p> <p>Additional field security restrictions: N/A</p>
RUPLink	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if this link is an RUP 2003 link, and is <i>false</i> if otherwise. When the link is executed, Rational Portfolio Manager will concatenate the address specified in url with the RUP 2003 Home Address specified in Application Administration.</p> <p>Field validation description: Only one of processLink and RUPLink may have its value set to <i>true</i>.</p> <p>Additional field security restrictions: N/A</p>
url	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The URL</p> <p>Field validation description: Limit 512 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

From GenericDocument

From AbstractDocument

Related Objects

N/A

WPDoc

Description

Package: com.ibm.rpm.document.containers

Extends: AbstractDocument

Usage

This object is a work product document, that is used to represent documented outputs of a Work Package, Summary Task, or Project Activities.

Parent is mandatory. Allowed parent types are DocumentFolder, DelDoc, Document, NoteMinutes, Software, URL, and WPDoc.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From DocumentElement

From GenericDocument

From AbstractDocument

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.document.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from properties file errorCode.properties according to the integer error code provided.

Document errors are specific to the document section of the API.

Document error codes ranges: 402,001 - 403,000

- 402,001 - 402,299: validation codes
- 402,300 - 402,499: xpath codes
- 402,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 89. Document Validation Error Codes

Code	Description
402001	The types of DocumentElements specified are not valid.

Inherited Fields

N/A

Related Objects

N/A

DocumentModuleScope

Description

Package: com.ibm.rpm.document.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to DocumentModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 90. DocumentModuleScope Field Description

Field	Detail
documentStates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if documentStates should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
noteMinutesRtfs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if noteMinutesRtfs should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
noteStates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if notStates should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
attributeCategories	<p>Type: AttributeScope</p> <p>Default value: null</p> <p>Description: TBD</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 90. DocumentModuleScope Field Description (continued)

Field	Detail
customFieldCategories	<p>Type: CustomFieldScope</p> <p>Default value: null</p> <p>Description: TBD</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

DocumentScope

Description

Package: com.ibm.rpm.document.scope

Extends: RPMObjectScope

Usage

DocumentScope represents a scope to navigate to objects that are related to Document.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 91. DocumentScope Field Description

Field	Detail
attributeAssignments	Type: boolean Default value: false Description: This field is <i>true</i> if documentStates should be loaded, and is <i>false</i> if it should not. Field validation description: N/A Additional field security restrictions: N/A
children	Type: DocumentScope Default value: N/A Description: The scope object associated with the Document's children. Field validation description: N/A Additional field security restrictions: N/A
customFieldAssignments	Type: boolean Default value: false Description: This field is <i>true</i> if noteMinutesRtfs should be loaded, and is <i>false</i> if it should not. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: DocumentScope Default value: N/A Description: The DocumentScope objects associated with the Document's parent. Field validation description: N/A Additional field security restrictions: N/A
resourceAssignments	Type: boolean Default value: false Description: This field is <i>true</i> if notStates should be loaded, and is <i>false</i> if it should not. Field validation description: N/A Additional field security restrictions: N/A

Table 91. DocumentScope Field Description (continued)

Field	Detail
rtfAssignment	Type: boolean Default value: false Description: :This field is <i>true</i> if RtfAssignment should be loaded, and is <i>false</i> if it should not. Field validation description: Additional field security restrictions: N/A
state	Type: boolean Default value: false Description: This field is <i>true</i> if state should be loaded, and is <i>false</i> if it should not. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ElementSecurityType Description

Package: com.ibm.rpm.document.types

Usage

ElementSecurityType represents the different levels of security which can be applied to elements for different resources.

Values

The following table lists the values for this object.

Table 92. ElementSecurityType Value Description

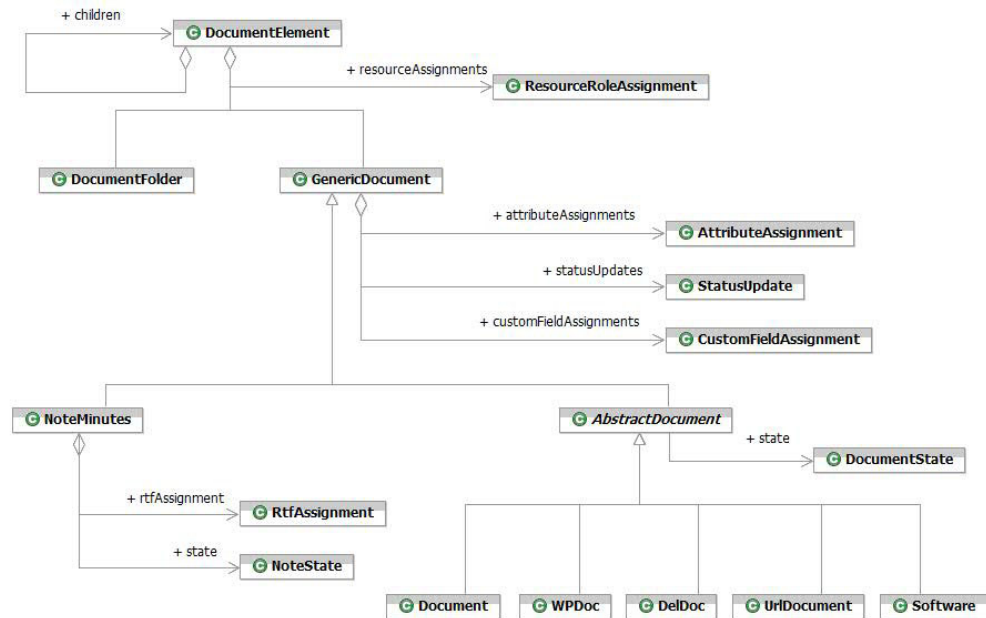
Value	Description
ProjectLevel	Indicates the project level security in the application.
ByInvitation	Indicates the invitation level security in the application.

Related Objects

N/A

Document Object Relationship Diagrams

Document



DocumentModule



Expense

This section describes the objects available in the Expense category of the Web Services API.

ExpenseItem (Not available with this release)

Description

Package: com.ibm.rpm.expense.containers

Extends: RPMObject

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 93. ExpenseItem Field Description

Field	Detail
billable	Type: boolean Default value: N/A Description: Determines whether the expense item is billable or not. Field validation description: N/A Additional field security restrictions: N/A
chargeCode	Type: ChargeCode Default value: N/A Description: The charge code of the expense item. Field validation description: N/A Additional field security restrictions: N/A
note	Type: string Default value: null Description: A note related to the expense item. Field validation description: N/A Additional field security restrictions: N/A
quantity	Type: int Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
reimburse	Type: boolean Default value: N/A Description: Determines whether to reimburse the expense item or not. Field validation description: N/A Additional field security restrictions: N/A

Table 93. ExpenseItem Field Description (continued)

Field	Detail
subTotal	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the expense item without taxes.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
tax1	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the first tax.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
tax2	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the second tax.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
unitPrice	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The unit price of the expense item.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Invoice (Not available with this release)

Description

Package: com.ibm.rpm.expense.containers

Extends: RPMObject

Usage

N/A

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 94. Invoice Field Description

Field	Detail
conversionRate	Type: double Default value: N/A Description: The conversion rate of the invoice. Field validation description: N/A Additional field security restrictions: N/A
convertedTotal	Type: double Default value: N/A Description: The converted total of the invoice. Field validation description: N/A Additional field security restrictions: N/A
currency	Type: Currency Default value: N/A Description: The currency in which the invoice is made. Field validation description: N/A Additional field security restrictions: N/A

Table 94. Invoice Field Description (continued)

Field	Detail
date	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The date of the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
expenseItems	<p>Type: ExpenseItem[]</p> <p>Default value: N/A</p> <p>Description: A list of the expense items related to the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
invoiceNumber	<p>Type: string</p> <p>Default value: null</p> <p>Description: The invoice number.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
invoiceStatus	<p>Type: InvoiceStatus</p> <p>Default value: N/A</p> <p>Description: The status of the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
location	<p>Type: string</p> <p>Default value: null</p> <p>Description: The location of the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
note	<p>Type: string</p> <p>Default value: null</p> <p>Description: A note related to the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 94. Invoice Field Description (continued)

Field	Detail
paymentType	<p>Type: PaymentType</p> <p>Default value: N/A</p> <p>Description: The type of payment on the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
subTotal	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the expense item without taxes.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
tax1	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the first tax.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
tax2	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of the second tax.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
total	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The total amount of the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
trackingNumber	<p>Type: string</p> <p>Default value: null</p> <p>Description: The tracking number of the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 94. Invoice Field Description (continued)

Field	Detail
vendor	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The vendor on the invoice.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

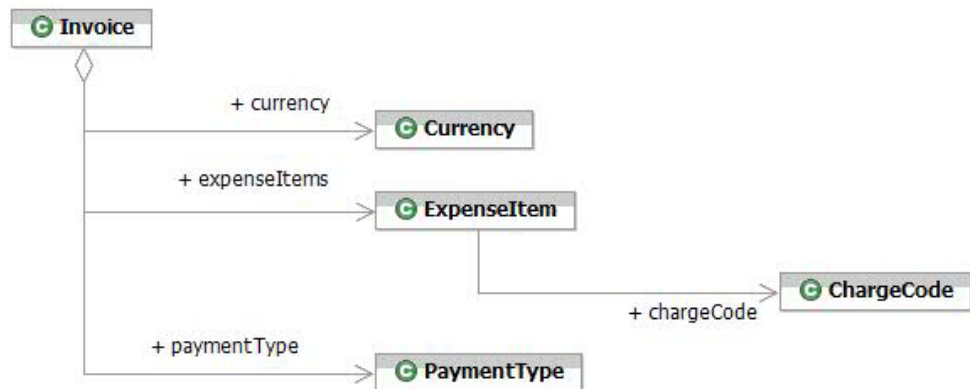
From RPMObject

Related Objects

N/A

Expense Object Relationship Diagrams (Not available with this release)

Expense



InvoiceStatus

Description

Package: com.ibm.rpm.expense.types

Usage

InvoiceStatus defines the current billing status of an Invoice.

Fields

The following table lists the values for this object.

Table 95. InvoiceStatus Value Description

Value	Description
Committed	Indicates the invoice has been committed.
Incurred	Indicates the invoice has been incurred.

Related Objects

- Invoice

InvoiceScope Description

Package: com.ibm.rpm.expense.scope

Extends: RPMObjectScope

Usage

N/A

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 96. InvoiceScope Field Description

Field	Detail
expenseItems	Type: boolean Default value: N/A Description: This field is <i>true</i> if expenseItems should be loaded, and is <i>false</i> if they should not. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

Financial

This section describes the objects available in the Financial category of the Web Services API.

AbstractFinancial Description

Package: com.ibm.rpm.financial.containers

Extends: RPMObject

Usage

AbstractFinancial is the set of financial (budget) data for WorkElement items, for a given ChargeCode.

AbstractFinancials cannot be instantiated directly. See its subclasses: WorksheetFinancial and WBSFinancial.

AbstractFinancial is always associated with a WorkElement parent. WorksheetFinancial requires that its parent is an AggregateNode (which is a subclass of WorkElement).

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 97. AbstractFinancial Field Description

Field	Detail
ChargeCode	Type: ChargeCode Default value: N/A Description: The Chargecode related to this financial data. This field is mandatory and read-only. Field validation description: N/A Additional field security restrictions: N/A

Table 97. AbstractFinancial Field Description (continued)

Field	Detail
RevRecType	<p>Type: RevenueRecognitionMethodType</p> <p>Default value: Manual</p> <p>Description: The way revenues are calculated. Possible values are <i>Manual</i>, <i>Ratio</i>, and <i>FlowThru</i>. When not applicable to the current ChargeCode, this field contains the N/A value and any modification is ignored.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
EstimateTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The estimated budget breakdown for each year.</p> <p>Field validation description: Each TimePhasedFinancial. The value of the year element must be within the project time frame, or set to <i>null</i> for the current year.</p> <p>Additional field security restrictions: N/A</p>
ActualTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The actual value breakdown for each year.</p> <p>Field validation description: Each TimePhasedFinancial. The year element must be within the project time frame, or set to <i>null</i> for the current year.</p> <p>Additional field security restrictions: N/A</p>
BaselineTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The baseline value breakdown for each year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 97. AbstractFinancial Field Description (continued)

Field	Detail
BaselinePreviousTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The previous baseline value breakdown for each year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BaselineInitialTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: Initial Baseline value breakdown for each year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
GLTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The general ledger value breakdown for each year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BilledTimePhased	<p>Type: TimePhasedFinancial[]</p> <p>Default value: null</p> <p>Description: The billed value breakdown for each year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
Estimate	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The estimated budget for the related chargecode.</p> <p>Field validation description: Estimate must be larger or equal to Actual. Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>

Table 97. AbstractFinancial Field Description (continued)

Field	Detail
Actual	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The actual value for the related chargecode.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Remaining	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The difference between the Estimate and the Actual. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
ETC	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Estimate To Complete (ETC) the related WorkElement for the related ChargeCode.</p> <p>Field validation description: Must be between 0 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
EAC	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The new Estimate At Completion (EAC) for the related WorkElement and ChargeCode. The sum of Actual and ETC. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
EACVariance	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The value of the Estimate at the time of the last baseline. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 97. AbstractFinancial Field Description (continued)

Field	Detail
BaselineInitial	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The value of the Estimate at the time of the first baseline. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BaselinePrevious	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The value of the baseline at the time of the lase baseline. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BaselineVariance	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The difference between the Estimate and the Baseline. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
Billed	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The charged amount for the related chargecode. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
GL	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The General Ledger (GL) amount for the related chargecode. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

AbstractTimeCode

Description

Package: com.ibm.rpm.financial.containers

Extends: RPMObject

Usage

This is the base class for time code containers. It cannot be instantiated.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 98. AbstractTimeCode Field Description

Field	Detail
description	Type: string
	Default value: null
	Description: The time code description.
	Field validation description: Limit 2048 characters.
name	Additional field security restrictions: N/A
	Type: string
	Default value: null
	Description: The time code name.
	Field validation description: Limit 50 characters.
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- GenericTimeCode
- TimeCode
- TimeCodeCategory
- TimeCodeGroup

ChargeCode

Description

Package: com.ibm.rpm.financial.containers

Extends: GenericChargeCode

Usage

ChargeCode represents an organization's chart of accounts for non-labor cost estimating and tracking during project execution.

Parent is mandatory, allowed parent type is ChargeCodeCategory.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 99. ChargeCode Field Description

Field	Detail
associatedChargeCode	Type: ChargeCode Default value: null Description: Bi-directional association used for flow-thru and ratio revenue recognition. Field validation description: May be null. Additional field security restrictions: N/A
billable	Type: boolean Default value: false Description: Billable benefits can be described as those that are typically passed to the project client, either as expense flow-thru or as revenue. The tracking of billable benefits is normally done in project real-time as billing occurs. Field validation description: Not null except on creation. Can be true only when FinancialCategory is Benefit. Additional field security restrictions: N/A
financialCategory	Type: FinancialCategory Default value: Expense Description: Detailed description of the charge code. Field validation description: Not null, except on creation. Additional field security restrictions: N/A
state	Type: ChargeCodeStage Default value: Active Description: Defines the current use of the charge code. Field validation description: May be null. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From `GenericChargeCode`

Related Objects

N/A

ChargeCodeCategory

Description

Package: `com.ibm.rpm.financial.containers`

Extends: `GenericChargeCode`

Usage

A `ChargeCodeCategory` represents a charge code category (folder). It can contain either charge code categories or charge codes.

Parent is not mandatory, allowed parent type is `ChargeCodeCategory`. In the case that no parent is associated, the `ChargeCodeCategory` is a root category.

Supported API Calls

- `save`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 100. ChargeCodeCategory Field Description

Field	Detail
Children	Type: <code>GenericChargeCode[]</code> Default value: <code>null</code> Description: A charge code category contains children charge codes or charge code categories. Field validation description: A given child must be present only once in the children set. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `GenericChargeCode`

Related Objects

N/A

FinancialModule

Description

Package: `com.ibm.rpm.financial.containers`

Extends: `AbstractModule`

Usage

This module class is used to load all the relevant containers related to Financial.

Supported API Calls

- `save`
- `loadFromXpath`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 101. FinancialModule Field Description

Field	Detail
<code>chargeCodeCategories</code>	Type: <code>ChargeCodeCategory[]</code> Default value: N/A Description: The first level charge code categories. Field validation description: N/A Additional field security restrictions: N/A
<code>timeCodeGroups</code>	Type: <code>TimeCodeGroup[]</code> Default value: N/A Description: The time code groups. Field validation description: N/A Additional field security restrictions: N/A

Table 101. FinancialModule Field Description (continued)

Field	Detail
chargeCodeStages	Type: ChargeCodeStage[] Default value: N/A Description: The charge code stage. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

GenericChargeCode Description

Package: com.ibm.rpm.financial.containers.

Extends: RPMObject

Usage

A GenericChargeCode is either a charge code or a charge code category. It is used to load or delete either the charge code or the charge code category that matches the provided identifier (see RPMObject.ID).

Supported API Calls

- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 102. GenericChargeCode Field Description

Field	Detail
Name	<p>Type: string</p> <p>Default value: null</p> <p>Description: Name of the charge code or charge code category, as displayed in the RPM client.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
Description	<p>Type: string</p> <p>Default value: null</p> <p>Description: Detailed description of the charge code.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>
ExternalID	<p>Type: string</p> <p>Default value: null</p> <p>Description: The identifier used to reference an external system.</p> <p>Field validation description: Limit 32 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

GenericTimeCode Description

Package: com.ibm.rpm.financial.containers

Extends: AbstractTimeCode

Usage

This is the base class for TimeCode and TimeCodeCategory objects.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractTimeCode

Related Objects

- TimeCodeScope
- TimeCode
- TimeCodeCategory

TimeCode

Description

Package: com.ibm.rpm.financial.containers

Extends: GenericTimeCode

Usage

This object is used by resources in the timesheet module to classify reported time.

Parent is mandatory, allowed parent type is **TimeCodeCategory**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `AbstractTimeCode`

Related Objects

- `TimeCodeScope`

TimeCodeAssignment Description

Package: `com.ibm.rpm.financial.containers`

Extends: `RPMObject`

Usage

TimeCodeAssignment is used to assign time codes to a **WorkElement**, so that they can be used by project performers when reporting time.

Parent is mandatory, allowed parent type is **WorkElement**.

Supported API Calls

- `save`
- `loadFromArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 103. TimeCodeAssignmentField Description

Field	Detail
timeCode	Type: <code>TimeCode</code>
	Default value: N/A
	Description: The time code being assigned.
	Field validation description: Cannot be <i>null</i> .
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

N/A

TimeCodeCategory

Description

Package: com.ibm.rpm.financial.containers

Extends: `GenericTimeCode`

Usage

`TimeCode` objects are grouped into categories of type `TimeCodeCategory`.

Parent is mandatory, allowed parent types are `TimeCodeCategory` and `TimeCodeGroup`.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 104. TimeCodeCategory Field Description

Field	Detail
children	Type: <code>GenericTimeCode[]</code> Default value: N/A Description: The children of the time code category. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `AbstractTimeCode`

Related Objects

- `TimeCodeScope`

TimeCodeGroup

Description

Package: `com.ibm.rpm.financial.containers`

Extends: `AbstractTimeCode`

Usage

TimeCodeGroup is used for the two main time code groups in RPM, which are **Time Codes I** and **Time Codes II**.

The parent of this object must be *null*. The ID for these objects is either 'TIMECODE_1' or 'TIMECODE_2'.

Supported API Calls

- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 105. TimeCodeGroup Field Description

Field	Detail
<code>children</code>	Type: <code>TimeCodeCategory[]</code> Default value: N/A Description: The children of the time code group. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `AbstractTimeCode`

Related Objects

- `TimeCodeScope`

TimePhasedFinancial

Description

Package: `com.ibm.rpm.financial.containers`

Extends: `RPMObject`

Usage

`TimePhasedFinancial` captures the monthly breakdown of the financial values for `WorkElement` or `Scope` items.

A `WBSFinancial` or `WorksheetFinancial` object must first be created in order to create a `TimePhasedFinancial` object. `TimePhasedFinancial` is typically created, updated, and deleted from a `WBSFinancial` or `WorksheetFinancial` object perspective.

Parent is mandatory. Allowed parent types are `WBSFinancial` or `WorksheetFinancial`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 106. TimePhasedFinancial Field Description

Field	Detail
Year	<p>Type: Integer</p> <p>Default value: 0, The current year.</p> <p>Description: Represents the financial year that applies to this breakdown. This is field is read-only, unless object is created.</p> <p>Field validation description: For new objects Year has to be within a Project timeframe or 0 (null) to pick current year.</p> <p>Additional field security restrictions: N/A</p>
Month01Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The value for month 01.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month02Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 02.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month03Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 03.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>

Table 106. TimePhasedFinancial Field Description (continued)

Field	Detail
Month04Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 04.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month05Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 05.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month06Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 06.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month07Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 07.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month08Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 08.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>

Table 106. TimePhasedFinancial Field Description (continued)

Field	Detail
Month09Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 09.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month10Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 10.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month011Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 11.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
Month12Value	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The Value for month 12.</p> <p>Field validation description: Must be between -999999999999.99 and 999999999999.99.</p> <p>Additional field security restrictions: N/A</p>
TotalForYear	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: Is the sum of the values for all the months that belong to the same Year. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

WbsFinancial

Description

Package: com.ibm.rpm.financial.containers

Extends: RPMObject

Usage

WbsFinancial is the Wbs set of financial (budget) data for Wbs or Scope items, for a given ChargeCode.

WbsFinancial must be associated to an object derived of WorkElement.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractFinancial

Related Objects

N/A

WorksheetFinancial

Description

Package: com.ibm.rpm.financial.containers

Extends: RPMObject

Usage

A WorksheetFinancial is the Worksheet set of financial (budget) data for AggregateNode items, for a given ChargeCode.

A WorksheetFinancial must be associated to an object derived from AggregateNode. AggregateNode is a subclass of WorkElement, which can contain other WorkElements.

Parent is mandatory. Allowed parent types is AggregateNode .

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractFinancial

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.financial.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file `errorCode.properties` according to the integer error code provided.

Financial errors are specific to the document section of the API.

Financial error codes ranges: 410,001 - 411,000

- 410,001 - 410,299: validation codes
- 410,300 - 410,499: xpath codes
- 410,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 107. Financial Validation Error Codes

Code	Description
410002	The charge code's financial category is not compatible with the financial category of the associated charge code.
410003	Financials with system charge codes set to FTE are read-only.
410004	WBS Financials are read-only.
410001	The financial category stated is reserved for system charge codes.
410005	Cannot save a TimePhasedFinancial container with a <i>null</i> ID or a <i>null</i> grandparent ID.

Inherited Fields

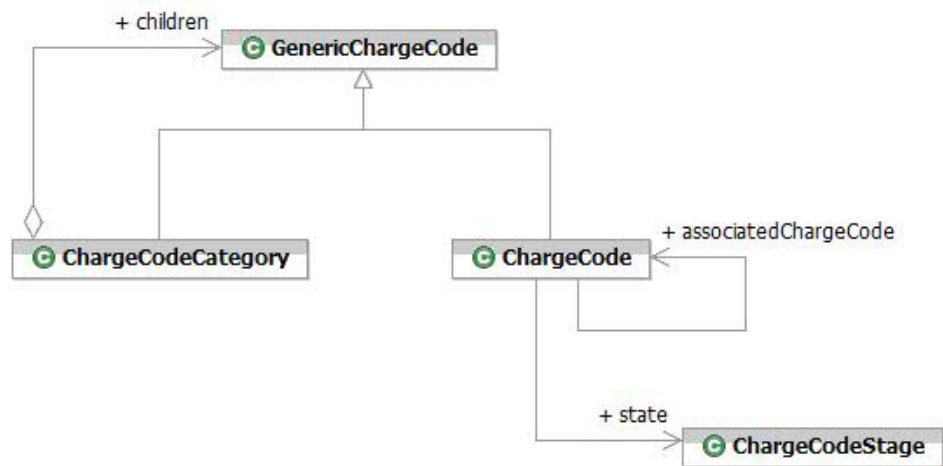
N/A

Related Objects

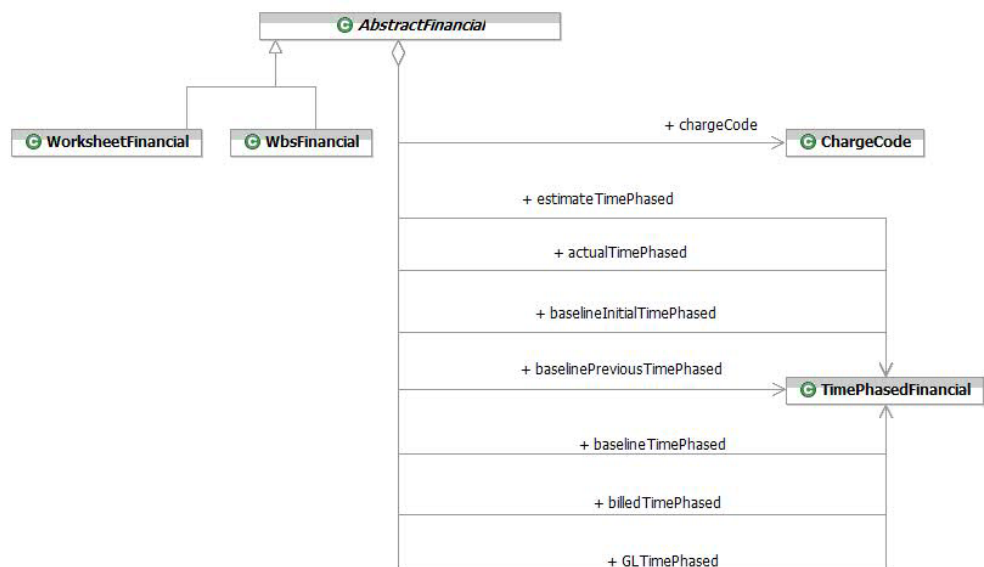
N/A

Financial Object Relationship Diagrams

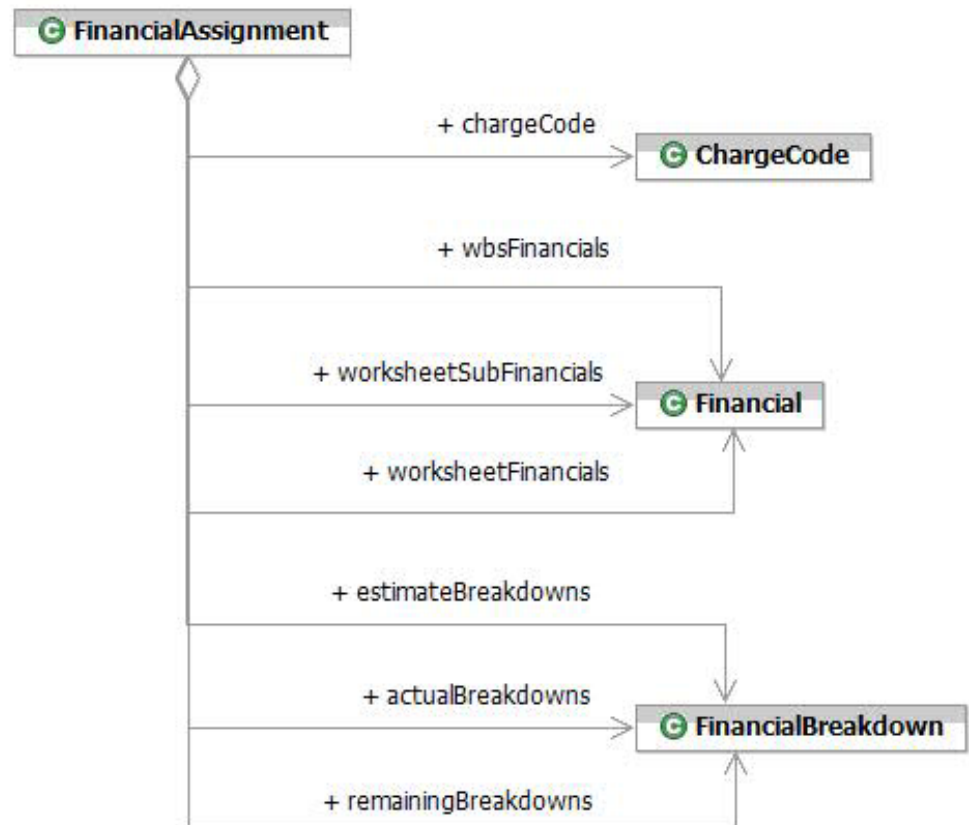
ChargeCode



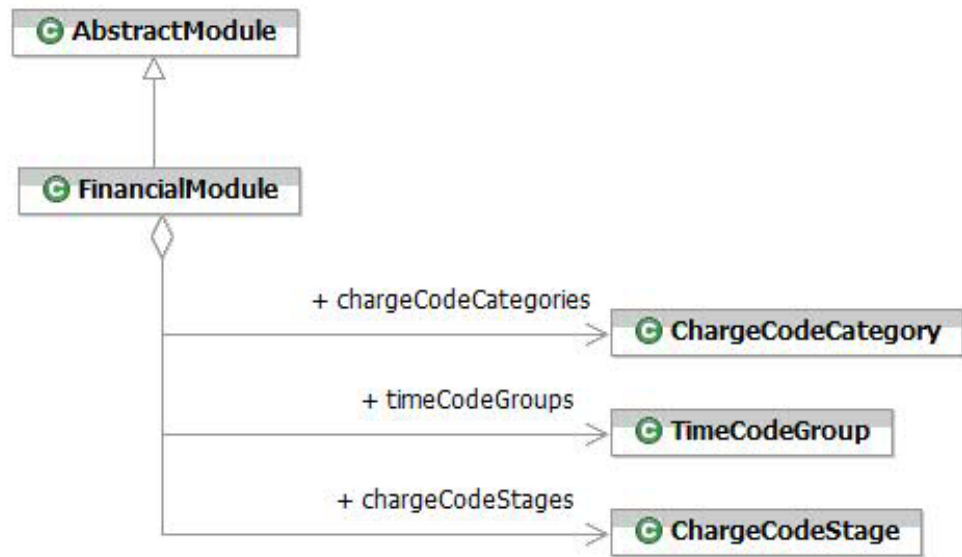
Financial



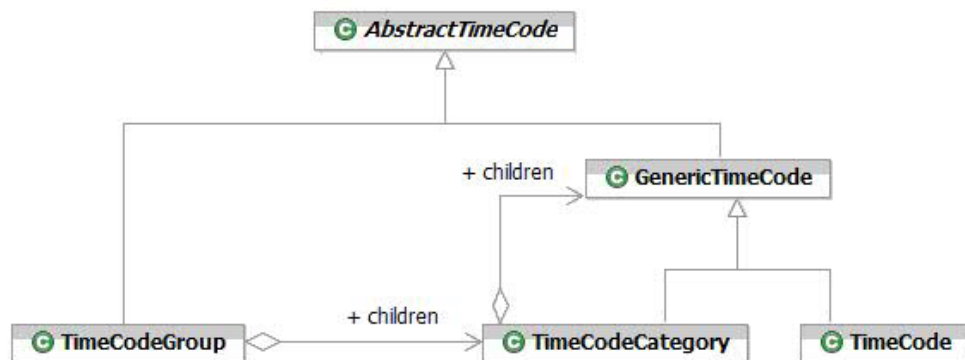
FinancialAssignment



FinancialModule



TimeCode



TimeCodeAssignment



ChargeCodeScope

Description

Package: com.ibm.rpm.financial.scope

Extends: RPMObjectScope

Usage

ChargeCodeScope represents scopes to navigate to objects related to ChargeCode.

A chargecode must be assigned to a WBS or Scope item, before a financial data value can be assigned to it.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 108. ChargeCodeScope Field Description

Field	Detail
associatedChargeCode	Type: ChargeCodeScope
	Default value: null
	Description: TBD
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 108. ChargeCodeScope Field Description (continued)

Field	Detail
children	Type: ChargeCodeScope
	Default value: null
	Description: TBD
	Field validation description: N/A
	Additional field security restrictions: N/A
parent	Type: ChargeCodeScope
	Default value: null
	Description: TBD
	Field validation description:
	Additional field security restrictions: N/A
state	Type: boolean
	Default value: null
	Description: TBD
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

FinancialModuleScope Description

Package: com.ibm.rpm.financial.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to FinancialModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 109. FinancialModuleScope Field Description

Field	Detail
chargeCodeCategories	Type: ChargeCodeScope[] Default value: N/A Description: Indicates if charge codes are in the scope. Field validation description: N/A Additional field security restrictions: N/A
timeCodeGroups	Type: TimeCodeScope[] Default value: N/A Description: Indicates if time code groups are in the scope. Field validation description: N/A Additional field security restrictions: N/A
chargeCodeStages	Type: boolean Default value: N/A Description: Indicates if charge code stages are in the scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

FinancialScope Description

Package: com.ibm.rpm.financial.scope

Extends: RPMObjectScope

Usage

A chargecode must be assigned to a WBS or Scope item, before a financial data value can be assigned to a chargecode.

Supported API Calls

- N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

N/A

Related Objects

N/A

TimeCodeScope

Description

Package: com.ibm.rpm.financial.scope

Extends: RPMObjectScope

Usage

TimeCodeScope represents a scope to navigate to objects that are related to time codes.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 110. TimeCodeScope Field Description

Field	Detail
children	Type: TimeCodeScope Default value: null Description: The scope for children. If children is not <i>null</i> then all GenericTimeCode objects that are children of the object will be loaded. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: RPMObjectScope Default value: null Description: The scope for the parent. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- GenericTimeCode
- TimeCode
- TimeCodeGroup
- TimeCodeAssignment

ProjectBudgetBreakdownScope Description

Package: com.ibm.rpm.financial.scope

Extends: RPMObjectScope

Usage

Represent a scope to navigate to objects that are related to Projectbudgetbreakdown.

A financial object must be created with same parent project and chargecode, before a ProjectBudgetBreakdown object can be created.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

N/A

Related Objects

N/A

BudgetType

Description

Package: com.ibm.rpm.financial.types

Usage

BudgetType represents budget type values for TimePhasedFinancial objects (timephased financial per-month breakdown).

Fields

The following table lists the values for this object.

Table 111. BudgetType Value Description

Value	Detail
Actual	Indicates the timephased financial breakdown for actual value.
Baseline	Indicates the timephased financial breakdown for current baseline value.
BaselineInitial	Indicates the timephased financial breakdown for initial (sticky) baseline value.
BaselinePrevious	Indicates the timephased financial breakdown for previous baseline value.
Billed	Indicates the timephased financial breakdown for billed value.
Calendar	Indicates the timephased financial breakdown for calendar value.
Estimate	Indicates the timephased financial breakdown for estimate value.
GL	Indicates the timephased financial breakdown for GL value.

Related Objects

- TimePhasedFinancial

FinancialCategory

Description

Package: com.ibm.rpm.financial.types

Usage

FinancialCategory represents the different financial categories available in the Rational Portfolio Manager application.

Values

The following table lists the values for this object.

Table 112. FinancialCategory Value Description

Value	Description
Benefit	Indicates the category for benefits.
BenefitAverageCost	TBD
BenefitFTE	TBD
BenefitHour	TBD
BenefitLabor	TBD
Capital	Indicates the category for capital.
CapitalAverageCost	TBD
CapitalFTE	TBD
CapitalHour	TBD
CapitalLabor	TBD
Contingency	Indicates the category for contingency.
Elimination	Indicates the category for elimination.
Expense	Indicates the category for expenses.
ExpenseAverageCost	TBD
ExpenseFTE	TBD
ExpenseHour	TBD
ExpenseLabor	TBD
TimePhaseCalendar	TBD

Related Objects

- ChargeCode

RevenueRecognitionMethodType

Description

Package: com.ibm.rpm.financial.types

Usage

RevenueRecognitionMethodType represents the different revenue recognition methods associated to benefit charge code.

Values

The following table lists the values for this object.

Table 113. RevenueRecognitionMethodType Value Description

Value	Description
FlowThru	Indicates the actual expense is used as the actual benefit.
Manual	Indicate the actual benefit aggregation is based on manually entered actual benefit amounts.
NA	Indicates that the Revenue recognition method is "Not available".
Ratio	Indicates the actual benefit aggregation is based on the ratio. The ratio is calculated by dividing the estimated expense by the estimated benefit. As expense actuals are entered, this ratio is used to calculate the actual benefit

Related Objects

- TimePhasedFinancial

TimePhasedType Description

Package: com.ibm.rpm.financial.types

Usage

TimePhasedType represents the way time phased financial breakdown is to be calculated

Fields

The following table lists the values for this object.

Table 114. TimePhasedType Value Description

Value	Description
AutoTimephased	Indicates timephased values are handled automatically.
ManuallyTimephased	Indicates timephased values are managed by the user.
NotTimephased	Indicates timephased values are not calculated for this financial object
ProjectAssignment	Not used

Related Objects

- AbstractFinancial

Framework

This section describes the objects and scope available in the Framework category of the Web Services API.

AbstractModule

Description

Package: com.ibm.rpm.framework.containers

Extends: RPMObject

Usage

AbstractModule is an abstract class, therefore, cannot be used directly to create an object. It is extended to create all the module objects.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

N/A

Related Objects

- RPMObject

ArrayResult

Description

Package: com.ibm.rpm.framework

Extends: Result

Usage

ArrayResult is used as the return type of many API methods. **ArrayResult** encapsulates the resulting array of RPMObject instances and the exceptions that have been raised during the execution of a method.

Supported API Calls

Refer to section “Application Interface” on page 46 for details.

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 115. *ArrayResult* Field Description

Field	Detail
rpmObjectList	Type: RPMObject[] Default value: N/A Description: The RPMObject instances returned by the method. This field is <i>null</i> if no object has been returned. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From Result

Related Objects

- Result

LoadResult

Description

Package: com.ibm.rpm.framework

Extends: Result

Usage

LoadResult is the same as ArrayResult. It has been kept for backward compatibility reasons.

Refer to the section on “ArrayResult” on page 325 for information.

Property

Description

Package: com.ibm.rpm.framework

Extends: N/A

Usage

Property represents a key/value pair. It is used in **PropertyResult**.

Supported API Calls

Refer to the section “Application Interface” on page 46 for details.

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 116. Property Field Description

Field	Details
key	Type: string Default value: N/A Description: The key of the property. This is the fixed part. Field validation description: N/A Additional field security restrictions: N/A
Value	Type: string Default value: N/A Description: The value of the property. This is the variable part. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- PropertyArray

PropertyArray Description

Package: com.ibm.rpm.framework

Extends: Result

Usage

PropertyArray is used as the return type of some API methods. PropertyArray encapsulates the resulting properties and the exceptions that have been raised during the execution of a method.

Supported API Calls

Refer to section “Application Interface” on page 46 section for details.

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 117. PropertyArray Field Description

Field	Details
properties	Type: Property[] Default value: N/A Description: The list of properties returned by the operation. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From Result

Related Objects

N/A

Result

Description

Package: com.ibm.rpm.framework

Extends: N/A

Usage

Result is used as the return type of many API methods. Result encapsulates the exceptions that have been raised during the execution of a method. Hence, a method that returns a Result or one of its extended classes does not throw any exception.

In order to know if a method has been successfully executed, the caller must check **Result.successfull**. When the latter’s value is set to *false*, the array of exceptions that caused the failure can be retrieved in **Result.errors**.

Note: When there is no error, Result.error is *null*.

Supported API Calls

Refer to section “Application Interface” on page 46 for details.

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 118. Result Field Description

Field	Detail
successfull	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> when the execution of the method has been successful. This means that no exception of severity level Error, SevereError, or FatalError have been raised. Otherwise, it is <i>false</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
errors	<p>Type: RPMException[]</p> <p>Default value: null</p> <p>Description: Contains the array of errors that have been raised during the execution of the method and their severity level. Possible severity levels are: <i>Error</i>, <i>SevereError</i>, or <i>FatalError</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
warningFree	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> when the execution of the method has raised no exceptions of severity level Warning. Otherwise, it is <i>false</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 118. Result Field Description (continued)

Field	Detail
warnings	<p>Type: RPMException[]</p> <p>Default value: null</p> <p>Description: Contains the array of warnings that have been raised during the execution of the method and their severity level. Severity levels can be <i>Warning</i> or <i>Information</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- SingleResult
- ArrayResult

RPMContainer Description

Package: com.ibm.rpm.framework

Extends: N/A

Usage

RPMContainer is an abstract class used to represent containers in the Rational Portfolio Manager Web Services API.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 119. RPMContainer Field Description

Field	Detail
deleted	Type: boolean Default value: false Description: When the value of this field is set to <i>true</i> , the RPMContainer is deleted when performing a save operation. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

RPMException

Description

Package: com.ibm.rpm.framework

Extends: Exception

Usage

RPMException is the class used to communicate errors in the Rational Portfolio Manager Web Services API. It contains abnormal behavior information that occur during a call.

Supported API Calls

None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 120. RPMException Field Description

Field	Detail
className	<p>Type: string</p> <p>Default value: null</p> <p>Description: The name of the class where the error has occurred.</p> <p>This field is read-only.</p> <p>This field is <i>null</i> if not applicable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
containerID	<p>Type: string</p> <p>Default value: null</p> <p>Description: The unique ID of the object that caused the error.</p> <p>This field is read-only.</p> <p>This field value is <i>null</i> if not applicable or if the container has not yet been saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
errorID	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The unique error ID of the error message which indicates the type of error that has occurred.</p> <p>This field is read-only.</p> <p>This field value is 0 if not applicable.</p> <p>For a compilation of fields associated with error IDs, refer to section on “ErrorCodes” on page 333.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 120. RPMException Field Description (continued)

Field	Detail
fieldName	<p>Type: string</p> <p>Default value: null</p> <p>Description: The name of the field which caused the error.</p> <p>This field is read-only.</p> <p>This field value is <i>null</i> if not applicable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
Message	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: A descriptive error message.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
secondaryFieldName	<p>Type: string</p> <p>Default value: null</p> <p>Description: The name of the field that caused the error.</p> <p>This field is read-only.</p> <p>This field value is <i>null</i> if not applicable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
severity	<p>Type: SeverityLevel</p> <p>Default value: Error</p> <p>Description: Specifies the severity level of an exception. Possible values are <i>Information</i>, <i>Warning</i>, <i>Error</i>, <i>SevereError</i>, and <i>FatalError</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

ErrorCodes

Table 121. Validation Error Codes

Codes	Descriptions
401001	Cannot assign multiple attributes deriving from the stated classification ID because the selectType field is set to 'Single'.
407001	If the Profile's grandparent is not of type <i>GenericProject</i> , the grandparent's project assignmentType must be set to 'Work'.

Table 121. Validation Error Codes (continued)

Codes	Descriptions
407002	There were no changes made that can be accepted or rejected.
407004	If the published field is set to <i>'ToTemplate'</i> , the generic project must have a saved parent.
407005	PublishedType <i>'ToTemplate'</i> is not currently supported.
407003	Please specify which fields to accept/reject. The accept/reject fields for EETC and forecastDates cannot both be set to <i>false</i> .
408001	Cannot start a workflow on an object of this type.
408002	Workflow must be activated.
409002	The datafield specified is not in the required datafield category.
409001	If the datafieldCategory field is set to <i>null</i> , the defaultValue field must also be set to <i>null</i> .
409002	The datafield specified is not in the required datafield category.
409001	If the datafieldCategory field is set to <i>null</i> , the defaultValue field must also be set to <i>null</i> .
410002	The charge code's financial category is not compatible with the financial category of the associated charge code.
410003	Financials with system charge codes set to <i>FTE</i> are read-only.
410004	WBS Financials are read-only.
410001	The financial category stated is reserved for system charge codes.
410005	Cannot save a TimePhasedFinancial container with a <i>null</i> ID or a <i>null</i> grandparent ID.
400065	Field cannot be updated to null.
400067	Class cannot be saved under the root parent provided.
400007	Field is mandatory under the stated condition.
400075	Field cannot match the field to which it is being compared.
400037	Field must be greater than or equal to the field to which it is being compared.
400049	Field must be greater than or equal to a constant value.
400005	Field cannot contain the stated characters.
400008	Failure validation message for the occurrence of a particular condition.
400004	Failure validation message for the comparison of two dates, where one date must be smaller than or equal to the other.
400052	Invalid hour value.
400013	Container is of the wrong type.
400025	Scope object is of the wrong type.
400014	Container is of an invalid type.
400041	The field must be set to one of a set of valid values.
400040	The field cannot contain a leading space.
400038	Field must be less than or equal to the field to which it is being compared.
400006	The field is mandatory.
400001	String exceeds the maximum allowable length.

Table 121. Validation Error Codes (continued)

Codes	Descriptions
400002	Array exceeds the maximum allowable size.
400070	A module must be used to create or load this container.
400051	The value cannot contain more than 2 decimal digits.
400012	The field must be <i>null</i> or empty under the stated condition.
400011	The container ID must be specified.
400018	A parent must be supplied for this container.
400017	The container's parent must be saved prior to saving the container.
400034	The container's active flag must be set.
400009	The value provided must previously exist.
400010	The value provided must be unique.
400032	The field cannot be set to the stated value when the conditional field does not contain a value.
400079	The fields must be set to <i>null</i> when the conditional field contains a value.
400003	The field value must be set within a stated range of values.
400076	The field is read-only when the conditional field is set to 0.
400077	The field is read-only when the two fields being compared have the same value.
400046	The field is read-only.
400030	The field is read-only when the conditional field has a value.
400031	The field is read-only when the conditional field does not have a value.
400044	The reload type provided is not valid.
400062	The timecode must be a child of the stated timecode category.
400045	Invalid number of fields set to be the default value.
400015	The parent is of an invalid type.
403001	Cannot specify a ' ReverifiedBy ' Resource if the ' VerifiedBy ' Resource is <i>null</i> .
404001	A scope element cannot have a duplicate scope element with the same ID.
404002	Scope elements can only have duplicates that are in the same project.
405001	Published property cannot be modified, use publish operation.
405002	Invalid number of selected responses for scorecard question.
405003	The context does not match the object the Scorecard container is being assigned to. This is possibly due to the use of an incorrect module object when creating the Scorecard container.
405004	Only one scorecard can be assigned to the specified container.
406001	The timecode must be assigned to the project.
406002	The weight of activities in TaskAssignment cannot exceed 100%.
406003	Creation failed. The project must be published to the team.

Table 121. Validation Error Codes (continued)

Codes	Descriptions
406004	Creation failed. The proposed dates must be copied to planned dates.
406005	There is no SummaryTimesheet specified for the project , resource , and weekOf .
406006	There is no SummaryTimesheet specified for the TaskAssignment .
406007	There is no SummaryTimesheet specified for the activity and weekOf .
406008	Cannot check out a submitted/approved timesheet. It must be rejected by the manager first.

Table 122. Manager Error Codes

Codes	Descriptions
401500	The maximum number of currencies that can be created has been reached. Cannot create a new currency.
401501	The work intervals specified are not valid.
401502	A work interval must be specified.
401503	Invalid interval(s). An odd number of times is specified.
401504	The type of the attribute is invalid.
401505	The attribute's root is not a valid type.
400508	Invalid message context. Message context cannot be <i>null</i> .
400507	The primary key cannot be <i>null</i> .
400506	The result set contains a line with an invalid primary key. This may be caused by the fact that the root object of this table has a primary key field equal to <i>null</i> . Please implement method getFilter() .
400520	An object with the specified ID does not exist.
400519	The left condition/predicate is missing.
400516	Method getPrimaryKey() is not implemented for this manager. Use method getPrimaryKeyArray() .
400515	The stored procedure did not return a result set or the result set did not include an error column.
400517	The property is not mapped to a column in the database table.
400518	The right condition/predicate is missing
400546	The contextName field is set to an invalid value.
400536	Cannot delete an Attribute with no context.
400513	The week day type specified is not valid.
400505	The container name is not valid and could not be mapped.
400547	Failed to register session on the RPMSESSION database.
400548	Session identifier is either invalid or has timed-out.
400545	The user type specified is not valid.
400544	There is no manager implemented for the specified container.
400500	Usage of the specified method is mandatory.

Table 122. Manager Error Codes (continued)

Codes	Descriptions
400524	An error occurred while creating an instance of the specified class.
400523	The zero argument constructor of the specified class is not public.
400522	The specified class does not have a zero argument constructor.
400549	A primary key must be provided in order to load the object.
400509	The containerName field is required for the specified method.
400551	The container cannot be created.
400550	The container cannot be deleted.
400510	The container cannot be loaded because its ID is <i>null</i> .
400501	Assignments can only be loaded using the parent object.
403500	The proficiency level specified does not exist.

Table 123. XPath Error Codes

Codes	Descriptions
400300	Invalid container or field name.
400301	The specified field is not associated to a valid container. An object name starting with a @ is interpreted as a field.
400306	The relationship specified does not exist for these containers.
400307	The relationship specified does not exist for these containers.
400305	The field name is required. An object name starting with a @ is interpreted as a field.
400308	The parent container is mandatory.
400302	Cannot perform a loadFromXPath on the specified field.
400304	Cannot perform a loadFromXPath on the specified container.
400303	Either a loadFromXPath cannot be performed on the specified field or the specified container does not contain this field.

Inherited Fields

N/A

Related Objects

- Result
- SingleResult
- ArrayResult

RPMObject

Description

Package: com.ibm.rpm.framework

Extends: N/A

Usage

RPMObject is an abstract class used to represent the majority of containers in the Rational Portfolio Manager Web Services API.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 124. RPMObject Field Description

Field	Detail
ID	<p>Type: string</p> <p>Default value: null</p> <p>Description: The unique ID of the RPMObject. If the value of this field is set to null, the save operation will generate the ID automatically when creating the RPMObject. If an ID is specified, then the save operation will attempt to update an existing RPMObject.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: RPMObject</p> <p>Default value: null</p> <p>Description: The parent of the RPMObject.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
deleted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: If the value of this field is set to <i>true</i>, then the RPMObject will be deleted when performing a save</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 124. RPMObject Field Description (continued)

Field	Detail
contextName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The context name identifies which section of the Web Services API the object belongs to. This value of this field is generated automatically when creating the RPMObject.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

SaveResult

Description

Package: com.ibm.rpm.framework

Extends: Result

Usage

SaveResult is the same as SingleResult. It has been kept for backward compatibility reasons.

Refer to section on “SingleResult” on page 341 for information.

ScheduleDate

Description

Package: com.ibm.rpm.framework.containers

Extends: RPMObject

Usage

ScheduleDate is an abstract class used to represent a start date, a finish date, duration, and a number of hours worked.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 125. ScheduleDate Field Description

Field	Detail
days	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: Number of days calculated from the durationInMinutes.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
durationInMinutes	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The duration of a scheduleDate.</p> <p>Field validation description: Must be greater than or equal to 0.</p> <p>Additional field security restrictions: N/A</p>
finishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The finish date of a scheduleDate. Calculated from the startDate and the durationInMinutes.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
hours	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: Number of hours calculated from the durationInMinutes.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 125. *ScheduleDate* Field Description (continued)

Field	Detail
startDate	Type: dateTime
	Default value: N/A
	Description: The start date of a scheduleDate.
	Field validation description: N/A
workHours	Additional field security restrictions: N/A
	Type: double
	Default value: N/A
	Description: Number of hours worked. This field is read-only.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `WbsScheduleDate`
- `ScopeScheduleDate`

SingleResult

Description

Package: com.ibm.rpm.framework

Extends: Result

Usage

SingleResult is used as the return type of many API methods. SingleResult encapsulates the resulting RPMObject and the exceptions that have been raised during the execution of a method.

Supported API Calls

Refer to section “Application Interface” on page 46 for details.

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 126. SingleResult Field Description

Field	Detail
rpmObject	Type: RPMObject Default value: N/A Description: The RPMObject returned by the method. This field is <i>null</i> if no object has been returned. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From Result

Related Objects

- Result

StatusUpdate (Not available with this release)

Description

Package: com.ibm.rpm.framework.containers

Extends: RPMObject

Usage

StatusUpdate is used to keep data related to a modification made to a checked out element.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 127. StatusUpdate Field Description

Field	Detail
changeBrief	Type: string Default value: N/A Description: Description of the modification. Field validation description: N/A Additional field security restrictions: N/A
dateTime	Type: dateTime Default value: N/A Description: Date of the modification. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
nameStep	Type: string Default value: N/A Description: Name of the modified object. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
operation	Type: string Default value: N/A Description: Name of the operation. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
revision	Type: string Default value: N/A Description: Version number. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `AbstractAggregateScope`
- `AbstractScopeTask`
- `Asset`
- `ClientCostCenter`
- `GenericDocument`
- `WorkElement`
- `DocumentElement`

AbstractModuleScope

Description

Package: `com.ibm.rpm.framework`

Extends: `RPMObjectScope`

Usage

`AbstractModuleScope` is the abstract base class for all module scopes in the Rational Portfolio Manager Web Services API

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 128. AbstractModuleScope Field Description

Field	Detail
<code>attributeCategories</code>	Type: <code>AttributeScope[]</code> Default value: <code>null</code> Description: The scope of the children attribute categories. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

RPMObjectScope

Description

Package: com.ibm.rpm.framework

Extends: N/A

Usage

RPMObjectScope is the abstract base class for all scopes in the Rational Portfolio Manager Web Services API.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

N/A

Related Objects

N/A

DateType

Description

Package: com.ibm.rpm.framework.types

Usage

DateType represents the different date types that are available in the application.

Values

The following table lists the values for this object.

Table 129. DateType Value Description

Value	Description
Actual	Indicates an actual date.
Forecasted	Indicates a forecasted date.
Planned	Indicates a planned date.
Proposed	Indicates a proposed date.

Related Objects

- TaskAssignment

PublishedType Description

Package: com.ibm.rpm.framework.types

Usage

PublishedType represents the type of publishing (where the item is published) in an object in the application.

Values

The following table lists the values for this object.

Table 130. PublishedType Value Description

Value	Detail
None	Indicates that an object is published to no one (none).
ToTeam	Indicates that an object is published to the team.
ToTemplate	Indicates that an object is published to a template.

Related Objects

- AbstractDocument
- AbstractScope
- WorkElement

SeverityLevel Description

Package: com.ibm.rpm.framework.types

Usage

SeverityLevel represents the severity level of an RPMException. It determines the behavior and result of the operation that raised the RPMException

Value

The following table lists the values for this object.

Table 131. SeverityLevel Value Description

Value	Description
Information	Indicates a situation that is normal but worth a notification.
Warning	Indicates a situation that is abnormal but not sufficient to make the operation fail. For instance, when the object being loaded refers to an object that no longer exists, in this case, the reference will be set to <i>null</i> and a <i>warning</i> will be added to the list.
Error	Indicates an error situation that will cause the operation to fail. For instance, many such errors can accumulate during the validation phase.
SevereError	Indicates a severe error situation that will cause the operation to fail and terminate immediately. Hence, if such an error occurs, of the error list, the error should be the last one to appear.
FatalError	Indicates a fatal (unrecoverable) error situation that will cause the Web service to stop. The caller might not even receive this error.

Related Objects

- RPMException

TimeUnitType

Description

Package: com.ibm.rpm.framework.types

Usage

TimeUnitType represents the type of object publishing in the application.

Values

The following table lists the values for this object.

Table 132. TimeUnitType Value Description

Value	Description
Days	Indicates the time unit for days.
Hours	Indicates the time unit for hours.

Related Objects

- ElementDependency

Resource

This section describes the objects and scope available in the Resource category of the Web Services API.

Education

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Education is used to represent the education background of a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 133. Education Field Description

Field	Details
organization	Type: string Default value: N/A Description: The name of the organization where the education was obtained. Field validation description: Limit 100 characters. Additional field security restrictions: N/A

Table 133. Education Field Description (continued)

Field	Details
degreeProgram	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The program or degree the resource obtained.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
specialization	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's specialization.</p> <p>Field validation description: Limit 100 characters.</p> <p>Additional field security restrictions: N/A</p>
certificationGraduateDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The graduation date of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/Adatetime</p>
appointedDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The appointed date of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/Adatetime</p>
honoursAwards	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: Honours and awards the resource has received.</p> <p>Field validation description: Limit 594 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

EmploymentHistory

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the previous employments of a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 134. EmploymentHistory Field Description

Field	Details
company	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the company where the resource was previously employed.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>

Table 134. EmploymentHistory Field Description (continued)

Field	Details
title	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The title of the resource.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The job description of the resource.</p> <p>Field validation description: Limit 220 characters.</p> <p>Additional field security restrictions: N/A</p>
salary	<p>Type: double</p> <p>Default value: 0</p> <p>Description: The salary of the resource.</p> <p>Field validation description: Value range is 0 to 999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
startDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The start date of employment.</p> <p>Field validation description: The startDate must be less than or equal to the endDate.</p> <p>Additional field security restrictions: N/A</p>
endDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The end date of employment.</p> <p>Field validation description: The startDate must be less than or equal to endDate.</p> <p>Additional field security restrictions: N/A</p>

Table 134. EmploymentHistory Field Description (continued)

Field	Details
location	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The location of employment.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>
responsibilities	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The job responsibilities of the resource.</p> <p>Field validation description: Limit 2040 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

IndustryExperience Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the industry experience information of a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 135. IndustryExperience Field Description

Field	Details
classification	Type: Classification Default value: N/A Description: The industry experience classification of the resource. Field validation description: N/A Additional field security restrictions: N/A
industry	Type: IndustryType Default value: N/A Description: The type of industry the resource belongs to. Field validation description: N/A Additional field security restrictions: N/A
proficiency	Type: ProficiencyLevel Default value: N/A Description: The proficiency level of the resource. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

LanguageProficiency Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the language proficiency level of a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 136. LanguageProficiency Field Description

Field	Details
readLevel	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The ability of the resource to read the language.</p> <p>Field validation description: The value range is 1 to 5.</p> <p>Additional field security restrictions: N/A</p>
writeLevel	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The ability of the resource to write the language.</p> <p>Field validation description: The value range is 1 to 5.</p> <p>Additional field security restrictions: N/A</p>
speakLevel	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The ability of the resource to speak the language.</p> <p>Field validation description: The value range is 1 to 5.</p> <p>Additional field security restrictions: N/A</p>

Table 136. LanguageProficiency Field Description (continued)

Field	Details
defaultLanguage	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: The value of this field is <i>true</i>, if the language is the resource's mother tongue, and is <i>false</i> if it is not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
language	<p>Type: Language</p> <p>Default value: N/A</p> <p>Description: The language.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

LocationPreferences

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

This object represents the location preferences in regards to a resource's relocation.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 137. LocationPreferences Field Description

Field	Details
acceptableRelocateDuration	Type: int Default value: N/A Description: The acceptable relocation duration for a resource. Field validation description: The value range is 0 to 9999. If the field willingtoRelocate is set to <i>false</i> , then this field must be set to <i>null</i> . Additional field security restrictions: N/A
acceptableTravelDuration	Type: int Default value: N/A Description: The acceptable travel duration for a resource. Field validation description: The value range is 0 to 9999. If the field willingtoTravel is set to <i>false</i> , then this field must be set to <i>null</i> . Additional field security restrictions: N/A
relocateLocations	Type: CitizenshipCountryCode[] Default value: N/A Description: The acceptable locations for a resource's relocation. Field validation description: Limit 3 locations. If the field willingtoRelocate is set to <i>false</i> , then this field must be set to <i>null</i> . Additional field security restrictions: N/A
travelLocations	Type: CitizenshipCountryCode[] Default value: N/A Description: The acceptable travel locations for a resource Field validation description: Limit 3 locations. If the field willingtoTravel is set to <i>false</i> , then this field must be set to <i>null</i> . Additional field security restrictions: N/A

Table 137. LocationPreferences Field Description (continued)

Field	Details
willingtonRelocate	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i>, if the resource is willing to relocate, and is <i>false</i> if the resource is not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
willingtonTravel	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i>, if the resource is willing to travel, and is <i>false</i> if the resource is not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

Passport

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Indicates if a resource has a valid passport, and if so, the list of visas which are held by the resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 138. Passport Field Description

Field	Details
hasValidPassport	Type: boolean Default value: N/A Description: This field is <i>true</i> , if the resource has a valid passport and is <i>false</i> if the resource does not. Field validation description: N/A Additional field security restrictions: N/A
visas	Type: Visa[] Default value: N/A Description: The list of visas which are held by the resource. Field validation description: Limit 3 visas. If the field hasValidPassport is set to <i>false</i> , then this field must be set to <i>null</i> . Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

Pool

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

A Resource Pool is a logical grouping of resources that can be grouped by similar competencies or geographical locations. Resource Pools are also used for matrix-oriented organizations which allow Resource Managers to manage resources across departmental boundaries.

Zero or many resources can be assigned to a Pool. When deleting a Pool all contained Resource objects are also deleted. If a Pool contains a Resource that has been assigned an effort, it cannot be deleted.

Parent is not mandatory, allowed parent type is Pool.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 139. Pool Field Description

Field	Details
address	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The address of the company.</p> <p>Field validation description: Limit 225 characters.</p> <p>Additional field security restrictions: N/A</p>
administrativeTaskAssignments	<p>Type: AdministrativeTaskAssignment[]</p> <p>Default value: N/A</p> <p>Description: The administrative tasks assigned to the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
attributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of AttributeAssignment keeps a pointer to an assigned PoolAttribute.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 139. Pool Field Description (continued)

Field	Details
clientCostCenter	<p>Type: ClientCostCenter</p> <p>Default value: N/A</p> <p>Description: The client/cost center that is assigned to the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
companyBackground	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The background of the company.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>
contactName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The contact name of the company.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the Pool.</p> <p>Field validation description: Limit 225 characters.</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: The documents that are associated to the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 139. Pool Field Description (continued)

Field	Details
domain	<p>Type: PoolDomain</p> <p>Default value: N/A</p> <p>Description: The domain of the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
email	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The e-mail address of the company contact.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
fax	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The fax number of the company contact.</p> <p>Field validation description: Limit 25 characters.</p> <p>Additional field security restrictions: N/A</p>
industriesServed	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The industries that the Pool serves.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>
locationsServed	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The locations that are served by the Pool.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 139. Pool Field Description (continued)

Field	Details
maskEmployeeInfo	<p>Type: boolean</p> <p>Default value: true</p> <p>Description: If this field is <i>true</i>, the Employee Code of Resources belonging to this Pool is hidden and cannot be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
name	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the pool.</p> <p>Field validation description: Limit 50 characters. The following special characters are not to be included in the value of the field name: " , %, (,) , * , / , : , < , > , ? , \ , , €. </p> <p>Additional field security restrictions: N/A</p>
organizationName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the organization.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
ownership	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The ownership of the Pool.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>
pools	<p>Type: Pool[]</p> <p>Default value: N/A</p> <p>Description: List of children Pool.</p> <p>Field validation description: This value must be <i>null</i> if the Pool is the 28th nested Pool in the hierarchy.</p> <p>Additional field security restrictions: N/A</p>

Table 139. Pool Field Description (continued)

Field	Details
productsExpertiseUsed	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: A highlight of the major projects and product expertise that are used by the resources belonging to the Pool.</p> <p>Field validation description: Limit 2048 characters</p> <p>Additional field security restrictions: N/A</p>
publish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: If the field is <i>true</i>, the pool is published and all users who have Staff Acquisition access can search against the resources in the Pool. If the field is <i>false</i>, the pool is available only to the pool participants.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceAssignments	<p>Type: ResourceRoleAssignment[]</p> <p>Default value: N/A</p> <p>Description: Used to identify and assign pool management resources. Allows management resources to view, search, and assign from the pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resources	<p>Type: Resource[]</p> <p>Default value: N/A</p> <p>Description: The resources in the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
securityGroup	<p>Type: SecurityGroup</p> <p>Default value: N/A</p> <p>Description: The security group of the Pool.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 139. Pool Field Description (continued)

Field	Details
servicesOffered	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The services offered by the Pool.</p> <p>Field validation description: Limit 2048 characters</p> <p>Additional field security restrictions: N/A</p>
servicesSpecialized	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The services in which the Pool specializes.</p> <p>Field validation description: Limit 2048 characters</p> <p>Additional field security restrictions: N/A</p>
telephone	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The telephone number of the company contact</p> <p>Field validation description: Limit 25 characters</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- PoolScope

PoolModule

Description

Package: com.ibm.rpm.resource.containers

Extends: AbstractModule

Usage

This module class is used to load all the relevant containers related to Pool.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 140. PoolModule Field Description

Field	Detail
attributeCategories	Type: AttributeCategory[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
companySizes	Type: CompanySize[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
poolDomains	Type: PoolDomain[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
pools	Type: Pool[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

PoolReference

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the reference of a Pool.

Parent is mandatory, allowed parent type is Pool.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 141. PoolReference Field Description

Field	Details
companySize	Type: CompanySize
	Default value: N/A
	Description: The size of the organization.
	Field validation description: N/A
contactEmail	Additional field security restrictions: N/A
	Type: string
	Default value: N/A
	Description: The e-mail address of the reference.
	Field validation description: Limit 50 characters.
	Additional field security restrictions: N/A

Table 141. PoolReference Field Description (continued)

Field	Details
companySize	Type: CompanySize Default value: N/A Description: The size of the organization. Field validation description: N/A Additional field security restrictions: N/A
contactFax	Type: string Default value: N/A Description: The fax number of the reference. Field validation description: Limit 25 characters. Additional field security restrictions: N/A
contactName	Type: string Default value: N/A Description: The name of the reference. Field validation description: Limit 50 characters. Additional field security restrictions: N/A
contactTelephone	Type: dateTime Default value: N/A Description: The telephone number of the reference. Field validation description: Limit 25 characters. Additional field security restrictions: N/A
organizationFax	Type: string Default value: N/A Description: The organization fax number of the reference. Field validation description: Limit 25 characters. Additional field security restrictions: N/A

Table 141. PoolReference Field Description (continued)

Field	Details
companySize	<p>Type: CompanySize</p> <p>Default value: N/A</p> <p>Description: The size of the organization.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
organizationName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The organization name of the reference.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
organizationTelephone	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The organization telephone number of the reference.</p> <p>Field validation description: Limit 25 characters.</p> <p>Additional field security restrictions: N/A</p>
organizationWebsite	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The organization website of the reference.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Pool

ProjectHistory

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

This object represents the project history of a resource.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 142. ProjectHistory Field Description

Field	Details
client	Type: string Default value: N/A Description: The client of the project. Field validation description: Limit 100 characters. Additional field security restrictions: N/A
description	Type: string Default value: N/A Description: The project description. Field validation description: Limit 1020 characters. Additional field security restrictions: N/A

Table 142. ProjectHistory Field Description (continued)

Field	Details
startDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The start date of the project.</p> <p>Field validation description: The field startDate must be less than, or equal to the field endDate.</p> <p>Additional field security restrictions: N/A</p>
endDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The end date of the project.</p> <p>Field validation description: The field startDate must be less than, or equal to the field endDate.</p> <p>Additional field security restrictions: N/A</p>
projectLength	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The length of the project.</p> <p>Field validation description: Limit100 characters.</p> <p>Additional field security restrictions: N/A</p>
timeSpent	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The amount of time spent on the project.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
classification	<p>Type: Classification</p> <p>Default value: N/A</p> <p>Description: The classification of the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 142. ProjectHistory Field Description (continued)

Field	Details
industry	<p>Type: IndustryType</p> <p>Default value: N/A</p> <p>Description: The industry type.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
role	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The role of the resource in the project.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
skillsResponsibilities	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's skills and responsibilities in the project.</p> <p>Field validation description: Limit 1020 characters.</p> <p>Additional field security restrictions: N/A</p>
projectname	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the project.</p> <p>Field validation description: Limit 100 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

Resource

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

A Resource can include as little or as much information as required to identify a resource and assign them to projects. However, the minimum information required to allow a resource to logon to IBM Rational Portfolio Manager, and to assign resources to projects are Username, Password, Resource Calendar, and Effective Start Date.

Parent is mandatory, allowed parent type is Pool.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 143. Resource Field Description

Field	Details
active	Type: boolean Default value: true Description: This field is <i>true</i> if the resource is active, and is <i>false</i> if the resource is not. For the resource to be allowed to log on to IBM Rational Portfolio Manager, this value must be set to <i>true</i> . Field validation description: N/A Additional field security restrictions: N/A

Table 143. Resource Field Description (continued)

Field	Details
address1	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The first address line of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
address2	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The second address line of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
alternativePhone	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The alternative phone number of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
calendar	<p>Type: RPMCalendar</p> <p>Default value: N/A</p> <p>Description: The calendar of the resource. For the resource to be allowed to logon to IBM Rational Portfolio Manager, this value must be specified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
companyCode	<p>Type: : string</p> <p>Default value: N/A</p> <p>Description: The company code of the resource.</p> <p>Field validation description: Limit 10 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
competencyAttributeAssignments	<p>Type: ResourceAttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of ResourceAttributeAssignment keeps a pointer to an assigned AttributeAssignment for competency.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
contactGroupAssignments	<p>Type: ContactGroupAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of ContactGroupAssignment keeps a pointer to an associated ContactGroup.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
countryCode	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The country code of the resource</p> <p>Field validation description: Limit 10 characters</p> <p>Additional field security restrictions: N/A</p>
currency	<p>Type: Currency</p> <p>Default value: The default currency selected when the IBM Rational Portfolio Manager client is first configured by the administrator.</p> <p>Description: The currency in which the resource's rates are entered.</p> <p>Field validation description: Not <i>null</i></p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
custom1	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: An employee information field. The field name is configured through the Application Administration ResourceCustomFields class. The member name is '1', and the member value is the field name that is displayed.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
custom2	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: This field is an employee information field. The field name is configured through the Application Administration ResourceCustomFields class. The member name is '2', and the member value is the field name that is displayed.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
custom3	<p>Type: custom3</p> <p>Default value: N/A</p> <p>Description: This field is an employee information field. The field name is configured through the Application Administration ResourceCustomFields class. The member name is '3', and the member value is the field name that is displayed.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
custom4	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: This field is an employee information field. The field name is configured through the Application Administration ResourceCustomFields class. The member name is '4', and the member value is the field name that is displayed.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
custom5	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: This field is an employee information field. The field name is configured through the Application Administration ResourceCustomFields class. The member name is '5' and the member value is the field name that is displayed.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: CustomFieldAssignment[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
dashboard	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The dashboard for the resource.</p> <p>Field validation description: Limit 2048 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
departmentCode	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The department code of the resource.</p> <p>Field validation description: Limit 10 characters.</p> <p>Additional field security restrictions: N/A</p>
discontinueDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The discontinued employment date of a resource.</p> <p>Field validation description: The field effectiveStartDate must be less than or equal to the field discontinueDate.</p> <p>Additional field security restrictions: N/A</p>
divisionCode	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The division code of the resource.</p> <p>Field validation description: Limit 10 characters.</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: The documents that belong to the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
educations	<p>Type: Education[]</p> <p>Default value: N/A</p> <p>Description: The resource's education.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
effectiveStartDate	<p>Type: dateTime</p> <p>Default value: The present date</p> <p>Description: The effective start date of the resource. In order for the resource to be allowed to logon to IBM Rational Portfolio Manager, this value must be set to a date equal, or less than, the current date.</p> <p>Field validation description: The field effectiveStartDate must be less than or equal to the field discontinueDate.</p> <p>Additional field security restrictions: N/A</p>
emailAddress	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The e-mail address of the resource.</p> <p>Field validation description: Limit 100 characters.</p> <p>Additional field security restrictions: N/A</p>
employeeCode	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The employee code of the resource.</p> <p>Field validation description: Limit 10 characters</p> <p>Additional field security restrictions: If the parent pool's maskEmployeeInfo member value is set to <i>true</i>, then the employeeCode field is hidden and cannot be modified.</p>
employeeStatus	<p>Type: EmployeeStatus</p> <p>Default value: N/A</p> <p>Description: The status of the employee.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
employmentHistories	<p>Type: EmploymentHistory[]</p> <p>Default value: N/A</p> <p>Description: The employment history of a resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
executiveAttributeClassifications	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A Description: Each instance of AttributeClassificationAssignment keeps a pointer to the assigned AttributeClassification for executive attribute classification.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
executiveAttributes	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of AttributeAssignment keeps a pointer to the assigned Attribute.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
executiveRole	<p>Type: ProjectSecurityRole</p> <p>Default value: N/A</p> <p>Description: The security role of a resource on a project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
experience	<p>Type: Experience</p> <p>Default value: The member value of the Application Administration Experience class whose member name is '7'.</p> <p>Description: The experience level of a resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
externalID	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The external identifier of a resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
familyName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The family name of the resource.</p> <p>Field validation description: Limit 35 characters.</p> <p>Additional field security restrictions: N/A</p>
fax	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The fax number of the resource.</p> <p>Field validation description: Limit 17 characters.</p> <p>Additional field security restrictions: N/A</p>
fullName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The full name of the resource.</p> <p>Field validation description: Limit 35 characters. The following special characters are not to be included in the value of fullName: " , % , (,) , * , / , : , < , > , ? , \ , , € .</p> <p>Additional field security restrictions: N/A</p>
geographicalAssignment	<p>Type: GeographicalAssignment</p> <p>Default value: N/A</p> <p>Description: The resource's assignment to a geographical position.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
givenName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's given name.</p> <p>Field validation description: Limit 35 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
homePhone	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The home phone number of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
industryExperiences	<p>Type: IndustryExperience[]</p> <p>Default value: N/A</p> <p>Description: The industry experience of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
interviewExperience	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's experience as described during an interview.</p> <p>Field validation description: Limit 512 characters.</p> <p>Additional field security restrictions: N/A</p>
languageProficiencies	<p>Type: LanguageProficiency[]</p> <p>Default value: N/A</p> <p>Description: The known languages and proficiency levels of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
locationPreferences	<p>Type: LocationPreferences</p> <p>Default value: N/A</p> <p>Description: The location preferences of a resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
logonReminder	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's logon reminder.</p> <p>Field validation description: Limit 64 characters.</p> <p>Additional field security restrictions: N/A</p>
middleName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The middle name of the resource.</p> <p>Field validation description: Limit 35 characters.</p> <p>Additional field security restrictions: N/A</p>
mobile	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The mobile number of the resource.</p> <p>Field validation description: Limit 17 characters.</p> <p>Additional field security restrictions: N/A</p>
myAchievements	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's achievements as described during an interview.</p> <p>Field validation description: Limit 512 characters.</p> <p>Additional field security restrictions: N/A</p>
myPersonalPassions	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's personal passions as described during an interview.</p> <p>Field validation description: Limit 512 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
myPortalURLs	<p>Type: string[]</p> <p>Default value: N/A</p> <p>Description: The URLs displayed to the resource when in IBM Rational Portfolio Manager's My Portal window.</p> <p>Field validation description: Limit 5 strings. Each string is limited to 255 characters.</p> <p>Additional field security restrictions: N/A</p>
mySummaryOfSkills	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The skills of a resource as described during an interview.</p> <p>Field validation description: Limit 512 characters.</p> <p>Additional field security restrictions: N/A</p>
myWebsite	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The web site of the resource.</p> <p>Field validation description: Limit 100 characters.</p> <p>Additional field security restrictions: N/A</p>
nickName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The nick name of the resource.</p> <p>Field validation description: Limit 35 characters. The following special characters are not to be included in the value of nickName: " , % , (,) , * , / , : , < , > , ? , \ , , € .</p> <p>Additional field security restrictions: N/A</p>
organizationalAssignment	<p>Type: OrganizationalAssignment</p> <p>Default value: N/A</p> <p>Description: The resource's assignment to an organizational.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
<code>overrideOriginalDocumentOnCheckout</code>	<p>Type: boolean</p> <p>Default value: <i>true</i></p> <p>Description: This field is <i>true</i> if the system should override the original document of a resource on a checkout, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
<code>pager</code>	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The pager number of the resource.</p> <p>Field validation description: Limit 17 characters.</p> <p>Additional field security restrictions: N/A</p>
<code>passport</code>	<p>Type: Passport</p> <p>Default value: N/A</p> <p>Description: The passport and visa information of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
<code>password</code>	<p>Type: string</p> <p>Default value: ibmrpm</p> <p>Description: The password for the resource. In order for the resource to be allowed to logon to IBM Rational Portfolio Manager, this value must be specified.</p> <p>Field validation description: Limit 16 characters.</p> <p>Additional field security restrictions: N/A</p>
<code>projectHistories</code>	<p>Type: ProjectHistory[]</p> <p>Default value: N/A</p> <p>Description: The project history of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
rates	<p>Type: ResourceRates</p> <p>Default value: N/A</p> <p>Description: The rates of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceCostCenterAssignments	<p>Type: ResourceCostCenterAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of ClientCostCenterAssignment keeps a pointer to the assigned ResourceCostCenter.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceSecurityRights	<p>Type: ResourceSecurityRights</p> <p>Default value: N/A</p> <p>Description: The security rights of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceTimesheetTaskAssignment	<p>Type: ResourceTimesheetTaskAssignment</p> <p>Default value: N/A</p> <p>Description:The resourceTimesheetTaskAssignment keeps a pointer to all assigned TimesheetTask for this resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
reVerifiedBy	<p>Type: Resource</p> <p>Default value: N/A</p> <p>Description: Is the Resource ID of the Resource Manager or Project manager that has re-verified the resource's personal information.</p> <p>Field validation description: If the field reVerified is <i>false</i>, the value of this field must be <i>null</i>.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
securityGroup	<p>Type: SecurityGroup</p> <p>Default value: N/A</p> <p>Description: The security role of the resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
skillAttributeAssignments	<p>Type: ResourceAttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of ResourceAttributeAssignment keeps a pointer to an assigned AttributeAssignment for skills.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
title	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The title of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
title	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The title of the resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
userName	<p>Type: string</p> <p>Default value: A unique random number.</p> <p>Description: The user name of the resource. In order for the resource to have permission to logon to IBM Rational Portfolio Manager, this value must be specified.</p> <p>Field validation description: Limit 50 characters. Must be a unique, non-empty string. The following special characters are not to be included in the value of userName: " , % , (,) , * , / , : , < , > , ? , \ , , € . This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
verifiedBy	<p>Type: Resource</p> <p>Default value: N/A</p> <p>Description: The Resource Manager or Project Manager that has verified the resource's personal information.</p> <p>Field validation description: If the field Verified is <i>false</i>, the value of this field must be <i>null</i>.</p> <p>Additional field security restrictions: N/A</p>
weeklyMaxHours	<p>Type: int</p> <p>Default value: 40</p> <p>Description: The maximum amount of hours that can be billed by the resource.</p> <p>Field validation description: The value range is 0 to 9999.</p> <p>Additional field security restrictions: N/A</p>
weeklyMinHours	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The minimum amount of hours that can be billed by the resource.</p> <p>Field validation description: The value range is 0 to 9999.</p> <p>Additional field security restrictions: N/A</p>
whatIDoReallyWell	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The resource's superior abilities, as described during an interview.</p> <p>Field validation description: Limit 512 characters</p> <p>Additional field security restrictions: N/A</p>
workingStatus	<p>Type: WorkingStatus</p> <p>Default value: N/A</p> <p>Description: The resource's working status.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 143. Resource Field Description (continued)

Field	Details
workLocation	<p>Type: WorkLocation</p> <p>Default value: The member value of the Application Administration WorkLocation class whose member name is '1'.</p> <p>Description: The location at which the resource works.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workPackages	<p>Type: Portfolio[]</p> <p>Default value: N/A</p> <p>Description: The published work packages of a resource.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workPhone	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The work phone number of a resource.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
zipPostalCode	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The zip or postal code of a resource.</p> <p>Field validation description: Limit 16 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ResourceAttribute

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents attribute information for a resource's competencies and skills.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 144. ResourceAttribute Field Description

Field	Details
name	Type: string Default value: N/A Description: The name of the resource attribute. Field validation description: Limit 50 characters. Additional field security restrictions: N/A

Inherited Objects

N/A

Related Objects

- Resource

ResourceAttributeAssignment

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the assignment of a ResourceAttributeProficiencyLevel (ResourceAttributeCompetencyProficiencyLevel or ResourceAttributeSkillProficiencyLevel) to a resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 145. ResourceAttributeAssignment Field Description

Field	Details
rates	Type: ResourceRates Default value: N/A Description: The resource rates associated to the proficiency level. Field validation description: N/A Additional field security restrictions: N/A
acquiredOn	Type: dateTime Default value: N/A Description: The date on which a resource acquired the proficiency level. Field validation description: N/A Additional field security restrictions: N/A

Table 145. ResourceAttributeAssignment Field Description (continued)

Field	Details
defaultFlag	<p>Type: int</p> <p>Default value: 0</p> <p>Description: This field's value is set to 1 if this competency is the resource's default, and is set to 0 if it is not. Only one competency can be attributed the defaultFlag value 1 at a time. When a new competency is added with the defaultFlag value set to 1, the previous competency or skill that had its value set to 1, gets its value set to the default value 0. A default competency must always exist.</p> <p>Field validation description: The value must be 0 or 1. Only one competency can be set as default.</p> <p>Additional field security restrictions: N/A</p>
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: Notes regarding a resource's acquisition of the proficiency level.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
lastUsedDateTime	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The date the resource last used the proficiency level.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
lastUsedLocation	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The location the proficiency level was last used.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 145. ResourceAttributeAssignment Field Description (continued)

Field	Details
mandatory	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The value of this field is 1 if the proficiency level is mandatory, and is 0 or null if otherwise.</p> <p>Field validation description: This field is restricted to 1, 0, or null.</p> <p>Additional field security restrictions: N/A</p>
mandatoryDetails	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: Details regarding the mandatory or non-mandatory status of the proficiency level.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>
strategicFlag	<p>Type: string</p> <p>Default value: "0"</p> <p>Description: This field's value is 1 if this resource attribute is strategic. A resource can have only one strategic competency. Resources are assigned to projects or tasks, based on these strategic competencies. This setting is used in the Portfolio Viewer to assist in the analysis of alignment between resources and projects.</p> <p>Field validation description: The value must be "0" or "1".</p> <p>Additional field security restrictions: N/A</p>
targetAttainmentDate	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The date targeted by the resource to attain the proficiency level.</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 145. ResourceAttributeAssignment Field Description (continued)

Field	Details
proficiencyLevel	<p>Type: ResourceAttributeProficiencyLevel</p> <p>Default value: N/A</p> <p>Description: The proficiency level attribute assigned to the resource.</p> <p>Field validation description: Limit 50 characters. This field is mandatory</p> <p>Additional field security restrictions: N/A</p>
experience	<p>Type: Experience</p> <p>Default value: The member value of the Application Administration Experience class whose member name is "7".</p> <p>Description: The experience associated with the attribute proficiency level.</p> <p>Field validation description: Limit 50 characters. This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>
preferenceRank	<p>Type: PreferenceRank</p> <p>Default value: The member value of the Application Administration PreferenceRank class whose member name is "5".</p> <p>Description: The preference rank associated with the attribute proficiency level.</p> <p>Field validation description: This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObjectA

Related Objects

- Resource
- ResourceScope
- ResourceAttributeAssignment
- ResourceAttributeCompetencyCategory
- ResourceAttributeCompetencyClassification
- ResourceAttributeCompetency
- ResourceAttributeCompetencyProficiencyLevel
- ResourceAttributeSkillCategory
- ResourceAttributeSkillClassification

- ResourceAttributeSkill
- ResourceAttributeSkillProficiencyLevel

ResourceAttributeCompetency

Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttribute

Usage

Represents a competency, specifically, the third level in the competency tree structure. A ResourceAttributeCompetency may only have children of type ResourceAttributeCompetencyProficiencyLevel. Saving a competency will save all of its children and deleting a competency will delete all of them.

Parent is mandatory. Allowed parent type is ResourceAttributeCompetencyClassification.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 146. ResourceAttributeCompetency Field Description

Field	Details
proficiencyLevels	<p>Type: ResourceAttributeCompetencyProficiencyLevel[]</p> <p>Default value: N/A</p> <p>Description: The children ResourceAttributeCompetencyProficiencyLevel objects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `Resource`

ResourceAttributeCompetencyCategory

Description

Package: `com.ibm.rpm.resource.containers`

Extends: `ResourceAttribute`

Usage

Represents a competency category, specifically, the highest level in the competency tree structure. A `ResourceAttributeCompetencyCategory` may only have children of type `ResourceAttributeCompetencyClassification`. Saving a competency category will save all of its children and deleting a competency category will delete all of them.

Parent must be set to *null*.

Supported API Calls

- `save`
- `loadFromArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 147. ResourceAttributeCompetencyCategory Field Description

Field	Details
<code>classifications</code>	<p>Type: <code>ResourceAttributeCompetencyClassification[]</code></p> <p>Default value: N/A</p> <p>Description: The children <code>ResourceAttributeCompetencyClassification</code> objects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `Resource`

ResourceAttributeCompetencyClassification

Description

Package: `com.ibm.rpm.resource.containers`

Extends: `ResourceAttribute`

Usage

Represents a competency classification, specifically, the second level in the skill tree structure. A `ResourceAttributeCompetencyClassification` may only have children of type `ResourceAttributeCompetency`. Saving an instance of `ResourceAttributeCompetencyClassification` will save all of its children and deleting an instance of `ResourceAttributeCompetencyClassification` will delete all of them.

Parent is mandatory, allowed parent type is `ResourceAttributeCompetencyCategory`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 148. ResourceAttributeCompetencyClassification Field Description

Field	Details
Attributes	Type: ResourceAttributeCompetency[] Default value: N/A Description: The children ResourceAttributeCompetency objects. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ResourceAttributeCompetencyProficiencyLevel Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttributeProficiencyLevel

Usage

Represents a competency proficiency level, the fourth (and last) level in the competency tree structure. A ResourceAttributeCompetencyProficiencyLevel must be associated with an existing ProficiencyLevel.

Parent is mandatory, allowed parent type is ResourceAttributeCompetency.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 149. ResourceAttributeCompetencyProficiencyLevel Field Description

Field	Details
proficiencyLevel	Type: ProficiencyLevel Default value: N/A Description: The related ProficiencyLevel Field validation description: Not <i>null</i> Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource
- ResourceAttribute

ResourceAttributeProficiencyLevel Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttribute

Usage

Represents a proficiency level, the fourth (last) level in both the skill tree structure and the competency tree structure.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 150. ResourceAttributeProficiencyLevel Field Description

Field	Details
rates	Type: ResourceRates Default value: N/A Description: The rates associated to the proficiency level. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource
- ResourceAttribute
- ResourceAttributeCompetencyProficiencyLevel
- ResourceAttributeSkillProficiencyLevel

ResourceAttributeSkill

Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttribute

Usage

Represents a skill, the third level in the skill tree structure. A ResourceAttributeSkill can only have children of type ResourceAttributeSkillProficiencyLevel. Saving a skill will save all of its children and deleting a skill will delete all of them.

Parent is mandatory, allowed parent type is ResourceAttributeSkillClassification.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 151. ResourceAttributeSkill Field Description

Field	Details
proficiencyLevels	<p>Type: ResourceAttributeSkillProficiencyLevel[]</p> <p>Default value: N/A</p> <p>Description: The children ResourceAttributeSkillProficiencyLevel objects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource
- ResourceAttribute
- ResourceAttributeSkillProficiencyLevel

ResourceAttributeSkillCategory Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttribute

Usage

Represents a skill category, the highest level in the skill tree structure. A ResourceAttributeSkillCategory can only have children of type ResourceAttributeSkillClassification. Saving a skill category will save all of its children and deleting a skill category will delete all of them.

Parent must be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 152. ResourceAttributeSkillCategory Field Description

Field	Details
classifications	Type: ResourceAttributeSkillClassification[] Default value: N/A Description: The children ResourceAttributeSkillClassification objects. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ResourceAttributeSkillClassification Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttribute

Usage

Represents a skill classification, the second level in the skill tree structure. A ResourceAttributeSkillClassification can only have children of type ResourceAttributeSkill. Saving an instance of ResourceAttributeSkillClassification will save all of its children and deleting an instance of ResourceAttributeSkillClassification will delete all them.

Parent is mandatory, allowed parent type is ResourceAttributeSkillCategory.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 153. ResourceAttributeSkillClassification Field Description

Field	Details
Attributes	Type: ResourceAttributeSkill[] Default value: N/A Description: The children ResourceAttributeSkill objects. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ResourceAttributeSkillProficiencyLevel Description

Package: com.ibm.rpm.resource.containers

Extends: ResourceAttributeProficiencyLevel

Usage

Represents a skill proficiency level, the fourth and last level in the skill tree structure. A ResourceAttributeSkillProficiencyLevel must be associated with an existing ProficiencyLevel.

Parent is mandatory, allowed parent type is ResourceAttributeSkill.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 154. ResourceAttributeSkillProficiencyLevel Field Description

Field	Detail
competencySkill	Type: ProficiencyLevel Default value: N/A Description: The related ProficiencyLevel. Field validation description: Not <i>null</i> Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ResourceCostCenterAssignment Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the assignment of a ClientCostCenter to a Resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 155. ResourceCostCenterAssignment Field Description

Field	Detail
startDate	Type: dateTime Default value: N/A Description: The date at which the assignment starts. Field validation description: N/A Additional field security restrictions: N/A
finishDate	Type: dateTime Default value: N/A Description: The date at which the assignment ends. Field validation description: N/A Additional field security restrictions: N/A
clientCostCenter	Type: clientCostCenter Default value: N/A Description: The client cost center to which the resource is assigned to. Field validation description: N/A Additional field security restrictions: N/A

Inherited Objects

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource
- ClientCostCenter

ResourceModule Description

Package: com.ibm.rpm.resource.containers

Extends: AbstractModule

Usage

This module class is used to load all the relevant containers related to Resource

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

Table 156. ResourceModule Field Description

Field	Detail
citizenshipCountryCodes	Type: CitizenshipCountryCode[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
classifications	Type: Classification[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
contactGroups	Type: ContactGroup[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
customFieldCategories	Type: CustomFieldCategory[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
employeeStatus	Type: EmployeeStatus[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Table 156. ResourceModule Field Description (continued)

Field	Detail
experiences	<p>Type: Experience[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
industryTypes	<p>Type: IndustryType[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
languages	<p>Type: Language[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
preferenceRanks	<p>Type: PreferenceRank[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
proficiencyLevels	<p>Type: ProficiencyLevel[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceAttributeCompetencyCategories	<p>Type: ResourceAttributeCompetencyCategory[]</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 156. ResourceModule Field Description (continued)

Field	Detail
resourceAttributeSkillCategories	Type: ResourceAttributeSkillCategory[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
workingStatus	Type: WorkingStatus[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
workLocations	Type: WorkLocation[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ResourceRates

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the rate information of a resource.

Parent is mandatory, allowed parent types are Resource, ResourceAttributeAssignment, and ResourceAttributeProficiencyLevel.

Supported API Calls

- save
- loadArrayFromID

- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

Table 157. ResourceRates Field Description

Field	Detail
regularCostPerHour	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The regular hourly cost of a resource.</p> <p>Field validation description: The value range is 0.00 to 99,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
sellingRatePerHour	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The resource's hourly selling rate.</p> <p>Field validation description: The value range is 0.00 to 99,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
specialCostPerHour	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The hourly special cost of a resource.</p> <p>Field validation description: The value range is 0.00 to 99,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
specialSellingCostPerHour	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The hourly special selling cost of a resource.</p> <p>Field validation description: The value range is 0.00 to 99,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `Resource`
- `ResourceAttributeAssignment`
- `ResourceAttributeProficiencyLevel`

ResourceRoleAssignment

Description

Package: `com.ibm.rpm.resource.containers`

Extends: `SecurityRoleAssignment`

Usage

Associates a resource's assignment to a pool, a Work Element, or a Document with a security role.

Parent is mandatory, allowed parent type are `Pool`, `ScopeElement`, and `DocumentElement`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

Note: This API object cannot be used with this release due to dependencies on objects that have not yet been implemented in the Security handling module.

Fields

Table 158. ResourceRoleAssignment Field Description

Field	Detail
<code>resource</code>	Type: <code>Resource</code>
	Default value: N/A
	Description: The resource
	Field validation description: Not null
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `SecurityRoleAssignment`

Related Objects

- `Resource`
- `ResourceTaskAssignment`
- `WorkElement`
- `Pool`
- `GenericDocument`

ResourceSecurityRights

Description

Package: `com.ibm.rpm.resource.containers`

Extends: `RPMObject`

Usage

This object represents all the security rights for a single resource.

Parent is mandatory, allowed parent type is `Resource`.

Supported API Calls

- `save`
- `loadFromArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

Note: This API object is not implemented in this release.

Fields

The following table lists the fields for this object.

Table 159. ResourceSecurityRights Field Description

Field	Detail
canAccessAssetManagement	Type: boolean Default value: N/A Description: Provides access to the Asset management view. Field validation description: N/A Additional field security restrictions: N/A
canAccessPersonalProject	Type: boolean Default value: N/A Description: Allows resources to view their personal administration project. Field validation description: N/A Additional field security restrictions: N/A
canAccessPjC	Type: boolean Default value: N/A Description: Provides the ability to access the PJC. Field validation description: N/A Additional field security restrictions: N/A
canAccessPortfolioDashboard	Type: boolean Default value: N/A Description: Provides the ability to access the portfolio dashboard. Field validation description: N/A Additional field security restrictions: N/A
canAdministerFinancialSystem	Type: boolean Default value: N/A Description: Allows the resource to synchronize data with the financial system (IBM only). Field validation description: N/A Additional field security restrictions: N/A

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canAdoptWhatIfAnalysis	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to adopt "What If " Scenarios.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canConvertProjectToOrganization	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Enables the resource to convert a project to an organization.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateClientCostCenterDivisionFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create a client/cost center and folder structure for client chargebacks and contributions.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateContractsAndFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Enables the resource to create contracts and folders.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDeleteAssetsAndFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create and delete assets and asset folders.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canCreateDocumentTemplate	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create document templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateEmptyProjects	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the creation of projects without forcing the resource to use a template. If the resource is a project manager, this setting is used in conjunction with template settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateFromWBSTemplate	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create any element from a template.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateProjectsFromDefault	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: One project template can be defined as the Default Project. This setting allows the project manager to create projects based on the default.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateProjectsFromWBSTemplate	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create projects from templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canCreateResourcePools	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The Create Resource Pools security setting allow a resource the ability to create Resource Pools.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateResources	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The Create Resources security setting allow a resource the ability to add Resources to Resource Pools.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateScopeTemplates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create scope templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteAssetsAndFoldersFromOthers	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to delete assets and asset folders created by other asset managers.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteClientCostCenterDivisionFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to delete clients/cost centers and folders from the structure.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canDeleteContractsAndFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Enables the resource to delete contracts and folders.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteProjects	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Controls the ability to delete projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteResourcePools	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The Delete Resource Pools security setting allows a resource the ability to delete Resource Pools.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteResources	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The Delete Resources security setting allows a resource the ability to remove Resources from Resource Pools.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDesignReport	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Enables a resource to design reports.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canDMWBSTemplateFolderAndLinks	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to modify or delete template folders and links.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAccountCodes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit charge code structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributeAdmin	<p>Type: boolean</p> <p>Default value: boolean</p> <p>Description: Provides the ability to manage the general settings tab.</p> <p>Field validation description: boolean</p> <p>Additional field security restrictions: boolean</p>
canEditCalendarAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the system base calendar settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientCostCenterDivisionFolderNames	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to edit client/cost center division and folder names.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditContractsAndFolderNames	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to rename the contract and folder.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditContractsAndFolders	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to edit contracts and folders.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditCurrencyExchangesRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the currency exchange rates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatafieldAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the data fields settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultResourceSecurity	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit the default resource security settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalIdentifier	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This right allows the resource to edit external identifiers.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditFinancialAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the financial settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditGeneralAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the general settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationGeographies	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit Geographical structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationGroups	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit group structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationOrganizations	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit Organizational structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationPoolDomains	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit Pool Domain structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditPersonalAddress	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal address.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalBackground	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal background.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalCalendar	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal calendar.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal competency, skill costs, and selling rates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalCompetencySkills	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal competencies and skills.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditPersonalDocuments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal documents.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal effective start and discontinue date.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalExecutiveAttributes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their executive attributes.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalInformation	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their name.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalNickName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their nick name.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditPersonalOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal location information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalPassword	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal password.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal rates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalSettings	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal settings, which include, up to five custom web sites.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalUserNameEmail	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit their personal username and e-mail address.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditPoolNames	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The Edit Pool Name security setting allows a resource the ability to edit Resource Pool names.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceAddress	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the address of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceAttributeAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the general settings tab.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceBackground	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the background information of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceCalendar	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the personal calendar of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditResourceCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the competency and skill cost and selling rates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceCompetencySkills	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the competencies and skills of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceDocuments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the documents of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the effective start dates and end dates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceExecutiveAccessLevel	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the executive access level of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditResourceExecutiveAttributes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the executive attributes of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceFullName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the full names of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceInformation	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the personal information of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the names of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceNickName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the nick names of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the locations of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditResourcePassword	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the passwords of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the rates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceSecurity	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the security settings of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceSettings	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the settings of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceUserNameEmail	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to edit the usernames and e-mail addresses of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canEditScorecardAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the system attribute settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimeCodes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit Time Code structures.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSecurity	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to edit the role-based assignments security settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWorkflowAdmin	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage the workflow settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canManageArchivedProjects	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to manage archived projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAlertMessages	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to modify the contents of auto-generated system alerts.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canModifyFlagDeleteMandatoryTask	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Enables the resource to flag or delete a mandatory task.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishLocalWBSTemplates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to create and publish templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishToMethodWBSTemplates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Provides the ability to publish methodologies.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewCommunications	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Having this right allows the resource to view Communications modules.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDocuments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The View Documents security right provides read-only rights to documents attached to Project elements.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewDocumentTemplate	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows resources to view document templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExpenses	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Having this right allows the resource to view Expense Management modules.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewFullProjectWBS	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows resources to view the complete WBS. The canViewFullProjectWBS is used in conjunction with the view WBS setting. If this setting is not selected, the resources will only be able to view their own work packages.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalBackground	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal background information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalCalendar	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal calendar and personal background information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewPersonalCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their competencies, skill costs, and selling rates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalCompetencySkills	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their competencies and skills.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalDocuments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal documents.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their effective start and discontinue date.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalExecutiveAttributes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their executive attributes.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalInformation	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewPersonalNickName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their nick name.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their location information.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalPublishedWorkPackages	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their published work packages.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their rates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalScorecardPivot	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to view their scorecard pivots.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalSecurity	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal security settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewPersonalSettings	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view their personal settings.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPortfolioDashboard	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows resources to view the Portfolio Dashboard for Investment Maps, Scorecard Maps, OLAP Pivots, and Reports. Additional securities that allow or deny access to specific components of the Portfolio Dashboard are found in the role-based assignment security.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceAddress	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the address of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceBackground	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the background information of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view competencies, skill costs, and selling rates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewResourceCompetencySkills	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the competencies and skills of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceDocuments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view documents that belong to other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view effective start dates and discontinue dates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceExecutiveAccessLevel	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view executive access levels of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceExecutiveAttributes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the executive attributes of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewResourceInformation	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the personal information of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceLogon	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the logon of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the names of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceNickName	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the nick names of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the locations of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourcePublishedWorkPackages	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the published work packages of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewResourceRates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the rates of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceScorecardPivot	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the scorecard pivots of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceSecurity	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the security settings of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceSettings	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the settings of other resources.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScopeManagement	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to view the Scope Management module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScopeTemplates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view scope management element templates.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 159. ResourceSecurityRights Field Description (continued)

Field	Detail
canViewTimesheets	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows a resource to view the Timesheet Management module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWhatIfAnalysis	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Having this right allows the resource to view “What If” Scenarios.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWorkManagement	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Allows the resource to view the Work Management module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

Visa

Description

Package: com.ibm.rpm.resource.containers

Extends: RPMObject

Usage

Represents the visa information of a resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

Table 160. Visa Field Description

Field	Detail
country	Type: CitizenshipCountryCode Default value: N/A Description: The country code of the visa. Field validation description: N/A Additional field security restrictions: N/A
expiryDate	Type: dateTime Default value: N/A Description: The expiry date of the visa. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource
- Passport

ErrorCodes

Description

Package: com.ibm.rpm.resource.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file errorCode.properties according to the integer error code provided.

Resource errors are specific to the resources section of the API.

Resource error codes ranges: 403,001 - 404,000

- 403,001 - 403,299: validation codes
- 403,300 - 403,499: xpath codes
- 403,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 161. Resource Validation Error Codes

Code	Description
403001	Cannot specify a ' ReverifiedBy ' Resource if the ' VerifiedBy ' Resource is <i>null</i> .

Table 162. Resource Manager Error Codes

Code	Description
403500	The proficiency level specified does not exist.

Inherited Fields

N/A

Related Objects

N/A

Container

This section describes the container objects that are available in the Resource category of the Web Services API, and illustrates the relationships between them in the form of diagrams.

PoolModuleScope

Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to PoolModule.

Supported API Calls

None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 163. PoolModuleScope Field Description

Field	Detail
attributeCategories	Type: AttributeScope
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
companySizes	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
poolDomains	Type: PoolDomainScope
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
pools	Type: PoolScope
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

PoolReferenceScope Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to Reference.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 164. PoolReferenceScope Field Description

Field	Detail
companySize	<p>Type: boolean</p> <p>Default value: <i>false</i></p> <p>Description: This field is <i>true</i> if the companySize should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- Reference

PoolScope

Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

PoolScope represents a scope to navigate to objects that are related to a Pool.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 165. PoolScope Field Description

Field	Detail
attributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if attribute assignments should be loaded, and is <i>false</i> if not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentScope</p> <p>Default value: null</p> <p>Description: The scope of the documentFolder.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
domain	<p>Type: PoolDomainScope</p> <p>Default value: null</p> <p>Description: The scope of the domain.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: PoolScope</p> <p>Default value: null</p> <p>Description: The scope of the parent object.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
pools	<p>Type: PoolScope</p> <p>Default value: null</p> <p>Description: The scope of the children pools.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 165. PoolScope Field Description (continued)

Field	Detail
poolReferences	Type: PoolReferenceScope Default value: null Description: The scope of the children references. Field validation description: N/A Additional field security restrictions: N/A
resources	Type: ResourceScope Default value: null Description: The scope of the children resources. Field validation description: N/A Additional field security restrictions: N/A
resourceAssignments	Type: boolean Default value: false Description: This field is <i>true</i> if resource assignments should be loaded, and is <i>false</i> if not. Field validation description: N/A Additional field security restrictions: N/A
securityGroup	Type: securityGroupScope Default value: null Description: The scope of security group Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Pool

ResourceAttributeScope Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to ResourceAttribute.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 166. ResourceAttributeScope Field Description

Field	Detail
attributes	Type: ResourceAttributeScope
	Default value: null
	Description: The scope of general attributes.
	Field validation description: N/A
categories	Additional field security restrictions: N/A
	Type: ResourceAttributeScope
	Default value: null
	Description: The scope of the children categories.
classifications	Field validation description: N/A
	Additional field security restrictions: N/A
	Type: ResourceAttributeScope
	Default value: null
parent	Description: The scope of the children classifications.
	Field validation description: N/A
	Additional field security restrictions: N/A
	Type: ResourceAttributeScope
parent	Default value: null
	Description: The scope of the parent object.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 166. ResourceAttributeScope Field Description (continued)

Field	Detail
proficiencyLevels	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: The scope of children proficiencyLevels.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- ResourceAttribute

ResourceModuleScope Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to ResourceModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 167. ResourceModuleScope Field Description

Field	Detail
citizenshipCountryCodes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 167. ResourceModuleScope Field Description (continued)

Field	Detail
classifications	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
contactGroups	<p>Type: ContactGroupScope</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldScope</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
employeeStatus	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
experiences	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
industryTypes	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 167. ResourceModuleScope Field Description (continued)

Field	Detail
languages	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
preferenceRanks	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
proficiencyLevels	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceAttributesCompetencyCategories	<p>Type: ResourceAttributeScope</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceAttributesSkillCategories	<p>Type: ResourceAttributeScope</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workingStatus	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: N/A</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 167. ResourceModuleScope Field Description (continued)

Field	Detail
workLocations	Type: boolean Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ResourceScope Description

Package: com.ibm.rpm.resource.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to Resource.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 168. ResourceScope Field Description

Field	Detail
calendar	Type: CalendarScope Default value: null Description: The scope of the child Calendar. Field validation description: N/A Additional field security restrictions: N/A

Table 168. ResourceScope Field Description (continued)

Field	Detail
clientCostCenterAssignments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if ClientCostCenters should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
competencyAttributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if competency attributes should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
contactGroupAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if contact group assignments should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
currency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if currency should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if custom field assignments should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 168. ResourceScope Field Description (continued)

Field	Detail
documentFolder	<p>Type: DocumentScope</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if a document folder should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
educations	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if education should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
employeeStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if employee status should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
employmentHistories	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if employment history should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
executiveAttributeClassifications	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if executive attribute classifications should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 168. ResourceScope Field Description (continued)

Field	Detail
executiveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if executive attributes should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
executiveSecurityRole	<p>Type: securityRoleScope</p> <p>Default value: null</p> <p>Description:The security role scope</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
experience	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if experience should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
geographicalAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if geographicalAssignment should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
industryExperiences	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if industry experience should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 168. ResourceScope Field Description (continued)

Field	Detail
languageProficiencies	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if language proficiencies should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
locationPreferences	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if location preferences should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
organizationalAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if organizational assignments should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
passport	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if passport should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
projectHistories	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if project history should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 168. ResourceScope Field Description (continued)

Field	Detail
rates	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: This field is <i>true</i> if resource rates should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceCostCenterAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if resourceCostCenterAssignments should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceTimesheetTaskAssignment	<p>Type: ResourceTimesheetTaskAssignmentScope</p> <p>Default value: null</p> <p>Description: The scope for the resourceTimesheetTaskAssignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
skillAttributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if a skill attribute assignments should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
taskAssignments	<p>Type: TaskAssignmentScope</p> <p>Default value: null</p> <p>Description: The scope for the taskAssignments.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 168. ResourceScope Field Description (continued)

Field	Detail
workingStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if working status should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workLocation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if work location should be loaded, and is <i>false</i> if it should not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

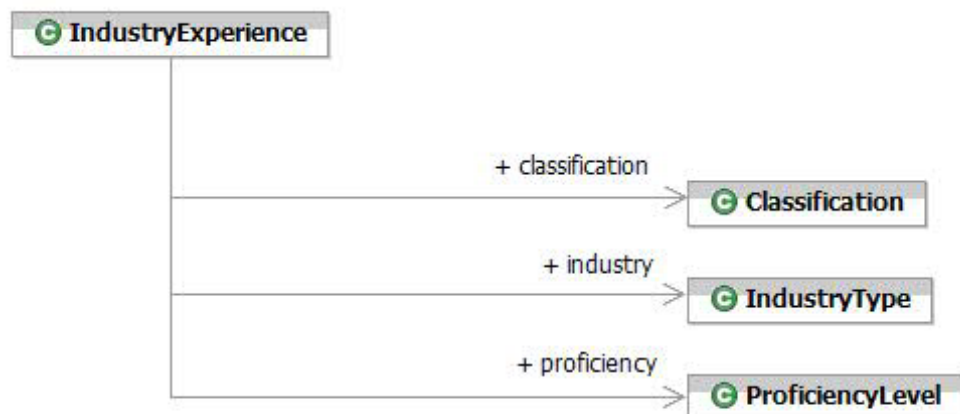
N/A

Related Objects

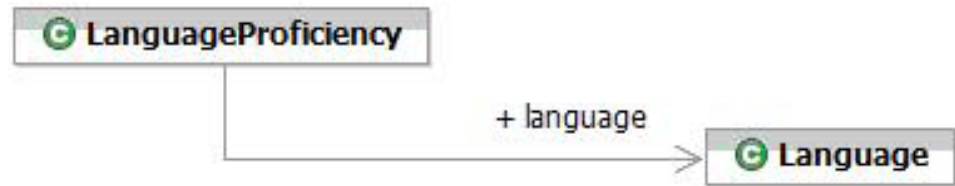
- Resource

Resource Object Relationship Diagrams

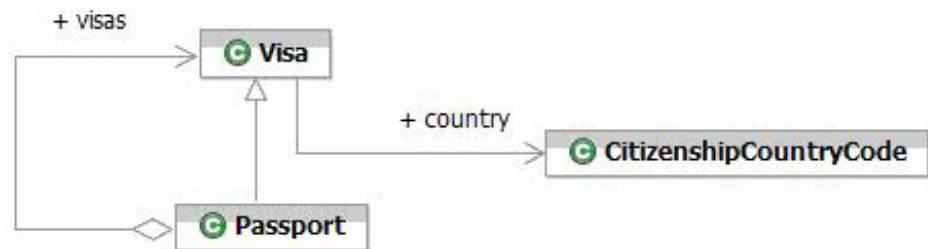
IndustryExperience



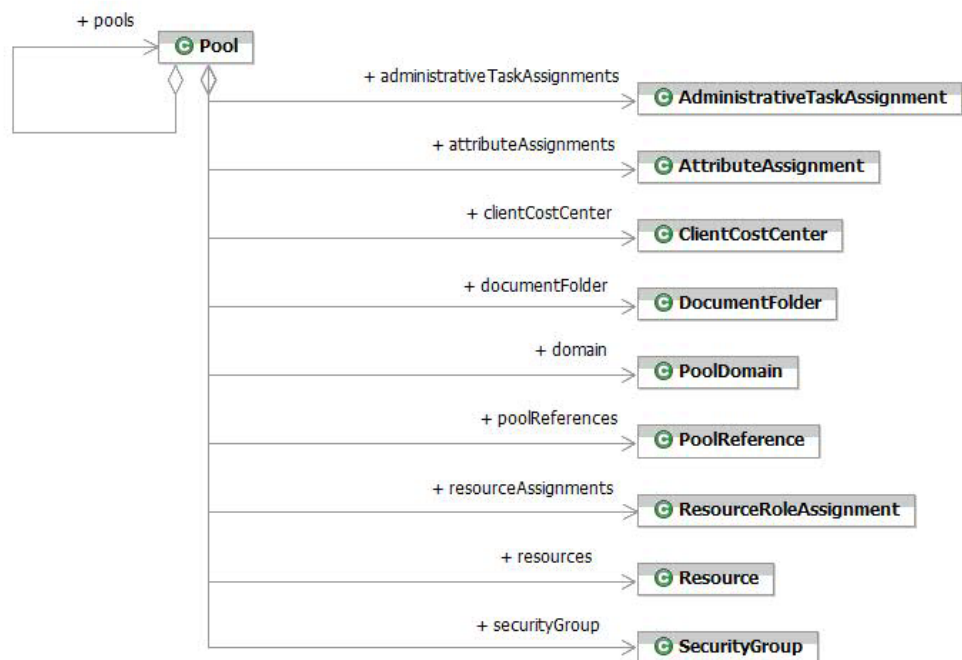
LanguageProficiency



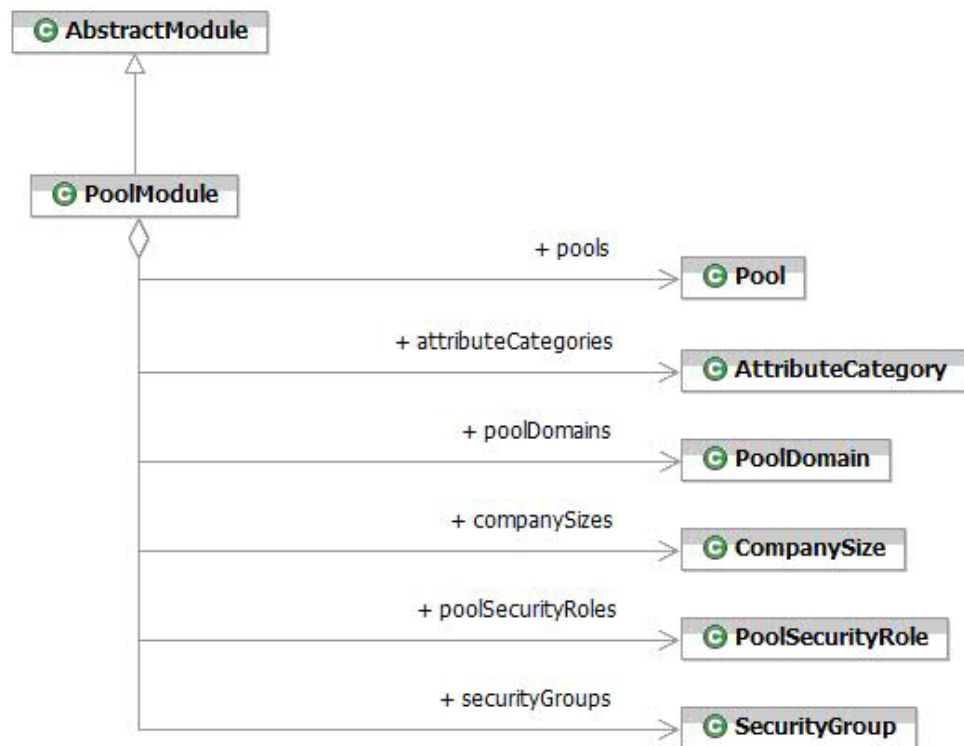
Passport



Pool



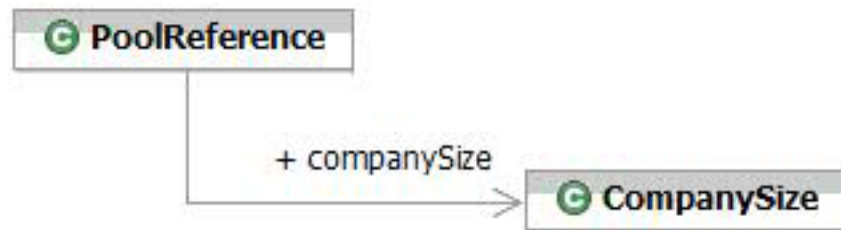
PoolModule



ProjectHistory



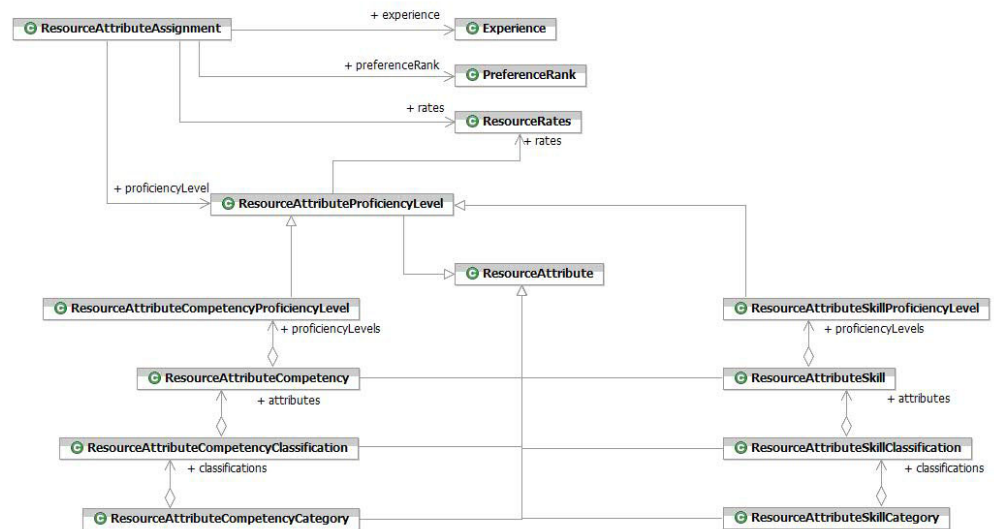
PoolReference



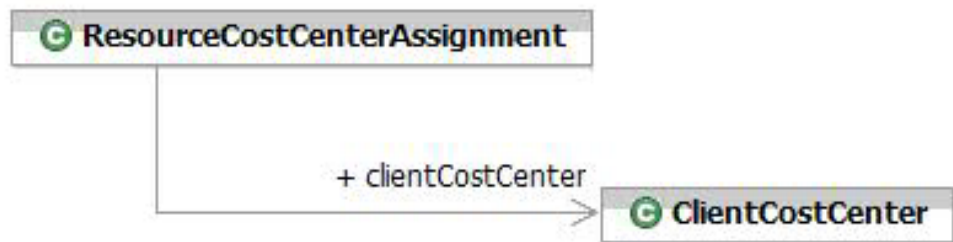
Resource



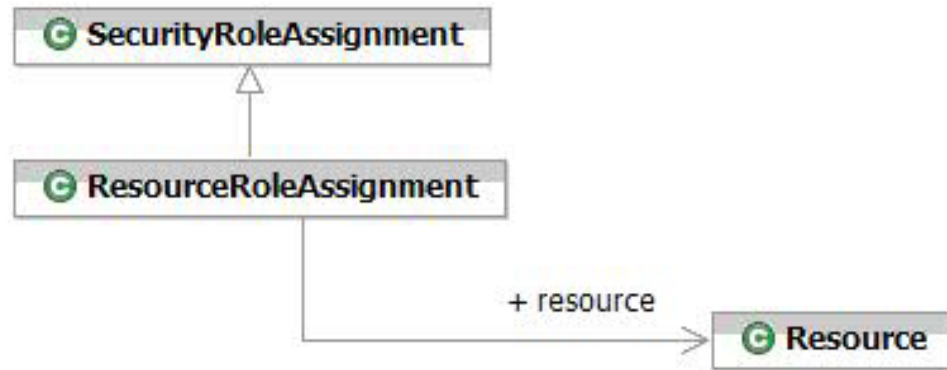
ResourceAttribute



ResourceCostCenterAssignment



ResourceRoleAssignment



ResourceModule



Scope Management

This section describes the objects available in the Scope Management category of the Web Services API.

AbstractAggregateScope

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AggregateScope

Usage

AbstractAggregateScope is an abstract base class for **ScopeSummaryTask**, **ScopeDeliverable** and **AbstractScope**. Furthermore, **AbstractScope** is extended to create **Issue**, **Action**, **Requirement**, **Risk** and **AbstractRequest**. Finally, **AbstractRequest** is extended to create **Defect**, **ChangeRequest** and **ServiceRequest**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 169. AbstractAggregateScope Field Description

Field	Detail
attributeAssignments	Type: AttributeAssignment[] Default value: N/A Description: Each instance of AttributeAssignment keeps a pointer to an assigned Attribute . Field validation description: Only one attribute may be selected per classification. Additional field security restrictions: N/A
closedByDate	Type: dateTime Default value: If closedByName is specified and closedByDate is <i>null</i> , this field's value defaults to the current date and time. Description: The date on which the scope element was closed. Field validation description: N/A Additional field security restrictions: N/A
closedByName	Type: string Default value: If closedByDate is specified and closedByName is <i>null</i> , this field's value defaults to the full name of the Resource that is currently logged in. Description: The full name of the Resource that closed the scope element Field validation description: Must be the full name of an active Resource. Additional field security restrictions: N/A

Table 169. AbstractAggregateScope Field Description (continued)

Field	Detail
estimatedDurationInMinutes	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The estimated duration in minutes when the scope element should be completed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
estimatedFinishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The estimated date when the scope element should be completed.</p> <p>Field validation description: estimatedStartDate must be less than or equal to estimatedFinishDate.</p> <p>Additional field security restrictions: N/A</p>
estimatedStartDate	<p>Type: dateTime</p> <p>Default value: The current date.</p> <p>Description: The estimated start date for the scope element.</p> <p>Field validation description: estimatedStartDate must be less than or equal to estimatedFinishDate.</p> <p>Additional field security restrictions: N/A</p>
priority	<p>Type: int</p> <p>Default value: 500</p> <p>Description: The priority of the scope element.</p> <p>Field validation description: Value range: 0 – 10,000</p> <p>Additional field security restrictions: N/A</p>
proposedDate	<p>Type: ScopeScheduleDate</p> <p>Default value:</p> <p>Description: The scheduled dates that have been proposed for the scope element.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 169. AbstractAggregateScope Field Description (continued)

Field	Detail
proposedByDate	<p>Type: dateTime</p> <p>Default value: If proposedByName is specified and proposedByDate is <i>null</i>, this field's value defaults to the current date and time.</p> <p>Description: The date a scope element was proposed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
proposedByName	<p>Type: string</p> <p>Default value: If proposedByDate is specified and proposedByName is <i>null</i>, this field's value defaults to the full name of the Resource that is currently logged in.</p> <p>Description: The full name of the Resource that proposed the scope.</p> <p>Field validation description: Must be the full name of an active Resource.</p> <p>Additional field security restrictions: N/A</p>
referenceNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The reference number of the scope element.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: RtfAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of RtfAssignment keeps a pointer to an assigned DatafieldRTF.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
statusUpdates	<p>Type: StatusUpdate[]</p> <p>Default value: N/A</p> <p>Description: The list of status updates for this scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 169. AbstractAggregateScope Field Description (continued)

Field	Detail
transferredUnderWbsRoot	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: If this field's value is true, then the scope element has been transferred under the WBS root.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
wbsFinancials	<p>Type: WBSFinancial[]</p> <p>Default value: N/A</p> <p>Description: This array is used to track WBS financials from the project tasks or activities as team members enter time in the timesheets and expenses in the Project Expenses module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
worksheetFinancials	<p>Type: WorksheetFinancial[]</p> <p>Default value: N/A</p> <p>Description: This array is used to estimate labor and non-labor budgets, as well as to manually enter track labor and non-labor actuals. Project Managers can use worksheet financials to estimate project budgets. This allows them to understand project budget requirements and can also be used as information to justify or disqualify a proposal during the Portfolio Management decision-making process. It can also be used to provide a top-down budgeting mechanism that can be used to distribute high-level estimates over a basic or complex project plan and to compare the resultant aggregate with the higher level estimates to insure that budgets align. Actuals can also be entered manually to track a project without the necessity of a project plan.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

Related Objects

N/A

AbstractRequest Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScope

Usage

AbstractRequest is an abstract base class for **Defect**, **ChangeRequest** and **ServiceRequest**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 170. AbstractRequest Field Description

Field	Detail
approvedCostBenefits	Type: ApprovedCostBenefits Default value: N/A Description: The approved costs and benefits of the request, which are used to identify the approved schedule impact, effort required, as well as the costs and benefits. Field validation description: N/A Additional field security restrictions: N/A
numberTimesReassigned	Type: int Default value: 0 Description: The number of times the scope element has been reassigned. Field validation description: Value range: 0 – 9,999 Additional field security restrictions: N/A

Table 170. *AbstractRequest Field Description (continued)*

Field	Detail
occuredDateTime	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The date and time at which the request occurred.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `ScopeElement`

From `AggregateScope`

From `AbstractAggregateScope`

From `AbstractScope`

Related Objects

N/A

AbstractScope Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: `AbstractAggregateScope`

Usage

`AbstractScope` is an abstract base class for `Issue`, `Action`, `Requirement`, `Risk` and `AbstractRequest`. Furthermore, `AbstractRequest` is extended to create `Defect`, `ChangeRequest` and `ServiceRequest`.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 171. AbstractScope Field Description

Field	Detail
approvedByDate	<p>Type: dateTime</p> <p>Default value: If approvedByName is specified and approvedByDate is <i>null</i>, this field's value defaults to the current date and time.</p> <p>Description:The date a scope element was approved</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
approvedByName	<p>Type: string</p> <p>Default value: If approvedByDate is specified and approvedByName is <i>null</i>, this field's value defaults to the full name of the Resource that is currently logged in.</p> <p>Description: The full name of the Resource that approved this scope element.</p> <p>Field validation description: Must be the full name of an active Resource.</p> <p>Additional field security restrictions: N/A</p>
approvedDate	<p>Type: ScopeScheduleDate</p> <p>Default value:</p> <p>Description: The scheduled dates that have been approved for the scope element.</p> <p>This field is read-only.</p> <p>Field validation description: v</p> <p>Additional field security restrictions: N/A</p>
asset	<p>Type: Asset</p> <p>Default value: None</p> <p>Description: The asset to which the scope element is attributed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 171. AbstractScope Field Description (continued)

Field	Detail
assetCode	<p>Type: AssetFinancialCategory</p> <p>Default value: None</p> <p>Description: The asset's financial category.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
assignedScorecard	<p>Type: AssignedScorecard</p> <p>Default value: N/A</p> <p>Description: The scorecards that have been assigned to this scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clientCostCenter	<p>Type: ClientCostCenter</p> <p>Default value: N/A</p> <p>Description: The scope element's client / cost center</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
defaultScope	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates whether or not the current scope element is the default</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: This folder contains the documents associated to the scope element. It is created automatically when the scope element is created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 171. AbstractScope Field Description (continued)

Field	Detail
duplicateNumber	<p>Type: string</p> <p>Default value: null</p> <p>Description: The unique duplicate key for the group of scope elements that are duplicates of each other. If two scope elements have the same value of duplicateNumber, then they are duplicates of each other.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
duplicates	<p>Type: Duplicate[]</p> <p>Default value: N/A</p> <p>Description: The duplicate scope elements. Each instance of Duplicate keeps a pointer to a ScopeElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
externalReferenceNumber	<p>Type: string</p> <p>Default value: null</p> <p>Description: The external reference number of the scope element.</p> <p>Field validation description: Limit 32 characters.</p> <p>Additional field security restrictions: N/A</p>
impact	<p>Type: Impact</p> <p>Default value: N/A</p> <p>Description: The Quantification / Impact of the scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeCostBenefits	<p>Type: OrderOfMagnitudeCostBenefits[]</p> <p>Default value: N/A</p> <p>Description: The order of magnitude of the scope element's preliminary costs and benefits.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 171. AbstractScope Field Description (continued)

Field	Detail
published	Type: PublishedType Default value: None Description: : The type of publishing of the scope element. Field validation description: N/A Additional field security restrictions: N/A

Table 171. AbstractScope Field Description (continued)

Field	Detail
state	<p>Type: DatafieldState</p> <p>Default value:</p> <p>For Actions, the ActionState containing the name field with the value "1".</p> <p>For ChangeRequests, the ChangeRequestState containing the name field with the value "1".</p> <p>For Defects, the DefectState containing the name field with the value "1".</p> <p>For Issues, the IssueState containing the name field with the value "1".</p> <p>For Requirements, the RequirementState containing the name field with the value "1".</p> <p>For Risks, the RiskState containing the name field with the value "1".</p> <p>For ServiceRequests, the ServiceRequestState containing the name field with the value "1".</p> <p>Description: The current state of the scope element.</p> <p>Field validation description:</p> <p>For Actions, state must be an instance of ActionState.</p> <p>For ChangeRequests, state must be an instance of ChangeRequestState.</p> <p>For Defects, state must be an instance of DefectState.</p> <p>For Issues, state must be an instance of IssueState.</p> <p>For Requirements, state must be an instance of RequirementState.</p> <p>For Risks, state must be an instance of RiskState.</p> <p>For ServiceRequests, state must be an instance of ServiceRequestState.</p> <p>Additional field security restrictions: N/A</p>

Table 171. AbstractScope Field Description (continued)

Field	Detail
targetDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The target date of the scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

From AbstractAggregateScope

Related Objects

N/A

AbstractScopeTask

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: ScopeElement

Usage

AbstractRequest is an abstract base class for **ScopeTask** and **ScopeMilestone**

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 172. AbstractScopeTask Field Description

Field	Detail
attributeAssignments	Type: AttributeAssignment[] Default value: N/A Description: Each instance of AttributeAssignment keeps a pointer to an assigned Attribute. Field validation description: Only one attribute may be selected per classification. Additional field security restrictions: N/A
closedByDate	Type: dateTime Default value: If closedByName is specified and closedByDate is <i>null</i> , this field's value defaults to the current date and time. Description: The date on which the scope element was closed. Field validation description: N/A Additional field security restrictions: N/A
closedByName	Type: string Default value: If closedByDate is specified and closedByName is <i>null</i> , this field's value defaults to the full name of the Resource that is currently logged in. Description: The full name of the Resource that closed the scope element. Field validation description: Must be the full name of an active Resource Additional field security restrictions: N/A
wbsfinancials	Type: WBSFinancial[] Default value: N/A Description: This array is used to track WBS financials from the project tasks or activities as team members enter time in the timesheets and expenses in the Project Expenses module. Field validation description: N/A Additional field security restrictions: N/A

Table 172. *AbstractScopeTask* Field Description (continued)

Field	Detail
mandatory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: If this field's value is <i>true</i>, the task is considered to be mandatory. Only the Resources with appropriate security rights will be able to delete the scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
priority	<p>Type: int</p> <p>Default value: 500</p> <p>Description: The priority of the scope element.</p> <p>Field validation description: Value range: 0 – 10,000</p> <p>Additional field security restrictions: N/A</p>
proposedByDate	<p>Type: dateTime</p> <p>Default value: If proposedByName is specified and proposedByDate is <i>null</i>, this field's value defaults to the current date and time.</p> <p>Description: The date a scope element was proposed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
proposedByName	<p>Type: string</p> <p>Default value: If proposedByDate is specified and proposedByName is <i>null</i>, this field's value defaults to the full name of the Resource that is currently logged in.</p> <p>Description: The full name of the Resource that proposed the scope.</p> <p>Field validation description: Must be the full name of an active Resource.</p> <p>Additional field security restrictions: N/A</p>

Table 172. AbstractScopeTask Field Description (continued)

Field	Detail
referenceNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The reference number of the scope element.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: RtfAssignment[]</p> <p>Default value: N/A</p> <p>Description: Each instance of RtfAssignment keeps a pointer to an assigned DatafieldRTF</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
statusUpdates	<p>Type: StatusUpdate[]</p> <p>Default value: N/A</p> <p>Description: The list of status updates for this scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
transferredUnderWbsRoot	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: If this field's value is true, then the scope element has been transferred under the WBS root.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **ScopeElement**

Related Objects

N/A

Action

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScope

Usage

An IBM Rational Portfolio Manager element which is used to manage and track exceptions that do not conform with the convention exception types.

Parent is mandatory, allowed parent types are **ScopeFolder**, **Action**, **Issue**, **ChangeRequest**, **Defect**, **Requirement**, **Risk**, and **ServiceRequest**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 173. Action Field Description

Field	Detail
approvedCostBenefits	Type: ApprovedCostBenefits Default value: N/A Description: The approved costs and benefits of the action, which are used to identify the approved schedule impact, effort required as well as the costs and benefits. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

From AbstractAggregateScope

From AbstractScope

Related Objects

N/A

AggregateScope

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: ScopeElement

Usage

Contains an array of the scope element's children.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 174. AggregateScope Field Description

Field	Detail
children	Type: ScopeElement[] Default value: N/A Description: The children of the scope element. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

Related Objects

N/A

ApprovedCostBenefits

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

ApprovedCostBenefits is the costs related to the activity, or other concerned objects, which have been approved by a project manager.

Parent is mandatory, allowed parent types are **Action**, **ChangeRequest**, **Defect**, **Requirement** and **ServiceRequest**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 175. ApprovedCostBenefits Field Description

Field	Detail
billableRevenue	Type: double Default value: 0.00 Description: The approved billable revenue of the scope element. Field validation description: Value range: 0.00 – 999,999,999,999.99 Additional field security restrictions: N/A
cost	Type: double Default value: 0.00 Description: The approved cost of the scope element. Field validation description: Value range: 0.00 – 999,999,999,999.99 Additional field security restrictions: N/A

Table 175. ApprovedCostBenefits Field Description (continued)

Field	Detail
nonBillableBenefits	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The approved non billable benefits of the scope element.</p> <p>Field validation description: Value range: 0.00 – 999,999,999,999.99</p> <p>Additional field security restrictions: N/A</p>
sheduleImpactInDays	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The approved schedule impact of the scope element, in days.</p> <p>Field validation description: Value range: 0 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>
workInHours	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The approved amount of work of the scope element, in hours.</p> <p>Field validation description: Value range: 0 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ChangeRequest Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractRequest

Usage

A change request represents a request to change some aspect of the project, project plan, activity definition or document.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpathdelete
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AbstractAggregateScope

From AbstractScope

From AbstractRequest

Related Objects

N/A

Defect

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractRequest

Usage

Defects are IBM Rational Portfolio Manager elements that allow managers to track bugs and bug fixes.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID

- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AbstractAggregateScope

From AbstractScope

From AbstractRequest

Related Objects

N/A

Duplicate

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

Duplicate is used to describe an exception that has already been entered and identified within a given project or proposal.

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 176. Duplicate Field Description

Field	Detail
scopeElement	<p>Type: ScopeElement</p> <p>Default value: N/A</p> <p>Description: The duplicate scope element.</p> <p>Field validation description: The type of this object must be identical to the parent's type. The ID of the object cannot be identical to the ID of the duplicate's parent. In addition, the scope element must belong to the same project as the duplicate's parent.</p> <p>This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Impact

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

This object is used to determine the impact of the different scope elements on the outcome of the project.

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID

- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 177. Impact Field Description

Field	Detail
orderOfMagnitudeWorkInHours	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The order of magnitude of the work in hours.</p> <p>Field validation description: Value range: -1,000,000,000 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeLowWorkInHours	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The lowest order of magnitude of work in hours.</p> <p>Field validation description: Value range: -1,000,000,000 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeHighWorkInHours	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The highest order of magnitude of work in hours</p> <p>Field validation description: Value range: -1,000,000,000 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>
scheduledImpactInDays	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The impact on the schedule in days.</p> <p>Field validation description: Value range: -1,000,000,000 – 1,000,000,000</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RRPMObject

Related Objects

N/A

Issue

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScope

Usage

The identification and quantification of any potential problem in a project submitted for the consideration of others.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 178. Issue Field Description

Field	Detail
numberTimesReassigned	Type: int Default value: 0 Description: The number of times the issue has been reassigned. Field validation description: Value range: 0 – 9,999 Additional field security restrictions: N/A

Table 178. Issue Field Description (continued)

Field	Detail
occuredDateTime	Type: dateTime Default value: N/A Description: The date and time at which the issue occurred. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

From AbstractAggregateScope

From AbstractScope

Related Objects

N/A

MitigationFactor Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

MitigationFactor is used to identify and quantify the factors and triggers to monitor for a risk. To assign an instance of MitigationFactor to Risk, MitigationFactorAssignment must be used.

Note: It is mandatory that the parent field value be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 179. MitigationFactor Field Description

Field	Detail
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The description of the mitigation.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
mitigationCost	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The cost of the mitigation.</p> <p>Field validation description: The value range is 0.00 to 999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
mitigationTriggers	<p>Type: MitigationTrigger[]</p> <p>Default value: N/A</p> <p>Description: The array of mitigation triggers.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
priority	<p>Type: int</p> <p>Default value: 500</p> <p>Description: The priority of the mitigation factor.</p> <p>Field validation description: The value range is 0 to 9,999.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

MitigationTrigger

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

MitigationTrigger is a condition that signals that a risk factor should be monitored.

Parent is mandatory, allowed parent type is MitigationFactor.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 180. MitigationTrigger Field Description

Field	Detail
description	Type: string Default value: N/A Description: The description of the mitigation trigger. Field validation description: Limit 255 characters. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

OrderOfMagnitudeCostBenefits

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

OrderOfMagnitudeCostBenefits is used to provide preliminary costs and benefits.

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 181. OrderOfMagnitudeCostBenefits Field Description

Field	Detail
orderOfMagnitudeBillableRevenue	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: An estimate for the order of magnitude of the scope element's billable revenue.</p> <p>Field validation description: Value range: 0.00 – 1,000,000.00</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeCost	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: An estimate for the order of magnitude of the scope element's cost.</p> <p>Field validation description: Value range: 0.00 – 1,000,000.00</p> <p>Additional field security restrictions: N/A</p>

Table 181. OrderOfMagnitudeCostBenefits Field Description (continued)

Field	Detail
orderOfMagnitudeHigh	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: An estimate for the order of magnitude of the scope element's highest cost.</p> <p>Field validation description: Value range: 0.00 – 1,000,000.00</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeLow	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: An estimate for the order of magnitude of the scope element's lowest cost.</p> <p>Field validation description: Value range: 0.00 – 1,000,000.00</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeNonBillableBenefits	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: An estimate for the order of magnitude of the scope element's non billable benefits.</p> <p>Field validation description: Value range: 0.00 – 1,000,000.00</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Requirement Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScope

Usage

Requirements allow managers to break the project scope into manageable and trackable elements.

In their simplest form requirements can be defined as project scope elements and deliverables. When these requirements are contained in other point solutions or applications, the tracking of project delivery is usually a manual process. Managers are forced to report project performance in different ways because project work breakdown structures do not necessarily map directly to project or business requirements.

IBM Rational Portfolio Manager offers the unique ability to create project requirements and to map the project work breakdown structure to these requirements. Furthermore, as IBM Rational Portfolio Manager project artifacts; requirements can be subjected to the same rigorous processes used to manage such elements as project documents.

A requirement cannot exist unless a folder exists.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 182. Requirement Field Description

Field	Detail
approvedCostBenefits	<p>Type: ApprovedCostBenefits</p> <p>Default value: N/A</p> <p>Description:The approved costs and benefits of the requirement, which are used to identify the approved schedule impact, effort required as well as the costs and benefits..</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `ScopeElement`

From `AggregateScope`

From `AbstractAggregateScope`

From `AbstractScope`

Related Objects

N/A

Risk

Description

Package: `com.ibm.rpm.scopemanagement.containers`

Extends: `AbstractScope`

Usage

A risk is used to document the chances of an uncertain occurrence and the cumulative impact that will adversely affect project objectives.

Parent is mandatory, allowed parent types are `ScopeFolder`, `Action`, `Issue`, `ChangeRequest`, `Defect`, `Requirement`, `Risk` and `ServiceRequest`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 183. Risk Field Description

Field	Detail
mitigationFactors	Type: MitigationFactor[] Default value: N/A Description: The mitigation factors of the risk. Field validation description: N/A Additional field security restrictions: N/A
occuredDateTime	Type: dateTime Default value: N/A Description: The date and time at which the risk occurred. Field validation description: N/A Additional field security restrictions: N/A
mitigationFactorAssignments	Type: MitigationFactorAssignment[] Default value: N/A Description: The mitigation factors of the risk. Field validation description: N/A Additional field security restrictions: N/A
riskMatrix	Type: RiskMatrix Default value: N/A Description: The risk matrix of the risk. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **ScopeElement**

From **AggregateScope**

From **AbstractAggregateScope**

From **AbstractScope**

Related Objects

N/A

RiskMatrix

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

The Risk Ranking Matrix assigns colors to risks. These colors quickly and intuitively quantify and qualify risks, according to pre-defined parameters such as impact, probability of occurrence, risk consequences, and cost.

Parent is mandatory, allowed parent type is Risk.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 184. RiskMatrix Field Description

Field	Detail
consequenceCost	Type: double Default value: 0.00 Description: Cost of the consequences if the risk is not addressed. Field validation description: Value range 0.00 – 9,999,999,999,999.99 Additional field security restrictions: N/A

Table 184. RiskMatrix Field Description (continued)

Field	Detail
exposurePercent	<p>Type: int</p> <p>Default value: 20</p> <p>Description: Its value is automatically calculated according to the following formula: (impact + probability) / 2.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
impact	<p>Type: int</p> <p>Default value: 20</p> <p>Description: A percentage value that is business process dependent.</p> <p>Field validation description: The possible values for this field are 20, 40, 60, 80 and 100.</p> <p>Additional field security restrictions: N/A</p>
precision	<p>Type: PrecisionType</p> <p>Default value: Low</p> <p>Description: A subjective measure of how well the risk is understood.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
probability	<p>Type: int</p> <p>Default value: 20</p> <p>Description: A percentage value that is business process dependent.</p> <p>Field validation description: The possible values for this field are 20, 40, 60, 80 and 100</p> <p>Additional field security restrictions: N/A</p>
probabilityCost	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: Its value is automatically calculated according to the following formula: consequenceCost × probability.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 184. RiskMatrix Field Description (continued)

Field	Detail
riskMatrixColor	<p>Type: string</p> <p>Default value: "Green"</p> <p>Description: Color is used to quantify and qualify risks. Its value is automatically calculated from the values of probability and impact.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ScopeDeliverable Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractAggregateScope

Usage

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk, ServiceRequest, ScopeSummaryTask, and Deliverable.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `ScopeElement`

From `AggregateScope`

From `AbstractAggregateScope`

Related Objects

N/A

ScopeElement Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: `RPMObject`

Usage

ScopeElement is the base class for all scope element containers in the Scope Management section.

Supported API Calls

- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 185. ScopeElement Field Description

Field	Detail
<code>customFieldAssignments</code>	Type: <code>CustomFieldAssignment[]</code> Default value: N/A Description: The custom fields assigned to the scope element. Field validation description: N/A Additional field security restrictions: N/A

Table 185. ScopeElement Field Description (continued)

Field	Detail
name	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the scope element.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
resourceTaskAssignments	<p>Type: ResourceRoleAssignment []</p> <p>Default value: N/A</p> <p>Description: Used to identify and assign resources to the scope element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workElement	<p>Type: WorkElement</p> <p>Default value: N/A</p> <p>Description: The corresponding work element from the WBS section. A scope element has a corresponding work element if it has been transferred under WBS root, or if it is a ScopeFolder that was created automatically upon the creation of a WorkElement.</p> <p>Field validation description: The WorkElement's ID must never be set to <i>null</i></p> <p>Additional field security restrictions: N/A</p>
project	<p>Type: GenericProject</p> <p>Default value: N/A</p> <p>Description: The related project from the WBS section.</p> <p>Field validation description: The GenericProject's ID must never be set to <i>null</i>.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ScopeFolder

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AggregateScope

Usage

A scope folder is an object in which most of the other objects of Scope Management can be inserted and categorized.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk, and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 186. ScopeFolder Field Description

Field	Detail
privateFolder	Type: boolean Default value: false Description: Indicates whether or not the folder is private. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

Related Objects

N/A

ScopeManagementModule Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractModule

Usage

This module class is used to load all the relevant containers related to ScopeManagement.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 187. ScopeManagementModule Field Description

Field	Detail
actionRtfs	Type: ActionRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
actionStates	Type: ActionState[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
attributeCategories	Type: AttributeCaterogy[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 187. ScopeManagementModule Field Description (continued)

Field	Detail
changeRequestRtfs	<p>Type: ChangeRequestRTF[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>
changeRequestStates	<p>Type: ChangeRequestState[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldCategory[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>
defectRtfs	<p>Type: DefectRTF[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>
defectStates	<p>Type: DefectState[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>
deliverableRtfs	<p>Type: DeliverableRTF[]</p> <p>Default value: TBD</p> <p>Description: TBD</p> <p>Field validation description: TBD</p> <p>Additional field security restrictions: N/A</p>

Table 187. ScopeManagementModule Field Description (continued)

Field	Detail
issueRtfs	Type: IssueRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
issueStates	Type: IssueState[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
milestoneRtfs	Type: MilestoneRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
requirementRtfs	Type: RequirementRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
requirementStates	Type: RequirementState[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
riskRtfs	Type: RiskRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 187. *ScopeManagementModule Field Description (continued)*

Field	Detail
riskStates	Type: RiskState[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
scopeFolders	Type: ScopeFolder[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
scorecardFolders	Type: ScorecardFolder[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
serviceRequestRtfs	Type: ServiceRequestRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
serviceRequestStates	Type: ServiceRequestState[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
summaryTaskRtfs	Type: SummaryTaskRTF[]
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 187. ScopeManagementModule Field Description (continued)

Field	Detail
taskRtfs	Type: TaskRTF[] Default value: TBD Description: TBD Field validation description: TBD Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

ScopeMilestone Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScopeTask

Usage

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk, ServiceRequest, ScopeSummaryTask, and Deliverable.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AbstractScopeTask

Related Objects

N/A

ScopeSummaryTask

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractAggregateScope

Usage

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk, ServiceRequest, ScopeSummaryTask and Deliverable.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AggregateScope

From AbstractAggregateScope

Related Objects

N/A

ScopeTask

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractScopeTask

Usage

Parent is mandatory, allowed parent types are Action, Issue, ChangeRequest, Defect, Requirement, Risk, ServiceRequest, ScopeSummaryTask and Deliverable.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ScopeElement

From AbstractScopeTask

Related Objects

N/A

ServiceRequest

Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: AbstractRequest

Usage

A request for a service from the IT Support Service. Service requests will typically be logged by the help desk personnel.

Parent is mandatory, allowed parent types are ScopeFolder, Action, Issue, ChangeRequest, Defect, Requirement, Risk and ServiceRequest.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **ScopeElement**

From **AggregateScope**

From **AbstractAggregateScope**

From **AbstractScope**

From **AbstractRequest**

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.scopemanagement.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file errorCode.properties according to the integer error code provided.

Scope Management errors are specific to the scope management section of the API.

Scope Management error codes ranges: 404,001 - 405,000

- 404,001 - 404,299: validation codes

- 404,300 - 404,499: xpath codes
- 404,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 188. Scope Management Validation Error Codes

Code	Description
404001	A scope element cannot have a duplicate scope element with the same ID.
404002	Scope elements can only have duplicates that are in the same project.

Inherited Fields

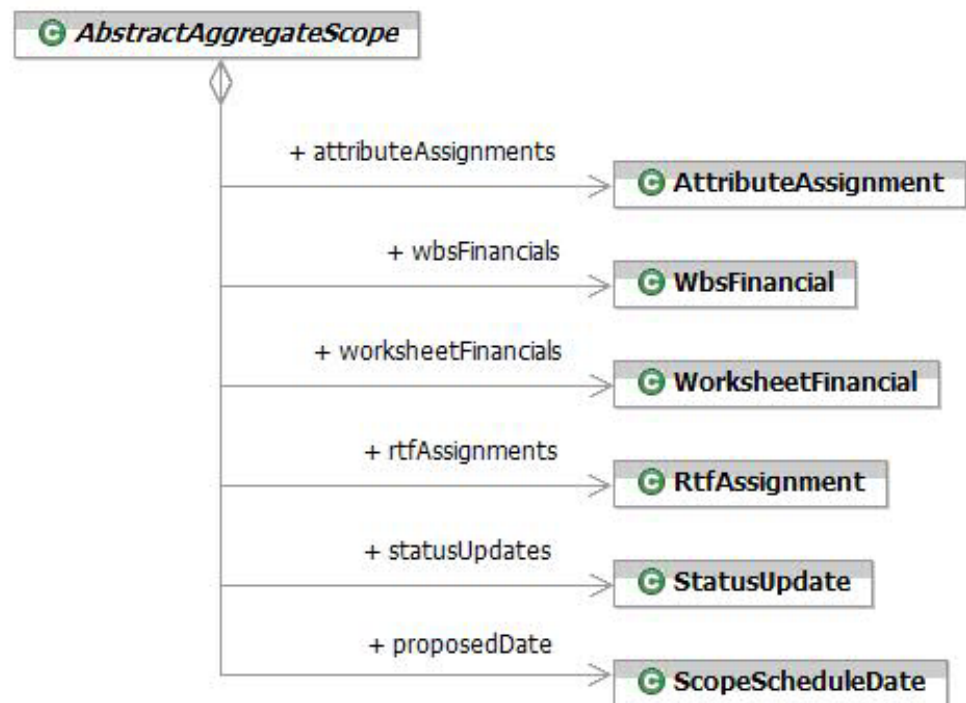
N/A

Related Objects

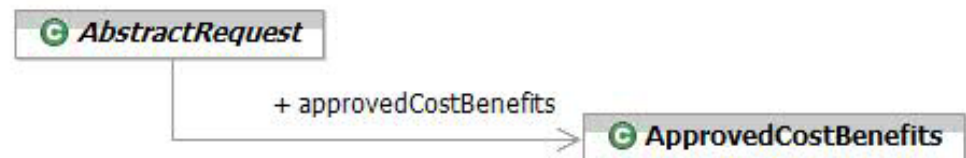
N/A

Scope Management Object Relationship Diagrams

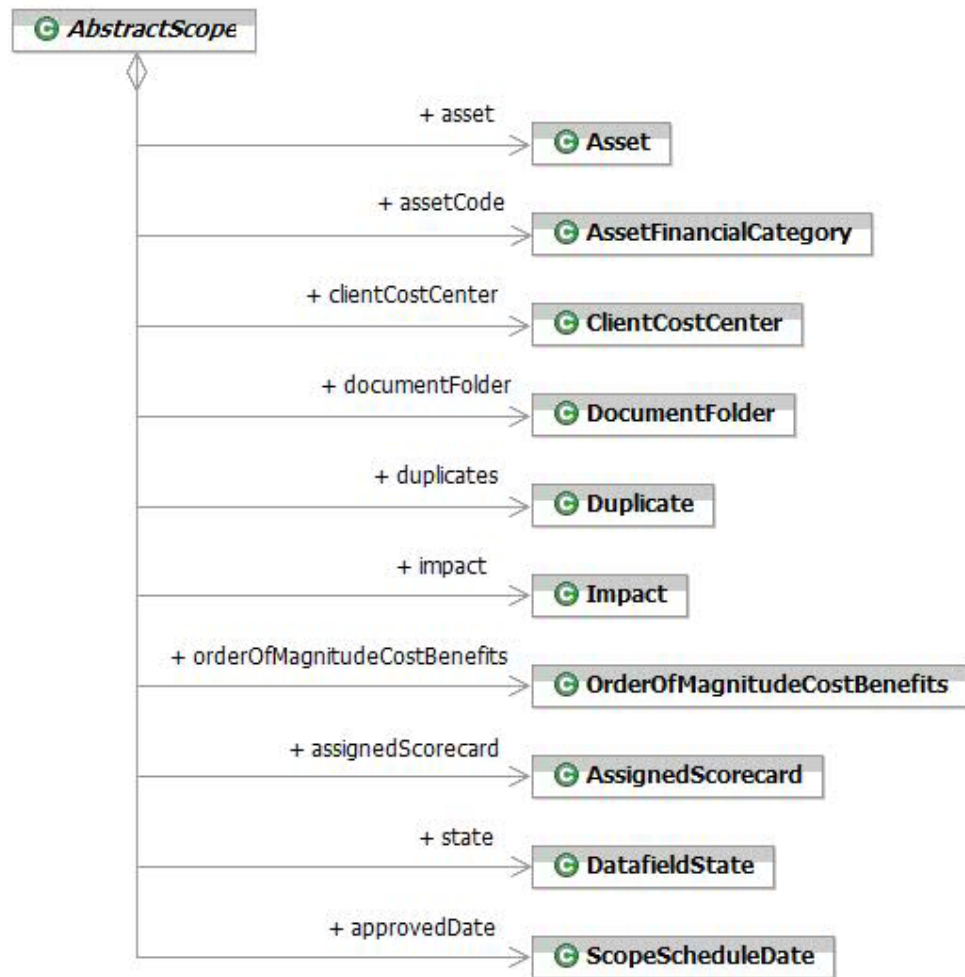
AbstractAggregateScope



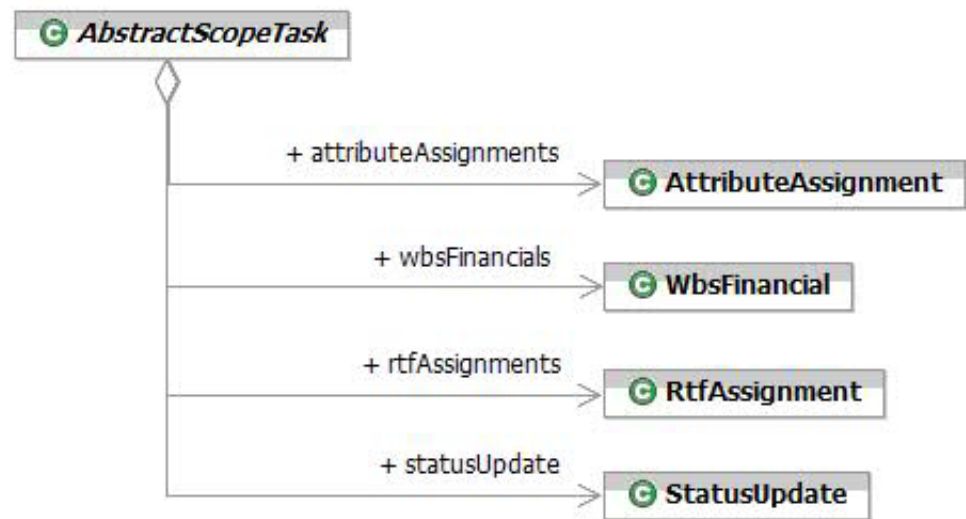
AbstractRequest



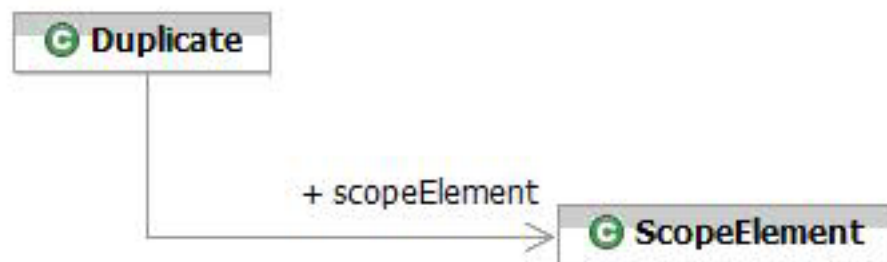
AbstractScope



AbstractScopeTask



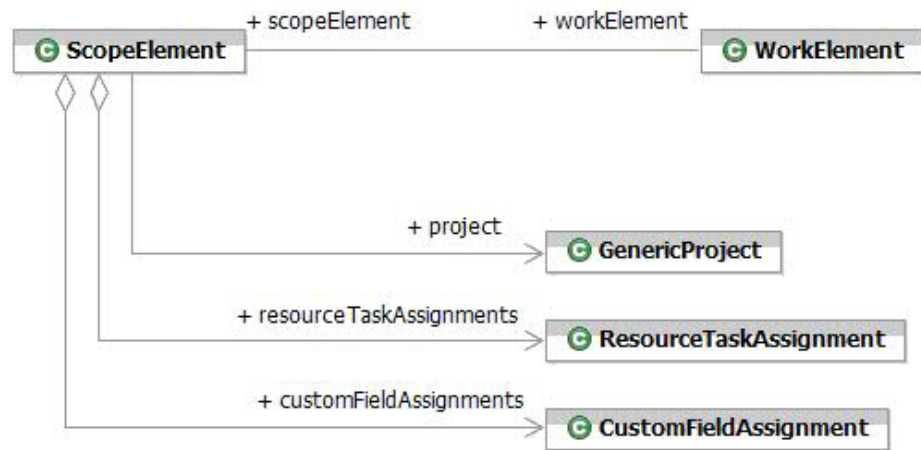
Duplicate



MitigationFactor



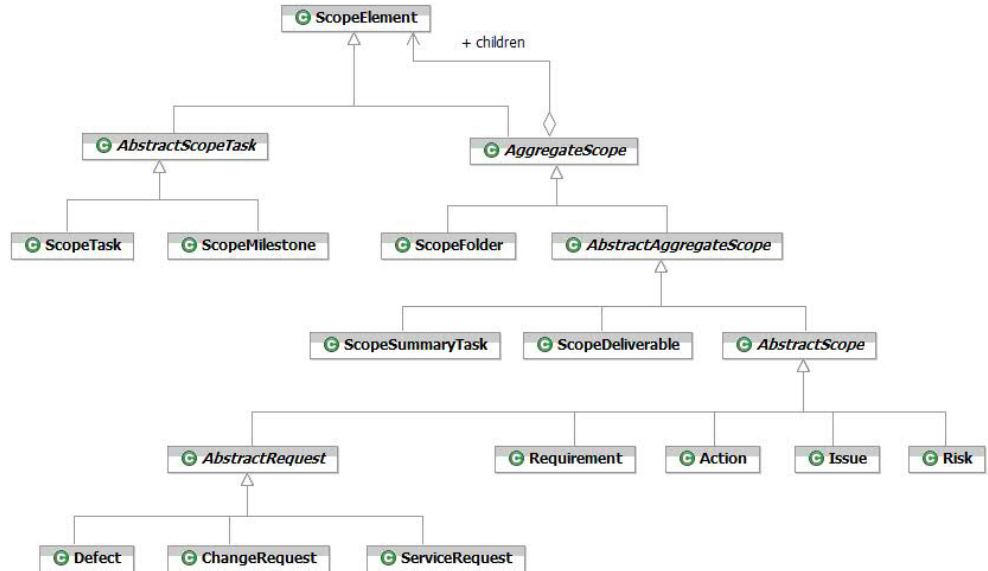
ScopeElement



Risk



ScopeManagement



MitigationFactorScope

Description

Package: com.ibm.rpm.scopemanagement.scope

Extends: RPMObjectScope

Usage

N/A

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 189. MitigationFactorScope Field Description

Field	Detail
mitigationTriggers	Type: boolean
	Default value: false
	Description: TBD
	Field validation description: N/A
	Additional field security restrictions: N/A
parent	Type: ScopeElementScope
	Default value: TBD
	Description: TBD
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ScopeElementScope Description

Package: com.ibm.rpm.scopemanagement.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to **ScopeElement**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 190. *ScopeElementScope* Field Description

Field	Detail
approvedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's approvedCostBenefits field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have an approvedCostBenefits field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
asset	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's asset field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have an asset field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
assetCode	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's asset field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have an assetCode field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
attributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's attributeAssignments field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have an attributeAssignments field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 190. ScopeElementScope Field Description (continued)

Field	Detail
children	<p>Type: ScopeElementScope[]</p> <p>Default value: null</p> <p>Description: The scope of the children scope elements.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
clientCostCenter	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's clientCostCenter field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a clientCostCenter field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's documentFolder field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a clientCostCenter field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
duplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's duplicates field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a duplicates field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 190. ScopeElementScope Field Description (continued)

Field	Detail
impact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's impact field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a impact field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
mitigationFactors	<p>Type: MitigationFactorScope</p> <p>Default value: null</p> <p>Description: The scope object for the MitigationFactor.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's orderOfMagnitudeCostBenefits field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a orderOfMagnitudeCostBenefits field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: ScopeElementScope</p> <p>Default value: null</p> <p>Description: This field is <i>true</i> if the ScopeElement's parent field should be loaded or saved, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
project	<p>Type: ScopeElementScope</p> <p>Default value: null</p> <p>Description: The scope of the parent object.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 190. ScopeElementScope Field Description (continued)

Field	Detail
resourceTaskAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's resourceAssignments field should be loaded or saved, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
riskMatrix	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's riskMatrix field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a riskMatrix field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's rtfAssignments field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a rtfAssignments field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scheduleDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's proposedDate and/or approvedDate field should be loaded or saved, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 190. *ScopeElementScope* Field Description (continued)

Field	Detail
scorecardAssignment	<p>Type: ScorecardScope</p> <p>Default value: null</p> <p>Description: The scope of the children scorecards.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
state	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's state field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a state field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
statusUpdate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the ScopeElement's statusUpdate field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a statusUpdate field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
wbsFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the AbstractAggregateScope's wbsFinancials field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a wbsFinancials field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 190. ScopeElementScope Field Description (continued)

Field	Detail
workElement	<p>Type: WorkElementScope</p> <p>Default value: null</p> <p>Description: The scope of the ScopeElement's corresponding work element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
worksheetFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if the AbstractAggregateScope's worksheetFinancials field should be loaded or saved, and is <i>false</i> if otherwise. This field is ignored if the corresponding ScopeElement does not have a worksheetFinancials field.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

ScopeManagementModuleScope Description

Package: com.ibm.rpm.scopemanagement.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to AdministrationModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 191. ScopeManagementModuleScope Field Description

Field	Detail
actionRtfs	Type: boolean
	Default value:TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
actionStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
attributeCategories	Type: AttributeScope
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
changeRequestRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
changeRequestStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
customFieldCategories	Type: CustomFieldScope
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 191. ScopeManagementModuleScope Field Description (continued)

Field	Detail
defectRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
deliverableRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
issueRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
issueStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
milestoneRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
requirementRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 191. *ScopeManagementModuleScope* Field Description (continued)

Field	Detail
requirementStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
riskRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
riskStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
scopeFolders	Type: ScopeElementScope
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
scorecardFolders	Type: ScorecardScope
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
serviceRequestRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Table 191. ScopeManagementModuleScope Field Description (continued)

Field	Detail
serviceRequestStates	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
summaryTaskRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A
taskRtfs	Type: boolean
	Default value: TBD
	Description: TBD
	Field validation description: TBD
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ScopeScheduleDate Description

Package: com.ibm.rpm.scopemanagement.containers

Extends: RPMObject

Usage

ScopeScheduleDate is used to represent a start date, a finish date, duration, and hours worked on scope element.

Parent is mandatory, allowed parent type are AbstractScope and AbstractAggregateScope.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

From RPMObject

From ScheduleDate

Related Objects

- AbstractScope
- AbstractAggregateScope

PrecisionType

Description

Package: com.ibm.rpm.scopemanagement.types

Usage

TBD

Value

The following table lists the values for this object.

Table 192. PrecisionType Value Description

Value	Description
High	Defines that the object has a high precision.
Low	Defines that the object has a low precision.
Medium	Defines that the object has a medium precision.

Related Objects

N/A

Security

This section describes the objects and scope available in the Security category of the Web Services API.

ActionItemSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

RPM predefined Security Role for **ActionItem**.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 193. ActionItemSecurityRole Field Description

Field	Detail
canEditWBSActionRTFs	Type: boolean
	Default value: false
	Description: Indicates that WBSActionRTFs can be edited.
	Field validation description: N/A
canViewApprovedCostBenefits	Additional field security restrictions: N/A
	Type: boolean
	Default value: false
	Description: Indicates that ApprovedCostBenefits can be viewed.
canEditApprovedCostBenefits	Field validation description: N/A
	Additional field security restrictions: N/A
	Type: boolean
	Default value: false
canEditApprovedCostBenefits	Description: Indicates that ApprovedCostBenefits can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline, Estimate, Dates, Work Sheet Financials, and Affected Assignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. *ActionItemSecurityRole Field Description (continued)*

Field	Detail
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Default can be set as or cancelled.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. *ActionItemSecurityRole Field Description (continued)*

Field	Detail
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScopeManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be transferred to scope management view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferOrMoveScopeElementsAcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. *ActionItemSecurityRole Field Description (continued)*

Field	Detail
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canAssignProfile	Type: boolean
	Default value: false
	Description: Indicates that Profile can be assigned.
	Field validation description: N/A
	Additional field security restrictions: N/A
canRemoveProfile	Type: boolean
	Default value: false
	Description: Indicates that Profile can be removed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canAssignParticipant	Type: boolean
	Default value: false
	Description: Indicates that Participant can be assigned.
	Field validation description: N/A
	Additional field security restrictions: N/A
canAssignResource	Type: boolean
	Default value: false
	Description: Indicates that Resource can be assigned.
	Field validation description: N/A
	Additional field security restrictions: N/A
canRemoveResourceOrParticipant	Type: boolean
	Default value: false
	Description: Indicates that ResourceOrParticipant can be removed from the action item.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 193. ActionItemSecurityRole Field Description (continued)

Field	Detail
canStartWorkflow	Type: boolean
	Default value: false
	Description: Indicates that Workflow can be started.
	Field validation description: N/A
canStopWorkflow	Additional field security restrictions: N/A
	Type: boolean
	Default value: false
	Description: Indicates that Workflow can be stopped.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **SecurityRole**

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

ChangeRequestSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

ChangeRequestSecurityRole represents a change request security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 194. ChangeRequestSecurityRole Field Description

Field	Detail
canViewWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewOccuredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccuredDateTime can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOccuredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccuredDateTime can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole* Field Description (continued)

Field	Detail
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Default can be set as or cancelled.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole* Field Description (continued)

Field	Detail
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScope ManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be transferred to scope management view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferOrMoveScopeElements AcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole Field Description (continued)*

Field	Detail
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 194. *ChangeRequestSecurityRole* Field Description (continued)

Field	Detail
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource or Participant can be removed form the change request.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

DefectSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

DefectSecurityRole represents a defect security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 195. DefectSecurityRole Field Description

Field	Detail
canEditWBSDefectRTFs	Type: boolean Default value: false Description: Indicates that WBSDefectRTFs can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewWBSDefectRTFs	Type: boolean Default value: false Description: Indicates that WBSDefectRTFs can be viewed. Field validation description: N/A Additional field security restrictions: N/A
canAddRemoveBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed. Field validation description: N/A Additional field security restrictions: N/A

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that can be editedOrderOfMagnitudeCostBenefits.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScopeManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be transferred to scope management view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canTransferOrMoveScopeElements AcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefaults	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Defaults can be set as or cancelled.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScheduleInformations	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformations can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 195. DefectSecurityRole Field Description (continued)

Field	Detail
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

DeliverableSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

DeliverableSecurityRole represents a deliverable security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 196. DeliverableSecurityRole Field Description

Field	Detail
canBreakdownWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewEstStartEstFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EstStartEstFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDeliverableRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DeliverableRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDeliverableRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DeliverableRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewSummaryTasksRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SummaryTasksRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditEstStartEstFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EstStartEstFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewEarnedValueBudgetCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EarnedValueBudgetCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProfitBudgetCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProfitBudgetCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRankPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RankPriority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRankPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RankPriority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TaskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCopyProposedToPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedToPlan can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole* Field Description (continued)

Field	Detail
canEditForChildrenDatesActual	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesActual can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditForChildrenDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditForChildrenDatesPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesPlan can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EffortDurationTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. DeliverableSecurityRole Field Description (continued)

Field	Detail
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canReplaceProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be replaced.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canAcceptRejectAssignmentEETC WBSBudgetEETC	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssignmentEETCWBSBudgetEETC can be accepted or rejected.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAcceptRejectVarianceAcceptReject ForecastDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VarianceAcceptRejectForecastDates can be accepted or rejected.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeWBSItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItemsWithActualAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemsWithActualAssignments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
can be modifiedFlagDeleteMandatoryTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FlagDeleteMandatoryTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewFinancialSystemStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialSystemStatus can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canViewDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
allDocumentsPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that all permissions are granted to documents held in this deliverable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocumentsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateNoteMinutes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that NoteMinutes can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeletePublicDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicDocuments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canPermanentlyDeleteDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishDocumentsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be published to template.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canUnlockAnyDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AnyDocuments can be unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDeletedDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDeletedDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
allScopeElementsPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that permissions are granted for Scope Elements under this deliverable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateActions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Actions can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateChangeRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ChangeRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDefect	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Defect can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateIssues	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Issues can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole Field Description (continued)*

Field	Detail
canCreateRequirements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Requirements can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateRisks	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Risks can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateServiceRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ServiceRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeletePublicScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishScopeElementsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be published to template.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllScopeElements can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. DeliverableSecurityRole Field Description (continued)

Field	Detail
canSynchronizeWithFinancialSystem	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the deliverable can be Synchronize With the Financial System.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 196. *DeliverableSecurityRole* Field Description (continued)

Field	Detail
canCreateScopeElementsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

DocumentSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

DocumentSecurityRole represents document security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 197. DocumentSecurityRole Field Description

Field	Detail
canAddRemoveAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be added or removed. Field validation description: N/A Additional field security restrictions: N/A
canEditAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be viewed. Field validation description: N/A Additional field security restrictions: N/A
canBreakdown	Type: boolean Default value: false Description: Indicates that the document can be Broken-down. Field validation description: N/A Additional field security restrictions: N/A
canDelete	Type: boolean Default value: false Description: Indicates that the document can be deleted. Field validation description: N/A Additional field security restrictions: N/A

Table 197. DocumentSecurityRole Field Description (continued)

Field	Detail
canLockUnlock	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the document can be locked or unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPermanentlyDelete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the document can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRename	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the document can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canUnlockAny	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Any can be unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDocumentProperties	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentProperties can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 197. DocumentSecurityRole Field Description (continued)

Field	Detail
canCheckOutOrCheckOutTo	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the “Check Out” and the “Check Out To” operations are available.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDocumentSummary	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentSummary can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDocumentSummary	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentSummary can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 197. DocumentSecurityRole Field Description (continued)

Field	Detail
canEditKeywords	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Keywords can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewKeywords	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Keywords can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditVisibleAtParent	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VisibleAtParent can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 197. DocumentSecurityRole Field Description (continued)

Field	Detail
canViewVisibleAtParent	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VisibleAtParent can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canMoveAcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the document can be moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveAs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the “save as” operation is available on the document.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 197. DocumentSecurityRole Field Description (continued)

Field	Detail
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From GenericSecurityRole

From RPMObject

Related Objects

N/A

FolderSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

FolderSecurityRole represents a folder security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 198. FolderSecurityRole Field Description

Field	Detail
canBreakdownFolders	Type: boolean Default value: false Description: Indicates that Folders can be broken-down. Field validation description: N/A Additional field security restrictions: N/A
canDeleteFolders	Type: boolean Default value: false Description: Indicates that Folders can be deleted. Field validation description: N/A Additional field security restrictions: N/A

Table 198. FolderSecurityRole Field Description (continued)

Field	Detail
canPermanentlyDeleteFolder	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Folder can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishRenderPrivateFolder	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RenderPrivateFolder can be published.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Folders can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferOrMoveScopeElementsAcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 198. FolderSecurityRole Field Description (continued)

Field	Detail
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From GenericSecurityRole

From RPMObject

Related Objects

N/A

GenericSecurityRole Description

Package: com.ibm.rpm.security.container

Extends: RPMObject

Usage

GenericSecurityRole offers an additional level of abstraction in the security role object structure. It is not a concrete type. It offers additional generic information to make the object model simpler to understand.

Supported API Calls

None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 199. GenericSecurityRole Field Description

Field	Detail
name	Type: string
	Default value:
	Description: The name of the security role.
	Field validation description: Limit 50 characters
name_is_modified	Additional field security restrictions: N/A
	Type: boolean
	Default value: false
	Description: Indicates if the field name is modified.
name_is_modified	Field validation description: True or False
	Additional field security restrictions: N/A

Table 199. *GenericSecurityRole Field Description (continued)*

Field	Detail
securityRoles	<p>Type: SecurityRole[]</p> <p>Default value: N/A</p> <p>Description: Indicates children security roles.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

IssueSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

IssueSecurityRole represents an issue security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 200. IssueSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canEditApprovedBy	Type: boolean
	Default value: false
	Description: Indicates that ApprovedBy can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A
canViewApprovedBy	Type: boolean
	Default value: false
	Description: Indicates that ApprovedBy can be viewed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canAddRemoveAttributes	Type: boolean
	Default value: false
	Description: Indicates that Attributes can be added or removed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canEditAttributes	Type: boolean
	Default value: false
	Description: Indicates that Attributes can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A
canViewAttributes	Type: boolean
	Default value: false
	Description: Indicates that Attributes can be viewed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canBreakdownScopeElements	Type: boolean
	Default value: false
	Description: Indicates that ScopeElements can be broken-down.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 200. *IssueSecurityRole* Field Description (continued)

Field	Detail
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Default can be set as or cancelled.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canEditClosedBy	Type: boolean
	Default value: false
	Description: Indicates that ClosedBy can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A
canViewClosedBy	Type: boolean
	Default value: false
	Description: Indicates that ClosedBy can be viewed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canAddRemoveDuplicates	Type: boolean
	Default value: false
	Description: Indicates that Duplicates can be added or removed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canViewDuplicates	Type: boolean
	Default value: false
	Description: Indicates that Duplicates can be viewed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canViewTimesReassigned	Type: boolean
	Default value: false
	Description: Indicates that TimesReassigned can be viewed.
	Field validation description: N/A
	Additional field security restrictions: N/A
canEditClientName	Type: boolean
	Default value: false
	Description: Indicates that ClientName can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the OrderOfMagnitude and CostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added and removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS View.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScopeManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be transferred to scope management view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canTransferOrMoveScopeElements AcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. *IssueSecurityRole Field Description (continued)*

Field	Detail
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 200. IssueSecurityRole Field Description (continued)

Field	Detail
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `GenericSecurityRole`

From `RPMObject`

From `SecurityRole`

Related Objects

N/A

NotesMinutesSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: `SecurityRole`

Usage

NotesMinutesSecurityRole is used to predefine security role for notes and minutes in Rational Portfolio Manager.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 201. NotesMinutesSecurityRole Field Description

Field	Detail
canAssignParticipant	Type: boolean Default value: false Description: Indicates that Participant can be assigned. Field validation description: N/A Additional field security restrictions: N/A
canAddRemoveAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be added and removed. Field validation description: N/A Additional field security restrictions: N/A
canBreakdown	Type: boolean Default value: false Description: Indicates that Breakdown is enabled Field validation description: N/A Additional field security restrictions: N/A
canDelete	Type: boolean Default value: false Description: Indicates that the notes can be deleted. Field validation description: N/A Additional field security restrictions: N/A
canEditAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be edited. Field validation description: N/A Additional field security restrictions: N/A

Table 201. NotesMinutesSecurityRole Field Description (continued)

Field	Detail
canViewDescription	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Description can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates you that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewVisibleAtParent	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VisibleAtParent can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 201. NotesMinutesSecurityRole Field Description (continued)

Field	Detail
canEditDescription	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Description can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 201. NotesMinutesSecurityRole Field Description (continued)

Field	Detail
canEditVisibleAtParent	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VisibleAtParent can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canLockUnlock	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the notes minutes can be Lock or Unlock.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPermanentlyDelete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the notes minutes can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRename	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the notes minutes can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 201. NotesMinutesSecurityRole Field Description (continued)

Field	Detail
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canUnlockAny	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Any can be unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

PoolSecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

PoolSecurityRole represents a pool security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- LoadFromID
- LoadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 202. PoolSecurityRole Field Description

Field	Detail
canViewAttributes	Type: boolean Default value: false Description: Indicates that Attributes can be viewed. Field validation description: N/A Additional field security restrictions: N/A
canEditSecurityLevel	Type: boolean Default value: false Description: Indicates that SecurityLevel can be edited. Field validation description: N/A Additional field security restrictions: N/A

Table 202. PoolSecurityRole Field Description (continued)

Field	Detail
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 202. PoolSecurityRole Field Description (continued)

Field	Detail
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From SecurityRole

From GenericSecurityRole

From RPMObject

Related Objects

N/A

ProjectSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

ProjectSecurityRole represents project security roles.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 203. ProjectSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditBudgetCostRevenueFinancialsTimePhasing	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTimePhasing can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTimePhasing	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTimePhasing can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates you that BudgetCostRevenueFinancialsTotal can be viewed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewEarnedValueBudget CostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EarnedValueBudgetCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProfitBudgetCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProfitBudgetCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be broken down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeWBSItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItemsWithActualAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemsWithActualAssignments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canModifyFlagDeleteMandatoryTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FlagDeleteMandatoryTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewFinancialSystemStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialSystemStatus can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All you can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
allDocumentsPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that all Documents Permissions are Granted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocumentsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateNoteMinutes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that NoteMinutes can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canDeletePublicDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicDocuments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPermanentlyDeleteDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishDocumentsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentsToTemplate can be published.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canUnlockAnyDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AnyDocuments can be unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDeletedDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDeletedDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
allScopeElementsPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that allScopeElements permissions are granted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateActions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Actions can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateChangeRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ChangeRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDefect	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Defect can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateIssues	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Issues can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateRequirements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Requirements can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canCreateRisks	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Risks can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateServiceRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ServiceRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeletePublicScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishScopeElementsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsToTemplate can be published.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllScopeElements can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSynchronizeWithFinancialSystem	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WithFinancialSystem can be synchronized.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateScopeElementsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsDefaultProject	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AsDefaultProject can be set.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditAggregateSubElementWorksheet EstimatesToElementSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AggregateSubElementWorksheet EstimatesToElementSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAggregateSubElementWorksheet EstimatesToElementSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AggregateSubElementWorksheet EstimatesToElementSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditCrossChargeFormulaSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CrossChargeFormulaSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewCrossChargeFormulaSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CrossChargeFormulaSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDoEvCalculationSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DoEvCalculationSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewDoEvCalculationSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DoEvCalculationSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditFinancialTotalsSettingConfiguration	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialTotalsSettingConfiguration can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewFinancialTotalsSettingConfiguration	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialTotalsSettingConfiguration can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditIncludeProjectLevelAssignmentsInFinancialsSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IncludeProjectLevelAssignmentsInFinancialsSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewIncludeProjectLevelAssignmentsInFinancialsSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IncludeProjectLevelAssignmentsInFinancialsSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditUrlsSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that UrlsSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewUrlsSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that UrlsSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditStateNotification	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that StateNotification can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSendToArchive	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the project can be sent to archive.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canImportExport	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the project can be imported and exported.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canLevelWithIBMRationalPortfolioManager	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the project can be leveled with IBM Rational Portfolio Manager.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canCopyCalculatedResults	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CalculatedResults can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCopyCalculatedResultsWithResource AffectedDatesViolation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CalculatedResultsWithResource AffectedDatesViolation can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateCalendarExceptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CalendarExceptions can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canMergeProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Projects can be merged.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOrderOfMagnitudeCostBenefit	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefit can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewOrderOfMagnitudeCostBenefit	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefit can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canProjectDecommission	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the Project can be decommissioned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveProjectScorecard	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectScorecard can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProjectScorecard	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectScorecard can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProjectScorecard	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectScorecard can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canPublishSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that project Security can be published.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPursuit	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Pursuit can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canMoveProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Projects can be moved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewCalculatedLeveledResults	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CalculatedLeveledResults can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProjectCalendar	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectCalendar can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProjectDescription	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectDescription can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canMarkWBSScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSScopeElements can be marked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignmentType	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssignmentType can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAssignmentType	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssignmentType can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewCurrency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Currency can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultTaskType	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTaskType can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Reference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Reference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates you State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewConfiguration	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Configuration can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditConfiguration	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Configuration can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDiscountRate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DiscountRate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDocumentSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDiscountRate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DiscountRate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPursuit	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Pursuit can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewStateNotification	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that StateNotification can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimeCodes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimeCodes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimesheetApproval	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesheetApproval can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDefaultScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultScorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDiscountRate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DiscountRate can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDefaultScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultScorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTimesheetApproval	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesheetApproval can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewUrls	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Urls can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCopyDatesAndSchedulesCommitAffectedResources	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesAndSchedulesCommitAffectedResources can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. *ProjectSecurityRole* Field Description (continued)

Field	Detail
canCopyProposedToPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedToPlan can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditForChildrenDatesActual	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesActual can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditForChildrenDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditForChildrenDatesPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ForChildrenDatesPlan can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyEffortDurationTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EffortDurationTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignOrAffectProfileToProject	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that profiles can be assigned or affected to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canReplaceProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be replaced.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignOrAffectResourceToProjectWithEffort	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resources can be assigned or affected to the project with efforts.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAcceptRejectAssignmentEETC WBSBudgetEETC	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssignmentEETCWBSBudgetEETC can be accepted or rejected.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canAcceptRejectVarianceAcceptRejectForecastDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that variance and forecast dates can be accepted or rejected on the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBubble	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Bubble can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsBudgets	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsBudgets can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsCostCenterCrossCharge	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsCostCenterCrossCharge can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsCumulatedCashflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsCumulatedCashflow can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewPivotsDefectAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsDefectAttributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsDeliverableElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsDeliverableElements can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsDeliverableElementsFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsDeliverableElementsFinancials can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsEarnedValue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsEarnedValue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsFinanceAssessment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsFinanceAssessment can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewPivotsGeneralHealth	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsGeneralHealth can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsGeneralHealthFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsGeneralHealthFinancials can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsMonthlyResourceUtilization	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsMonthlyResourceUtilization can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsMonthlyTimesheets	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsMonthlyTimesheets can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsNetCashflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsNetCashflow can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewPivotsProjectCrossCharge	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsProjectCrossCharge can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsProjectDeliverableDetail	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsProjectDeliverableDetail can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsResourceSupplyAndDemand	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsResourceSupplyAndDemand can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsResourceUtilization	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsResourceUtilization can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsScopeManagement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsScopeManagement can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewPivotsScopeManagementFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsScopeManagementFinancials can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsTaskAnalyses	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsTaskAnalyses can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsTimephasedBudgets	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsTimephasedBudgets can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsTimesheets	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsTimesheets can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPivotsWBSElementsWithAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsWBSElementsWithAttributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canViewPivotsWBSElementsWithAttributesFinancials	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PivotsWBSElementsWithAttributesFinancials can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishBubble	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Bubble can be published.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAttributesCreateLocalAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that attributes can create Local Attributes on the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReports	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Reports can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProjectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TaskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TaskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProjectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWorkProductRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WorkProductRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDeliverableRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DeliverableRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDeliverableRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DeliverableRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 203. ProjectSecurityRole Field Description (continued)

Field	Detail
canEditWorkProductRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WorkProductRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSummaryTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SummaryTaskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewSummaryTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SummaryTaskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

From **SecurityRole**

Related Objects

N/A

RequirementSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

RequirementSecurityRole represents requirement security roles.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 204. RequirementSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed. Field validation description: N/A Additional field security restrictions: N/A
canEditBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed. Field validation description: N/A Additional field security restrictions: N/A

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RemoveBudgetCostRevenueFinancialsExpenseCapital can be added.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canEditWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that there are no limits to the number of times the requirement can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineCrossCharges	Type: boolean Default value: false Description: Indicates that Cross Charges can be saved by baselines. Field validation description: N/A Additional field security restrictions: N/A
canSaveBaselineEstDatesWSFinancials AndAffectedAssignments	Type: boolean Default value: false Description: Indicates that BaselineEstDatesWSFinancials AndAffectedAssignments can be saved. Field validation description: N/A Additional field security restrictions: N/A
canSaveBaselineWBSDatesWBSFinancials AndAssignments	Type: boolean Default value: false Description: Indicates that BaselineWBSDatesWBSFinancials AndAssignments can be saved. Field validation description: N/A Additional field security restrictions: N/A
canEditDatesApproved	Type: boolean Default value: false Description: Indicates that DatesApproved can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewDatesApproved	Type: boolean Default value: false Description: Indicates that DatesApproved can be viewed. Field validation description: N/A Additional field security restrictions: N/A

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RemoveAttributes can be added.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AsOrCancelDefault can be set.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the “check in all” operation is available on the requirement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsTo WBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the requirement can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canTransferWBSItemsToScope ManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBS Items can be transferred under the requirement on the Scope Management View.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferOrMoveScopeElements AcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that requirement can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 204. RequirementSecurityRole Field Description (continued)

Field	Detail
canStopWorkflow	Type: boolean
	Default value: false
	Description: Indicates that Workflow can be stopped.
	Field validation description: N/A
canEditApprovedCostBenefits	Additional field security restrictions: N/A
	Type: boolean
	Default value: false
	Description: Indicates that ApprovedCostBenefits can be edited.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

From **SecurityRole**

Related Objects

N/A

RiskSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

RiskSecurityRole represents risk security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 205. RiskSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed. Field validation description: N/A Additional field security restrictions: N/A
canEditBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed. Field validation description: N/A Additional field security restrictions: N/A
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed. Field validation description: N/A Additional field security restrictions: N/A

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canViewWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineCrossCharges can be saved</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AsOrCancelDefault can be set.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canEditRiskMatrix	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RiskMatrix can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRiskMatrix	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that RiskMatrix can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsToWBSView can be transferred.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScopeManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemsToScopeManagementView can be transferred.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferOrMoveScopeElementsAcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsAcrossProjects can be transferred or moved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewMitigationFactors	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MitigationFactors can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditMitigationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MitigationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewMitigationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MitigationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 205. RiskSecurityRole Field Description (continued)

Field	Detail
canEditOrderOfMagnitudeMitigationCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeMitigationCostRevenue can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeMitigationCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeMitigationCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditMitigationFactors	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MitigationFactors can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From RPMObject

From SecurityRole

Related Objects

N/A

SecurityGroup

Description

Package: com.ibm.rpm.security.containers

Extends: RPMObject

Usage

SecurityGroup represents a security group, it is a base class for all security groups.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 206. SecurityGroup Field Description

Field	Detail
securityGroups	Type: SecurityGroup[] Default value: false Description: Contains an array of child security groups. Field validation description: N/A Additional field security restrictions: N/A
canCreateEmptyProjects	Type: boolean Default value: false Description: Indicates that EmptyProjects can be created. Field validation description: N/A Additional field security restrictions: N/A

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canCreateProjectsFromDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectsFromDefault can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Projects can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAdministerFinancialSystem	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialSystem can be administered.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewFullProjectWBS	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FullProjectWBS can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAccessPersonalProject	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalProject can be accessed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPortfolioDashboard	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PortfolioDashboard can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canDesignReport	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Report can be designed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAdoptWhatIfAnalysis	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WhatIfAnalysis can be adopted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditExternalIdentifier	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalIdentifier can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateFromWBSTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Template can be created from WBS.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishLocalWBSTemplates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBS Templates can be published to local.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishToMethodWBSTemplates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBS Templates can be published to method.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canDMWBSTemplateFolderAndLinks	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBS Template Folder And Links can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScopeTemplates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeTemplates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDocumentTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentTemplate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAccessAssetManagement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssetManagement can be accessed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDeleteAssetsAndFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssetsAndFolders can be created or deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteAssetsAndFolderFromOthers	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssetsAndFolderFromOthers can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canAccessPortfolioDashboard	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PortfolioDashboard can be accessed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateContractsAndFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ContractsAndFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteContractsAndFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ContractsAndFolders can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditContractsAndFolderNames	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ContractsAndFolderNames can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditGeneralAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that GeneralAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditFinancialAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditCalendarAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CalendarAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWorkflowAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WorkflowAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributeAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AttributeAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceAttributeAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceAttributeAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecardAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScorecardAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatafieldAdmin	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatafieldAdmin can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditCurrencyExchangeRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CurrencyExchangeRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canManageArchivedProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ArchivedProjects can be managed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAlertMessages	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AlertMessages can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationOrganizations	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that LocationOrganizations can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationGeographies	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that LocationGeographies can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditLocationPoolDomains	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that LocationPoolDomains can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditLocationGroups	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that LocationGroups can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimeCodes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAccountCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AccountCodes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultResourceSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultResourceSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditPersonalNickName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalNickName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalUserNameEmail	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalUserNameEmail can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalEffectiveDiscontinueActiveDates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalPassword	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalPassword can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalAddress	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalAddress can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditPersonalInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalInformation can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCompetencyCostsRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditPersonalCompetencySkills	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCompetencySkills can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalCompetencySkills	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCompetencySkills can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCompetencyCostsRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalOrganizationGroupGeographical can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalOrganizationGroup Geographical	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalOrganizationGroupGeographical can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewPersonalBackground	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalBackground can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalBackground	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalBackground can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalPublishedWorkPackages	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalPublishedWorkPackages can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalDocuments can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewPersonalSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalExecutiveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalExecutiveAttributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalScorecardPivot	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalScorecardPivot can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalExecutiveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalExecutiveAttributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditResourceName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceNickName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceNickName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceUserNameEmail	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceUserNameEmail can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceEffectiveDiscontinueActiveDates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourcePassword	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourcePassword can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditResourceAddress	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceAddress can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceInformation can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceCompetencyCostsRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewResourceRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceCompetencyCostsRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceCompetencyCostsRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceCompetencySkills	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceCompetencySkills can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceCompetencySkills	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceCompetencySkills can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceOrganizationGroupGeographical	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrganizationGroupGeographical can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewResourceOrganizationGroupGeographical	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrganizationGroupGeographical can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceBackground	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceBackground can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceBackground	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceBackground can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourcePublishedWorkPackages	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourcePublishedWorkPackages can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canEditResourceDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceDocuments can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceSecurity can be edited</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceSettings can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceExecutiveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceExecutiveAttributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceSettings	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceSettings can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceExecutiveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceExecutiveAttributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewResourceScorecardPivot	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceScorecardPivot can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceLogon	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceLogon can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceAddress	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceAddress can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceExecutiveAccessLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceExecutiveAccessLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewResourceName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceName can be viewed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWorkManagement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WorkManagement can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScopeManagement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeManagement can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewCommunications	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Communications can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalCalendar	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCalendar can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canViewTimesheets	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Timesheets can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExpenses	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Expenses can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateProjectsFromWBSTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectsFromWBSTemplate can be created</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateResourcePools	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourcePools can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteResourcePools	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourcePools can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateResources	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resources can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canDeleteResources	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resources can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyFlagDeleteMandatoryTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FlagDeleteMandatoryTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPoolNames	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PoolNames can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceFullName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceFullName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalCalendar	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalCalendar can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceCalendar	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceCalendar can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canCreateClientCostCenterDivisionFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientCostCenterDivisionFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteClientCostCenterDivisionFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientCostCenterDivisionFolders can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientCostCenterDivisionFolderNames	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientCostCenterDivisionFolderNames can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceEffectiveDiscontinueActiveDates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceExecutiveAccessLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceExecutiveAccessLevel can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canCreateScopeTemplates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeTemplates can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocumentTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentTemplate can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canConvertProjectToOrganization	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProjectToOrganization can be converted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWhatIfAnalysis	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WhatIfAnalysis can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPersonalNickName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalNickName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceNickName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceNickName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 206. SecurityGroup Field Description (continued)

Field	Detail
canAccessPjC	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PjC can be accessed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPersonalEffectiveDiscontinueActiveDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PersonalEffectiveDiscontinueActiveDates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
Description	<p>Type: string</p> <p>Default value:</p> <p>Description: Indicates the Description.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From GenericSecurityRole

From RPMObject

From SecurityRole

Related Objects

N/A

SecurityRole

Description

Package: com.ibm.rpm.security.containers

Extends: RPMObject

Usage

SecurityRole represents a security role it is a base class for all security roles.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 207. SecurityRole Field Description

Field	Detail
securityRoles	Type: SecurityRole[]
	Default value:
	Description: Child Security role array.
	Field validation description:
	Additional field security restrictions: N/A
name	Type: string
	Default value:
	Description: Name of the security role
	Field validation description:
	Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

N/A

SecurityRoleAssignment Description

Package: com.ibm.rpm.security.containers

Extends: RPMObject

Usage

SecurityRoleAssignment represents the assignment of a **SecurityRole**.

Supported API Calls

- None

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 208. SecurityRoleAssignment Field Description

Field	Detail
securityRole	Type: SecurityRole Default value: Description: The Security Role used for the assignment Field validation description: Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

N/A

SecurityRoleCategory Description

Package: com.ibm.rpm.security.container

Extends: GenericSecurityRole

Usage

SecurityRoleCategory enables security roles to be qualified by categories. **SecurityRoleCategory** is a container of security roles.

Supported API Calls

None

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

Related Objects

N/A

ServiceRequestSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

ServiceRequestSecurityRole represents a service request security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 209. ServiceRequestSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canViewClientName	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClientName can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicateNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DuplicateNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewESTStartAndESTFinish	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ESTStartAndESTFinish can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewElementSecurity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ElementSecurity can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canEditExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewExternalReference	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ExternalReference can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOccurredDateTime	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OccurredDateTime can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Priority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canEditRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewRank	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Rank can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewReferenceNumber	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ReferenceNumber can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that State can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTargetDate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TargetDate can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canEditOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewOrderOfMagnitudeCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that OrderOfMagnitudeCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewProposedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canViewQuantificationImpact	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that QuantificationImpact can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScorecards	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scorecards can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferScopeElementsToWBSView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be transferred to WBS view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canTransferWBSItemsToScopeManagementView	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be transferred to scope management view.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canTransferOrMoveScopeElements AcrossProjects	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the service request can be transferred or moved across projects.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceOrParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceOrParticipant can be removed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canEditTimesReassigned	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TimesReassigned can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBreakdownScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be broken-down</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canDeleteScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElements can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSetAsOrCancelDefault	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Default can be set as or cancelled.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canChangeScopeElementsItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCheckInAll	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that All can be checked in.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. *ServiceRequestSecurityRole Field Description (continued)*

Field	Detail
canEditClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewClosedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ClosedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDuplicates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Duplicates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditApprovedCostBenefits	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedCostBenefits can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Unlimited can be baselined.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineCrossCharges	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that CrossCharges can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSaveBaselineEstDatesWSFinancialsAndAffectedAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineEstDatesWSFinancialsAndAffectedAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineWBSDatesWBSFinancials AndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancials AndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesApproved	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesApproved can be viewed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 209. ServiceRequestSecurityRole Field Description (continued)

Field	Detail
canEditApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewApprovedBy	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ApprovedBy can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **GenericSecurityRole**

From **RPMObject**

From **SecurityRole**

Related Objects

N/A

TaskSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

TaskSecurityRole represents task security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 210. TaskSecurityRole Field Description

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be added or removed. Field validation description: N/A Additional field security restrictions: N/A
canEditBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be edited. Field validation description: N/A Additional field security restrictions: N/A
canViewBudgetCostRevenueFinancialsBenefits	Type: boolean Default value: false Description: Indicates that BudgetCostRevenueFinancialsBenefits can be viewed. Field validation description: N/A Additional field security restrictions: N/A

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canAddRemoveBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsExpenseCapital	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsExpenseCapital can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewBudgetCostRevenueFinancialsTotal	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BudgetCostRevenueFinancialsTotal can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewEarnedValueBudgetCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EarnedValueBudgetCostRevenue can be viewed</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canViewProfitBudgetCostRevenue	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProfitBudgetCostRevenue can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCloseElement	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Element can be closed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewMilestoneRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that MilestoneRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TaskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewTaskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that TaskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canEditWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSActionRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSActionRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSChangeRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSChangeRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSDefectRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSDefectRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canEditWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSIssueRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSIssueRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRequirementRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRequirementRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSRiskRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSRiskRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canEditWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSServiceRequestRTFs	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSServiceRequestRTFs can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDurationComplete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DurationComplete can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canBaselineBaselineUnlimited	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates there is no limit to the number of times the Baseline can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canClearBaselineBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Baseline can be cleared.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canSaveBaselineWBSDatesWBSFinancialsAndAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that BaselineWBSDatesWBSFinancialsAndAssignments can be saved.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewConstraints	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Constraints can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCopyProposedToPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ProposedToPlan can be copied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesActual	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesActual can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canViewDatesBaseline	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesBaseline can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesExpected	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesExpected can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDatesPlan	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DatesPlan can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyAssignment	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignment can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyEffortDurationTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that EffortDurationTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canModifySearchOptions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SearchOptions can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileCost	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileCost can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewResourceProfileRates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceProfileRates can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canAssignProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canReplaceProfile	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Profile can be replaced.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAssignResource	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Resource can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveResourceParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ResourceParticipant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canAddRemoveAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAttributes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Attributes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDefaultTimeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DefaultTimeCodes can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditIdentificationRankPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IdentificationRankPriority can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canViewIdentificationRankPriority	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IdentificationRankPriority can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditIdentificationState	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IdentificationState can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditIdentificationTaskType	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that IdentificationTaskType can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAcceptRejectAssignmentEETC WBSBudgetEETC	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AssignmentEETCWBSBudgetEETC can be accepted and rejected.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAcceptRejectVarianceAccept RejectForecastDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that VarianceAcceptRejectForecastDates can be accepted and rejected.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canChangeWBSItemTypes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemTypes can be changed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeleteWBSItemsWithActual Assignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItemsWithActualAssignments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canModifyFlagDeleteMandatoryTask	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FlagDeleteMandatoryTask can be modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRenameWBSItems	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSItems can be renamed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canViewFinancialSystemStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that FinancialSystemStatus can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewWBSScheduleInformation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that WBSScheduleInformation can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canAddRemoveDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be added or removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewDependency	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Dependency can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
allDocumentPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that all permissions are granted to the Documents in the task.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canCreateDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateDocumentsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that DocumentsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateNoteMinutes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that NoteMinutes can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canDeletePublicDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicDocuments can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPermanentlyDeleteDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Documents can be permanently deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishDocumentsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: that Documents can be published to template.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canUnlockAnyDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AnyDocuments can be unlocked.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDeletedDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDeletedDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllDocuments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllDocuments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
allScopeElementsPermissionsGranted	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that all permissions are granted for Scope Elements held in the task.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateActions	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Actions can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateChangeRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ChangeRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canCreateDefect	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Defect can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateScopeElementsFolders	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ScopeElementsFolders can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateIssues	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Issues can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateRequirements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Requirements can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateRisks	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Risks can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canCreateServiceRequests	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that ServiceRequests can be created.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canDeletePublicScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that PublicScopeElements can be deleted.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canPublishScopeElementsToTemplate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Scope Elements can be published to template.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAllScopeElements	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that AllScopeElements can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canSynchronizeWithFinancialSystem	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that the task can be Synchronized with the Financial System.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewHistory	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that History can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 210. TaskSecurityRole Field Description (continued)

Field	Detail
canStopWorkflow	Type: boolean Default value: false Description: Indicates that Workflow can be stopped. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From GenericSecurityRole

From RPMObject

From SecurityRole

Related Objects

N/A

TemplateFolderSecurityRole Description

Package: com.ibm.rpm.security.containers

Extends: SecurityRole

Usage

TemplateFolderSecurityRole represents template folder security role.

Parent is mandatory, allowed parent type is **SecurityGroup**.

Supported API Calls

- save
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 211. *TemplateFolderSecurityRole* Field Description

Field	Detail
canBreakdownFolders	Type: boolean Default value: false Description: Indicates that Folders can be broken-down. Field validation description: N/A Additional field security restrictions: N/A
canDeleteFolderUnpublishTemplate	Type: boolean Default value: false Description: Indicates that FolderUnpublishTemplate can be deleted. Field validation description: N/A Additional field security restrictions: N/A
canPublishRenderPrivateFolder	Type: boolean Default value: false Description: Indicates that RenderPrivateFolder can be published. Field validation description: N/A Additional field security restrictions: N/A
canRenameFoldersFolders	Type: boolean Default value: false Description: Indicates that FoldersFolders can be renamed. Field validation description: N/A Additional field security restrictions: N/A
canMoveTemplateFolders	Type: boolean Default value: false Description: Indicates that TemplateFolders can be moved. Field validation description: N/A Additional field security restrictions: N/A

Table 211. *TemplateFolderSecurityRole Field Description (continued)*

Field	Detail
canAssignParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be assigned.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canViewAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Assignments can be viewed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canEditSecurityLevel	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that SecurityLevel can be edited.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canRemoveParticipant	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Participant can be removed.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStartWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be started.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
canStopWorkflow	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Indicates that Workflow can be stopped.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `GenericSecurityRole`

From `RPMObject`

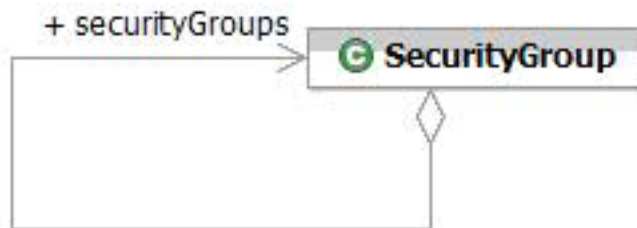
From `SecurityRole`

Related Objects

N/A

Security Object Relationship Diagrams

SecurityGroup



SecurityRole



SecurityGroupScope

Description

Package: com.ibm.rpm.security.scope

Extends: RPMObjectScope

Usage

SecurityGroupScope represents a scope to navigate objects related to **SecurityGroup**. It is used to browse **SecurityGroup** object graph.

Parent is not mandatory.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 212. SecurityGroupScope Field Description

Field	Detail
securityGroupScope	Type: SecurityGroupScope Default value: N/A Description: Children security group scope. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: SecurityGroupScope Default value: N/A Description: Parent security role scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

- RPMObjectScope
- SecurityGroup

Related Objects

N/A

SecurityRoleScope Description

Package: com.ibm.rpm.security.scope

Extends: RPMObjectScope

Usage

SecurityRoleScope represents a scope to navigate objects related to **SecurityRole**. It is used to browse SecurityRole object graph.

Parent is not mandatory.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 213. SecurityRoleScope Field Description

Field	Detail
securityRoles	Type: SecurityRoleScope Default value: Description: Children security role scope. Field validation description: Additional field security restrictions: N/A
parent	Type: SecurityRoleScope Default value: Description: Parent security role scope. Field validation description: Additional field security restrictions: N/A

Inherited Fields

- RPMObjectScope
- SecurityRole

Related Objects

- RPMObjectScope
- SecurityRole

ActionItemSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

ActionItemSecurityRoleType represents the different types of security roles for action items.

Fields

The following table lists the values for this object.

Table 214. ActionItemSecurityRoleType Value Description

Value	Description
ActionItemGroup	Indicates the group role for an action item.
ActionItemParticipant	Indicates the participant role for an action item.
ActionItemResponsible	Indicates the responsible role for an action item.

Table 214. *ActionItemSecurityRoleType Value Description (continued)*

Value	Description
ActionItemTeamMember	Indicates the team member role for an action item.
ActionItemVisitor	Indicates the visitor role for an action item.
ActionItemWorkflowVisitor	Indicates the workflow visitor role for an action item.

Related Objects

N/A

ChangeRequestSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

ChangeRequestSecurityRoleType represents the different types of security roles for change requests.

Fields

The following table lists the values for this object.

Table 215. *ChangeRequestSecurityRoleType Value Description*

Value	Description
ChangeRequestGroup	Indicates the group role for a change request.
ChangeRequestParticipant	Indicates the participant role for a change request.
ChangeRequestResponsible	Indicates the responsible role for a change request.
ChangeRequestTeamMember	Indicates the team member role for a change request.
ChangeRequestVisitor	Indicates the visitor role for a change request.
ChangeRequestWorkflowVisitor	Indicates the workflow visitor role for a change request.

Related Objects

N/A

DefectSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

DefectSecurityRoleType represents the different types of security roles for defects.

Fields

The following table lists the values for this object.

Table 216. DefectSecurityRoleType Value Description

Value	Description
DefectGroup	Indicates the group role for a defect.
DefectParticipant	Indicates the participant role for a defect.
DefectResponsible	Indicates the responsible role for a defect.
DefectTeamMember	Indicates the team member role for a defect.
DefectVisitor	Indicates the visitor role for a defect.
DefectWorkflowVisitor	Indicates the workflow visitor role for a defect.

Related Objects

N/A

DeliverableSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

DeliverableSecurityRoleType represents the different types of security roles for deliverables.

Fields

The following table lists the values for this object.

Table 217. DeliverableSecurityRoleType Value Description

Value	Description
DeliverableGroup	Indicates the group role for a defect.
DeliverableManager	Indicates the manager role for a defect.
DeliverableParticipant	Indicates the participant role for a defect.
DeliverableResponsible	Indicates the responsible role for a defect.
DeliverableWorkflowVisitor	Indicates the workflow visitor role for a deliverable.

Related Objects

N/A

DocumentSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

DocumentSecurityRoleType represents the different types of security roles for documents.

Fields

The following table lists the values for this object.

Table 218. DocumentSecurityRoleType Value Description

Value	Description
DocumentGroup	Indicates the group role for a document.
DocumentParticipant	Indicates the participant role for a document.
DocumentResponsible	Indicates the responsible role for a document.
DocumentVisitor	Indicates the visitor role for a document.
DocumentWorkflowVisitor	Indicates the workflow visitor role for a document.

Related Objects

N/A

FolderSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

FolderSecurityRoleType represents the different types of security roles for folders.

Fields

The following table lists the values for this object.

Table 219. FolderSecurityRoleType Value Description

Value	Description
FolderGroup	Indicate the group role for a folder.
FolderManager	Indicate the manager role for a folder.
FolderParticipant	Indicates the participant role for a folder.
FolderVisitor	Indicates the visitor role for a folder.
FolderWorkflowVisitor	Indicates the workflow visitor role for a folder.

Related Objects

N/A

IssueSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

IssueSecurityRoleType represents the different types of security roles for issues.

Fields

The following table lists the values for this object.

Table 220. IssueSecurityRoleType Value Description

Value	Description
IssueGroup	Indicates the group role for an issue.
IssueParticipant	Indicates the participant role for an issue.
IssueResponsible	Indicates the responsible role for an issue.
IssueTeamMember	Indicates the team member role for an issue.
IssueVisitor	Indicates the visitor role for an issue.
IssueWorkflowVisitor	Indicates the workflow visitor role for an issue.

Related Objects

N/A

NotesMinutesSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

NotesMinutesSecurityRoleType represents the different types of security roles for notes minutes.

Fields

The following table lists the values for this object.

Table 221. NotesMinutesSecurityRoleType Value Description

Value	Description
NotesMinutesGroup	Indicates the group role for notes minutes.
NotesMinutesParticipant	Indicates the participant role for notes minutes.

Table 221. *NotesMinutesSecurityRoleType Value Description (continued)*

Value	Description
NotesMinutesResponsible	Indicates the responsible role for notes minutes.
NotesMinutesVisitor	Indicates the visitor role for notes minutes.
NotesMinutesWorkflowVisitor	Indicates the workflow visitor role for notes minutes.

Related Objects

N/A

PoolSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

PoolSecurityRoleType represents the different types of security roles for a pool.

Fields

The following table lists the values for this object.

Table 222. *PoolSecurityRoleType Value Description*

Value	Description
PoolGroup	Indicates the group role for a pool.
PoolParticipant	Indicates the participant role for a pool.
ResourceManager	Indicates the resource manager role for a pool.

Related Objects

N/A

ProjectSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

ProjectSecurityRoleType represents the different types of security roles for a project.

Fields

The following table lists the values for this object.

Table 223. ProjectSecurityRoleType Value Description

Value	Description
CoFinance	Indicates the cofinance role for a project.
CoManager	Indicates the responsible role for a project.
ExecutiveRoles	Indicates the executive role for a project.
Finance	Indicates the finance role for a project.
MethodAuthor	Indicates the Method author role for a project.
ProjectAssignment	Indicates the assignment role for a project.
ProjectGroup	Indicates the group role for a project.
ProjectManager	Indicates the manager role for a project.
ProjectOffice	Indicates the office role for a project.
ProjectParticipant	Indicates the participant role for a project.
ProjectVisitor	Indicates the visitor role for a project.
ProjectWorkflowVisitor	Indicates the workflow visitor role for a project.

Related Objects

N/A

RequirementSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

RequirementSecurityRoleType represents the different types of security roles for a requirement.

Fields

The following table lists the values for this object.

Table 224. RequirementSecurityRoleType Value Description

Value	Description
RequirementGroup	Indicates the group role for a requirement.
RequirementParticipant	Indicates the participant role for a requirement.
RequirementResponsible	Indicates the responsible role for a requirement.
RequirementTeamMember	Indicates the team member role for a requirement.
RequirementVisitor	Indicates the visitor role for a requirement.

Table 224. RequirementSecurityRoleType Value Description (continued)

Value	Description
RequirementWorkflowVisitor	Indicates the workflow visitor role for a requirement.

Related Objects

N/A

RiskSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

RiskSecurityRoleType represents the different types of security roles for a risk.

Fields

The following table lists the values for this object.

Table 225. RiskSecurityRoleType Value Description

Value	Description
RiskGroup	Indicates the group role for a risk.
RiskParticipant	Indicates the participant role for a risk.
RiskResponsible	Indicates the responsible role for a risk.
RiskTeamMember	Indicates the team member role for a risk.
RiskVisitor	Indicates the visitor role for a risk.
RiskWorkflowVisitor	Indicates the workflow visitor role for a risk.

Related Objects

N/A

ServiceRequestSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

ServiceRequestSecurityRoleType represents the different types of security roles for a service request.

Fields

The following table lists the values for this object.

Table 226. ServiceRequestSecurityRoleType Value Description

Value	Description
ServiceRequestGroup	Indicates the group role for a service request.
ServiceRequestParticipant	Indicates the participant role for a service request.
ServiceRequestResponsible	Indicates the responsible role for a service request.
ServiceRequestTeamMember	Indicates the team member role for a service request.
ServiceRequestVisitor	Indicates the visitor role for a service request.
ServiceRequestWorkflowVisitor	Indicates the workflow visitor role for a service request.

Related Objects

N/A

TaskSecurityRoleType Description

Package: com.ibm.rpm.security.types

Usage

TaskSecurityRoleType represents the different types of security roles for a task.

Fields

The following table lists the values for this object.

Table 227. TaskSecurityRoleType Value Description

Value	Description
TaskGroup	Indicate the group role for a task.
TaskParticipant	Indicate the participant role for a task. Indicate the responsible role for a task.
TaskResponsible	Indicate the responsible role for a task.
TaskTeamMember	Indicate the team member role for a task.
TaskWorkflowVisitor	Indicate the workflow visitor role for a task.

Related Objects

N/A

TemplateFolderSecurityRoleType

Description

Package: com.ibm.rpm.security.types

Usage

TemplateFolderSecurityRoleType represents the different types of security roles for a template folder.

Fields

The following table lists the values for this object.

Table 228. TemplateFolderSecurityRoleType xValue Description

Value	Description
FolderGroup	Indicates the group role for a template folder.
FolderManager	Indicates the participant role for a template folder.
FolderParticipant	Indicates the responsible role for a template folder.
FolderVisitor	Indicates the team member role for a template folder.

Related Objects

N/A

Scorecard

This section describes the objects available in the Scorecard category of the Web Services API.

AbstractScorecard

Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardElement

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope, and Assets, only then can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by the user. The responses are weighted on an average which is based on the weights in scorecard definition.

Parent is mandatory, allowed values are ScorecardFolder, Asset, GenericProject, and AbstractScope.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty
- assignScoreCard

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 229. AbstractScorecard Field Description

Field	Detail
probabilityType	Type: ProbabilityType Default value: N/A Description: The type of the weighted average. Field validation description: ProbabilityType.None, ProbabilityType.ProjectBenefit, ProbabilityType.ProjectCosts, ProbabilityType.ProjectRisk, ProbabilityType.ProjectSchedule Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractScorecardEntity

From AbstractScorecardElement

Related Objects

- AssignedScorecard
- ScorecardScope

AbstractScorecardCategory

Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardElement

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets, only then can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by the user. The responses are weighted on an average which is based on the weights in scorecard definition.

Parent is mandatory, allowed parent types are Scorecard and AssignedScorecard.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 230. AbstractScorecardCategory Field Description

Field	Detail
probabilityType	Type: ProbabilityType Default value: N/A Description: The type of the weighted average. Field validation description: ProbabilityType.None, ProbabilityType.ProjectBenefit, ProbabilityType.ProjectCosts, ProbabilityType.ProjectRisk, ProbabilityType.ProjectSchedule Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

Related Objects

- ScorecardCategoryScope
- AssignedScorecardCategory
- ScorecardCategory
-

AbstractScorecardElement Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardEntity

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets, only then can the user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an averaged which is based on the weights in scorecard definition. AbstractScorecardElement represents all scorecard objects except for ScorecardFolder.

Parent is mandatory. Allowed parent types are all scorecard objects, Asset, GenericProject and AbstractScope.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 231. AbstractScorecardElement Field Description

Field	Detail
weight	Type: int Default value: 0 Description: The weight of the element. Field validation description: Value range: 0 – 9999 for ScorecardResponse Value range: 1 – 9999 for Scorecard , ScorecardCategory , and ScorecardQuestion . Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractScorecardEntity

Related Objects

N/A

AbstractScorecardEntity

Description

Package: com.ibm.rpm.scorecard.containers

Extends: RPMObject

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets, only then can the user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an averaged which is based on the weights in scorecard definition. AbstractScorecardEntity represents all Scorecard objects.

Parent is not mandatory. Allowed parent type is all scorecard objects, Asset, GenericProject, and AbstractScope.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 232. AbstractScorecardEntity Field Description

Field	Detail
name	Type: string Default value: N/A Description: The name of the element. This field is mandatory. Field validation description: Limit 1000 characters. Additional field security restrictions: N/A

Table 232. AbstractScorecardEntity Field Description (continued)

Field	Detail
description	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: Description of the element.</p> <p>Field validation description: Limit 1000 characters.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

AbstractScorecardQuestion Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardElement

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope, and Assets only then can the user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average which is based on the weights in scorecard definition.

Parent is mandatory. Allowed parent types are ScorecardCategory and AssignedScorecardCategory.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties

- `getProperty`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 233. AbstractScorecardQuestion Field Description

Field	Detail
toReport	Type: boolean Default value: false Description: Whether the question should be reported. Field validation description: true/false Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

Related Objects

- `ScorecardQuestionScope`
- `AssignedScorecardQuestion`
- `ScorecardQuestion`

AbstractScorecardResponse Description

Package: `com.ibm.rpm.scorecard.containers`

Extends: `AbstractScorecardElement`

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of business objectives. A scorecard can be assigned to Projects, Scope and Assets. Only once assigned can the user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average which is based on the weights in scorecard definition.

Parent is mandatory, allowed parent types are ScorecardQuestion and AssignedScorecardQuestion.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractScorecardEntity

From AbstractScorecardElement

Related Objects

- ScorecardResponseScope
- AssignedScorecardResponse
- ScorecardResponse

AssignedScorecard Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecard

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all

critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder. Assigning a Scorecard to Projects, Scope or Assets creates an AssignedScorecard. The AssignedScorecard can then be used to assign values.

Each AssignedScorecard contains assigned scorecard categories and each AssignedScorecardCategory contains assigned scorecard questions that in turn contain assigned scorecard answers.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an averaged which is based on the weights in scorecard definition. The AssignedScorecard is used to assign actual answers.

Parent is mandatory, allowed values are Asset, GenericProject, and AbstractScope.

This object should never be directly created, in order to create AssignedScorecard, the assignScorecard operation in the Application interface must be used. Refer to the RPM Web Services API Interface section on Application Interface Operations for details.

While using the assignScorecard operation it is possible to get back the AssignedScorecard object, this is done by adding the ScorecardScope to the assignedObjectScope and selecting the correct ReloadType, for details refer to the assignScorecard operation documentation. In addition, after executing the assignScorecard operation, the AssignedScorecard can be loaded using Xpath, therefore, allowing the user to change properties in those objects and save them again.

AssignedScorecard can be unassigned by setting its delete property to true and saving its parent RPMObject (Asset, GenericProject, AbstractScope), which subsequently deletes all the relevant AssignedScorecard, AssignedScorecardCategory, AssignedScorecardQuestion, and AssignedScorecardResponse.

Note: AssignedScorecard cannot be deleted without unassigning a Scorecard from an RPMObject.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 234. AssignedScorecard Field Description

Field	Detail
AssignedScorecardCategories	Type: AssignedScorecardCategory[] Default value: null Description: An array of categories. Field validation description: N/A Additional field security restrictions: N/A
score	Type: int Default value: 0 Description: The score of the assignedScorecard. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
scorecardState	Type: ScorecardState Default value: N/A Description: The state of the scorecard. Field validation description: Not Null Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

From **AbstractScorecard**

Related Objects

- Scorecard
- ScorecardScope

AssignedScorecardCategory Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardCategory

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder. Assigning a Scorecard to Projects, Scope or Assets creates an AssignedScorecard. Only then can AssignedScorecard be used to assign values.

Each AssignedScorecard contains assigned scorecard categories and each AssignedScorecardCategory contains assigned scorecard questions that in turn contain assigned scorecard answers.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an averaged which is based on the weights in scorecard definition.

Parent is mandatory, allowed parent type is AssignedScorecard.

This object should never be created directly, in order to create AssignedScorecardCategory, the assignScorecard operation in the Application interface must be used. Refer to the RPM Web Services API Interfaces section on Application Interface Operations.

While using the assignScorecard operation it is possible to get back the AssignedScorecard object, this is done by adding the ScorecardScope to the assignedObjectScope and selecting the correct ReloadType, for details refer to the assignScorecard operation documentation. In addition, after executing the assignScorecard operation, the AssignedScorecard can be loaded using Xpath, therefore, allowing the user to change properties in those objects and save them again.

AssignedScorecard can be unassigned setting its delete property to true and saving its parent (Asset, GenericProject, AbstractScope), which subsequently deletes all the relevant AssignedScorecard, AssignedScorecardCategory, AssignedScorecardQuestion, and AssignedScorecardResponse.

Note: AssignedScorecardCategory cannot be deleted without unassigning a Scorecard from an RPMObject.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 235. AssignedScorecardCategory Field Description

Field	Detail
score	Type: int Default value: 0 Description: The score of the assignedScorecard. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
assignedScorecardQuestins	Type: AssignedScorecardQuestion[] Default value: null Description: An array of questions. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

From **AbstractScorecardCategory**

Related Objects

- ScorecardCategory
- ScorecardCategoryScope

AssignedScorecardQuestion Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardQuestion

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the

project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder. Assigning a Scorecard to Projects, Scope or Assets creates an AssignedScorecard and can then be used to assign values.

Each AssignedScorecard contains assigned scorecard categories and each AssignedScorecardCategory contains assigned scorecard questions that in turn, contain assigned scorecard answers.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an averaged based on the weights in the scorecard definition.

Parent is mandatory, allowed parent type is AssignedScorecardCategory.

This object should never be directly created, in order to create AssignedScorecardQuestion, the assignScorecard operation in the Application interface must be used. Refer to the RPM Web Services API Interface section on Application Interface Operations for details.

While using the assignScorecard operation it is possible to get back the AssignedScorecard object, this is done by adding the ScorecardScope to the assignedObjectScope and selecting the correct ReloadType, for details refer to the assignScorecard operation documentation. In addition, after executing the assignScorecard operation, the AssignedScorecard can be loaded using Xpath, therefore, allowing the user to change properties in those objects and save them again.

AssignedScorecard can be unassigned by setting its delete property to true and saving its parent RPMObject (Asset, GenericProject, AbstractScope), which subsequently deletes all the relevant AssignedScorecard, AssignedScorecardCategory, AssignedScorecardQuestion, and AssignedScorecardResponse.

Note: AssignedScorecardQuestion cannot be deleted without unassigning a Scorecard from an RPMObject.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 236. AssignedScorecardQuestion Field Description

Field	Detail
responseAuthor	Type: string Default value: N/A Description: The responder. This field is read-only. Field validation description: Limit 32 characters. Must be the login user. Additional field security restrictions: N/A
responseDate	Type: dateTime Default value: N/A Description: The time of response. This field is read-only. Field validation description: The current date. Additional field security restrictions: N/A
assignedScorecardResponses	Type: AssignedScorecardResponse[] Default value: null Description: An array of possible responses. Field validation description: N/A Additional field security restrictions: N/A
score	Type: int Default value: 0 Description: The score of the assignedScorecardQuestion. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

From **AbstractScorecardQuestion**

Related Objects

- ScorecardQuestion
- ScorecardQuestionScope

AssignedScorecardResponse

Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardResponse

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder. Assigning a Scorecard to Projects, Scope, or Assets creates an AssignedScorecard and can then be used to assign values.

Each AssignedScorecard contains assigned scorecard categories and each AssignedScorecardCategory contains assigned scorecard questions that in turn contain assigned scorecard answers.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average based on the weights in scorecard definition.

Parent is mandatory, allowed parent type is AssignedScorecardQuestion .

This object should never be directly created, in order to create AssignedScorecardResponse, the assignScorecard operation in the Application interface must be used. Refer to the RPM Web Services API Interface section on Application Interface Operations for details.

While using the assignScorecard operation it is possible to get back the AssignedScorecard object, this is done by adding the ScorecardScope to the assignedObjectScope and selecting the correct ReloadType, for details refer to the assignScorecard operation documentation. In addition, after executing the assignScorecard operation, the AssignedScorecard can be loaded using Xpath, therefore, allowing the user to change properties in those objects and save them again.

AssignedScorecard can be unassigned by setting its delete property to true and saving its parent RPMObject (Asset, GenericProject, AbstractScope), which subsequently deletes all the relevant AssignedScorecard, AssignedScorecardCategory, AssignedScorecardQuestion, and AssignedScorecardResponse.

Note: AssignedScorecardResponse cannot be deleted without unassigning a Scorecard from an RPMObject.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 237. AssignedScorecardResponse Field Description

Field	Detail
selectedAnswer	Type: boolean Default value: Dependant on the default answer field. Description: Defines whether this answer was selected. Field validation description: true/false Additional field security restrictions: N/A
score	Type: int Default value: 0 Description: The score of the assignedScorecardResponse. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
comments	Type: string Default value: N/A Description: Comments about the selected response only. Field validation description: Limit 255 characters. Only the selected answer can have comments. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `AbstractScorecardEntity`

From `AbstractScorecardElement`

Related Objects

- `ScorecardResponse`
- `ScorecardResponseScope`

AssignedScorecardState

Description

Package: `com.ibm.rpm.scorecard.containers`

Extends: `RPMObject`

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a `ScorecardFolder`. Assigning a Scorecard to Projects, Scope or Assets creates an `AssignedScorecard` that can then be used to assign values.

Each `AssignedScorecard` contains assigned scorecard categories. Each `AssignedScorecardCategory` contains in turn assigned scorecard questions that contain assigned scorecard answers.

Usage

`AssignedScorecardState` is attached to `AssignedScorecard` and designates the state of the `AssignedScorecard`. This object is read from the database and can not be initiated. All operations must be done on `AssignedScorecard` and not directly on this object.

This object has no parent.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 238. AssignedScorecardState Field Description

Field	Detail
published	Type: boolean Default value: false Description: Indicates whether the scorecard has been published. The scorecard is published through the method <code>publishScorecard</code> in the Application interface (API) and not by modifying this field. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A
active	Type: boolean Default value: false Description: Defines whether the <code>assignedScorecard</code> is active for portfolio analysis or not. Field validation description: true/false Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `AssignedScorecard`

Scorecard

Description

Package: `com.ibm.rpm.scorecard.containers`

Extends: `AbstractScorecard`

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder that can contain many scorecard categories. Each ScorecardCategory contains scorecard questions which in turn contain scorecard responses. Only once the scorecard is created, can it be assigned to Projects, Scope, or Assets and can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average based on the weights in the scorecard definition.

Parent is mandatory. Allowed type is ScorecardFolder.

Supported API Calls

- save – only after assignScoreCard
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty
- assignScoreCard

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 239. Scorecard Field Description

Field	Detail
scorecardCategories	Type: ScorecardCategory[] Default value: null Description: An array of categories. Field validation description: N/A Additional field security restrictions: N/A
active	Type: boolean Default value: false Description: Defines whether the scorecard can be assigned or not. Field validation description: true/false Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `AbstractScorecardEntity`

From `AbstractScorecardElement`

From `AbstractScorecard`

Related Objects

- `AssignedScorecard`
- `ScorecardScope`

ScorecardCategory

Description

Package: `com.ibm.rpm.scorecard.containers`

Extends: `AbstractScorecardCategory`

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a `ScorecardFolder`. It can contain many scorecard categories and each `ScorecardCategory` can in turn contain scorecard questions that contain scorecard responses. Only once the scorecard is created, can it be assigned to Projects, Scope, or Assets and can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average which is based on weights in the scorecard definition.

Parent is mandatory. Allowed parent type is `Scorecard`.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXPath`
- `delete`
- `getAllProperties`
- `getProperty`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 240. ScorecardCategory Field Description

Field	Detail
scorecardQuestions	Type: ScorecardQuestion[] Default value: null Description: An array of questions. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractScorecardEntity

From AbstractScorecardElement

From AbstractScorecardCategory

Related Objects

- AssignedScorecardCategory
- ScorecardCategoryScope

ScorecardFolder

Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardEntity

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A ScorecardFolder is a logical grouping of Scorecards. A scorecard contains scorecard categories and each category can in turn contain questions that contain responses. Only once a scorecard is created, can a scorecard be assigned to Projects, Scope, or Assets and can a user set the required responses.

Usage

ScorecardsFolders are used in order to group a few Scorecards under a logical folder.

Scorecard has no parent.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 241. ScorecardFolder Field Description

Field	Detail
scorecards	Type: Scorecard[] Default value: null Description: An array of scorecards. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractScorecardEntity

Related Objects

- ScorecardFolderScope

ScorecardQuestion Description

Package: com.ibm.rpm.scorecard.containers

Extends: AbstractScorecardQuestion

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a ScorecardFolder which contains scorecard categories. Each Scorecard Category contains ScorecardQuestions, which in turn contains ScorecardResponses. Only once the scorecard is created, can it be assigned to Projects, Scope, or Assets and can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average which is based on weights in scorecard definition.

Parent is mandatory, allowed parent type is ScorecardCategory.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXPath
- delete
- getAllProperties
- getProperty

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 242. ScorecardQuestion Field Description

Field	Detail
scorecardResponses	Type: ScorecardResponse[] Default value: null Description: An array of possible responses. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From `AbstractScorecardEntity`

From `AbstractScorecardElement`

From `AbstractScorecardQuestion`

Related Objects

- `AssignedScorecardQuestion`
- `ScorecardQuestionScope`

ScorecardResponse

Description

Package: `com.ibm.rpm.scorecard.containers`

Extends: `AbstractScorecardResponse`

The balanced scorecard is a management tool that provides visibility on the evolution of the business and project/Assets/Scope goals and the performance of the business strategy used. The implementation of the balanced scorecard for the project/portfolio management enables the identification and monitoring of all critical elements that affect the achievement of the business objectives. The scorecard can be assigned to Projects, Scope and Assets.

A scorecard is created in administration under a `ScorecardFolder` and can contain scorecard categories. Each `ScorecardCategory` contains scorecard questions which in turn contain scorecard responses. Only once the scorecard is created, can it be assigned to Projects, Scope, or Assets and can a user set the required responses.

Usage

Scorecards are used in order to evaluate objects. Their questions and responses are set by a user. The responses are weighted on an average which is based on weights in scorecard definition.

Parent is mandatory, allowed parent type is `ScorecardQuestion`

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXPath`
- `delete`
- `getAllProperties`
- `getProperty`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 243. ScorecardResponse Field Description

Field	Detail
defaultResponse	Type: boolean Default value: false Description: Whether this response is the default one or not. Field validation description: true/false Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractScorecardEntity**

From **AbstractScorecardElement**

Related Objects

- **AssignedScorecardResponse**
- **ScorecardResponseScope**

ErrorCodes

Description

Package: com.ibm.rpm.scorecard.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file `errorCode.properties` according to the integer error code provided.

Scorecard errors are specific to the scorecards section of the API.

Scorecard error codes ranges: 405,001 - 406,000

- 405,001 - 405,299: validation codes
- 405,300 - 405,499: xpath codes
- 405,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 244. Scorecard Validation Error Codes

Code	Description
405001	Published property cannot be modified, use publish operation.
405002	Invalid number of selected responses for scorecard question.
405003	The context does not match the object the Scorecard container is being assigned to. This is possibly due to the use of an incorrect module object when creating the Scorecard container.
405004	Only one scorecard can be assigned to the specified container.

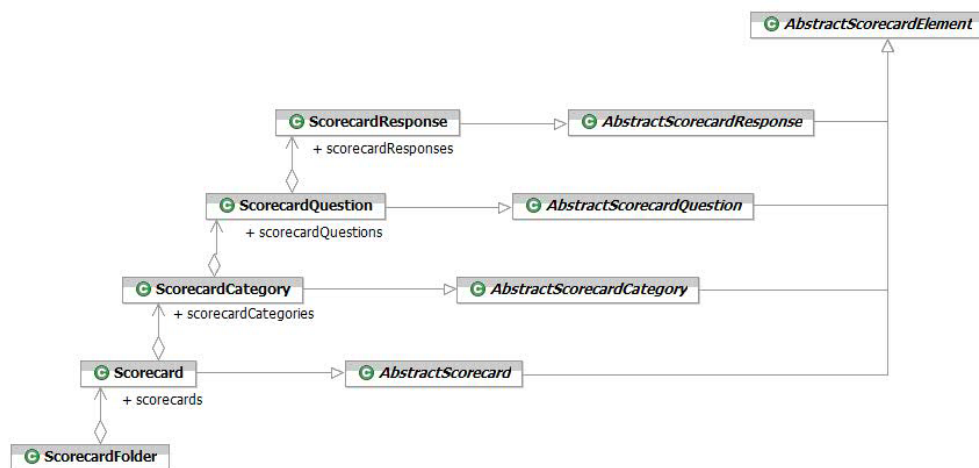
Inherited Fields

N/A

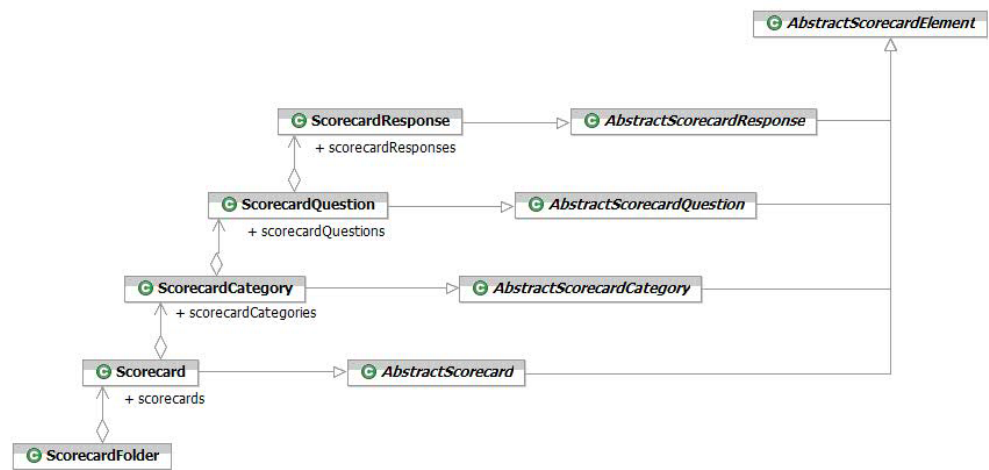
Related Objects

N/A

Scorecard Object Relationship Diagrams AssignedScorecard



Scorecard



AbstractScorecardScope

Description

Package: com.ibm.rpm.scorecard.scope

Extends: RPMObjectScope

Usage

This object represents a scope to navigate to objects that are related to any scorecard object.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 245. AbstractScorecardScope Field Description

Field	Detail
parent	Type: RPMObjectScope Default value: N/A Description: The parent scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ScorecardCategoryScope

Description

Package: com.ibm.rpm.scorecard.scope

Extends: AbstractScorecardScope

Usage

This object represents a scope to navigate to objects that are related to a **ScorecardCategory** or **AssignedScorecardCategory**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 246. ScorecardCategoryScope Field Description

Field	Detail
scorecardQuestions	Type: ScorecardQuestionScope Default value: N/A Description: The scope of the scorecardQuestion. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

From **AbstractScorecardScope**

Related Objects

- ScorecardQuestion
- AssignedScorecardQuestion

ScorecardFolderScope

Description

Package: com.ibm.rpm.scorecard.scope

Extends: AbstractScorecardScope

Usage

This object represents a scope to navigate to objects that are related to a **ScorecardFolder**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 247. ScorecardFolderScope Field Description

Field	Detail
scorecards	Type: ScorecardScope
	Default value: N/A
	Description: The scope of the scorecard.
	Field validation description: N/A
	Additional field security restrictions: N/A

Inherited Fields

From **AbstractScorecardScope**

Related Objects

- **ScorecardFolder**

ScorecardQuestionScope

Description

Package: com.ibm.rpm.scorecard.scope

Extends: AbstractScorecardScope

Usage

This object represents a scope to navigate to objects that are related to a **ScorecardQuestion** and **AssignedScorecardQuestion**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 248. ScorecardQuestionScope Field Description

Field	Detail
scorecardResponses	Type: ScorecardResponseScope Default value: N/A Description: The scope of the scorecard response. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

From **AbstractScorecardScope**

Related Objects

- ScorecardQuestion
- AssignedScorecardQuestion

ScorecardResponseScope Description

Package: com.ibm.rpm.scorecard.scope

Extends: AbstractScorecardScope

Usage

This object represents a scope to navigate to objects that are related to a **ScorecardResponse** and **AssignedScorecardResponse**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

N/A

Inherited Fields

From `AbstractScorecardScope`

Related Objects

- `ScorecardResponse`
- `AssignedScorecardResponse`

ScorecardScope

Description

Package: `com.ibm.rpm.scorecard.scope`

Extends: `AbstractScorecardScope`

Usage

This object represents a scope to navigate to objects that are related to `Scorecard` or `AssignedScorecard`.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 249. ScorecardScope Field Description

Field	Detail
<code>scorecardCategories</code>	Type: <code>ScorecardCategoryScope</code> Default value: N/A Description: The scope of the scorecard category. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

From `AbstractScorecardScope`

Related Objects

- Scorecard
- AssignedScorecard

ProbabilityType

Description

Package: com.ibm.rpm.applicationadministration.types

Usage

ProbabilityType is used in scorecards to calculate the impact based on the percentage calculation of the response within a specific category. The score is aggregated for categories that use the same probability type option.

Fields

The following table lists the values for this object.

Table 250. ProbabilityType Value Description

Value	Description
None	Indicates that the probability type is none.
ProjectSchedule	Indicates that the probability type is project schedule.
ProjectCosts	Indicates that the probability type is project costs.
ProjectRisk	Indicates that the probability type is project risk.
ProjectBenefits	Indicates that the probability type is project benefits.
CustomerSatisfaction	Indicates that the probability type is customer satisfaction.

Related Objects

- AbstractScorecard
- AbstractScorecardCategory

Timesheet

This section describes the objects available in the Timesheet category of the Web Services API.

AbstractTimesheet

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

AbstractTimesheet is the base class for timesheets. It cannot be instantiated.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 251. AbstractTimesheet Field Description

Field	Detail
regularFriday	Type: double Default value: N/A Description: The number of regular hours worked on that day. Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment). Additional field security restrictions: N/A
regularMonday	Type: double Default value: N/A Description: The number of regular hours worked on that day. Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment). Additional field security restrictions: N/A
regularSaturday	Type: double Default value: N/A Description: The number of regular hours worked on that day. Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment). Additional field security restrictions: N/A

Table 251. AbstractTimesheet Field Description (continued)

Field	Detail
regularSunday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of regular hours worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
regularThursday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of regular hours worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
regularTuesday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of regular hours worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
regularWednesday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of regular hours worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>

Table 251. AbstractTimesheet Field Description (continued)

Field	Detail
specialFriday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
specialMonday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
specialSaturday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
specialSunday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>

Table 251. AbstractTimesheet Field Description (continued)

Field	Detail
specialThursday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description:The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
specialTuesday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description:The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
specialWednesday	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The number of special hours (overtime) worked on that day.</p> <p>Field validation description: The value range expressed in hours is 0 – 255 and must be rounded to the nearest 0.25 (time is in 15 minutes increment).</p> <p>Additional field security restrictions: N/A</p>
summaryNotes	<p>Type: string</p> <p>Default value: null</p> <p>Description: The note of the timesheet.</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>
weekOf	<p>Type: calendar</p> <p>Default value: N/A</p> <p>Description: The week of the timesheet.</p> <p>Field validation description: Cannot be null.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- SummaryTimesheet
- Timesheet

Activity

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

When a task is large or complex, it can be split into several smaller activities (steps) in order to allow time to be entered separately against each activity. An activity must have at least one timesheet assigned to it. When an activity is deleted all its timesheets are also deleted.

Parent is mandatory, allowed parent type is TaskAssignment.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 252. Activity Field Description

Field	Detail
billable	Type: boolean Default value: N/A Description: Specifies whether the activity is billable or not. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A

Table 252. Activity Field Description (continued)

Field	Detail
EETC	<p>Type: double</p> <p>Default value: EETC = (TaskAssignment's expectedWork) - (the summation of the number of hours worked in each timesheet in timesheetDetails array)</p> <p>Description: The Estimated Effort to Complete the activity. When EETC is 0, percentageComplete is 100.</p> <p>Field validation description: Must be a positive number rounded to the nearest 0.25 value.</p> <p>Additional field security restrictions: N/A</p>
ETCChanged	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: Specifies whether EETC has been modified or not.</p> <p>Field validation description:Limit 50 characters.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
name	<p>Type:string</p> <p>Default value: N/A</p> <p>Description: The name of the activity.</p> <p>Additional field security restrictions: N/A</p>
percentageComplete	<p>Type: double</p> <p>Default value: 0</p> <p>Description: The percentage of work that is completed. When EETC is 0, percentageComplete is 100.</p> <p>Field validation description:</p> <p>Value range: 0 - 100</p> <p>The value cannot have more than two digits in its fractional part (for example, 1.22 is a valid value but 1.222 is not).</p> <p>Additional field security restrictions: N/A</p>

Table 252. Activity Field Description (continued)

Field	Detail
timeCode1	<p>Type: TimeCode</p> <p>Default value: null</p> <p>Description: The first time code of the activity.</p> <p>Field validation description: timeCode1 must belong to Time Codes I category and it must be assigned to the project.</p> <p>Additional field security restrictions: N/A</p>
timeCode2	<p>Type: TimeCode</p> <p>Default value: null</p> <p>Description: The second time code of the activity.</p> <p>Field validation description: timeCode2 must belongs to Time Codes II category and must be assigned to the project.</p> <p>Additional field security restrictions: N/A</p>
timesheetDetails	<p>Type: Timesheet[]</p> <p>Default value: N/A</p> <p>Description: The list of timesheets reported against this activity.</p> <p>Field validation description: Must contain at least one timesheet.</p> <p>Additional field security restrictions: N/A</p>
weight	<p>Type: double</p> <p>Default value: 0</p> <p>Description: The weight of the activity.</p> <p>Field validation description:</p> <p>Value range: 0 - 100</p> <p>The value cannot have more than two digits in its fractional part (for example, 1.22 is a valid value but 1.222 is not).</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- [ActivityScope](#)

AdministrativeTask (Not available with this release)

Description

Package: com.ibm.rpm.timesheet.containers

Extends: TimesheetTask

Usage

AdministrativeTask represents a scheduled project activity in which to track non-project tasks.

Parent is mandatory, allowed parent type is Project. The Project must be an Admin/Personal project.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From [RPMObject](#)

From [TimesheetTask](#)

Related Objects

- [Pool](#)
- [Task](#)

AdministrativeTaskAssignment (Not available with this release)

Description

Package: com.ibm.rpm.timesheet.containers

Extends: [RPMObject](#)

Usage

AdministrativeTasks are assigned to Pools of Resources. They are not directly assigned to Resources.

Parent is mandatory, allowed parent type is Pool.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 253. AdministrativeTaskAssignment Field Description

Field	Detail
administrativeTask	Type: AdministrativeTask Default value: N/A Description: The AdministrativeTask to be assigned. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

FavoriteActivity Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

A FavoriteActivity is the default activity for a project. The user can create an array of **FavoriteActivity** objects and assign them to a **project**. The user can then further break any task in the project into that sequence of activities.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 254. FavoriteActivity Field Description

Field	Detail
name	Type: string Default value: N/A Description: The name of the activity. Field validation description: Limit 50 characters. Additional field security restrictions: N/A
timeCode1	Type: TimeCode Default value: N/A Description: The first time code of the activity. Field validation description: The time code must belong to the category Time Codes I and must be assigned to the project. Additional field security restrictions: N/A
timeCode2	Type: TimeCode Default value: N/A Description: The second time code of the activity. Field validation description: The time code must belong to the category Time Codes II and must be assigned to the project. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

Related Objects

- `FavoriteActivityScope`

PersonalTask (Not available with this release)

Description

Package: `com.ibm.rpm.timesheet.containers`

Extends: `TimesheetTask`

Usage

A `PersonalTask` is used to track non-project work.

Parent is mandatory, allowed parent types is `Project`. The parent project must be the `Admin/Personal` project.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `TimesheetTask`

Related Objects

- `Resource`

ResourceTimesheetTaskAssignment (Not available with this release)

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

ResourceTimesheetTaskAssignment represent the list of timesheet task assignments for a Resource.

Parent is mandatory, allowed parent type is Resource.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 255. ResourceTimesheetTaskAssignment Field Description

Field	Detail
timesheetTaskAssignments	Type: TimesheetTaskAssignment[] Default value: N/A Description: List of TimesheetTaskAssignment objects associated with the ResourceTimesheetTaskAssignment . Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

SummaryTimesheet

Description

Package: com.ibm.rpm.timesheet.containers

Extends: AbstractTimesheet

Usage

The SummaryTimesheet object is used to report time against specific TaskAssignments. **SummaryTimesheet** objects are automatically deleted when their parent is deleted, they cannot be deleted otherwise,.

Two steps must be taken before creating a SummaryTimesheet:

1. The project has to be published to the team
(project.setPublished(PublishedType.ToTeam)).
2. The proposed dates of the project must be copied to planned dates using the Application Interface's method copyProposedToPlan(ssessionID, workElement, workElementScope).

Once a **SummaryTimesheet** is submitted for approval, it can no longer be modified, unless it has been rejected by the manager. In addition, the **SummaryTimesheet** object cannot be modified if the task has been broken into steps (for example, Activity objects exist for **TaskAssignment**)

Parent is mandatory, allowed parent type is TaskAssignment.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 256. SummaryTimesheet Field Description

Field	Detail
approvalStatus	Type: TimesheetApprovalStatus Default value: null Description: Determines if summary timesheet has been submitted, approved, or rejected. Field validation description: N/A Additional field security restrictions: N/A

Table 256. SummaryTimesheet Field Description (continued)

Field	Detail
complete	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Determines whether the task has been completed or not. For example, <code>percentageComplete</code> is 100. This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
EETCHours	<p>Type: double</p> <p>Default value: $EETC = (TaskAssignment's\ expectedWork) - totalIncurred - (the\ summation\ of\ hours\ reported\ for\ the\ week).$</p> <p>Description: The Estimated Effort to Complete the assignment. If the user set the value of this field, then no calculation will take place. Otherwise, the above formula will be used to determine EETC. When EETC is 0, <code>percentageComplete</code> is 100.</p> <p>Field validation description: Must be a positive number rounded to the nearest 0.25.</p> <p>Additional field security restrictions: N/A</p>
expectedWorkPerWeek	<p>Type: double</p> <p>Default value: <code>totalWeek</code></p> <p>Description: The expected work for the week.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
percentageComplete	<p>Type: double</p> <p>Default value: 0</p> <p>Description: The percentage of the work that is complete. When EETC is 0, <code>percentageComplete</code> is 100.</p> <p>Field validation description:</p> <p>Value range: 0 - 100.</p> <p>Additional field security restrictions: N/A</p>

Table 256. SummaryTimesheet Field Description (continued)

Field	Detail
scheduleWorkBaseline	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The schedule baseline work expressed in hours .</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scheduleWorkSchedule	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The current scheduled work expressed in hours.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
timeCode1	<p>Type: TimeCode</p> <p>Default value: null</p> <p>Description: The first time code of the summary timesheet.</p> <p>Field validation description: The time code must belong to Time Codes I category and it must be assigned to the project.</p> <p>Additional field security restrictions: N/A</p>
timeCode2	<p>Type: TimeCode</p> <p>Default value: null</p> <p>Description: The second time code of the summary timesheet.</p> <p>Field validation description: The time code must belong to Time Codes II category and it must be assigned to the project.</p> <p>Additional field security restrictions: N/A</p>
totalIncurred	<p>Type: double</p> <p>Default value: 0</p> <p>Description: Total hours worked for the assignment.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 256. SummaryTimesheet Field Description (continued)

Field	Detail
totalRegular	<p>Type: double</p> <p>Default value: 0</p> <p>Description: Total regular hours worked in the week. The value of this field is the summation of regularFriday, regularMonday, regularSaturday, regularSunday, regularThursday, regularTuesday, and regularWednesday.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
totalSpecial	<p>Type: double</p> <p>Default value: 0</p> <p>Description: Total special (overtime) hours worked in the week. The value of this field is the summation of specialFriday, specialMonday, specialSaturday, specialSunday, specialThursday, specialTuesday, and specialWednesday.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
totalWeek	<p>Type: double</p> <p>Default value: 0</p> <p>Description: Total hours worked in the week. The value of this field is the summation of totalRegular and totalSpecial.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractTimesheet**

Related Objects

- **SummaryTimesheetScope**
- **GenericProject**

Timesheet

Description

Package: com.ibm.rpm.timesheet.containers

Extends: AbstractTimesheet

Usage

Timesheet object is used to report time against a specific Activity. For each Timesheet object created, there must exist a SummaryTimesheet object with the same task and same week. Timesheet objects can only be deleted by deleting their parent.

A Timesheet cannot be modified once its SummaryTimesheet has been submitted for Approval.

Parent is mandatory, allowed parent type is Activity.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 257. Timesheet Field Description

Field	Detail
billable	Type: boolean Default value: N/A Description: Specifies whether the timesheet is billable or not. This field is read-only. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractTimesheet

Related Objects

- TimesheetScope
- SummaryTimesheet

TimesheetApprovalStatus

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

The **TimesheetApprovalStatus** object is used for timesheet approval/rejection status. The resource can submit their timesheet for an approval by setting the **approvalStatus** to **TimesheetStatus.Submitted**. Later the manager can either approve the timesheet by setting the **approvalStatus** to **TimesheetStatus.Approved**, or reject the timesheet by setting the **approvalStatus** to **TimesheetStatus.Rejected**.

Before creating a **TimesheetApprovalStatus** object, there must exist a **SummaryTimesheet** for the same **resource**, **project**, and **weekOf**. **TimesheetApprovalStatus** object will be deleted when its corresponding **SummaryTimesheet** object is deleted.

Note: It is mandatory that the value of the parent field be set to *null*.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 258. TimesheetApprovalStatus Field Description

Field	Detail
approvalDate	Type: calendar Default value: null Description: The date of the last action (submission, approval, or rejection). This field is read-only. Field validation description: N/A Additional field security restrictions: N/A

Table 258. TimesheetApprovalStatus Field Description (continued)

Field	Detail
approvalNotes	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: A note to accompany the last action.</p> <p>Field validation description: Limit 1024 characters.</p> <p>Additional field security restrictions: N/A</p>
approvalStatus	<p>Type: TimesheetStatus</p> <p>Default value: N/A</p> <p>Description: The status of the timesheet approval request.</p> <p>Possible values are <i>Submitted, Approved, Rejected, ApprovedByProjectManager, RejectedByProjectManager, ApprovedByResourceManager, or RejectedByResourceManager</i>.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
lastApprovedRejectedBy	<p>Type: Resource</p> <p>Default value: N/A</p> <p>Description: The last resource who took an action (submitted, approved, or rejected).</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
project	<p>Type: GenericProject</p> <p>Default value: N/A</p> <p>Description: The project of the timesheet.</p> <p>Field validation description: Cannot be null.</p> <p>Additional field security restrictions: N/A</p>
resource	<p>Type: Resource</p> <p>Default value: N/A</p> <p>Description: The resource of the timesheet.</p> <p>Field validation description: Cannot be null.</p> <p>Additional field security restrictions: N/A</p>

Table 258. TimesheetApprovalStatus Field Description (continued)

Field	Detail
weekOf	<p>Type: calendar</p> <p>Default value: N/A</p> <p>Description: The week of the timesheet.</p> <p>Field validation description: Cannot be null.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- TimesheetApprovalStatusScope
- TimesheetStatus
- SummaryTimesheet

TimesheetTask

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

This class is not used to directly create an object. It is extended to create AdministrativeTask and PersonalTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 259. TimesheetTask Field Description

Field	Detail
estimatedFinishDate	Type: dateTime Default value: N/A Description: Estimated finish date. Field validation description: The estimatedFinishDate must be greater than or equal to estimatedStartDate . Additional field security restrictions: N/A
estimatedStartDate	Type: dateTime Default value: The current date. Description: The estimated start date. Field validation description: The estimatedStartDate must be less than or equal to estimatedFinishDate . Additional field security restrictions: N/A
externalID	Type: string Default value: N/A Description: The external identifier of the TimesheetTask. Field validation description: Limit 50 characters. Additional field security restrictions: N/A
name	Type: string Default value: N/A Description: The name of the TimesheetTask. Field validation description: Limit 240 characters for a PersonalTask. Limit 50 characters for an AdministrativeTask. This field is mandatory. Additional field security restrictions: N/A

Table 259. TimesheetTask Field Description (continued)

Field	Detail
rank	<p>Type: int</p> <p>Default value: 500</p> <p>Description: The ranking of the TimesheetTask.</p> <p>Field validation description: The value range is 0 to 1000.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

TimesheetTaskAssignment (Not available with this release)

Description

Package: com.ibm.rpm.timesheet.containers

Extends: RPMObject

Usage

The Timesheet task assignments associated with a **ResourceTimesheetTaskAssignment**.

Parent is mandatory, allowed parent type is **ResourceTimesheetTaskAssignment**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 260. *TimesheetTaskAssignment* Field Description

Field	Detail
finishDate	Type: dateTime Default value: N/A Description: The timesheet task assignment finish date. Field validation description: N/A Additional field security restrictions: N/A
startDate	Type: dateTime Default value: N/A Description: The timesheet task assignment start date. Field validation description: N/A Additional field security restrictions: N/A
summaryTimesheets	Type: SummaryTimesheet[] Default value: N/A Description: The list of SummaryTimesheet containers associated with the TimesheetTaskAssignment . Field validation description: N/A Additional field security restrictions: N/A
timesheetTask	Type: TimesheetTask Default value: N/A Description: The TimesheetTask container associated with the TimesheetTaskAssignment . Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.timesheet.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file `errorCode.properties` according to the integer error code provided.

Timesheet errors are specific to the timesheet section of the API.

Timesheet error codes ranges: 406,001 - 407,000

- 406,001 - 406,299: validation codes
- 406,300 - 406,499: xpath codes
- 406,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 261. Timesheet Validation Error Codes

Code	Description
406001	The timecode must be assigned to the project.
406002	The weight of activities in TaskAssignment cannot exceed 100%.
406003	Creation failed. The project must be published to the team.
406004	Creation failed. The proposed dates must be copied to planned dates.
406005	There is no SummaryTimesheet for the project , resource , and weekOf specified.
406006	There is no SummaryTimesheet for the TaskAssignment specified.
406007	There is no SummaryTimesheet for the activity and weekOf specified.
406008	Cannot check out a submitted/approved timesheet. It must be rejected by the manager first.

Inherited Fields

N/A

Related Objects

N/A

FavoriteActivity Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to Activity.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 262. FavoriteActivity Field Description

Field	Detail
parent	Type: TaskAssignmentScope Default value: N/A Description: The scope of the activity's parent. Field validation description: N/A Additional field security restrictions: N/A
timeCodes	Type: boolean Default value: N/A Description: Whether timeCode1 and timeCode2 are in the scope. Field validation description: N/A Additional field security restrictions: N/A

Table 262. FavoriteActivity Field Description (continued)

Field	Detail
timesheetDetails	Type: boolean Default value: N/A Description: Whether timesheetDetails is in the scope or not. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Activity

FavoriteActivityScope Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to **FavoriteActivity**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 263. FavoriteActivityScope Field Description

Field	Detail
parent	Type: WorkElementScope Default value: N/A Description: The scope of the FavoriteActivity's parent. Field validation description: N/A Additional field security restrictions: N/A

Table 263. FavoriteActivityScope Field Description (continued)

Field	Detail
timeCodes	Type: boolean Default value: N/A Description: Whether timeCode1 and timeCode2 are in the scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- FavoriteActivity

ResourceTimesheetTaskAssignmentScope Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

ResourceTimesheetTaskAssignmentScope represents a scope to navigate to objects that are related to **ResourceTimesheetTaskAssignment**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 264. ResourceTimesheetTaskAssignmentScope Field Description

Field	Detail
parent	Type: RPMObjectScope Default value: N/A Description: The scope of the ResourceTimesheetTaskAssignment 's parent. Field validation description: N/A Additional field security restrictions: N/A

Table 264. ResourceTimesheetTaskAssignmentScope Field Description (continued)

Field	Detail
timesheetTaskAssignments	<p>Type: TimesheetTaskAssignmentScope</p> <p>Default value: N/A</p> <p>Description: The scope of the TimesheetTaskAssignments associated with the ResourceTimesheetTaskAssignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- Timesheet

SummaryTimesheetScope Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

SummaryTimesheetScope represents a scope to navigate to objects that are related to SummaryTimesheet.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 265. SummaryTimesheetScope Field Description

Field	Detail
approvalStatus	Type: TimesheetApprovalStatusScope Default value: N/A Description: The scope of SummaryTimesheet's approvalStatus. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: TaskAssignmentScope Default value: N/A Description: The scope of the SummaryTimesheet's parent. Field validation description: N/A Additional field security restrictions: N/A
timeCodes	Type: boolean Default value: N/A Description: Whether timeCode1 and timeCode2 are in the scope. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- SummaryTimesheet

TimesheetApprovalStatusScope Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

TimesheetApprovalStatusScope represents a scope to navigate to objects that are related to TimesheetApprovalStatus.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 266. TimesheetApprovalStatusScopeField Description

Field	Detail
lastApprovedRejectedBy	Type: ResourceScope Default value: N/A Description: The scope of the TimesheetApprovalStatus' lastApprovedRejectedBy. Field validation description: N/A Additional field security restrictions: N/A
project	Type: WorkElementScope Default value: N/A Description: The scope of the TimesheetApprovalStatus' project. Field validation description: N/A Additional field security restrictions: N/A
resource	Type: ResourceScope Default value: N/A Description: The scope of the TimesheetApprovalStatus' resource. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- TimesheetApprovalStatus

TimesheetScope

Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

TimesheetScope represents a scope to navigate to objects that are related to Timesheet.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 267. TimesheetScope Field Description

Field	Detail
parent	Type: ActivityScope Default value: N/A Description: The scope of the Timesheet's parent. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Timesheet

TimesheetTaskAssignmentScope

Description

Package: com.ibm.rpm.timesheet.scope

Extends: RPMObjectScope

Usage

TimesheetTaskAssignmentScope represents a scope to navigate to objects that are related to TimesheetTaskAssignment.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 268. *TimesheetTaskAssignmentScope* Field Description

Field	Detail
parent	Type: RPMObjectScope Default value: N/A Description: The scope of the TimesheetTaskAssignment 's parent. Field validation description: N/A Additional field security restrictions: N/A
summaryTimesheets	Type: SummaryTimesheetScope Default value: N/A Description: The scope of the SummaryTimesheets associated with the TimesheetTaskAssignment . Field validation description: N/A Additional field security restrictions: N/A
timesheetTask	Type: boolean Default value: false Description: This field is <i>true</i> if timesheetTask should be loaded, and is <i>false</i> if it should not. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

- Timesheet

TimesheetStatus Description

Package: com.ibm.rpm.timesheet.types

Usage

TimesheetStatus indicates the status of the timesheet.

Fields

The following table lists the values for this object.

Table 269. *TimesheetStatus Value Description*

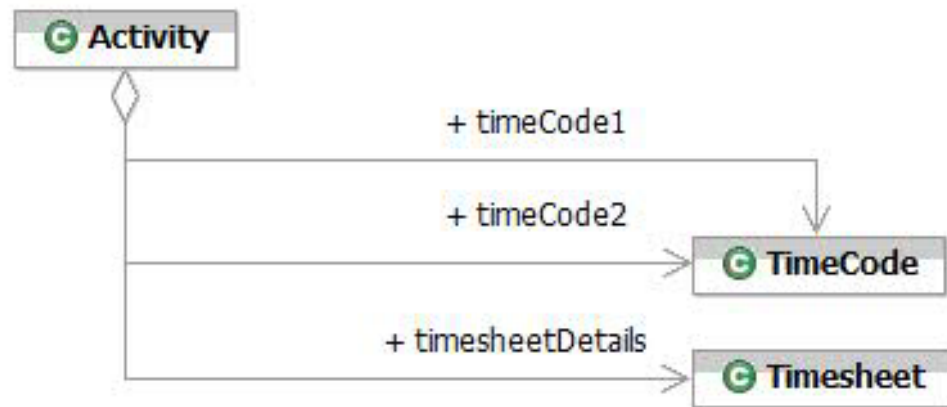
Value	Description
Submitted	Indicates the timesheet has been submitted for approval. At this point it has not yet been approved or rejected.
Approved	Indicates the timesheet has been approved by the manager. To set to this status, the manager or approver must set the approvalStatus field value in the TimesheetApprovalStatus class, to <i>Approved</i> . The system will set the value to either <i>ApprovedByProjectManager</i> or <i>ApprovedByResourceManager</i> depending on the type of task.
Rejected	Indicates the manager has rejected the timesheet. To set to this status, the manager or approver must set the approvalStatus field value in the TimesheetApprovalStatus class, to <i>Rejected</i> . The system will set the value to either <i>RejectedByProjectManager</i> or <i>RejectedByResourceManager</i> depending on the type of task.
ApprovedByProjectManager	Indicates the timesheet has been approved by the project manager.
RejectedByProjectManager	Indicates the timesheet has been rejected by the project manager.
ApprovedByResourceManager	Indicates the timesheet has been approved by the resource manager.
RejectedByResourceManager	Indicates the timesheet has been rejected by the resource manager.

Related Objects

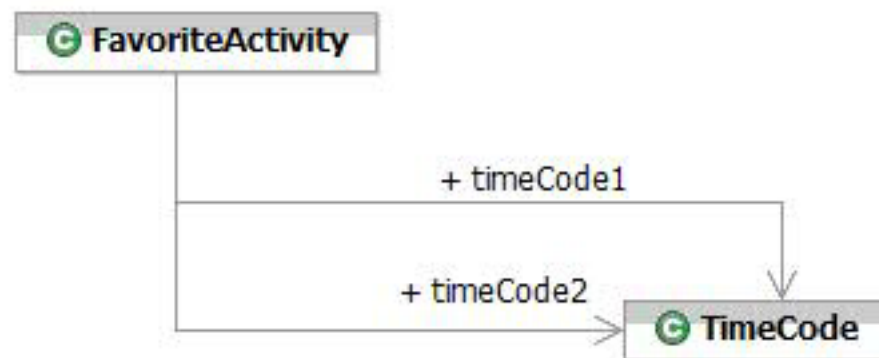
- TimesheetApprovalStatus

Timesheet Object Relationship Diagrams

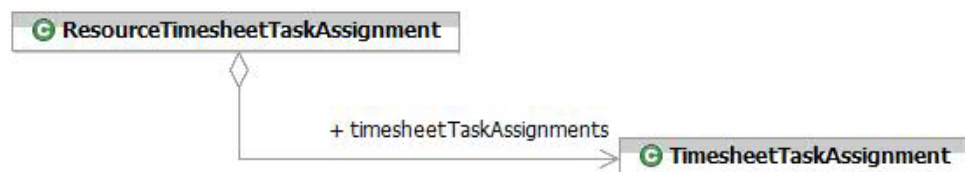
Activity



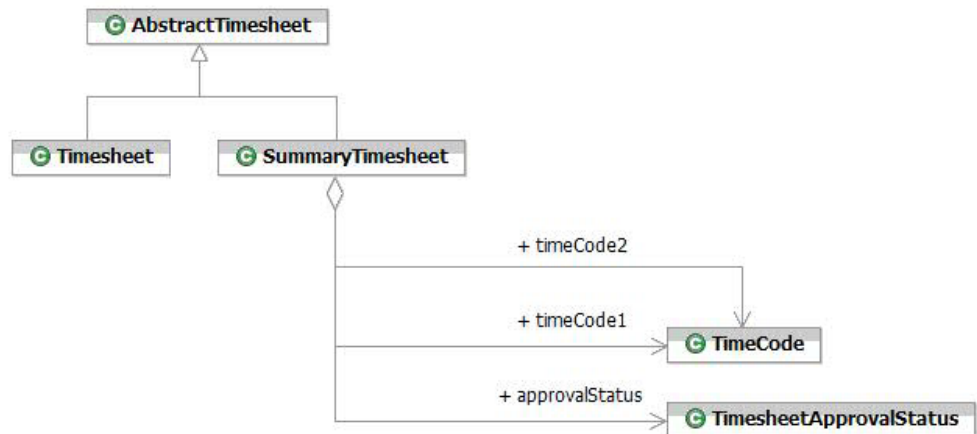
FavoriteActivity



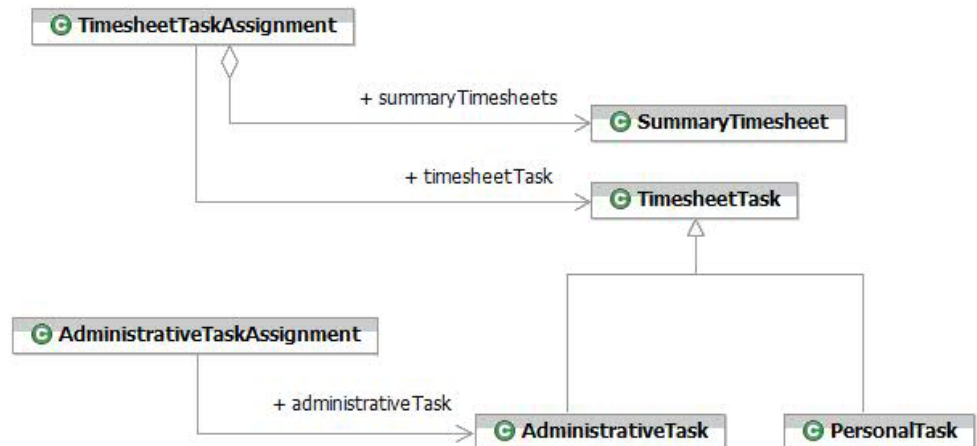
ResourceTimesheetTaskAssignment



Timesheet



TimesheetTaskAssignment



Work Breakdown Structure

This section describes the objects and scope available in the Work Breakdown Structure (WBS) category of the Web Services API.

AggregateNode

Description

Package: com.ibm.rpm.wbs.containers

Extends: WorkElement

Usage

AggregateNode manages a list of **WorkElements**. This is an abstract class, therefore, it cannot be used directly to create an object.

It is extended to create **Deliverable**, **GenericProject**, **SummaryTask**, and **WorkProduct**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 270. AggregateNode Field Description

Field	Detail
children	Type: WorkElement[] Default value: N/A Description: List of work element children Field validation description: N/A Additional field security restrictions: N/A
worksheetFinancials	Type: WorksheetFinancial[] Default value: N/A Description: List of worksheet financials Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **WorkElement**

Related Objects

N/A

Deliverable

Description

Package: com.ibm.rpm.wbs.containers

Extends: AggregateNode

Usage

Deliverable is the physical output or procedural outcome that represents the completion of a part of a Project and that is delivered to a customer.

Parent is mandatory. Allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, and SummaryTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From WorkElement

From AggregateNode

Related Objects

N/A

ElementDependency

Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Usage

An ElementDependency is used to make one element depend on another. Task dependencies per project are unlimited. Dependency types are *Finish-to-Start*, *Start-to-Start*, *Finish-to-Finish* or *Start-to-Finish*.

Parent is mandatory, allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, SummaryTask, Milestone, and Task.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 271. ElementDependency Field Description

Field	Detail
amount	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The amount of lead or lag.</p> <p>Field validation description: Value range is 0.00 - 999.00</p> <p>Additional field security restrictions: N/A</p>
dependencyType	<p>Type: DependencyType</p> <p>Default value: FinishStart</p> <p>Description: The type of dependency that is created (Finish to Start, Start to Start, and so on).</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
leadlagType	<p>Type: LeadLagType</p> <p>Default value: Lead</p> <p>Description: Indicates if the Element is leading or lagging.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 271. ElementDependency Field Description (continued)

Field	Detail
predecessor	<p>Type: WorkElement</p> <p>Default value: N/A</p> <p>Description: The WorkElement predecessor dependency.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
unitType	<p>Type: TimeUnitType</p> <p>Default value: Days</p> <p>Description: Indicates if the lead or lag amount is in hours or days.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

GenericProject Description

Package: com.ibm.rpm.wbs.containers

Extends: AggregateNode

Usage

This class cannot be used to directly create an object. It is extended to create a Proposal, Project, or WorkOrganization.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 272. GenericProject Field Description

Field	Detail
actionAssignedScorecards	Type: AssignedScorecard[] Default value: N/A Description: The list of assigned scorecards of type Action assigned to the project. Field validation description: N/A Additional field security restrictions: N/A
actionAttributeAssignments	Type: AttributeAssignment[] Default value: N/A Description: The list of attribute assignments of type Action associated with the project. Field validation description: N/A Additional field security restrictions: N/A
assignedScorecards	Type: AssignedScorecard[] Default value: N/A Description: The list of scorecards assigned to the project. Field validation description: N/A Additional field security restrictions: N/A
assignmentType	Type: AssignmentType Default value: Work Description: The type of project (Work or Duration). Field validation description: N/A Additional field security restrictions: N/A
calendar	Type: RPMCalendar Default value: Rational Portfolio Manager's default calendar. Description: The calendar to be associated with the project. Field validation description: N/A Additional field security restrictions: N/A

Table 272. *GenericProject* Field Description (continued)

Field	Detail
changeRequestAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type ChangeRequest assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
changeRequestAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type ChangeRequest associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
currency	<p>Type: Currency</p> <p>Default value: N/A</p> <p>Description: The project currency used in all financial calculations.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
defaultProject	<p>Type: boolean</p> <p>Default value: N/A</p> <p>Description: The opportunity data associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
defectAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type Defect assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 272. GenericProject Field Description (continued)

Field	Detail
defectAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Defect associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
deliverableAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Deliverable associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Document associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
favoriteActivities	<p>Type: FavoriteActivity[]</p> <p>Default value: N/A</p> <p>Description: The list of favorite activities associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
issueAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type Issue assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 272. GenericProject Field Description (continued)

Field	Detail
issueAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Issue associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
opportunity	<p>Type: Opportunity</p> <p>Default value: N/A</p> <p>Description: The opportunity data associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
organizationalAssignments	<p>Type: ProjectOrganizationalAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of organizational assignments associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
portfolio	<p>Type: Portfolio</p> <p>Default value: N/A</p> <p>Description: The Portfolio associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
projectCostCenter	<p>Type: ProjectCostCenter</p> <p>Default value: N/A</p> <p>Description: The ProjectCostCenter associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
projectIdentifier	<p>Type: long</p> <p>Default value: N/A</p> <p>Description: The project identifier.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 272. *GenericProject* Field Description (continued)

Field	Detail
published	<p>Type: PublishedType</p> <p>Default value: 'None'</p> <p>Description: The project's publish type indicator.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
requirementAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type Requirement assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
requirementAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Requirement associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
riskAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type Risk assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
riskAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Risk associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 272. *GenericProject* Field Description (continued)

Field	Detail
serviceRequestAssignedScorecards	<p>Type: AssignedScorecard[]</p> <p>Default value: N/A</p> <p>Description: The list of assigned scorecards of type ServiceRequest assigned to the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
serviceRequestAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type ServiceRequest associated with the project.</p> <p>Additional field security restrictions: N/A</p>
taskAttributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The list of attribute assignments of type Task associated with the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **WorkElement**

From **AggregateNode**

Related Objects

- **WorkElement**

Milestone

Description

Package: com.ibm.rpm.wbs.containers

Extends: SimpleNode

Usage

Milestone represents a significant event in a project life cycle and is typically used to identify the completion of a major deliverable.

Parent is mandatory, allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, and SummaryTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From SimpleNode

From WorkElement

Related Objects

N/A

Opportunity

Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Usage

Opportunity allows the project manager to enter the future client opportunity data.

Parent is mandatory, allowed parent types are **Proposal**, **Project**, and **WorkOrganization**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 273. Opportunity Field Description

Field	Detail
benefitBeginsMonths	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The estimated number of months before beginning to realize benefits or revenue as defined in the project description view.</p> <p>Field validation description: Value range is 0 to 200.</p> <p>Additional field security restrictions: N/A</p>
benefitDurationMonths	<p>Type: int</p> <p>Default value: 0</p> <p>Description: The ballpark estimate of the duration to realize profit or benefit as defined in the project description view.</p> <p>Field validation description: Value range is 0 to 200.</p> <p>Additional field security restrictions: N/A</p>
contactNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The opportunity contact number.</p> <p>Field validation description: Limit 100 characters</p> <p>Additional field security restrictions: N/A</p>
contactType	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The opportunity contact type.</p> <p>Field validation description: Limit 100 characters</p> <p>Additional field security restrictions: N/A</p>

Table 273. Opportunity Field Description (continued)

Field	Detail
customerNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The opportunity customer number.</p> <p>Field validation description: Limit 100 characters</p> <p>Additional field security restrictions: N/A</p>
externalClient	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of an external customer as defined in the project description view.</p> <p>Field validation description: Limit 50 characters</p> <p>Additional field security restrictions: N/A</p>
forecastClosed	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The forecast close date for awarding of the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
opportunityOwner	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The opportunity owner</p> <p>Field validation description: Limit 255 characters</p> <p>Additional field security restrictions: N/A</p>
opportunityTrackingNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The opportunity tracking number</p> <p>Field validation description: Limit 255 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 273. Opportunity Field Description (continued)

Field	Detail
orderOfMagnitudeCost	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The ballpark cost as defined in the project description view.</p> <p>Field validation description: Value range is 0.00 to 9, 999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeGPSavingsPercent	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The ballpark gross profit percentage as defined in the project description view.</p> <p>This field is read-only.</p> <p>Field calculation: $100 - (\text{orderOfMagnitudeCost} / \text{orderOfMagnitudeRevenueBenefits} * 100)$</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
orderOfMagnitudeRevenueBenefits	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The ballpark revenue/benefits as defined in the project description view.</p> <p>Field validation description: Value range is 0.00 to 9, 999,999,999,999.99</p> <p>Additional field security restrictions: N/A</p>
probabilityPercent	<p>Type: int</p> <p>Default value: 100</p> <p>Description: The percentage probability of successfully being awarded the project.</p> <p>Field validation description: Value range is 0 to 100.</p> <p>Additional field security restrictions: N/A</p>
pursuitFinish	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The estimated pursuit finish date for the project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 273. Opportunity Field Description (continued)

Field	Detail
pursuitStart	Type: dateTime Default value: N/A Description: The estimated pursuit start date for the project. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Portfolio

Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Portfolio is an aggregation of multiple projects, proposals, and work organizations that are to be managed.

Usage

Portfolios are created by one user and are not available to other users.

Parent is not mandatory.

Supported API Calls

- save
- loadFromArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 274. Portfolio Field Description

Field	Detail
name	Type: string Default value: N/A Description: The portfolio name. Field validation description: Limit 240 characters. This is a mandatory field. Additional field security restrictions: N/A
portfolios	Type: Portfolio[] Default value: The list of enclosed portfolios. Description: Field validation description: N/A Additional field security restrictions: N/A
projects	Type: GenericProject[] Default value: The enclosed projects, proposals, and work organizations. Description: List of projects, proposals, and work organizations. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

Profile

Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Usage

Profiles are resource placeholders that are based on pre-configured competencies/skills, that are then assigned to the project with effort/work. It is mandatory for a Profile to have a minimum of one competency attribute assignment.

Parent is mandatory, allowed parent type is ResourceTaskAssignment and must already exist in RPM.

The Profile's grandparent (of type **WorkElement**) must contain a Project with an ID.

If the Profile's grandparent is not of type **GenericProject**, the grandparent's Project **assignmentType** must be set to 'Work'.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 275. Profile Field Description

Field	Detail
geographical	Type: Geographical
	Default value: N/A
	Description: The geographical location associated with the profile.
	Field validation description: N/A
organizational	Additional field security restrictions: N/A
	Type: Organizational
	Default value: N/A
	Description: The organization associated with the profile.
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 275. Profile Field Description (continued)

Field	Detail
pool	<p>Type: Pool</p> <p>Default value: N/A</p> <p>Description: The resource pool associated with the profile.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
profileCompetencyAssignments	<p>Type: ProfileCompetencyAssignment[]</p> <p>Default value: N/A</p> <p>Description: The competencies associated with the profile.</p> <p>Field validation description: This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>
profileName	<p>Type: string</p> <p>Default value: N/A</p> <p>Description: The name of the profile.</p> <p>This field is read-only.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
profileSkillAssignments	<p>Type: ProfileSkillAssignment[]</p> <p>Default value: N/A</p> <p>Description: The skill attributes associated with the profile.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ProfileCompetencyAssignment

Description

Package: com.ibm.rpm.wbs.containers

Extends: ProfileResourceAttributeAssignment

Usage

ProfileCompetencyAssignment allows the assignment of competency to a Profile.

Parent is mandatory, allowed parent type is Profile.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ProfileResourceAttributeAssignment

Related Objects

- Resource

ProfileResourceAttributeAssignment

Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Usage

Parent is mandatory. Allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, SummaryTask, Milestone, and Task.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 276. ProfileResourceAttributeAssignment Field Description

Field	Detail
proficiencyLevel	Type: ResourceAttributeProficiencyLevel Default value: N/A Description: The proficiency level of the resource. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- Resource

ProfileSkillAssignment Description

Package: com.ibm.rpm.wbs.containers

Extends: ProfileResourceAttributeAssignment

Usage

ProfileSkillAssignment allows the assignment of a skill to a Profile.

Parent is mandatory, allowed parent type is Profile.

Supported API Calls

- save
- loadArrayFromID

- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From ProfileResourceAttributeAssignment

Related Objects

- Resource

Project

Description

Package: com.ibm.rpm.wbs.containers

Extends: GenericProject

Usage

Project is used to manage project activities. Can contain any number of sub-projects.

Parent is not mandatory.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **WorkElement**

From **AggregateNode**

From **GenericProject**

Related Objects

N/A

ProjectOrganizationalAssignment Description

Package: com.ibm.rpm.wbs.containers

Extends: RPMObject

Usage

ProjectOrganizationalAssignment is used to assign Organization to a GenericProject.

Parent is mandatory, allowed parent types are Project, Proposal, and WorkOrganization.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 277. ProjectOrganizationalAssignment Field Description

Field	Detail
organizational	Type: Organizational Default value: N/A Description: The organization associated with the profile. Field validation description: This field is Mandatory. Must be already saved (contain an ID). Additional field security restrictions: N/A
organizationType	Type: OrganizationType Default value: OrganizationType 1 (owning) Description: The type of Organization assigned to the GenericProject. OrganizationType is a Datafield. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- GenericProject
- Organizational
- OrganizationType
- Datafield

Proposal

Description

Package: com.ibm.rpm.wbs.containers

Extends: GenericProject

Usage

Proposal is used to manage project activities in the proposal phase. It can contain any number of sub-proposals.

Parent is mandatory. Allowed parent types are Portfolio, Proposal, Project, and WorkOrganization.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **WorkElement**

From **AggregateNode**

From **GenericProject**

Related Objects

N/A

ResourceTaskAssignment

Description

Package: com.ibm.rpm.wbs.containers

Extends: ResourceRoleAssignment

Usage

ResourceTaskAssignment is used to assign work to a Resource, by assigning a Resource as a participant, or assigning work to a Profile.

To assign a Resource as a participant, you must create a **ResourceTaskAssignment** object specifying an existing parent and an existing Resource in the corresponding fields. The profile and **taskAssignment** fields should remain *null*.

To assign work to a Resource, you must create a **ResourceTaskAssignment** object with an existing parent, an existing **Resource**, and a new **TaskAssignment** object in the corresponding fields. The profile field should remain *null*.

Note: To create a **ResourceTaskAssignment** object with a **Resource**, the Resource must be active and previously saved.

To assign **work** to a **Profile**, you must create a **ResourceTaskAssignment** object with an existing parent and a new **Profile** object as well as a new **TaskAssignment** object in the corresponding fields. The resource field should remain *null*.

Note: A **TaskAssignment** must be created when the parent **ResourceTaskAssignment** is created.

In order to delete a **TaskAssignment**, you must delete the parent **ResourceTaskAssignment**. **ResourceTaskAssignments** with security roles 'Project Manager' and 'Task Responsible' cannot be deleted.

Parent is mandatory and must be saved, allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, SummaryTask, Milestone, and Task.

The field **securityRole**, inherited from **SecurityRoleAssignment**, is mandatory when creating or updating a **ResourceTaskAssignment**.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 278. ResourceTaskAssignment Field Description

Field	Detail
assignmentStatus	Type: AssignmentStatus Default value: N/A Description: The status of the resource's assignment (Work or Duration). Field validation description: This field is read-only. Additional field security restrictions: N/A

Table 278. ResourceTaskAssignment Field Description (continued)

Field	Detail
profile	<p>Type: Profile</p> <p>Default value: N/A</p> <p>Description: The profile associated with a profile assignment.</p> <p>Field validation description:</p> <p>The profile field or the resource field (inherited from ResourceRoleAssignment) is mandatory on insert only.</p> <p>If the profile field contains a value, the resource field (inherited from ResourceRoleAssignment) must be <i>null</i>.</p> <p>This field is mandatory for a profile assignment.</p> <p>Additional field security restrictions: N/A</p>
resourceType	<p>Type: ResourceType</p> <p>Default value: N/A</p> <p>Description: Identifies if a Profile or a Resource is being assigned.</p> <p>Field validation description: This field is mandatory.</p> <p>Additional field security restrictions: N/A</p>
taskAssignment	<p>Type: TaskAssignment</p> <p>Default value: N/A</p> <p>Description: The task assignment data for a resource or profile assignment.</p> <p>Field validation description: This field is mandatory when creating a resource or profile assignment.</p> <p>Additional field security restrictions: N/A</p>
workLocation	<p>Type: WorkLocation</p> <p>Default value: N/A</p> <p>Description: The resource's or profile's work location.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `ResourceRoleAssignment`

From `SecurityRoleAssignment`

Related Objects

- `Resource`

SimpleNode

Description

Package: `com.ibm.rpm.wbs.containers`

Extends: `WorkElement`

Usage

`SimpleNode` represents a significant event in a project life cycle. It is used to represent a Task or a Milestone

Supported API Calls

- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `convertWorkElement`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 279. SimpleNode Field Description

Field	Detail
<code>constraintDate</code>	Type: <code>dateTime</code> Default value: N/A Description: The date required by the constraint type, if applicable. Field validation description: N/A Additional field security restrictions: N/A

Table 279. SimpleNode Field Description (continued)

Field	Detail
constraintType	<p>Type: ConstraintType</p> <p>Default value: AsSoonAsPossible</p> <p>Description: Chosen ConstraintType to be applied.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From WorkElement

Related Objects

N/A

SummaryTask Description

Package: com.ibm.rpm.wbs.containers

Extends: AggregateNode

Usage

SummaryTask represents a task that is comprised of a series of sub-tasks.

Parent is mandatory. Allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, and SummaryTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `WorkElement`

From `AggregateNode`

Related Objects

- Task

Task

Description

Package: com.ibm.rpm.wbs.containers

Extends: SimpleNode

Usage

Task represents a scheduled project activity to which one or more resources can be assigned to perform work. At least one resource must be assigned to a Task.

Parent is mandatory, allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, and SummaryTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 280. Task Field Description

Field	Detail
percentageDurationCompleted	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The proportion in percentage, of the task or project that has been completed.</p> <p>Editable once</p> <p>WorkElement.planDate.startDate has been attributed a value, as long as WorkElement.resourceTaskAssignments does not contain any resources. Once resources are assigned, the percentDurationCompleted field is calculated from timesheets.</p> <p>Once WorkElement.actualDate.finishDate is attributed a value, percentageDurationCompleted is set to 100 and becomes read-only.</p> <p>Field validation description: The value range is 0.00 to 100.00</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **SimpleNode**

From **WorkElement**

Related Objects

- **Resource**

TaskAssignment Description

Package: com.ibm.rpm.wbs.containers

Extends: **RPMObject**

Usage

A **TaskAssignment** contains data associated with a resource or a profile that is assigned to a Wbs element, as described in the **ResourceTaskAssignment** container

documentation. A **TaskAssignment** must be created and deleted through its parent **ResourceTaskAssignment**, but it can be loaded and updated independently.

Parent is mandatory, allowed parent type is **ResourceTaskAssignment**.

Supported API Calls

- save (updates only)
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 281. TaskAssignment Field Description

Field	Detail
activities	<p>Type: Activity[]</p> <p>Default value: N/A</p> <p>Description: The activities required to be completed the task assignment</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
actualFinishDate	<p>Type: dateTime</p> <p>Default value: N/A (derived value)</p> <p>Description: The actual finish date of the task assignment, it is set to the date the resource completes his or her portion of the task.</p> <p>Field validation description: This field is read-only</p> <p>Additional field security restrictions: N/A</p>
actualStartDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The actual start date of the task assignment, it is set once the resource starts the task.</p> <p>Field validation description: This field is read-only</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
actualWork	<p>Type: double</p> <p>Default value: 0.00</p> <p>Description: The actual amount of work required to complete the task. This value is derived from the resource's timesheet.</p> <p>This field is editable for all assigned resources once there is a timesheet entry for any of the assigned resources.</p> <p>Field validation description: The Value range is 0.00 and 9000.00</p> <p>This field is read-only if the actualStartDate field is <i>null</i>.</p> <p>Additional field security restrictions: N/A</p>
assignmentFinishDate	<p>Type: dateTime</p> <p>Default value:The assignmentStartDate + days of duration of the task + calendar exceptions (such as weekends and holidays) based on the resource's calendar.</p> <p>Description: The finish date of the assignment.</p> <p>If the assignmentStartDate is modified to be larger than the current assignmentFinishDate, the assignmentFinishDate is modified to become the assignmentStartDate plus the planned days of duration of the task if it exists (WorkElement.planDate). If the planDate does not exist, the proposed days of duration (WorkElement.proposedDate) field is used.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
assignmentFinishDateType	<p>Type: DateType</p> <p>Default value: N/A</p> <p>Description: The type of date associated with the assignment finish date.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
assignmentStartDate	<p>Type: dateTime</p> <p>Default value: The planned start date of the task (WorkElement.planDate) if it exists. Otherwise, the proposed start date of the task (WorkElement.proposedDate) is the default.</p> <p>Description: The start date of the assignment. Once it has a value, the actualStartDate is copied into assignmentStartDate.</p> <p>Field validation description: This field is read-only once actualStartDate is attributed a value.</p> <p>Additional field security restrictions: N/A</p>
assignmentStartDateType	<p>Type: DateType</p> <p>Default value: N/A</p> <p>Description: The type of date associated with the assignment start date.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
baselineFinishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The baseline finish date</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
baselineStartDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The baselines start date</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
baselineWork	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: Affected work.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
billable	<p>Type: boolean</p> <p>Default value: true</p> <p>Description: Whether or not the task assignment is billable.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
calculatedLeveledFinishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The leveled finish date</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
calculatedLeveledStartDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The leveled start date</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
calculatedLeveledWork	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The amount of work performed.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
contract	<p>Type: Contract</p> <p>Default value: N/A</p> <p>Description: The contract related to the task assignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
costLaborCode	<p>Type: ChargeCode</p> <p>Default value: N/A</p> <p>Description: The Expense or Capital labor code for the resource assignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
costPerHour	<p>Type: double</p> <p>Default value: The resource's regular cost per hour (<code>ResourceRates.regularCostPerHour</code>) .</p> <p>Description: The resource's regular cost rate.</p> <p>Field validation description: The value range is 0.00 and 9,999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
costType	<p>Type: ChargeCode</p> <p>Default value: N/A</p> <p>Description: The type of cost of the task.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
daysOfDelay	<p>Type: int</p> <p>Default value: The number of days after the task's <code>assignmentStartDate</code> that the resource will begin to work on the task, based on the resource's calendar.</p> <p>Description: The number of days the task is delayed.</p> <p>Field validation description: The value range is 0 to 2000.</p> <p>This field is read-only once <code>actualStartDate</code> is attributed a value.</p> <p>Additional field security restrictions: N/A</p>
defaultLabor	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Once the <code>defaultLabor</code> code is set to <code>true</code> for a resource assignment, the next time the resource is assigned in this project, the labor codes from the assignment will be used as default .</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
EETCHours	<p>Type: double</p> <p>Default value: The number of hours of duration of the task based on the days of duration from the task's planned or proposed duration (WorkElement.planDate or WorkElement.proposedDate).</p> <p>Description: Estimated Effort to Complete. The Estimated Effort to Complete. This field is calculated based on the actualWork field, it is the remaining number of hours to completion $((\text{lastScheduleWork} * \text{number of work hours per calendar day}) - \text{actualWork})$.</p> <p>Field validation description: Must be less than or equal to the number of hours for which the resource is available $((\text{resourceDiscontinueDate} - \text{startDate}) * \text{daily calendar hours})$, where startDate = latest of resource.effectiveStartDate and taskAssignment.expectedStartDate.</p> <p>Cannot be set to 0 if an actualStartDate does not exist.</p> <p>Additional field security restrictions: N/A</p>
expectedFinishDate	<p>Type: dateTime</p> <p>Default value: The assignmentStartDate + days of duration of the task + calendar exceptions (such as weekends and holidays) based on the resource's calendar.</p> <p>Description: The date at which the resource is expected to finish the task, based on the resource's calendar.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
expectedStartDate	<p>Type: dateTime</p> <p>Default value: The task's planned start date (WorkElement.planDate) if it exists. Otherwise, the task's proposed start date (WorkElement.proposedDate) is the default.</p> <p>Description: The date at which the task is expected to be started.</p> <p>If the task's planned or proposed start date (WorkElement.planDate or WorkElement.proposedDate) is modified, the value is copied into the expectedStartDate field.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
expectedWork	<p>Type: double</p> <p>Default value: The days of duration of the task from the task's planned or proposed duration (WorkElement.planDate or WorkElement.proposedDate).</p> <p>Description: The expected work from the WorkElement for a resource assignment.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
forecastFinishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The forecasted finish date.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
forecastStartDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The forecasted start date</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
invoices	<p>Type: Invoice[]</p> <p>Default value: N/A</p> <p>Description: The list of invoices related to the task assignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
lastScheduleWork	<p>Type: double</p> <p>Default value: The days of task duration from the task's planned or proposed duration (WorkElement.planDate or WorkElement.proposedDate).</p> <p>Description: Work in days at last schedule. Recalculated when EETCHours is modified: (EETCHours + actualHours) / hours per calendar day.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
percentageComplete	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: The percentage of completion of the task.</p> <p>Calculated field: $100 - (\text{EETCHours} / (\text{lastScheduleWork} * \text{hours in calendar day}) * 100)$</p> <p>Editable for all task resources once actualStartDate exists for one resource.</p> <p>Field validation description: The value range is 0.00 and 100.</p> <p>Additional field security restrictions: N/A</p>
percentageDurationComplete	<p>Type: int</p> <p>Default value: N/A</p> <p>Description: The percentage duration completed of the task.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
percentageRateAdjustment	<p>Type: int</p> <p>Default value: 100</p> <p>Description: The percentage adjustment of regular selling rate.</p> <p>If the sellingRatePerHour is modified, the percentageRateAdjustment is modified to reflect the percentage adjustment from the selling rate per hour defined in the resource's profile (ResourceRates.sellingRatePerHour).</p> <p>If the percentageRateAdjustment is modified, the sellingRatePerHour is re-calculated to reflect the percentage adjustment.</p> <p>Field validation description: The value range is 0 and 9999.</p> <p>Additional field security restrictions: N/A</p>
percentageWork	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: Work percentage complete.</p> <p>Field is Calculated: $100 - (\text{EETCHours} / (\text{lastScheduleWork} * \text{hours in calendar day}) * 100)$</p> <p>This field becomes editable for all task resources once actualStartDate exists for a resource.</p> <p>Field validation description: The value range is 0.00 and 100.</p> <p>Additional field security restrictions: N/A</p>
plannedDurationHours	<p>Type: double</p> <p>Default value: N/A</p> <p>Description: Planned hours of duration.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
remainingHours	<p>Type: double</p> <p>Default value: The hour duration of the task based on the day duration from the task's planned or proposed duration (WorkElement.planDate or WorkElement.proposedDate)</p> <p>Description: The number of remaining hours to complete the task.</p> <p>This field is calculated based on the actualWork field which represents the remaining number of hours to completion ((lastScheduleWork * number of work hours per calendar day) – actualWork) .</p> <p>When EETCHours is overwritten, remainingHours takes on its value.</p> <p>Field validation description: This field is read-only</p> <p>Additional field security restrictions: N/A</p>
revenueLaborCode	<p>Type: ChargeCode</p> <p>Default value: N/A</p> <p>Description: The Billable Benefit labor code for the assignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
sellingRatePerHour	<p>Type: double</p> <p>Default value: The resource's regular selling rate per hour.</p> <p>(ResourceRates.sellingRatePerHour).</p> <p>Description: The resource's regular selling rate per hour.</p> <p>Field validation description: The value range is 0.00 and 9,999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>

Table 281. TaskAssignment Field Description (continued)

Field	Detail
specialCostPerHour	<p>Type: double</p> <p>Default value: The resource's special cost per hour.</p> <p>(ResourceRates.specialCostPerHour).</p> <p>Description: The resource's special (overtime) cost rate.</p> <p>Field validation description: The value range is 0.00 and 9,999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
specialSellingRatePerHour	<p>Type: double</p> <p>Default value: The resource's special selling rate per hour.</p> <p>(ResourceRates.specialSellingRatePerHour).</p> <p>Description: The resource's special (overtime) selling rate.</p> <p>Field validation description: The value range is 0.00 and 9,999,999,999,999.99.</p> <p>Additional field security restrictions: N/A</p>
summaryTimesheets	<p>Type: SummaryTimesheet[]</p> <p>Default value: N/A</p> <p>Description: The list of summary timesheets related to a task.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
unitsPercentage	<p>Type: double</p> <p>Default value: The percentage the resource is available for this task, based on other assignments.</p> <p>Description: The quantity of a resource assigned to the task. When this field is modified, this forces recalculation of the number of hours to be worked per day on this task (SummaryTimesheet[]).</p> <p>Field validation description: The value range is 0.00 and 999999.00.</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- ChargeCode
- Activity
- SummaryTimesheet
- Contract

WbsModule

Description

Package: com.ibm.rpm.wbs.containers

Extends: AbstractModule

Usage

This module class is used to load all relevant containers related to Work Element.

Supported API Calls

- save
- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 282. WbsModule Field Description

Field	Detail
assetFinancialCategories	Type: AssetFinancialCategory[] Default value: N/A Description: The list of AssetFinancialCategory containers associated with the module. Field validation description: N/A Additional field security restrictions: N/A

Table 282. WbsModule Field Description (continued)

Field	Detail
assignmentStatus	<p>Type: AssignmentStatus[]</p> <p>Default value: N/A</p> <p>Description: The list of AssignmentStatus containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
attributeCategories	<p>Type: AttributeCategory[]</p> <p>Default value: N/A</p> <p>Description: The list of AttributeCategory containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldCategories	<p>Type: CustomFieldCategory[]</p> <p>Default value: N/A</p> <p>Description: The list of CustomFieldCategory containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
deliverableRtfs	<p>Type: DeliverableRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of DeliverableRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
deliverableStates	<p>Type: DeliverableState[]</p> <p>Default value: N/A</p> <p>Description: The list of DeliverableState containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
genericProjects	<p>Type: GenericProject[]</p> <p>Default value: N/A</p> <p>Description: The list of GenericProject containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 282. WbsModule Field Description (continued)

Field	Detail
milestoneRtfs	<p>Type: MilestoneRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of MilestoneRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
portfolios	<p>Type: Portfolio[]</p> <p>Default value: N/A</p> <p>Description: The list of Portfolio containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
projectRtfs	<p>Type: ProjectRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of ProjectRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scorecardFolders	<p>Type: ScorecardFolder[]</p> <p>Default value: N/A</p> <p>Description: The list of ScorecardFolder containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
states	<p>Type: State[]</p> <p>Default value: N/A</p> <p>Description: The list of State containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
summaryTaskRtfs	<p>Type: SummaryTaskRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of SummaryTaskRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 282. WbsModule Field Description (continued)

Field	Detail
taskRtfs	<p>Type: TaskRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of TaskRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
taskStates	<p>Type: TaskStates[]</p> <p>Default value: N/A</p> <p>Description: The list of TaskState containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workLocations	<p>Type: WorkLocation[]</p> <p>Default value: N/A</p> <p>Description: The list of WorkLocation containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
workProductRtfs	<p>Type: WorkProductRTF[]</p> <p>Default value: N/A</p> <p>Description: The list of WorkProductRTF containers associated with the module.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

WbsScheduleDate

Description

Package: com.ibm.rpm.wbs.containers

Extends: ScheduleDate

Usage

Defines schedule dates in WBS. Depicts the type of WbsScheduleDate by defining a constant value for each possible type.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 283. WbsScheduleDate Field Description

Field	Detail
ACTUAL	<p>Type: string</p> <p>Default value: 'actualDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'actual'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BASELINE	<p>Type: string</p> <p>Default value: 'baselineDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'baseline'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
EXPECTED	<p>Type: string</p> <p>Default value: 'expectedDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'expected'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
FORECAST	<p>Type: string</p> <p>Default value: 'forecastDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'forecast'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
INITIALBASELINE	<p>Type: string</p> <p>Default value: 'initialBaselineDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'initial baseline'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 283. WbsScheduleDate Field Description (continued)

Field	Detail
ACTUAL	<p>Type: string</p> <p>Default value: 'actualDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'actual'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
BASELINE	<p>Type: string</p> <p>Default value: 'baselineDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'baseline'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
PLAN	<p>Type: string</p> <p>Default value: 'planDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'plan'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
PREVIOUSBASELINE	<p>Type: string</p> <p>Default value: 'previousBaselineDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'previous baseline'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
PROPOSED	<p>Type: string</p> <p>Default value: 'proposedDate'</p> <p>Description: Constant value depicting the WbsScheduleDate is of type 'proposed'.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From `ScheduleDate`

Related Objects

N/A

WorkElement

Description

Package: `com.ibm.rpm.wbs.containers`

Extends: `RPMObject`

Usage

This class cannot be used to directly create an object. It is extended to create Milestone, Task, and AggregateNode. AggregateNode includes GenericProject (Project, Proposal, and WorkOrganization), as well as WorkProduct, SummaryTask, and Deliverable.

Supported API Calls

- `save`
- `loadArrayFromID`
- `loadFromID`
- `loadFromXpath`
- `delete`
- `convertWorkElement`

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 284. WorkElement Field Description

Field	Detail
actualDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A (derived value)</p> <p>Description: The actual date for this WorkElement.</p> <p>The actual duration in hours/days, of actual work hours, actual duration in minutes, and actual start and finish dates of the WorkElement.</p> <p>WorkElements that contain sub-elements:</p> <ul style="list-style-type: none"> • If at least one of the sub-element's actualDate.startDate has a value, then the earliest actualDate.startDate date rolls up to the parent WorkElement's actualDate.startDate. • If all subelements have an actualDate.finishDate, then the latest actualDate.finishDate rolls up to the parent WorkElement's actualDate.finishDate. <p>Field validation description:</p> <ul style="list-style-type: none"> • All actualDate fields are read-only for projects, work organizations, proposals, deliverables, work products, and summary tasks. • All actualDate fields are set to read-only once resourceRoleAssignment contains a value, at which point the fields are based on timesheet entries. • Fields actualDate.startDate and actualDate.durationInMinutes are the only editable fields. All others are always read-only. • The actualDate fields are not editable until planDate.startDate contains a value and planDate.durationInMinutes is larger than 0. • The actualDate.durationInMinutes field is not editable until actualDate.startDate contains a value. • The actualDate.startDate field cannot be edited if actualDate.durationInMinutes=planDate.durationInMinutes. • The actualDate.durationInMinutes field must be <= than the planDate.durationInMinutes field. <p>Additional field security restrictions: N/A</p>
asset	<p>Type: Asset</p> <p>Default value: N/A</p> <p>Description: Asset for this WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
assetCode	<p>Type: AssetFinancialCategory</p> <p>Default value: The AssetFinancialCategory containing the name field with the value "1".</p> <p>Description: The work element's asset code.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
attributeAssignments	<p>Type: AttributeAssignment[]</p> <p>Default value: N/A</p> <p>Description: The attributes assigned to the work element.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
baselineDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A (derived value)</p> <p>Description: The baseline duration in hours and/or days, baseline work hours, baseline duration in minutes, and baseline start and finish dates of the WorkElement.</p> <p>Values copied from planDate fields or from proposedDate fields if planDate is <i>null</i>.</p> <p>The baselineDate is overwritten when a new baseline is saved.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
containingProject	<p>Type: WorkElement</p> <p>Default value: N/A</p> <p>Description: The WorkElement's containing Project.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: CustomFieldAssignment[]</p> <p>Default value: N/A</p> <p>Description: List of CustomFieldAssignment containers.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
dependencies	<p>Type: ElementDependency[]</p> <p>Default value: N/A</p> <p>Description: List of ElementDependency containers .</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
documentFolder	<p>Type: DocumentFolder</p> <p>Default value: N/A</p> <p>Description: The documents that belong to the WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
estimatedFinishDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: The estimated finish date.</p> <p>Field validation description: estimatedFinishDate must be greater than or equal to estimatedStartDate.</p> <p>Additional field security restrictions: N/A</p>
estimatedStartDate	<p>Type: dateTime</p> <p>Default value: The current date.</p> <p>Description: The estimated start date</p> <p>Field validation description: estimatedStartDate must be less than or equal to estimatedFinishDate.</p> <p>Additional field security restrictions: N/A</p>
expectedDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A</p> <p>Description: The expected duration in hours and/or days, expected work hours, expected duration in minutes, and expected start and finish dates of the WorkElement.</p> <p>Overwritten by planDate fields once they are entered.</p> <p>Field validation description: This fields is read-only.</p> <p>Additional field security restrictions: N/A</p>
externalID	<p>Type: string</p> <p>Default value: N/A</p> <p>Description:</p> <p>Field validation description: Limit 50 characters.</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
forecastDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A (derived value)</p> <p>Description: The forecast duration in hours and/or days, forecast work hours, forecast duration in minutes, and forecast start and finish dates of the WorkElement.</p> <p>Field validation description:</p> <ul style="list-style-type: none"> • All forecastDate fields set to read-only once resourceRoleAssignment contains a value, at which point the fields are calculated. • Field forecastDate.durationInMinutes is the only editable forecastDate field. All others are always read-only. • This field is read-only for proposals, work organizations, projects, deliverables, work products, and summary tasks. • The forecastDate.durationInMinutes field is editable only when actualDate.startDate has a value but actualDate.durationInMinutes is not equal to planDate.durationInMinutes • The forecastDate.durationInMinutes field must be greater than or equal to the actualDate.durationInMinutes field if it exists. • When the forecastDate.durationInMinutes field is entered, the value is copied to the planDate.durationInMinutes field and the planDate.finishDate is adjusted accordingly. <p>Additional field security restrictions: N/A</p>
initialBaselineDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A (derived value)</p> <p>Description: Initial baseline duration in hours and/or days, initial baseline work hours, initial baseline duration in minutes, and initial baseline start and finish dates of the WorkElement.</p> <p>Values copied from planDate fields or from proposedDate fields if planDate is <i>null</i>.</p> <p>Once the initialBaselineDate is set, it is never modified.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
lastModifiedDate	<p>Type: dateTime</p> <p>Default value: N/A</p> <p>Description: Date last modified.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
minutesPerDay	Type: int
	Default value: N/A
	Description: Minutes per day.
	Field validation description: N/A
	Additional field security restrictions: N/A
name	Type: string
	Default value: N/A
	Description: The name of the element being created.
	Field validation description:
	Limit 240 characters for Proposals, Projects, and WorkOrganizations.
	Limit 255 characters for Deliverables, Work Products, Summary Tasks, Milestones, and Tasks.
	This field is mandatory.
	Additional field security restrictions: N/A

Table 284. WorkElement Field Description (continued)

Field	Detail
planDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A</p> <p>Description: The plan duration in hours and/or days, plan work hours, plan duration in minutes, and plan start and finish dates of the WorkElement.<u>WorkElements that contain sub-elements:</u></p> <ul style="list-style-type: none"> • The parent WorkElement's planDate.startDate is based on the earliest planDate.startDate from sub-elements. • The parent WorkElement's planDate.finishDate is based on the latest planDate.finishDate from sub-elements. <p>Field validation description: N/A</p> <ul style="list-style-type: none"> • This field is read-only for projects, work organizations, proposals, deliverables, work products, and summary tasks. The planDate fields are overwritten when proposedDate fields are copied to planDate fields. • All planDate fields are set to read-only once resourceRoleAssignment contains a value. • Fields planDate.startDate and planDate.durationInMinutes are the only editable fields. All others are always read-only. • The planDate fields are edited when forecastDate fields are entered. Refer to the description of field forecastDate for details. • The planDate.durationInMinutes field is not editable until planDate.startDate contains a value. • Once planDate.startDate contains a value, it can be changed but not cleared. • Field planDate.finishDate is calculated based on the project calendar if planDate.startDate and planDate.durationInMinutes contain values. • Once a resource is assigned to the WorkElement, the planDate is modified based on resource availability (see TaskAssignment). Must copy proposed to plan for the modification to occur. • All planDate fields read-only once actualDate.startDate contains a value. • Once they are entered, actualDate fields are copied to planDate fields. <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
previousBaselineDate	<p>Type: WbsScheduleDate</p> <p>Default value: N/A (derived value)</p> <p>Description: The previous baseline duration in hours and/or days, previous baseline work hours, previous baseline duration in minutes, and previous baseline start and finish dates of the WorkElement.</p> <p>Values copied from baselineDate fields when the second and subsequent baselines are saved.</p> <p>Field validation description: This field is read-only.</p> <p>Additional field security restrictions: N/A</p>
proposedDate	<p>Type: WbsScheduleDate</p> <p>Default value: The expectedDate copied to proposedDate (derived value).</p> <p>Description: The proposed duration in hours and/or days, proposed work hours, proposed duration in minutes, and proposed start and finish dates of the WorkElement.</p> <p>Field validation description:</p> <ul style="list-style-type: none"> • This field is read-only for projects, proposals, work organizations, deliverables, work products, and summary tasks. • All proposedDate fields are set to read-only once planDate.startDate is set or once resourceRoleAssignment contains a value. • Fields proposedDate.startDate and proposedDate.durationInMinutes are the only editable fields. All others are always read-only. • Field proposedDate.finishDate calculated based on the project calendar. • The proposedDate.startDate field cannot be cleared. • All proposedDate fields are cleared once the planDate is entered. <p>Additional field security restrictions: N/A</p>
rank	<p>Type: int</p> <p>Default value: 500</p> <p>Description: The ranking of the WorkElement.</p> <p>Field validation description: The value range is 0 - 1000.</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
referenceNumber	<p>Type: string</p> <p>Default value: N/A</p> <p>Description:</p> <p>Field validation description:</p> <p>Limit 19 characters for a Project or a Proposal.</p> <p>Limit 50 characters for all other elements.</p> <p>Additional field security restrictions: N/A</p>
resourceTaskAssignments	<p>Type: ResourceTaskAssignment[]</p> <p>Default value: N/A</p> <p>Description: List of ResourceTasks assigned to this WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: RtfAssignments[]</p> <p>Default value: N/A</p> <p>Description: List of RtfAssignments for this WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scopeElement	<p>Type: ScopeElement</p> <p>Default value: N/A</p> <p>Description: The ScopeElement associated with the WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
state	<p>Type: DatafieldState</p> <p>Default value: For Proposals, Projects, and WorkOrganizations, the State containing the name field with the value "1".</p> <p>For Deliverables, WorkProducts, and SummaryTasks, the DeliverableState containing the name field with the value "1".</p> <p>For Milestones and Tasks, the TaskState containing the name field with the value "1".</p> <p>Description: The state of the WorkElement.</p> <p>Field validation description:</p> <p>For Proposals, Projects, and WorkOrganizations, state must be an instance of State.</p> <p>For Deliverables WorkProducts, and SummaryTasks, state must be an instance of DeliverableState.</p> <p>For Tasks and Milestones, state must be an instance of TaskState.</p> <p>Additional field security restrictions: N/A</p>
statusUpdates	<p>Type: StatusUpdates[]</p> <p>Default value: N/A</p> <p>Description: List of StatusUpdates for this WorkElement</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
timeCode1	<p>Type: TimeCode</p> <p>Default value: N/A</p> <p>Description: The first of two time codes associated with the WorkElement.</p> <p>Field validation description: timeCode1 must belong to Time Codes I category.</p> <p>Additional field security restrictions: N/A</p>
timeCode2	<p>Type: TimeCode</p> <p>Default value: N/A</p> <p>Description: The second of two time codes associated with the WorkElement.</p> <p>Field validation description: timeCode2 must belong to Time Codes II category.</p> <p>Additional field security restrictions: N/A</p>

Table 284. WorkElement Field Description (continued)

Field	Detail
timeCodeAssignments	Type: TimeCodeAssignment[] Default value: N/A Description: List of TimeCodeAssignment containers. Field validation description: N/A Additional field security restrictions: N/A
wbsFinancials	Type: WBSFinancial[] Default value: N/A Description: List of WBSFinancials for this WorkElement. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

N/A

WorkOrganization Description

Package: com.ibm.rpm.wbs.containers

Extends: GenericProject

Usage

Used to manage project activities.

Parent is mandatory, allowed parent types are Portfolio, Proposal, Project, and WorkOrganization.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From `RPMObject`

From `WorkElement`

From `AggregateNode`

From `GenericProject`

Related Objects

N/A

WorkProduct

Description

Package: com.ibm.rpm.wbs.containers

Extends: `AggregateNode`

Usage

WorkProduct is defined as the physical output or procedural outcome that represents the completion of some part of the project. As opposed to deliverables, work products are typically internal to the organization.

Parent is mandatory, allowed parent types are Proposal, Project, WorkOrganization, Deliverable, WorkProduct, and SummaryTask.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete
- convertWorkElement

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **WorkElement**

From **AggregateNode**

Related Objects

N/A

ErrorCodes

Description

Package: com.ibm.rpm.wbs.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class **ErrorCodes** are static, final integers. The error message is retrieved from the properties file `errorCode.properties` according to the integer error code provided.

WBS errors are specific to the WBS section of the API.

WBS error codes ranges: 407,001 - 408,000

- 407,001 - 407,299: validation codes
- 407,300 - 407,499: xpath codes
- 407,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following tables lists the fields for this object.

Table 285. Wbs Validation ErrorCodes

Field	Description
407001	If the Profile's grandparent is not of type <i>GenericProject</i> , the grandparent's project assignmentType must be set to 'Work'.

Table 285. Wbs Validation ErrorCodes (continued)

Field	Description
407002	There were no changes made that can be accepted or rejected.
407003	Please specify which fields to accept/reject. The accept/reject fields for EETC and forecastDates cannot both be set to false.
407004	If the published field is set to 'ToTemplate', the generic project must have a saved parent.
407005	PublishedType 'ToTemplate' is not currently supported.

Inherited Fields

N/A

Related Objects

N/A

PortfolioScope

Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

N/A

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 286. PortfolioScope Field Description

Field	Detail
parent	Type: PortfolioScope Default value: null Description: Field validation description: Additional field security restrictions: N/A

Table 286. PortfolioScope Field Description (continued)

Field	Detail
portfolios	Type: PortfolioScope
	Default value: null
	Description:
	Field validation description:
	Additional field security restrictions: N/A
projects	Type: WorkElementScope
	Default value: null
	Description:
	Field validation description:
	Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

ProfileScope

Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

N/A

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 287. ProfileScope Field Description

Field	Detail
geographical	Type: GeographicalScope Default value: N/A Description: The scope of the geography associated with the Profile. Field validation description: N/A Additional field security restrictions: N/A
organizational	Type: OrganizationalScope Default value: N/A Description: The scope of the organization associated with the Profile. Field validation description: N/A Additional field security restrictions: N/A
parent	Type: ResourceTaskAssignmentScope Default value: N/A Description: The scope of the Profile's parent. Field validation description: N/A Additional field security restrictions: N/A
pool	Type: PoolScope Default value: N/A Description: The scope of the pool associated with the Profile. Field validation description: N/A Additional field security restrictions: N/A
profileCompetencyAssignments	Type: boolean Default value: false Description: Determines whether or not to include the Profile's ProfileCompetencyAssignment. Field validation description: N/A Additional field security restrictions: N/A

Table 287. ProfileScope Field Description (continued)

Field	Detail
profileSkillAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Determines whether or not to include the Profile's ProfileSkillAssignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

From RPMObject\

Related Objects

N/A

ResourceTaskAssignmentScope Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

ResourceTaskAssignmentScope represents a scope to navigate to objects that are related to **ResourceTaskAssignment**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 288. ResourceTaskAssignmentScope Field Description

Field	Detail
assignmentStatus	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Determines whether or not to include the ResourceTaskAssignment's assignmentStatus.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: RPMObjectScope</p> <p>Default value: N/A</p> <p>Description: The scope of the ResourceTaskAssignment's parent.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
profile	<p>Type: ProfileScope</p> <p>Default value: N/A</p> <p>Description: The scope of the Profile associated with the ResourceTaskAssignment.</p> <p>Field validation description: Cannot coexist with resource.</p> <p>Additional field security restrictions: N/A</p>
resource	<p>Type: ResourceScope</p> <p>Default value: N/A</p> <p>Description: The scope of the Resource associated with the ResourceTaskAssignment.</p> <p>Field validation description: Cannot coexist with resource.</p> <p>Additional field security restrictions: N/A</p>
taskAssignment	<p>Type: TaskAssignmentScope</p> <p>Default value: N/A</p> <p>Description: The scope of the TaskAssignment associated with the ResourceTaskAssignment.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 288. ResourceTaskAssignmentScope Field Description (continued)

Field	Detail
workLocation	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Determines whether or not to include the ResourceTaskAssignment's workLocation.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

From RPMObject

Related Objects

N/A

TaskAssignmentScope Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

TaskAssignmentScope represents a scope to navigate to objects that are related to **TaskAssignment**.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 289. TaskAssignmentScope Field Description

Field	Detail
activities	<p>Type: boolean</p> <p>Default value:N/A</p> <p>Description: The scope object associated with the TaskAssignment's activities.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
contract	<p>Type: ContractScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's contract.</p> <p>Field validation description:</p> <p>Additional field security restrictions: N/A</p>
costLaborCode	<p>Type: ChargeCodeScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's costLaborCode.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
costType	<p>Type: ChargeCodeScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's costType.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
invoices	<p>Type: InvoiceScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's invoices.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 289. TaskAssignmentScope Field Description (continued)

Field	Detail
revenueLaborCode	<p>Type: ChargeCodeScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's revenueLaborCode.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
summaryTimesheets	<p>Type: SummaryTimesheetScope</p> <p>Default value: N/A</p> <p>Description: The scope object associated with the TaskAssignment's summaryTimesheets.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

N/A

WbsModuleScope Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

Represents a scope to navigate to objects that are related to WbsModule.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 290. Field Description

Field	Detail
portfolios	Type: PortfolioScope[]
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
genericProjects	Type: WorkElementScope[]
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
attributeCategories	Type: AttributeScope[]
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
assetFinancialCategories	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
assignmentStatus	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
workLocations	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 290. Field Description (continued)

Field	Detail
states	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
deliverableStates	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
taskStates	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
projectRtfs	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
deliverableRtfs	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A
workProductRtfs	Type: boolean
	Default value: N/A
	Description: N/A
	Field validation description: N/A
	Additional field security restrictions: N/A

Table 290. Field Description (continued)

Field	Detail
summaryTaskRtfs	Type: boolean Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
milestoneRtfs	Type: boolean Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
taskRtfs	Type: boolean Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
customFieldCategories	Type: CustomFieldScope[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A
scorecardFolders	Type: ScorecardFolderScope[] Default value: N/A Description: N/A Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

N/A

Related Objects

N/A

WorkElementScope

Description

Package: com.ibm.rpm.wbs.scope

Extends: RPMObjectScope

Usage

WorkElementScope is used to browse WorkElement object graph.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 291. WorkElementScope Field Description

Field	Detail
asset	Type: boolean Default value: false Description: This field is <i>true</i> if asset should be loaded, and is <i>false</i> if otherwise. Field validation description: Additional field security restrictions: N/A
assetCode	Type: boolean Default value: false Description: This field is <i>true</i> if assetCode should be loaded, and is <i>false</i> if otherwise. Field validation description: Additional field security restrictions: N/A
assignedScorecards	Type: ScorecardScope Default value: N/A Description: The scope of the assignedScorecards. Field validation description: N/A Additional field security restrictions: N/A

Table 291. WorkElementScope Field Description (continued)

Field	Detail
attributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if attributeAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
children	<p>Type: WorkElementScope</p> <p>Default value: N/A</p> <p>Description: The scope of the children WorkElements.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
containingProject	<p>Type: WorkElementScope</p> <p>Default value: N/A</p> <p>Description: The scope of the projects associated with the WorkElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
customFieldAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if customFieldAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
dependencies	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if dependencies should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 291. WorkElementScope Field Description (continued)

Field	Detail
documentFolder	<p>Type: DocumentScope</p> <p>Default value: N/A</p> <p>Description: The scope of the documentFolder.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
favoriteActivities	<p>Type: FavoriteActivityScope</p> <p>Default value: N/A</p> <p>Description: The scope of the favoriteActivities.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
opportunity	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if opportunity should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
organizationalAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is true if organizationalAssignments should be loaded, and is false if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: WorkElementScope</p> <p>Default value: N/A</p> <p>Description: The scope of the parent.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
portfolio	<p>Type: PortfolioScope</p> <p>Default value: N/A</p> <p>Description: The scope of the portfolio.</p> <p>Field validation description:</p> <p>Additional field security restrictions: N/A</p>

Table 291. WorkElementScope Field Description (continued)

Field	Detail
relatedAssignedScorecards	<p>Type: ScorecardScope</p> <p>Default value: N/A</p> <p>Description: The scope of the actionAssignedScorecards, changeRequestAssignedScorecards, defectAssignedScorecards, issueAssignedScorecards, requirementAssignedScorecards, riskAssignedScorecards, and serviceRequestAssignedScorecards</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
relatedAttributeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if actionAttributeAssignments, changeRequestAttributeAssignments, defectAttributeAssignments, deliverableAttributeAssignments, documentAttributeAssignments, issueAttributeAssignments, requirementAttributeAssignments, riskAttributeAssignments, serviceRequestAttributeAssignments, and taskAttributeAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
resourceTaskAssignments	<p>Type: ResourceTaskAssignmentScope</p> <p>Default value: N/A</p> <p>Description: The scope of the resourceTaskAssignments.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
rtfAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if rtfAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 291. WorkElementScope Field Description (continued)

Field	Detail
scheduleDates	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if actualDate, baselineDate, expectedDate, forecastDate, initialBaselineDate, planDate, previousBaselineDate, and proposedDate should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
scopeElement	<p>Type: ScopeElementScope</p> <p>Default value: N/A</p> <p>Description: The scope of the scopeElement.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
state	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if state should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
statusUpdate	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if statusUpdates should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
timeCodes	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: The scope of timeCode1 and timeCode2.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Table 291. WorkElementScope Field Description (continued)

Field	Detail
timeCodeAssignments	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: This field is <i>true</i> if timeCodeAssignments should be loaded, and is <i>false</i> if otherwise.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
wbsFinancials	<p>Type: FinancialScope</p> <p>Default value: N/A</p> <p>Description: The scope of wbsFinancials.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
worksheetFinancials	<p>Type: FinancialScope</p> <p>Default value: N/A</p> <p>Description: The scope of worksheetFinancials.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

N/A

Related Objects

- AggregateNode
- Deliverable
- GenericProject
- Milestone
- Project
- Proposal
- SimpleNode
- SummaryTask
- Task
- WorkElement
- WorkOrganization
- WorkProduct

AssignmentType

Description

Package: com.ibm.rpm.wbs.types

Usage

Represents the different types of assignments given to assets and resources.

AssignmentType is either a Work or Duration assignment.

Values

The following table lists the fields for this object.

Table 292. AssignmentType Value Description

Value	Detail
Work	Indicates a work assignment.
Duration	Indicates the duration assignment.

Related Objects

- GenericProject

ConstraintType

Description

Package: com.ibm.rpm.wbs.types

Usage

ConstraintType represents the time constraints which refer to the start and the end dates of a project.

Fields

The following table lists the fields for this object.

Table 293. ConstraintType Field Description

Field	Detail
AsLateAsPossible	Indicates that the project must end as late as possible.
AsSoonAsPossible	Indicates that the project must end as soon as possible.
FinishNoEarlierThan	Indicates that the project must finish no earlier than a pre-determined date.
FinishNoLaterThan	Indicates that the project must finish no later than a pre-determined date.
MustFinishOn	Indicates that the project must finish on a pre-determined date.
MustStartOn	Indicates that the project must start on a pre-determined date.

Table 293. ConstraintType Field Description (continued)

Field	Detail
StartNoEarlierThan	Indicates that the project must start no earlier than a pre-determined date.

Related Objects

- SimpleNode

DependencyType Description

Package: com.ibm.rpm.wbs.types

Usage

DependencyType represents the type of dependencies between the different projects and documents involved in the current project.

Values

The following table lists the values for this object.

Table 294. DependencyType Value Description

Value	Detail
FinishFinish	Indicates both projects are scheduled to finish simultaneously.
FinishStart	Indicates that the second project is scheduled to start at the same time the first project finishes.
StartFinish	Indicates the first project is scheduled to start at the same time the second project finishes.
StartStart	Indicate both projects are scheduled to be completed at the same time.

Related Objects

- ElementDependency

LeadLagType Description

Package: com.ibm.rpm.wbs.types

Usage

LeadLagType represents the status of the project dependencies.

Values

The following table lists the values for this object.

Table 295. LeadLagType ValueDescription

Value	Description
Lead	Indicates that the dependencies of the project are ahead of time.
Lag	Indicates that the dependencies of the project are late.

Related Objects

- ElementDependency

ResourceType Description

Package: com.ibm.rpm.wbs.types

Usage

ResourceType is either "Resource" or "Profile", it identifies whether a resource or a profile is assigned to a Work element using ResourceTaskAssignment.

Value

The following table lists the values for this object.

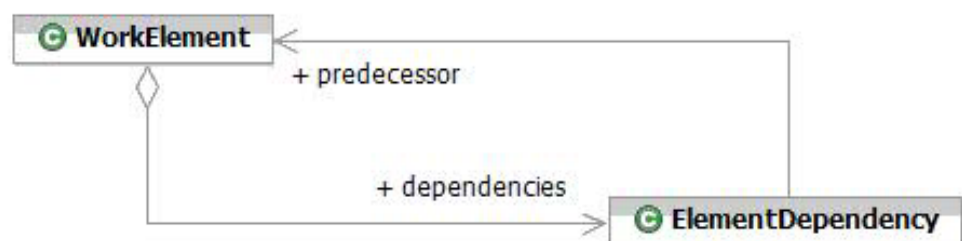
Table 296. ResourceType Value Description

Value	Detail
Resource	Indicates that the resource type is resource.
Profile	Indicates that the resource type is profile.

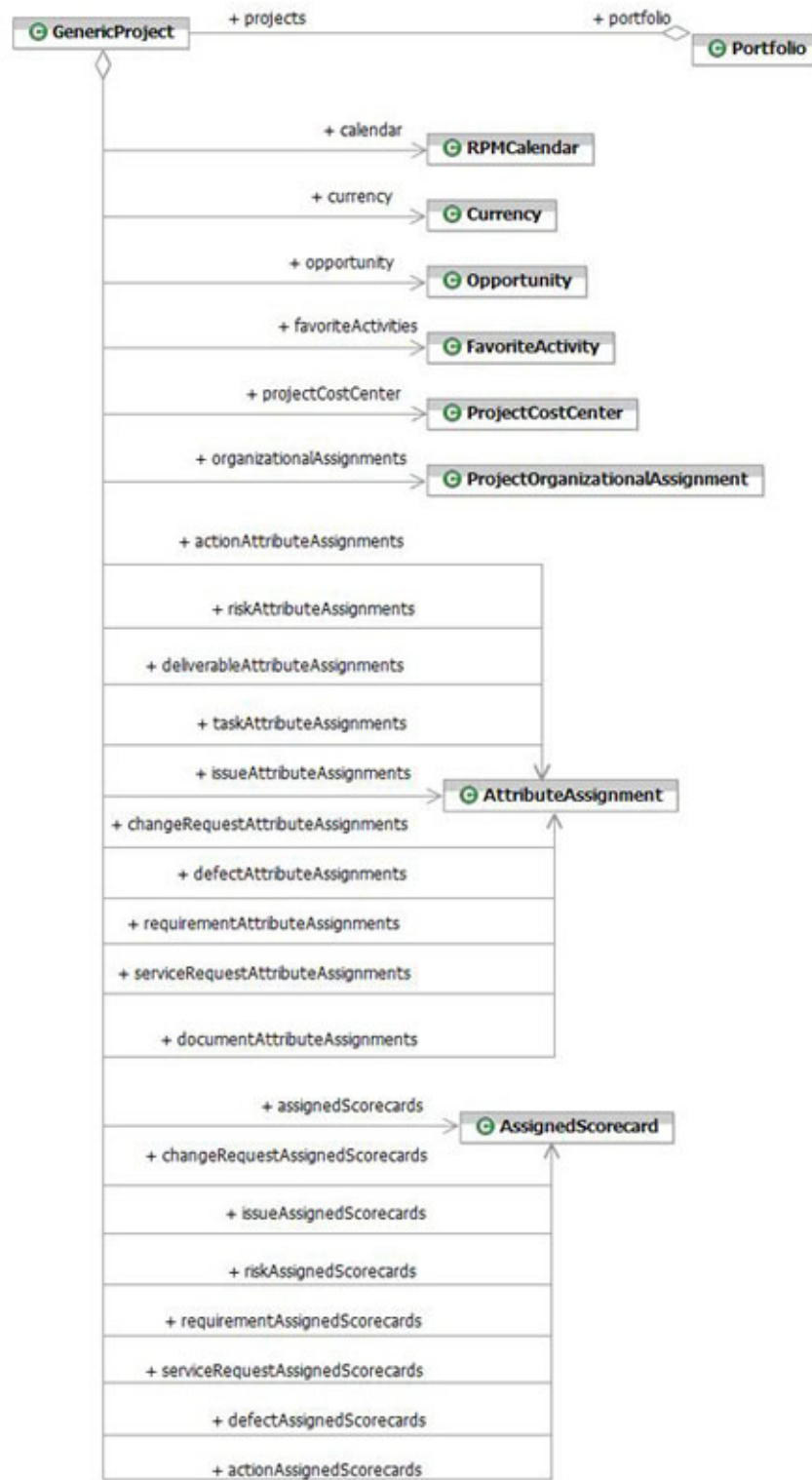
Related Objects

- ResourceTaskAssignment

Work Breakdown Structure Object Relationship Graphics ElementDependencies



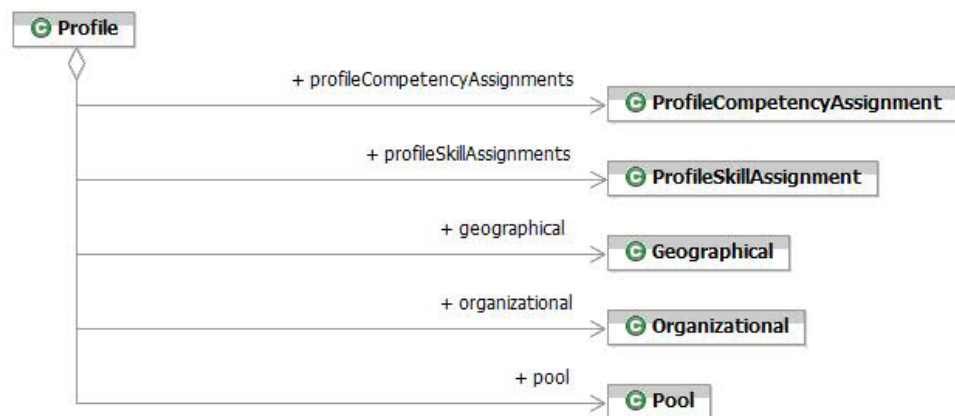
GenericProject



Portfolio



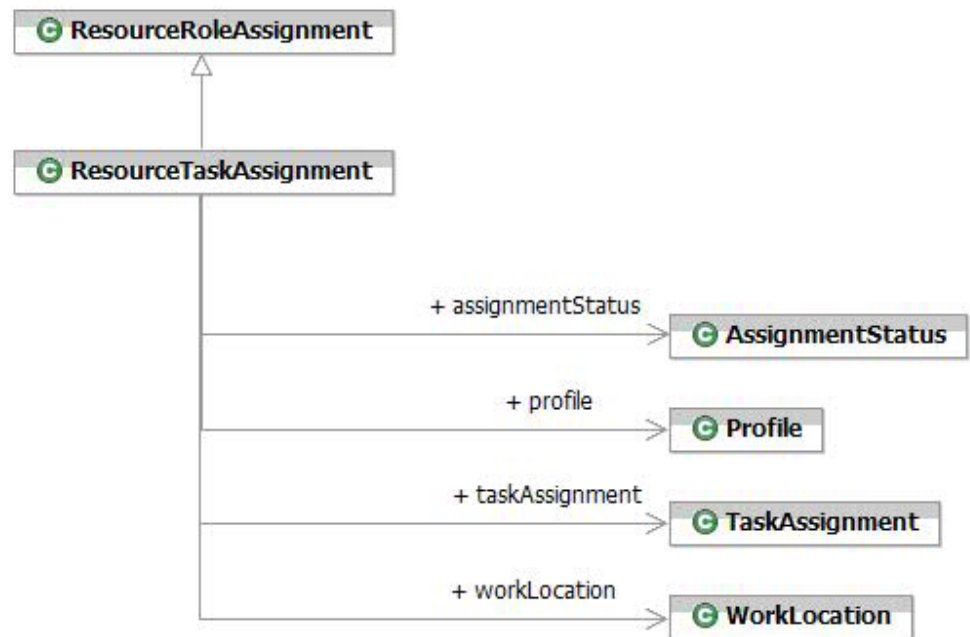
Profile



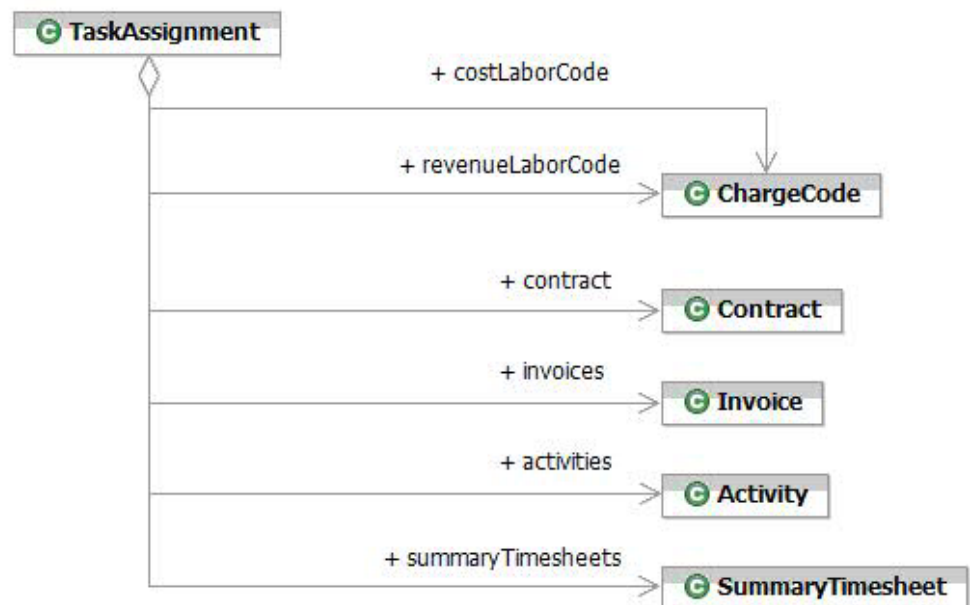
ProjectOrganizationalAssignment



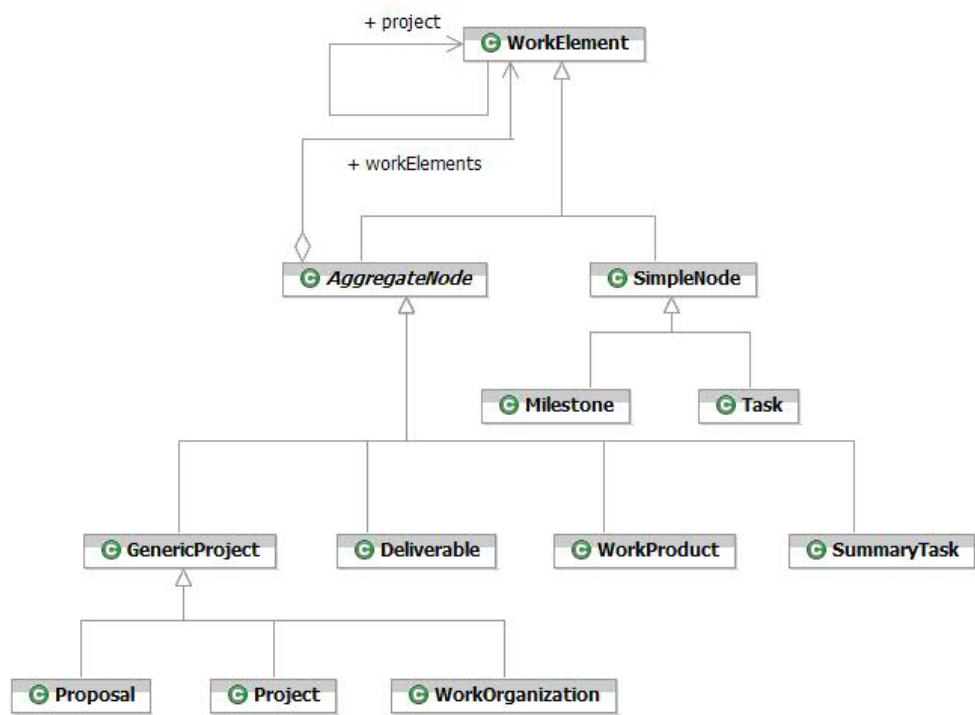
RessourceTaskAssignment



TaskAssignment



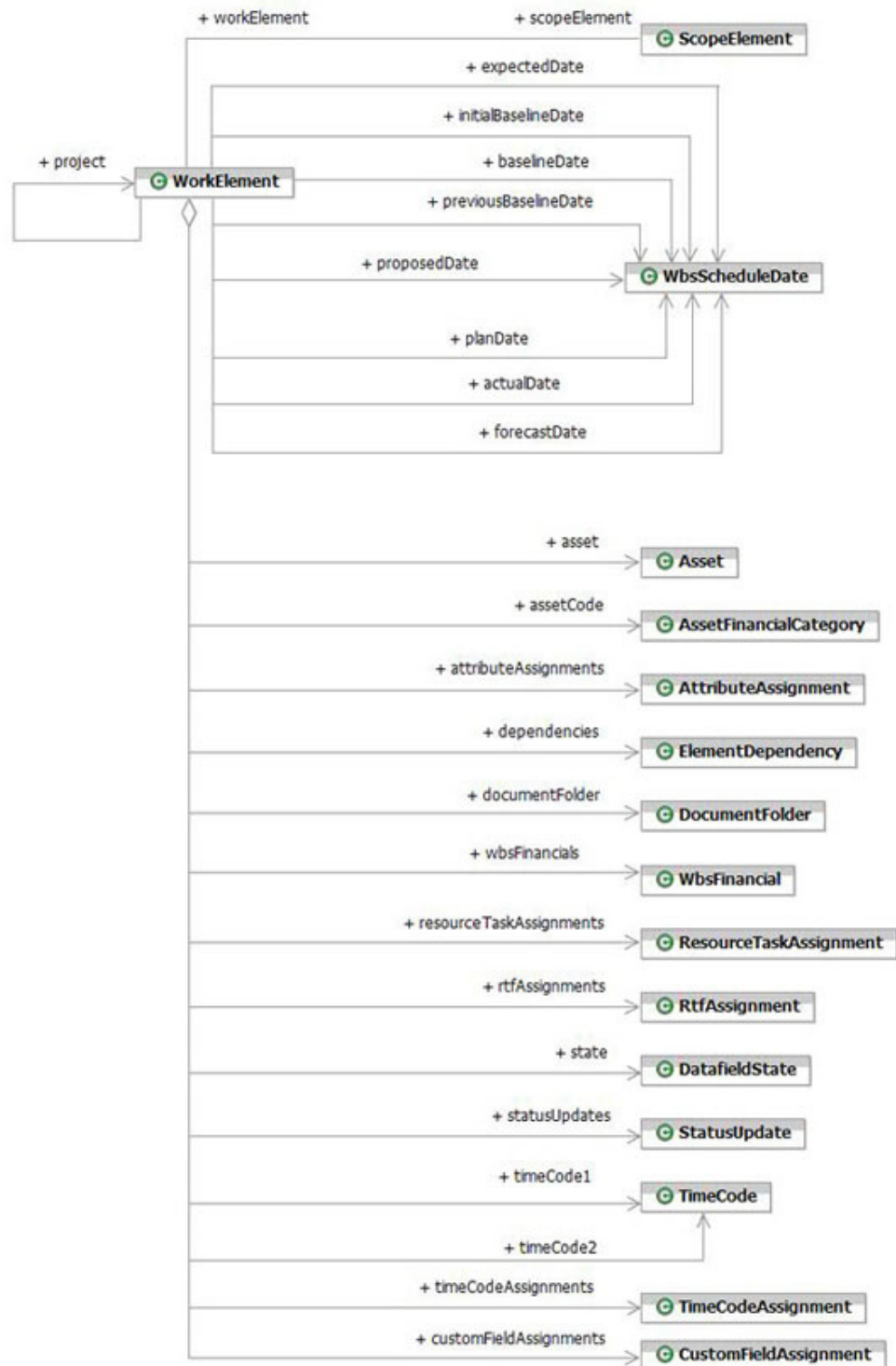
Wbs



WbsModule



WorkElement



Workflow

This section describes the objects available in the Workflow category of the Web Services API.

AbstractWorkflow Description

Package: com.ibm.rpm.workflow.containers

Extends: RPMObject

Usage

This is the base class for workflow containers. It cannot be instantiated.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 297. AbstractWorkflow Field Description

Field	Detail
name	Type: string Default value: null Description: The name of the workflow. Field validation description: Limit 50 characters. Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

Related Objects

- GenericWorkflow
- WorkflowGroup

GenericWorkflow

Description

Package: com.ibm.rpm.workflow.containers

Extends: AbstractWorkflow

Usage

This is the base class for WorkflowCategory and WorkflowProcess objects.

Supported API Calls

- loadArrayFromID
- loadFromID
- loadFromXpath

Security Restrictions

N/A

Fields

N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractWorkflow

Related Objects

- WorkflowScope
- WorkflowProcess
- WorkflowCategory

WorkflowCategory

Description

Package: com.ibm.rpm.workflow.containers

Extends: GenericWorkflow

Usage

WorkflowProcess objects are grouped into categories of type WorkflowCategory.

Parent is mandatory, allowed parent types are WorkflowCategory and WorkflowGroup.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath
- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 298. WorkflowCategory Field Description

Field	Detail
children	Type: GenericWorkflow[] Default value: N/A Description: The children of the workflow category. Field validation description: N/A Additional field security restrictions: N/A

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractWorkflow

Related Objects

- WorkflowScope

WorkflowGroup

Description

Package: com.ibm.rpm.workflow.containers

Extends: AbstractWorkflow

Usage

This class represents all the pre-defined workflow groups in Rational Portfolio Manager such as Project, Deliverable, Task, and so on.

Supported API Calls

- loadArrayFromID
- loadFromID

- loadFromXpath

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 299. WorkflowGroup Field Description

Field	Detail
children	<p>Type: GenericWorkflow[]</p> <p>Default value: N/A</p> <p>Description: The children of the workflow group.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From RPMObject

From AbstractWorkflow

Related Objects

- WorkflowScope

WorkflowProcess Description

Package: com.ibm.rpm.financial.containers

Extends: GenericWorkflow

Usage

A WorkflowProcess object is used to support the organization's accepted communication processes for reviews and approvals.

Parent is mandatory, allowed parent types are WorkflowCategory and WorkflowGroup.

Supported API Calls

- save
- loadArrayFromID
- loadFromID
- loadFromXpath

- delete

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 300. WorkflowProcess Field Description

Field	Detail
active	<p>Type: boolean</p> <p>Default value: false</p> <p>Description: Specifies whether the process is active or not.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

Click on object for list of inherited fields:

From **RPMObject**

From **AbstractWorkflow**

Related Objects

- WorkflowScope

ErrorCodes

Description

Package: com.ibm.rpm.workflow.constants

Usage

Error codes are used by managers and validation checkpoints to return an error message to the caller. All fields in class ErrorCodes are static, final integers. The error message is retrieved from properties file errorCode.properties according to the integer error code provided.

Workflow errors are specific to the workflow section of the API.

Workflow error codes ranges: 408,001 - 409,000

- 408,001 - 408,299: validation codes
- 408,300 - 408,499: xpath codes
- 408,500 +: manager codes

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 301. Validation Error Codes

Field	Detail
408001	Cannot start a workflow on an object of this type.
408002	Workflow must be activated.

Inherited Fields

N/A

Related Objects

N/A

WorkflowScope Description

Package: com.ibm.rpm.workflow.scope

Extends: RPMObjectScope

Usage

WorkflowScope represents a scope to navigate to objects that are related to workflows.

Supported API Calls

N/A

Security Restrictions

N/A

Fields

The following table lists the fields for this object.

Table 302. WorkflowScope Field Description

Field	Detail
children	<p>Type: WorkflowScope</p> <p>Default value: null</p> <p>Description: The scope for the children. . If children is not null then all the children of the object will be loaded</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>
parent	<p>Type: RPMObjectScope</p> <p>Default value: null</p> <p>Description: The scope for the parent.</p> <p>Field validation description: N/A</p> <p>Additional field security restrictions: N/A</p>

Inherited Fields

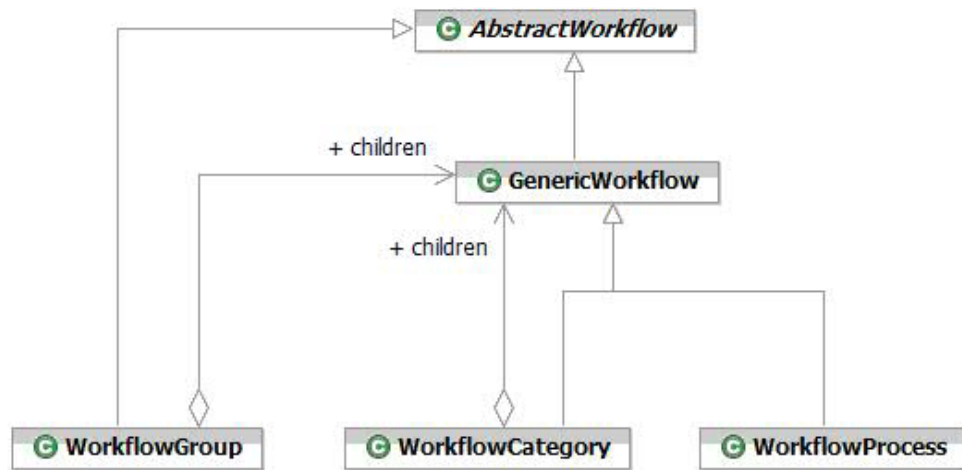
N/A

Related Objects

- GenericWorkflow
- GenericWorkflowGroup
- WorkflowProcess
- WorkflowCategory
- WorkflowActionItemGroup
- WorkflowChangeRequestGroup
- WorkflowDefectsGroup
- WorkflowDeliverableGroup
- WorkflowDocumentGroup
- WorkflowIssueGroup
- WorkflowNoteMinutesGroup
- WorkflowPoolGroup
- WorkflowProjectGroup
- WorkflowRequirementGroup
- WorkflowResourceGroup
- WorkflowRiskGroup
- WorkflowScoreCardsGroup
- WorkflowServiceRequestsGroup
- WorkflowTaskGroup

Workflow Object Relationship Diagrams

Workflow



Code Samples

This section provides you with code samples which are intended to help you further understand how objects are used within the Web Services API.

PoolAttribute

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.pool { /// <summary>
/// Summary description for PoolAttribute.
///
/// This sample loads a pool from RPM repository.
/// It creates a pool attribute, assigns it
/// to an existing pool. It also updates the attribute
/// and queries it.
/// </summary>
public class PoolAttribute
{
    public PoolAttribute()
    {

    }

    //All these variables are used in this sample
    public static String poolName = "IBMPPOOL_ABC";
    public static String catName = "IBMCATEGORY";
    public static String catDesc = "ABCDEF_123";
    public static String className = "IBMCLASSIFICATION";
    public static String classDesc = "ABCDEF_123";
    public static String attName = "IBMATTRIBUTE";
    public static String attDesc = "ABCDEF_123";
    InputType[] attType = new InputType[6] {InputType.Date ,
        InputType.None ,
        InputType.Numeric,
        InputType.RiskAppetite ,
        InputType.RiskTolerance ,
        InputType.Text };

    //Session ID is use for all transaction and is get from the
  
```

```

//Authenticate.login function. The session ID will replace
// the User password while transacting
public static String sessionid = "";

public void sampleTest()
{

    // start the communication with the api
    sessionid = APISetup.SetUp();

    // Declare the pool wich we are going to use
    Pool pool = null;

    // create a poolscope to keep track
    // of the relation between
    // the pool and its attribute
    PoolScope pScope = new PoolScope();

    //assign the scope to link with its attribute
    pScope.attributeAssignments = true;

    // declare a save result object
    SaveResult pSave = null;

    // Find the pool in RPM using XPath.
    pool = (Pool)APISetup.application.loadFromXpath
        (sessionid, "/Pool[name='" + poolName + "']",
        pScope).rpmObjectList[0];

    // create a pool attribute scope
    AttributeScope aScope = new AttributeScope();

    // create a pool attribute,
    // classification and its category
    AttributeCategory attCat = new AttributeCategory();
    AttributeClassification attClass =
        new AttributeClassification();
    TestFramework.ApplicationAPI.Attribute att =
        new TestFramework.ApplicationAPI.Attribute();

    // initialize the pool attribute category
    attCat.name = catName;
    attCat.description = catDesc;
    attCat.contextName = "Pool";
    attCat.deleted = false;
    aScope.category = new AttributeScope();

    // initialize the pool attribute classification
    attClass.name = className;
    attClass.description = classDesc;
    attClass.parent = attCat;
    attCat.classifications =
        new AttributeClassification[] {attClass};
    aScope.classification = new AttributeScope();

    aScope.classification.attribute = new AttributeScope();

    //initialize the pool attribute
    attClass.attributes =
        new TestFramework.ApplicationAPI.Attribute[6];

    // for logic enables creation of many attributes
    // in this case, we create an
    // attribute for each attribute type
    for (int i = 0 ; i < 6 ; i ++)
```

```

{
    att = new TestFramework.ApplicationAPI.Attribute();

    att.description = attDesc;
    att.parent = attClass;

    att.name = attName + i;
    att.inputType = attType[i];
    attClass.attributes[i] = att;
}

// save the attribute category in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary to save the category,
// classification and the attributes
// use a reloadType that allows you to continue
// working with the saved objects
pSave = new SaveResult();
pSave = APISetup.application.save(
    sessionid, attCat, aScope, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// initialize attribute scope so that
// you can load a classification with its attributes
aScope = new AttributeScope();
aScope.attribute = new AttributeScope();

// create a pool attribute assignment
AttributeAssignment assign = null;

pool.attributeAssignments = new AttributeAssignment[6];

for (int i = 0 ; i < 6 ; i ++)
{
    // load the classification
    // use a scope to load all attributes as well
    att= (TestFramework.ApplicationAPI.Attribute)APISetup
        .application.loadFromXpath(sessionid,
            "/Attribute[name = '" + attName + i + "'",
            null).rpmObjectList[0];

    // initialize the pool attribute assignment
    assign = new AttributeAssignment();
    assign.attribute = att;
    assign.parent = pool;

    // assign the assignment to the pool
    pool.attributeAssignments[i] = assign;
}

// save the pool in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary because we keep the attributes
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid, pool, pScope
    , ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// end the communication with the api.
APISetup.CleanUp(sessionid);

```

```

    }
  }
}

```

PoolDoc

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; using System.Net; using System.IO; using System.Web;
using System.Web.Services.Protocols; namespace Tests.pool { /// <summary>
/// Summary description for PoolDoc.
///
/// This sample loads a pool from the RPM
/// repository then it creates a document and assigns
/// it to the pool. It uploads an attachment to the
/// document and then downloads it.
/// </summary>
public class PoolDoc
{

    // constructor
    public PoolDoc(){}

    //All these variables are used in this sample
    public static String poolName = "IBMPool_123";
    public static String docName = "IBMDOCUMENT";
    public static String docFName= "IBMDOCFOLDER";
    public static String dEleName= "IBMDOCELEMENT";
    public static String contextName = "Pool";
    public static String uploadAction = "UPLOADZIPPED";
    public static String dwnldAction = "DOWNLOADZIPPED";

    public static String filePath = "C:\\RPM Initial Hypothesis "
    + "v3.zip";
    public static String filePathOut = "C:\\bucket\\RPM "
    + "Initial Hypothesis v3.zip";
    private static int BUFFER_SIZE = 2048;
    private static int MAX_SIZE = 2147483647;

    // Session ID is use for all transaction and is get from the
    // Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.Setup();

        // Declare the pool wich we are going to use
        Pool pool = null;

        // create a poolscope to keep track of the relation
        // between the pool and its attribute
        PoolScope pScope = new PoolScope();

        // adjust the pool scope to save the document
        pScope.documentFolder = new DocumentScope();

        // declare a save result object
        SaveResult pSave = null;

        // create a new document
        Document doc = new Document();
    }
}

```

```

// retrieve the pool in RPM using XPath.
pool = (Pool)APISetup.application.loadFromXPath(
    sessionid,
    "/Pool[name='" + poolName + "']"
    ,pScope).rpmObjectList[0];

// initialize the document
doc.name = docName;
doc.parent = pool.documentFolder;

// save the document in the RPM repository
// use the sessionid acquired in the setUp
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid, doc,
    null, ReloadType.ReloadResult);

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// load the doc in RPM using XPath.
doc = (Document)pSave.rpmObject;

/*
 * Upload a file
 */

// create a FileStream and initialize it with
// the file we wish to upload
FileStream f = new FileStream(filePath,
    System.IO.FileMode.Open,
    System.IO.FileAccess.Read,
    System.IO.FileShare.Read);

// address to wich we will upload the file
String adresse =
    "http://localhost:8080/rpm/servlet/DocumentTransfer";

// create a HttpRequest object
HttpRequest myReq = (HttpRequest)WebRequest.
    Create(adresse);

// initialize request
// method POST for upload
myReq.Method = "POST";

myReq.AllowWriteStreamBuffering = true;

// add information in the headers
// must contain mandatory information on the server part
// plus information about the file
myReq.Headers.Add("ACTION", uploadAction);
myReq.Headers.Add("DOCUMENT_ID", doc.ID);
myReq.Headers.Add("CONTEXT_NAME", contextName);
myReq.Headers.Add("SESSION_ID", sessionid);
myReq.Headers.Add("FILE", filePath);
myReq.Headers.Add("CONTENT_LENGTH",
    ((long)f.Length).ToString());

// assign the file length to the request content length
myReq.ContentLength = f.Length;

// create a buffered stream object
BufferedStream bos = null;

// verifies if file is empty or oversized
if (f.Length > 0 && f.Length < MAX_SIZE)

```

```

{
    // get request stream in which we will transfer data
    bos = new BufferedStream(myReq.GetRequestStream());

    // create a file stream with the file to upload
    FileStream fis = new FileStream(filePath,
        System.IO.FileMode.Open,
        System.IO.FileAccess.Read);

    // create a byte array with size
    // equal to chunk size we wish to send
    byte [] data = new byte[BUFFER_SIZE];
    int total = 0;
    int count;

    // loop for each chunk of data while file is not over
    while ((count = fis.Read(data, 0, BUFFER_SIZE)) != 0)
    {
        // write data into request stream
        bos.Write(data, 0, count);
        total += count;
    }

    // clean all streams
    bos.Flush();
    bos.Close();
    fis.Close();
}

// get response for request
HttpWebResponse myResp =
    (HttpWebResponse)myReq.GetResponse();

// if request executes normally status is OK
if (myResp.StatusCode != System.Net.HttpStatusCode.OK)
{
    System.Console.Out.WriteLine("Upload failed");
}

// clean response and request
// not closing the HttpWebResponse object
// might cause time-out errors in the future
myResp.Close();
myResp = null;
myReq = null;

// assign the docFolder to the pool
// pool does not have a documentElements
// yet cause it is not implemented
pool.documentFolder.documentElements =
    new DocumentElement[] {doc};

// save the pool in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary because we save
// the pool with the document
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid,
    pool, pScope, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

/*
 * Download a file
 */

```

```

// download the document just saved
doc = (Document)APISetup.application.
    loadFromXpath(sessionid,
        "/Document[name='" + docName + "']",
        null).rpmObjectList[0];

// create request URL with parameters
String getURL = adresse + "?ACTION=" + dwnldAction
    + "&DOCUMENT_ID=" + doc.ID + "&CONTEXT_NAME="
    + contextName + "&SESSION_ID=" + sessionid;

// create HttpRequest object
myReq = (HttpRequest)HttpRequest.Create(getURL);

// method for request is GET since we download a file
myReq.Method = "GET";
// allow stream buffering = true
// we will use streams to transfert data
myReq.AllowWriteStreamBuffering = true;

// get response to web request
myResp = (HttpWebResponse)myReq.GetResponse();

// get response stream, data downloaded
Stream stream = myResp.GetResponseStream();

// get headers from request
WebHeaderCollection headers = myResp.Headers;

// get content disposition from headers
String contentDisposition = myResp.
    GetResponseHeader("Content-Disposition");

// get content type from response
String contentType = myResp.ContentType;

// get encoding from response
String contentEnc = myResp.ContentEncoding;

// get data length from response
long contentLen = myResp.ContentLength;

if (contentLen > 0)
{
    // get file name
    String delimiter = "filename=\"";
    int start = delimiter.Length +
        contentDisposition.IndexOf(delimiter);
    int end = contentDisposition.LastIndexOf('\\')
        - start;
    String filename = contentDisposition.
        Substring(start, end);

    // create a buffered stream from the response stream
    BufferedStream bis = new BufferedStream(stream);

    // create a file stream in wich we will
    // write data from response stream
    FileStream fStream = new FileStream(filePathOut,
        System.IO.FileMode.OpenOrCreate);

    // create a buffered stream from file stream
    bos = new BufferedStream(fStream);

    // create a byte array with size equal
    // to chunk size we wish to send

```



```

byte[] data = new byte[BUFFER_SIZE];
int total = 0;
int count;

// loop for each chunk of data while file is not over
while ((count = bis.Read(data, 0, BUFFER_SIZE)) != 0)
{
    // write data into file stream
    bos.Write(data, 0, count);
    total += count;
}
// clean all streams
bos.Close();
bis.Close();
}
// clean response and request
// not closing the HttpResponseMessage object
// might cause time-out errors in the futur
myResp.Close();
myResp = null;
myReq = null;

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}
}

```

PoolFixture

```

using System; using csUnit; using TestFramework.ApplicationAPI; namespace
Tests.pool { /// <summary>
/// Shows use of [ExpectedException].
/// </summary>
[TestFixture]
public class PoolFixture : TestFramework.TestHelper
{

    public Pool createFixture()
    {
        Pool pool = new Pool();
        pool.name = "DotNetFixture";
        PoolScope scope = new PoolScope();

        return (Pool) save(pool, scope);
    }

    public Pool savePool(Pool pool, PoolScope scope)
    {
        return (Pool) save(pool, scope);
    }

    public Pool loadPoolFromXPath(String type, String name,
    PoolScope scope)
    {
        return (Pool)loadFromXPath(type, name, scope)[0];
    }

}
}

```

PoolRef

```
using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.pool { /// <summary>
/// Summary description for PoolRef.
///
/// This sample creates a reference and assigns it
/// to an existing pool.
/// </summary>
public class PoolRef
{
    public PoolRef()
    {

    }

    //All these variables are used in this sample
    public static String poolName = "IBMPPOOL_123";
    public static String orgName = "IBMORGANIZATION";
    public static String orgAdr= "ADR_123";
    public static String conName = "IBMCONTACT";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace the
    //User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.Setup();

        // Declare the pool wich we are going to use
        Pool pool = null;

        // create a poolscope to keep
        // track of the relation between
        // the pool and its attribute
        PoolScope pScope = new PoolScope();

        // create a pool reference scope
        PoolReferenceScope prScope = new PoolReferenceScope();

        // adjust the pool reference scope
        // to imply the company size
        prScope.companySize = true;

        // assign the scope to link with its attribute
        pScope.poolReferences = prScope;

        // declare a save result object
        SaveResult pSave = null;

        // retrieve the pool in RPM using XPath.
        pool = (Pool)APISetup.application.loadFromXpath(sessionid,
            "/Pool[name='" + poolName + "']",
            pScope).rpmObjectList[0];

        // create a pool reference
        PoolReference pRef = new PoolReference();

        // assign the pool as the parent of the reference
        pRef.parent = pool;
    }
}
```

```

// initialize the reference
pRef.organizationName = orgName;
pRef.organizationAddress = orgAdr;
pRef.companySize = (CompanySize)APISetup.application.
    loadFromXpath(sessionid, "/CompanySize",
        null).rpmObjectList[0];
pRef.contactName = conName;

// assign the reference to the pool
pool.poolReferences = new PoolReference[] {pRef};

// save the pool in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary to keep the reference
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid,
    pool, pScope, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// end the communication with the api.
APISetup.CleanUp(sessionid);
}
}
}

```

PoolRes

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.pool { /// <summary>
/// Summary description for PoolRes.
///
/// this sample loads a pool from the RPM repository.
/// It creates a Resource and assigns it to the pool.
/// It loads a security role and assigns it to the pool.
/// </summary>
public class PoolRes
{
    public PoolRes()
    {

    }

    //All these variables are used in this sample
    public static String poolName = "IBMPPOOL_123";
    public static String resName = "IBMRESOURCE";
    public static String roleName = "Pool Participant";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

    }

    // start the communication with the api
    sessionid = APISetup.SetUp();
}

```

```

// Declare the pool wich we are going to use
Pool pool = null;

// create a poolscope to keep track of the relation
// between the pool and its resource
PoolScope pScope = new PoolScope();

// create new resource
Resource res = new Resource();

// assign the scope to link with its resource
pScope.resourceAssignments = true;

// declare a save result object
SaveResult pSave = null;

// retrieve the pool in RPM using XPath.
pool = (Pool)APISetup.application.
    loadFromXpath(sessionid,
        "/Pool[name='" + poolName + "']",
        pScope).rpmObjectList[0];

// create resource role assignement
ResourceRoleAssignment rrAssign =
    new ResourceRoleAssignment();

// initialize resource
res.fullName = resName;
res.parent = pool;

// save the new resource
// use a reload type that enables you to
// use youre saved data
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid,
    res, null, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// load the new resource to use it
res = (Resource)APISetup.application.
    loadFromXpath(sessionid,
        "/Resource[fullName='" + resName + "']",
        null).rpmObjectList[0];

// create a new security role
SecurityRole sRole = new SecurityRole();

// assign a security role from RPM repository
sRole = (SecurityRole)APISetup.application.
    loadFromXpath(sessionid,
        "/SecurityRole[name='" + roleName + "']",
        null).rpmObjectList[0];

// initialize the resource role assignement
rrAssign.resource = res;
rrAssign.securityRole = sRole;
rrAssign.parent = pool;

// assign the resource role assignement to the pool
pool.resourceAssignments =
    new ResourceRoleAssignment[] {rrAssign};

// save the pool in the RPM repository
// use the sessionid acquired in the setUp

```

```

// a scope is necessary because
// we keep the resource assignement
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid,
    pool, pScope, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}
}

```

PoolSample

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.pool { /// <summary>
/// Summary description for PoolSample.
///
/// this sample tries to query a pool
/// if the pool dosen't exist, it creates it
/// </summary>
public class PoolSample
{
    public PoolSample()
    {

    }

    //All these variables are used in this sample
    public static String poolName = "IBMPPOOL_123";
    public static String poolDesc = "ABCDEF123";
    public static String poolAdr = "IBMADRESSE";
    public static String poolCont = "IBMCONTACT";
    public static String poolFax = "IBMFAQ";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

    }

    // start the communication with the api
    sessionid = APISetup.SetUp();

    // Declare the pool wich we are going to use
    Pool pool = null;

    // create a poolscope to keep track of the relation
    // between the pool and its attribute
    PoolScope pScope = new PoolScope();

    // declare a save result object
    SaveResult pSave = null;

    // Find the pool in RPM using XPath.
    // If pool doesn't exist, create it using a new pool.

```

```

// Fill the name.
LoadResult load = APISetup.application.
    loadFromXpath(sessionid,
        "/Pool[name='" + poolName + "']",pScope);

// This if logic verifies the result of the xpath query
// rpmObjectList contains resources returned
if( load.rpmObjectList == null ||
    load.rpmObjectList.Length == 0 )
{

    // create a new pool
    pool = new Pool();

    // initialize the pool
    pool.name = poolName;
    pool.description = poolDesc;

    // save the pool in the RPM repository
    // use the sessionid acquired in the setUp
    // a scope is not necessary because only the
    // resource is being saved
    // use a reloadType that allows you to continue
    // working with the pool
    pSave = new SaveResult();
    pSave = APISetup.application.save(sessionid, pool,
        pScope, ReloadType.SavedResult );

    // method showing the detail of any error in the save
    APISetup.checkForErrors( pSave );

    // reload the pool
    pool = (Pool)APISetup.application.
        loadFromXpath(sessionid,
            "/Pool[name='" + poolName + "']",
            pScope).rpmObjectList[0];

}
else
{
    // update existing pool
    // in this case the pool already exists
    pool = (Pool)load.rpmObjectList[0];
}

// update the pool with new data
pool.address = poolAdr;
pool.contactName = poolCont;
pool.fax = poolFax;

// save the pool in the RPM repository
// use the sessionid acquired in the setUp
// a scope is not necessary because only the
// resource is being saved
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid,
    pool, pScope, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

// end the communication with the api.
APISetup.CleanUp(sessionid);

```

```

    }
  }
}

```

ResourceCalendar

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceCalendar.
///
/// This sample creates a calendar and then
/// assigns it to a resource taken in the
/// RPM repository.
/// </summary>
public class ResourceCalendar
{
    public ResourceCalendar()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static String calendarName = "Work";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.Setup();

        // Declare the resource wich we are going to use
        Resource res = null;

        // create a resourceScope to keep track of the relation
        // between the resource and the calendar
        ResourceScope rScope = new ResourceScope();

        // adjust the resource scope to keep
        // the relation with calendar
        rScope.calendar = new CalendarScope();

        // create a calendar
        RPMCalendar calendar = new RPMCalendar();

        // Find the resource in RPM using XPath.
        // take resource in RPM repository by its
        // fullname or externalid
        res = (Resource)APISetup.application.
            loadFromXpath(sessionid,
                "/Resource[fullname='" + resourceName + "']",
                null ).rpmObjectList[0];

        // initialise the calendar with default values
        calendar.name = calendarName;
        calendar.startDate =
            new DateTime(2006, 10, 10, 10, 10, 10 );

        // save the calendar in the RPM repository
    }
}

```

```

SaveResult save = APISetup.application.
    save(sessionid, calendar, null,
        ReloadType.SavedResult );
APISetup.checkForErrors( save );

// load the calendar to work with the saved object
calendar = (RPMCalendar)APISetup.application.
    loadFromXpath(sessionid,
        "/RPMCalendar[name='" + calendarName + "']",
        null ).rpmObjectList[0];

// assign the calendar to the ressource
res.calendar = calendar;

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use the resource scope
save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}
}
}

```

ResourceCCC

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
    /// Summary description for ResourceCCC.
    ///
    /// this sample creates an instance of a client cost center,
    /// queries it and then assigns it to a resource in
    /// the RPM epository
    /// </summary>
    public class ResourceCCC
    {
        public ResourceCCC()
        {

        }

        //All these variables are used in this sample
        public static String resourceName = "IBM_testABCDEF";
        public static String cccName = "IBMCLIENTCOSTCENTER";
        public static String cccDesc = "ABCDEF123";
        public static String folderName = "IBMFOLDER";
        public static String folderDesc = "ABCDEF123";

        //Session ID is use for all transaction and is get from the
        //Authenticate.login function. The session ID will replace
        // the User password while transacting
        public static String sessionid = "";

        public void sampleTest()
        {

        }

        // start the communication with the api
        sessionid = APISetup.SetUp();
    }
}

```



```

// Declare the resource wich we are going to use
Resource res = null;

// create a resourceScope to keep track of the relation
// between the resource and the client cost center
ResourceScope rScope = new ResourceScope();

// assign the scope so it keeps the link
// with the client cost center
rScope.resourceCostCenterAssignments = true;

// create a client cost center
ClientCostCenter ccc = new ClientCostCenter();

// Find the resource in RPM using XPath.
// take resource in RPM repository by its
// fullname or externalid
res = (Resource)APISetup.application.
    loadFromXPath(sessionid,
        "/Resource[fullname='" + resourceName + "']",
        rScope ).rpmObjectList[0];

// create a client folder and division (if needed)
// those are the parents of the client cost center
ClientFolder folder = new ClientFolder();
folder.name = folderName;
folder.description = folderDesc;

// initialise the client cost center with default values
ccc.description = cccDesc;
ccc.name = cccName;

// assign the folder as a parent
// of the client cost center
ccc.parent = folder;

// assign the client cost center to the folder
folder.clientCostCenters = new ClientCostCenter[] {ccc};

// create a client cost center scope
// and adjust it so it saves the client cost center
ClientCostCenterScope cScope =
    new ClientCostCenterScope();
cScope.clientCostCenters = new ClientCostCenterScope();

// save the folder and client
// cost center in the RPM repository
// use a reload type that enables
// you to use the saved data
SaveResult save = APISetup.application.save(sessionid,
    folder, cScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// load the client cost center to use it
ccc = (ClientCostCenter)APISetup.application.
    loadFromXPath(sessionid,
        "/ClientCostCenter[name='" + cccName + "']",
        cScope ).rpmObjectList[0];

// create a resource cost center assignment
ResourceCostCenterAssignment assign =
    new ResourceCostCenterAssignment();

// initialize the assignment with default values
assign.finishDate = new DateTime(2005,11,10,10,10,10,10);
assign.startDate = new DateTime(2005,10,10,10,10,10,10);

```

```

// assign the client cost center to the assignment
assign.clientCostCenter = ccc;

// assign the resource as a parent of the assignment
assign.parent = res;

// assign the client cost center
// assignment to the resource
res.resourceCostCenterAssignments =
    new ResourceCostCenterAssignment[] {assign};

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use the resource scope
save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}

}

```

ResourceCField

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceCField.
///
/// this sample creates a custom field and assigns it
/// to a resource from the RPM repository. Then it
/// queries the custom fields and assigns them
/// a default value.
/// </summary>
public class ResourceCField
{
    public ResourceCField()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static String cFieldName = "IBMFIELD";
    public static String cfcName = "IBM_CATEGORY";
    public static FieldInputType[] fieldType =
        new FieldInputType[6] {FieldInputType.Checkbox
            ,FieldInputType.Currency
            ,FieldInputType.Datafield
            ,FieldInputType.Date
            ,FieldInputType.Numeric
            ,FieldInputType.Text };

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
    }
}

```

```

sessionid = APISetup.SetUp();

// Declare the resource wich we are going to use
Resource res = null;

// create a resourceScope to keep track of the relation
// between the resource and the custom field
ResourceScope rScope = new ResourceScope();
rScope.customFieldAssignments = true;

// create a save result object
SaveResult save = null;

// create custom field assignment
CustomFieldAssignment assign = null;

// create a custom field category
CustomFieldCategory cfCategory =
    new CustomFieldCategory();

// adjust the resource scope to keep the relation
// with the custom field
rScope.customFieldAssignments = true;

// Find the resource in RPM using XPath.
// take resource in RPM repository by its
// fullname or externalid
res = (Resource)APISetup.application.
    loadFromXPath(sessionid,
        "/Resource[fullname='" + resourceName + "']",
        rScope ).rpmObjectList[0];

// load a custom field category from RPM repository
cfCategory =
    (CustomFieldCategory)APISetup.application.
        loadFromXPath(sessionid,
            "/ResourceModule/customfieldcategory" +
            "[name='" + cfcName + "']",
            null ).rpmObjectList[0];

CustomFieldAssignment [] fieldAssignements =
    new CustomFieldAssignment[6];

for (int i = 0 ; i < 6 ; i ++)
{

    // create a custom field
    CustomField cField = new CustomField();

    // assign the custom field category
    // to the custom field as a parent
    cField.parent = cfCategory;

    // initialise the custom field with default values
    cField.name = cFieldName + i;

    // save the custom field with a
    // desired FieldInputType
    cField = saveCustomField(cField, fieldType[i]);

    // create a new custom field assignment
    assign = new CustomFieldAssignment();

    // initialize custom field assignement
    // assign the field to the assignment
    assign.customField = cField;
    assign.parent = res;
}

```

```

        fieldAssignments[i] = assign;
    }

    // assign custom field to the resource
    res.customFieldAssignments = fieldAssignments;

    // save the resource in the RPM repository
    // use the sessionid acquired in the setUp
    // use the resource scope
    try
    {
        save = new SaveResult();
        save = APISetup.application.save(sessionid,
            res, rScope, ReloadType.SavedResult );
    }
    catch (Exception e)
    {
        System.Console.Out.WriteLine(e.Message);
    }
    APISetup.checkForErrors( save );

    // create a scope that enables us to load
    // the category with the fields just created
    CustomFieldScope cfScope = new CustomFieldScope();
    cfScope.children = new CustomFieldScope();

    cfCategory =
        (CustomFieldCategory)APISetup.application.
        loadFromXpath(sessionid,
            "/ResourceModule/customfieldcategory" +
            "[name='" + cfcName + "']",
            cfScope ).rpmObjectList[0];

    for (int i = 0 ; i < 6 ; i ++)
    {
        int k = 0;
        while (cfCategory.children[k].name
            != cFieldName + i)
        {k++;}

        switch (cfCategory.children[k].inputType)
        {
            case FieldInputType.Text :
                cfCategory.children[k].defaultValue
                    = "DEFAULT_CUSTOM_VALUE";
                break;
            case FieldInputType.Numeric :
                cfCategory.children[k].defaultValue
                    = 1;
                break;
            case FieldInputType.Date :
                cfCategory.children[k].defaultValue
                    = new DateTime(2005, 10, 10, 10, 10, 10);
                break;
            case FieldInputType.Datafield :
                Experience exp = (Experience)APISetup.
                    application.loadFromXpath(sessionid,
                        "/Experience[value='1 year +']", null).
                        rpmObjectList[0];
                cfCategory.children[k].defaultValue
                    = exp;
                break;
            case FieldInputType.Currency :
                Currency currency =
                    (Currency)APISetup.application.
                    loadFromXpath(sessionid,

```

```

        "/Currency[name='Canadian dollars']",
        null ).rpmObjectList[0];
        cfCategory.children[k].defaultValue
        = currency;
        break;
    case FieldInputType.Checkbox :
        cfCategory.children[k].defaultValue
        = false;
        break;
    }
}

// save the category containing the custom
// field's new values
// use a scope to save its childrens
// reloadtype can be none because we
// don't reload object afterward
save = new SaveResult();
save = APISetup.application.save(sessionid,
    cfCategory, cfScope, ReloadType.None);
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

/**
 * saveCustomField
 *
 * this functions saves a custom field into the
 * RPM repository with the desired FieldInputType.
 */
public CustomField saveCustomField(CustomField field,
    FieldInputType type)
{

    // create a scope to save your custom field
    CustomFieldScope cfScope = new CustomFieldScope();

    field.inputType = type;

    // save the custom field in the RPM repository
    SaveResult save = APISetup.application.save(sessionid,
        field, cfScope, ReloadType.ReloadResult);
    APISetup.checkForErrors( save );

    // load custom field to assign it
    field = (CustomField)save
        .rpmObject;

    return field;

}

}
}

```

ResourceContactGroup

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
    /// Summary description for ResourceContactGroup.
    ///
    /// this sample creates a contact group and assigns it

```

```

/// to a resource taken in the RPM repository.
/// </summary>
public class ResourceContactGroup
{
    public ResourceContactGroup()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static String cGroupName = "IBMGRÖUP_ABCDEF";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.SetUp();

        // Declare the resource wich we are going to use
        Resource res = null;

        // create a resourceScope to keep track of the relation
        // between the resource and the contact group
        ResourceScope rScope = new ResourceScope();

        // adjust the resopurce scope to keep the relation
        // with the contact group
        rScope.contactGroupAssignments = true;

        // create a contact group
        ContactGroup cGroup = new ContactGroup();

        // Find the resource in RPM using XPath.
        // take resource in RPM repository by its fullname
        // or externalid
        res = (Resource)APISetup.application.
            loadFromXpath(sessionid,
                "/Resource[fullname='" + resourceName + "']",
                rScope ).rpmObjectList[0];

        // initialise the contact group with default values
        cGroup.name = cGroupName;

        // create a scope contact group
        ContactGroupScope cgScope = new ContactGroupScope();

        // first save contact group to RPM repository
        SaveResult save = APISetup.application.save(sessionid,
            cGroup, cgScope, ReloadType.SavedResult );
        APISetup.checkForErrors( save );

        cGroup = (ContactGroup)APISetup.application.
            loadFromXpath(sessionid,
                "/Contactgroup[name='" + cGroupName + "']",
                cgScope ).rpmObjectList[0];

        // initialise the contact group assignment
        // put your contact group as one of the groups assigned
        res.contactGroupAssignments[0].groups = cGroup;
    }
}

```

```

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use the resource scope
save = APISetup.application.save(sessionid, res,
    rScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}

}

```

ResourceCurrency

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceCurrency.
///
/// this sample creates a currency and exchange range
/// and then assigns the currency to a resource
/// </summary>
public class ResourceCurrency
{
    // Constructor
    public ResourceCurrency(){}

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static String currencyName = "IBM_CURRENCYABCDEF";
    public static double rate = 50.00;

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {
        // start the communication with the api
        sessionid = APISetup.SetUp();

        // Declare the resource wich we are going to use
        Resource res = null;

        // create a resourceScope to keep track of the relation
        // between the resource and the currency and rates
        ResourceScope rScope = new ResourceScope();

        // adjust the resource scope to keep the
        // relations with currency
        rScope.currency = true;

        // create a currency
        Currency currency = new Currency();

        // create a currency scope
        CurrencyScope cScope = new CurrencyScope();

        // adjust the currency scope to save exchange ranges
        cScope.currencyExchangeRanges = true;

        // Find the resource in RPM using XPath.
    }
}

```

```

// Use the fullName to find the resource
res = (Resource)APISetup.application.
    loadFromXpath(sessionid,
        "/Resource[fullname='" + resourceName + "'",
        rScope ).rpmObjectList[0];

// initialise the currency
currency.name = currencyName;

// create an exchange range
CurrencyExchangeRange exRange =
    new CurrencyExchangeRange();

// initialize the exchange range
exRange.exchangeRate = rate;
exRange.finishDate = new DateTime(2006, 11,10,10,10,10);
exRange.startDate = new DateTime(2006, 10,10,10,10,10);
exRange.parent = currency;

// assign the exchange range to the currency
currency.exchangeRanges =
    new CurrencyExchangeRange[] {exRange};

// save the currency into the RPM repository
SaveResult save = APISetup.application.save(sessionid,
    currency, cScope, ReloadType.ReloadResult );
APISetup.checkForErrors( save );

// it is necessary to save the currency
// and then assign it to a resource
// load the currency
currency = (Currency)APISetup.application.
    loadFromXpath(sessionid,
        "/Currency[name='" + currencyName + "'",
        cScope ).rpmObjectList[0];

// assign the currency and exchange rate to the resource
res.currency = currency;

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use the resource scope
save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.ReloadResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}

}

```

ResourceCustomField

```

using System; using TestFramework; using TestFramework.ApplicationAPI;
namespace
Tests.resource { /// <summary>
/// Summary description for ResourceCustomField.
/// </summary>
public class ResourceCustomField : TestHelper
{
    public ResourceCustomField()
    {
        //

```



```

// TODO: Add constructor logic here
//
}

public void x()
{
{
ResourceScope scope = new ResourceScope();
scope.customFieldAssignments =true;
TestFramework.ApplicationAPI.Resource test =
(TestFramework.ApplicationAPI.Resource) service.loadFromXpath(
sessionid, "/Resource[username='salmasri']", scope).rpmObjectList[0];

test.discontinueDate = new DateTime(3000, 1, 1 );

bool found = false;
CustomFieldAssignment[] customFieldAssignments = test
.customFieldAssignments;
for (int i = 0; i < customFieldAssignments.Length; i++)
{
CustomFieldAssignment assignment = customFieldAssignments[i];
if (assignment.customField.name.Equals("srini"))
{
assignment.value= "ABC";
found = true;
break;
}
}

if ( ! found )
{
throw new Exception("Custom field not found");
}

SaveResult result = service.save
(sessionid, test, scope, ReloadType.None);
if ( result.exceptions != null && result.exceptions.Length != 0 )
{
throw new Exception("Save Failed");
}
}

{

ResourceScope scope = new ResourceScope();
scope.customFieldAssignments =true;
TestFramework.ApplicationAPI.Resource test =
(TestFramework.ApplicationAPI.Resource) service.loadFromXpath(
sessionid, "/Resource[username='salmasri']", scope).rpmObjectList[0];

bool found = false;
CustomFieldAssignment[] customFieldAssignments = test
.customFieldAssignments;
for (int i = 0; i < customFieldAssignments.Length; i++)
{
CustomFieldAssignment assignment = customFieldAssignments[i];
if (assignment.customField.name.Equals("srini"))
{
if(!assignment.value.Equals( "ABC" ) )
{
throw new Exception("Custom field assignment failed");
}
found = true;
break;
}
}
}
}

```

```

        if ( ! found )
        {
            throw new Exception("Custom field not found");
        }
    }

    }

    public void run()
    {
        SetUp();

        x();

        CleanUp();
    }
}

}

```

ResourceDoc

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; using System.Net; using System.IO; using System.Web;
using System.Web.Services.Protocols; namespace Tests.resource { /// <summary>
/// Summary description for ResourceDoc.
///
/// This sample loads a resource from the RPM
/// repository then it creates a document and assigns
/// it to the resource. It uploads an attachment to the
/// document and then downloads it.
/// </summary>
public class ResourceDoc
{
    public ResourceDoc(){}

    //All these variables are used in this sample
    public static String resourceName = "IBM_RESOURCE_ABC";
    public static String contextName = "Resource";
    public static String docName = "Org";
    public static String uploadAction = "UPLOADZIPPED";
    public static String dwnldAction = "DOWNLOADZIPPED";

    public static String filePath = "C:\\Documents and Settings\\username\\
My Documents\\RPM Initial Hypothesis v3.zip";
    public static String filePathOut = "C:\\Documents and Settings\\username\\
My Documents\\bucket\\RPM Initial Hypothesis v3.zip";
    private static int BUFFER_SIZE = 2048;
    private static int MAX_SIZE = 2147483647;

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace the
    //User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.SetUp();

        // Declare the resource wich we are going to use
        Resource res = null;
    }
}

```

```

// declare a save result object
SaveResult pSave = null;

// create a resourceScope to keep track of the relation between
// the resource and the documents
ResourceScope rScope = new ResourceScope();
rScope.documentFolder = new DocumentScope();

// Find the resource in RPM using XPath.
res = (Resource)APISetup.application.loadFromXPath(
    sessionid, "/Resource[fullname='" + resourceName + "']", rScope )
    .rpmObjectList[0];

// create a new document
Document wNewDoc = new Document();

// initialize the document
wNewDoc.name = docName;

// assign the resource to the document as the parent
wNewDoc.parent = res.documentFolder;

// save the document into RPM repository
// a scope isn't necessary
// use a reload type that enables you to work
// with the document object afterward
pSave = new SaveResult();
pSave = APISetup.application.save
(sessionid, wNewDoc, null, ReloadType.ReloadResult);
APISetup.checkForErrors( pSave );

// use the SaveResult object to load the document just saved
wNewDoc = (Document)pSave.rpmObject;

/*
 * Upload a file
 */

// create a fileStream and initialize it with
// the file we wish to upload
FileStream f = new FileStream
(filePath, System.IO.FileMode.Open, System.IO.FileAccess.Read,
System.IO.FileShare.Read);

// address to which we will upload the file
String adresse = "http://localhost:8080/rpm/servlet/DocumentTransfer";

// create a HttpRequest object
HttpRequest myReq = (HttpRequest)WebRequest.Create(adresse);

// initialize request
// method POST for upload
myReq.Method = "POST";
// allow stream buffering = true
// we will use streams to transfer data
myReq.AllowWriteStreamBuffering = true;

// add information in the headers
// must contain mandatory information on the server part
// plus information about the file
myReq.Headers.Add("ACTION", uploadAction);
myReq.Headers.Add("DOCUMENT_ID", wNewDoc.ID);
myReq.Headers.Add("CONTEXT_NAME", contextName);
myReq.Headers.Add("SESSION_ID", sessionid);
myReq.Headers.Add("FILE", filePath);

```

```

myReq.Headers.Add("CONTENT_LENGTH", ((long)f.Length).ToString());

// assign the file length to the request content length
myReq.ContentLength = f.Length;

// create a buffered stream object
BufferedStream bos = null;

// verifies if file is empty or oversized
if (f.Length > 0 && f.Length < MAX_SIZE)
{
    // get request stream in wich we will transfer data
    bos = new BufferedStream(myReq.GetRequestStream());

    // create a file stream with the file to upload
    FileStream fis = new FileStream
    (filePath, System.IO.FileMode.Open, System.IO.FileAccess.Read);

    // create a byte array with size equal to chunk size we wish to send
    byte [] data = new byte[BUFFER_SIZE];
    int total = 0;
    int count;

    // loop for each chunk of data while file is not over
    while ((count = fis.Read(data, 0, BUFFER_SIZE)) != 0)
    {
        // write data into request stream
        bos.Write(data, 0, count);
        total += count;
    }

    // clean all streams
    bos.Flush();
    bos.Close();
    fis.Close();
}

// get response for request
HttpWebResponse myResp = (HttpWebResponse)myReq.GetResponse();

// if request executes normally status is OK
if (myResp.StatusCode != System.Net.HttpStatusCode.OK)
{
    System.Console.Out.WriteLine("Upload failed");
}

// clean response and request
// not closing the HttpWebResponse object might cause
time-out errors in the futur
myResp.Close();
myResp = null;
myReq = null;

// assign the new document in the resource
res.documentFolder.documentElements = new DocumentElement[]
{wNewDoc};

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary because we save the link with document
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid, res, rScope,
ReloadType.ReloadResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

```

```

/*
 * Download a file
 */

// download the document just saved
wNewDoc = (Document)APISetup.application.loadFromXpath
(sessionid, "/Document[name='" + docName + "'", null).rpmObjectList[0];

// create request URL with parameters
String getURL = adresse + "?ACTION=" + dwnldAction
+ "&DOCUMENT_ID=" + wNewDoc.ID + "&CONTEXT_NAME="
+ contextName + "&SESSION_ID=" + sessionid;

// create HttpRequest object
myReq = (HttpRequest)WebRequest.Create(getURL);

// method for request is GET since we download a file
myReq.Method = "GET";
// allow stream buffering = true
// we will use streams to transfert data
myReq.AllowWriteStreamBuffering = true;

// get response to web request
myResp = (HttpWebResponse)myReq.GetResponse();

// get response stream, data downloaded
Stream stream = myResp.GetResponseStream();

// get headers from request
WebHeaderCollection headers = myResp.Headers;

// get content disposition from headers
String contentDisposition = myResp.GetResponseHeader
("Content-Disposition");

// get content type from response
String contentType = myResp.ContentType;

// get encoding from response
String contentEnc = myResp.ContentEncoding;

// get data length from response
long contentLen = myResp.ContentLength;

if (contentLen > 0)
{
    // get file name
    String delimiter = "filename=";
    int start = delimiter.Length + contentDisposition.IndexOf(delimiter);
    int end = contentDisposition.LastIndexOf('\\') - start;
    String filename = contentDisposition.Substring(start, end);

    // create a buffered stream from the response stream
    BufferedStream bis = new BufferedStream(stream);

    // create a file stream in wich we will write data
    from response stream
    FileStream fStream = new FileStream
    (filePathOut, System.IO.FileMode.OpenOrCreate);

    // create a buffered stream from file stream
    bos = new BufferedStream(fStream);

    // create a byte array with size equal to chunk
    size we wish to send
    byte[] data = new byte[BUFFER_SIZE];

```

```

        int total = 0;
        int count;

        // loop for each chunk of data while file is not over
        while ((count = bis.Read(data, 0, BUFFER_SIZE)) != 0)
        {
            // write data into file stream
            bos.Write(data, 0, count);
            total += count;
        }
        // clean all streams
        bos.Close();
        bis.Close();
    }
    // clean response and request
    // not closing the HttpResponseMessage object might cause
    time-out errors in the futur
    myResp.Close();
    myResp = null;
    myReq = null;

    // end the communication with the api.
    APISetup.CleanUp(sessionid);

}
}
}

```

ResourceFixture

```

using System; using csUnit; using TestFramework.ApplicationAPI; namespace
Tests.resource { /// <summary>
/// Shows use of [ExpectedException].
/// </summary>
[TestFixture]
public class ResourceFixture : TestFramework.TestHelper
{
    public Resource createFixture()
    {
        Resource resource = new Resource();
        resource.fullName = "DotNetFixture";
        ResourceScope scope = new ResourceScope();
        return (Resource) save(resource , scope);
    }
}
}

```

ResourceGeo

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceGeo.
///
/// this exemple creates a geographical,
/// loads it and then assigns it to a resource
/// in RPM repository
/// </summary>
public class ResourceGeo
{
    public ResourceGeo()
    {

    }
}
}

```

```

//All these variables are used in this sample
public static String resourceName = "IBM_testABCDEF";
public static String regionName = "IBMREGION";
public static String regionDesc = "ABCDEF123";
public static String countryName = "IBMCOUNTRY";
public static String countryDesc = "ABCDEF123";
public static String stateName = "IBMSTATE";
public static String cityName = "IBMCITY";
public static String cityDesc = "ABCDEF123";
public static String locationName = "IBMLOCATION";
public static String locationDesc = "ABCDEF123";

//Session ID is use for all transaction and is get from the
//Authenticate.login function. The session ID will replace
// the User password while transacting
public static String sessionid = "";

public void sampleTest()
{

    // start the communication with the api
    sessionid = APISetup.SetUp();

    // Declare the resource wich we are going to use
    Resource res = null;

    // create a resourceScope to keep track of the relation
    // between the resource and the geographical
    ResourceScope rScope = new ResourceScope();

    // create a geographical scope to link every geographical
    // element you create
    GeographicalScope geoScope = new GeographicalScope();

    // create geographical elements you need
    Region region = new Region();
    CountryState state = new CountryState();
    Country country = new Country();
    City city = new City();
    Location location = new Location();

    // initialise each element
    // adjust geographical scope so that every link is kept
    region.name = regionName;
    region.description = regionDesc;
    geoScope.regions = new GeographicalScope();

    country.name = countryName;
    country.description = countryDesc;
    region.countries = new Country[] {country};
    geoScope.countries = new GeographicalScope();

    state.name = stateName;
    country.states = new CountryState[] {state};
    geoScope.countries.states = new GeographicalScope();

    city.name = cityName;
    city.description = cityDesc;
    state.cities = new City[] {city};
    geoScope.countries.states.cities =
        new GeographicalScope();

    location.name = locationName;
    location.description = locationDesc;
    city.locations = new Location[] {location};
    geoScope.countries.states.cities.locations =

```

```

        new GeographicalScope();

        // when creation is done
        // save the geographical in the RPM repository
        // with the scope
        SaveResult save = APISetup.application.save(sessionid,
            region, geoScope, ReloadType.SavedResult );
        APISetup.checkForErrors( save );

        region = (Region)APISetup.application.loadFromXpath(
            sessionid, "/Region[name = '" + regionName + "']",
            geoScope ).rpmObjectList[0];

        // adjust the resource scope so that it keeps the
        // relation with the geographical
        rScope.geographicalAssignment = true;

        // Find the resource in RPM using XPath.
        // take resource in RPM repository by its
        // fullname or externalid
        res = (Resource)APISetup.application.
            loadFromXpath(sessionid,
                "/Resource[fullname='" + resourceName + "']",
                rScope ).rpmObjectList[0];

        // assign the geographical assignment to the resource
        res.geographicalAssignment.geographical = region;

        // save the resource in the RPM repository
        // use the sessionid acquired in the setup
        // use the resource scope
        save = APISetup.application.save(sessionid, res, rScope,
            ReloadType.SavedResult );
        APISetup.checkForErrors( save );

        // end the communication with the api.
        APISetup.CleanUp(sessionid);
    }
}
}

```

ResourceIndusExp

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceIndusExp.
///
/// this sample creates an industry experience
/// and assigns it to an existing resource.
/// </summary>
public class ResourceIndusExp
{
    public ResourceIndusExp()
    {
    }

}

//All these variables are used in this sample
public static String resourceName = "IBM_testABCDEF";

//Session ID is use for all transaction and is get from the
//Authenticate.login function. The session ID will replace
// the User password while transacting

```



```

public static String sessionid = "";

public void sampleTest()
{

    // start the communication with the api
    sessionid = APISetup.SetUp();

    // Declare the resource wich we are going to use
    Resource res = null;

    // create a resourceScope to keep track of the relation
    // between the resource and the industry experience
    ResourceScope rScope = new ResourceScope();

    // adjust resource scope to keep relation
    rScope.industryExperiences = true;

    // create an industry experience
    IndustryExperience iExp = new IndustryExperience();

    // Find the resource in RPM using XPath.
    // take resource in RPM repository by its fullname or
    // externalid
    res = (Resource)APISetup.application.
        loadFromXpath(sessionid,
            "/Resource[fullname='" + resourceName + "']",
            rScope ).rpmObjectList[0];

    // initialise the industry experience with default values
    // assign a classification from RPM repository
    iExp.classification = (Classification)APISetup.
        application.loadFromXpath(sessionid,
            "/Classification", null ).rpmObjectList[0];

    // assign an industry type
    iExp.industry = (IndustryType)APISetup.application.
        loadFromXpath(sessionid, "/Industrytype", null ).
        rpmObjectList[0];

    // assign the resource to the industry
    // experience as the parent
    iExp.parent = res;

    // assign a proficiency level
    iExp.proficiency = (ProficiencyLevel)APISetup.
        application.loadFromXpath(sessionid,
            "/Proficiencylevel", null ).rpmObjectList[0];

    // assign the industry experience to the ressource
    res.industryExperiences =
        new IndustryExperience[] {iExp};

    // save the resource in the RPM repository
    // use the sessionid acquired in the setUp
    // use a resource scope to relate with
    // industry experiences
    SaveResult save = APISetup.application.save(sessionid,
        res, rScope, ReloadType.SavedResult );
    APISetup.checkForErrors( save );

    // end the communication with the api.
    APISetup.CleanUp(sessionid);
}

```

```

    }
}
}

```

ResourceLang

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceLang.
///
/// this samples creates a Language proficiency
/// and assigns it to a resource in RPM repository
/// </summary>
public class ResourceLang
{
    public ResourceLang()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.SetUp();

        // Declare the resource wich we are going to use
        Resource res = null;

        // create a resourceScope to keep track of the relation
        // between the resource and the language proficiency
        ResourceScope rScope = new ResourceScope();

        // adjust resource scope to keep relation
        rScope.languageProficiencies = true;

        // create a language proficiency
        LanguageProficiency lProf = new LanguageProficiency();

        // Find the resource in RPM using XPath.
        // take resource in RPM repository by its fullname
        // or externalid
        res = (Resource)APISetup.application.
            loadFromXpath(sessionid,
                "/Resource[fullname='" + resourceName + "']",
                rScope ).rpmObjectList[0];

        // initialise the Language proficiency with default
        // values assign a language from RPM repository
        lProf.language = (Language)APISetup.application.
            loadFromXpath(sessionid, "/Language", null ).
            rpmObjectList[0];

        // assign levels of qualification
        lProf.readLevel = 1;
        lProf.speakLevel = 1;
    }
}

```

```

lProf.writeLevel = 1;

// assign the resource to the language proficiency
// as the parent
lProf.parent = res;

// assign the language proficiency to the resource
res.languageProficiencies =
    new LanguageProficiency[] {lProf};

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use a resource scope to relate with
// language proficiency
SaveResult save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}

}

```

ResourceOrganization

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceOrganization.
///
/// this samples creates an organization
/// and assigns it to a resource in RPM repository
/// </summary>
public class ResourceOrganization
{
    public ResourceOrganization()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static String orgName = "IBMORGANIZATION";
    public static String orgDesc = "ABCDEF123";
    public static String groupName = "IBMGROUP";
    public static String groupDesc = "ABCDEF123";
    public static String depName = "IBMDEPARTMENT";
    public static String depDesc = "ABCDEF123";
    public static String officeName = "IBMOFFICE";
    public static String officeDesc = "ABCDEF123";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

    }

    // start the communication with the api
    sessionid = APISetup.SetUp();
}

```

```

// Declare the resource wich we are going to use
Resource res = null;

// create a resourceScope to keep track of the relation
// between the resource and the industry experience
ResourceScope rScope = new ResourceScope();

// adjust resource scope to keep relation
rScope.organizationalAssignment = true;

// create organisationals
Organization org = new Organization();
Group group = new Group();
Department dep = new Department();
Office office = new Office();

// create an organizational scope
OrganizationalScope oScope = new OrganizationalScope();

// initialise the organizationals with default values
// adjust the scope each time
org.name = orgName;
org.description = orgDesc;
oScope.organizations = new OrganizationalScope();

group.name = groupName;
group.description = groupDesc;
org.groups = new Group[] {group};
oScope.groups = new OrganizationalScope();

dep.name = depName;
dep.description = depDesc;
group.departments = new Department[] {dep};
oScope.groups.departments = new OrganizationalScope();

office.name = officeName;
office.description = officeDesc;
dep.offices = new Office[] {office};
oScope.groups.departments.offices =
    new OrganizationalScope();

// after this step
// Find the resource in RPM using XPath.
// take resource in RPM repository by
// its fullname or externalid
res = (Resource)APISetup.application.
    loadFromXPath(sessionid,
        "/Resource[fullname='" + resourceName + "'",
        rScope ).rpmObjectList[0];

// save the calendar in the RPM repository
SaveResult save = APISetup.application.save(sessionid,
    org, oScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// reload organizational to use with actual ID
org = (Organization)APISetup.application.loadFromXPath(
    sessionid, "/Organization[name='" + orgName + "'",
    oScope ).rpmObjectList[0];

// assign the organizational to the ressource
res.organizationalAssignment.organizational = org;

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use a scope
save = APISetup.application.save(sessionid, res,

```

```

        rScope, ReloadType.SavedResult );
        APISetup.checkForErrors( save );

        // end the communication with the api.
        APISetup.CleanUp(sessionid);

    }

}
}

```

ResourcePassport

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourcePassport.
///
/// this example assigns to a resource in the RPM
/// repository a passport and international readiness
/// </summary>
public class ResourcePassport
{
    public ResourcePassport()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.SetUp();

        // Declare the resource wich we are going to use
        Resource res = null;

        // create a resourceScope to keep track of the relation
        // between the resource and the passport
        ResourceScope rScope = new ResourceScope();

        // adjust resource scope to keep relation
        rScope.passport = true;

        // create a passport
        Passport passport = new Passport();

        // Find the resource in RPM using XPath.
        // take resource in RPM repository by its
        // fullname or externalid
        res = (Resource)APISetup.application.
            loadFromXpath(sessionid,
                "/Resource[fullname='" + resourceName + "']",
                rScope ).rpmObjectList[0];

        // initialise the passport with default values
        passport.isValidPassport = true;
    }
}

```

```

passport.expiryDate = new DateTime(2008, 10,10,10,10,10);

// assign the resource to the passport as a parent
passport.parent = res;

// add additional visas to international readiness
Visa visa = new Visa();
visa.country = (CitizenshipCountryCode)APISetup.
    application.loadFromXpath(sessionid,
        "/CitizenshipCountryCode[value='USA']",
        null ).rpmObjectList[0];
visa.expiryDate = new DateTime(2008, 10,10,10,10,10);
visa.parent = passport;
passport.visas = new Visa[] {visa};

// assign the passport to the ressource
res.passport = passport;

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use a resource scope to relate with passport
SaveResult save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}

}

```

ResourceRate

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceRate.
///
/// This sample create a resource rate and assigns
/// it to a resource in RPM repository
/// </summary>
public class ResourceRate
{
    public ResourceRate()
    {

    }

    //All these variables are used in this sample
    public static String resourceName = "IBM_testABCDEF";
    public static double rate = 50.00;
    public static double costph = 50.00;
    public static double sellingRateph = 60.00;
    public static double specialCostph = 75.00;
    public static double specialSellingRateph = 90.00;

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

```

```

// start the communication with the api
sessionid = APISetup.SetUp();

// create a resource object
Resource res = new Resource();

// create a resourceRate object
ResourceRates rates = new ResourceRates();

// create a resource Scope
// to keep resource rates linked with resource
ResourceScope rScope = new ResourceScope();
rScope.resourceRates = true;

// load resource from RPM repository
// use resource Scope
res = (Resource)APISetup.application.
    loadFromXpath(sessionid,
        "/Resource[fullname='" + resourceName + "']",
        rScope ).rpmObjectList[0];

// initialize the resource rate object
rates.regularCostPerHour = costph;
rates.sellingRatePerHour = sellingRateph;
rates.specialCostPerHour = specialCostph;
rates.specialSellingRatePerHour = specialSellingRateph;

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// use the resource scope
SaveResult save = APISetup.application.save(sessionid,
    res, rScope, ReloadType.None );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);
}
}
}

```

ResourceSample

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
/// Summary description for ResourceSample.
///
/// ResourceSample tries to Update a resource with a certain
/// external id in the database,
/// if the resource doesn't exist, it creates it.
/// </summary>
public class ResourceSample
{

//All these variables are used in this sample
public static String resourceExternalID = "testABCDEF";
public static String poolName = "POOL1_testA";
public static String resourceName = "IBM_testABCDEF";
public static String userid = "IBM_USER";
public static String passid = "IBM_PASS";

//Session ID is use for all transaction and is get from the
//Authenticate.login function. The session ID will replace
// the User password while transacting
public static String sessionid = "";

```

```

public ResourceSample()
{
}

public void sampleTest()
{

    // start the communication with the api
    sessionid = APISetup.SetUp();

    // Declare the resource wich we are going to use
    Resource resourceToUpdate = null;

    // create a resourceScope to keep track of the relation
    // between the resource and its attribute
    ResourceScope rScope = new ResourceScope();

    // Find the resource in RPM using XPath.
    // If resource doesn't exist, create it using a new
    // Resource. Fill the External ID.
    LoadResult load = APISetup.application.
        loadFromXpath(sessionid,
            "/Resource[externalid='" + resourceExternalID + "']"
            , null );

    // if logic verifies the result of the xpath query
    // rpmObjectList contains resources returned
    if( load.rpmObjectList == null ||
        load.rpmObjectList.Length == 0 )
    {

        // query the pool you want to add the resource to
        // with the name of the pool in it.
        // loadFromXpath method an array
        Pool pool = (Pool)APISetup.application.
            loadFromXpath(sessionid,
                "/Pool[name='" + poolName + "']",
                null).rpmObjectList[0];

        // create a new resource
        resourceToUpdate = new Resource();

        // add an external id to the resource
        resourceToUpdate.externalID = resourceExternalID;

        // add a name to the resource
        resourceToUpdate.fullName = resourceName;

        // add a pool to the resource
        // this pool represents the parent of
        // the resource and is necessary
        resourceToUpdate.parent = pool;

        // initialise the pool with default data
        resourceToUpdate.userName = userid;
        resourceToUpdate.password = passid;

        // save the resource in the RPM repository
        // use the sessionid acquired in the setUp
        // a scope is not necessary because only the
        // resource is being saved
        // use a reloadType that allows you to continue

```



```

// working with the resource
SaveResult rSave = new SaveResult();
rSave = APISetup.application.save(sessionid,
    resourceToUpdate, null, ReloadType.SavedResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( rSave );

// reload the resource
resourceToUpdate = (Resource)APISetup.application.
    loadFromXpath(sessionid,
        "/Resource[externalid='" + resourceExternalID +
        "']", null ).rpmObjectList[0];

}
else
{
    // update existing resource
    // in this case the resource already exists
    resourceToUpdate = (Resource)load.rpmObjectList[0];
}

// Fill the Resource information
resourceToUpdate.active = true;
resourceToUpdate.nickName = resourceName;
resourceToUpdate.weeklyMaxHours = 40;
resourceToUpdate.weeklyMinHours = 0;

// create a WorkLocation to initialise the
// resource employee information
WorkLocation work = (WorkLocation)APISetup.application.
    loadFromXpath(sessionid,
        "/WorkLocation[value='None']",
        null).rpmObjectList[0];
resourceToUpdate.workLocation = work;

// adjust resource scope to keep work location
rScope.workLocation = true;

// create an Experience to initialise
// the resource employee information
Experience exp = (Experience)APISetup.application.
    loadFromXpath(sessionid,
        "/Experience[value='1 year +']",
        null).rpmObjectList[0];
resourceToUpdate.experience = exp;

// adjust resource scope to keep experience
rScope.experience = true;

// create dateTime for the effectiveStartDate
// and the discontinueDate
resourceToUpdate.effectiveStartDate =
    new DateTime(2005, 10, 10, 10, 10, 10 );
resourceToUpdate.discontinueDate =
    new DateTime(2005, 11, 10, 10, 10, 10 );

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// a scope is not necessary because only the
// resource is being saved
SaveResult rSave2 = APISetup.application.save(sessionid,
    resourceToUpdate, rScope, ReloadType.SavedResult );
APISetup.checkForErrors( rSave2 );

```

```

        // end the communication with the api.
        APISetup.CleanUp(sessionid);
    }
}
}
}

```

ScorecardSample

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.ScoreCard { /// <summary>
/// Summary description for ScorecardSample.
///
/// this sample creates a scorecard with full structure
/// for Wbs, Scope and Asset
/// </summary>
public class ScorecardSample
{
    public ScorecardSample()
    {

    }

    // all these variables are used in this sample
    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String scfName = "IBM_SCORECARD_FOLDER";
    public static String scName = "IBM_SCORECARD";
    public static String sccName = "IBM_SCORECARD_CATEGORY";
    public static String scqName = "IBM_SCORECARD_QUESTION";
    public static String scrName = "IBM_SCORECARD_RESPONSE";
    // number of questions
    public static int nbrQ = 5;
    // number of responses per question
    public static int nbrR = 3;
    public static int iWeight = 1;

    // Session ID is use for all transaction and is get from the
    // Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.SetUp();

        // create every object needed to
        // create a complete scorecard
        ScorecardFolder scFolder = new ScorecardFolder();
        Scorecard sCard = new Scorecard();
        ScorecardCategory scCat = new ScorecardCategory();
        ScorecardQuestion scQuestion = null;
        ScorecardResponse scResponse = null;

        // initialize every object so they contain at least the
        // minimal information required to be saved

        // initialize scorecard folder
        // the parent is a WBSModule
        scFolder.name = scfName;

        // initialize the scorecard
        // there can be any number of
        // scorecard in a scorecard folder
    }
}

```

```

sCard.name = scName;
sCard.weight = iWeight;
sCard.probabilityType = ProbabilityType.None;
sCard.parent = scFolder;

// initialize the scorecard
scCat.name = scName;
scCat.parent = sCard;
scCat.weight = iWeight;

// create an array of scorecard questions
ScorecardQuestion[] questions =
    new ScorecardQuestion[nbrQ];

for (int i = 0 ; i < nbrQ ; i ++)
{
    // initialize a scorecard question
    scQuestion = new ScorecardQuestion();
    scQuestion.name = scqName + i;
    scQuestion.parent = scCat;
    scQuestion.weight = iWeight;

    // create an array of scorecard
    // responses for each question
    ScorecardResponse[] responses =
        new ScorecardResponse[nbrR];
    for (int j = 0 ; j < nbrR ; j ++)
    {
        // initialize the scorecard response
        scResponse = new ScorecardResponse();
        scResponse.name = scrName + j;
        scResponse.parent = scQuestion;
        scResponse.weight = iWeight;

        // scorecard question must have no more
        // than one scorecard response
        // set to default response
        if (j == 0)
        {scResponse.defaultResponse = true;}
        else
        {scResponse.defaultResponse = false;}

        responses[j] = scResponse;
    }

    // assign responses to question
    scQuestion.scorecardResponses = responses;

    questions[i] = scQuestion;
}

// assign scorecard questions to scorecard category
scCat.scorecardQuestions = questions;

// assign scorecard category to scorecard
sCard.scorecardCategories =
    new ScorecardCategory[] {scCat};

// assign scorecard to scorecard folder
scFolder.scorecards = new Scorecard[] {sCard};

saveWbsScorecardFolder(scFolder);
saveAssetScorecardFolder(scFolder);
saveScopeManagementScorecardFolder(scFolder);

}

```

```

private void saveWbsScorecardFolder(ScorecardFolder scFolder)
{
    // create a save result object
    SaveResult saver = null;

    // create a module to save the score card folder
    WbsModule module = new WbsModule();

    // assign the scorecard folder to the Module
    scFolder.parent = module;
    module.scorecardFolders =
        new ScorecardFolder[] {scFolder};

    // initialize the ModuleScope so that
    // it includes full structure
    // of the scorecard we wish to create
    WbsModuleScope mScope = new WbsModuleScope();
    mScope.scorecardFolders = new ScorecardFolderScope();
    mScope.scorecardFolders.scorecards =
        new ScorecardScope();
    mScope.scorecardFolders.scorecards.scorecardCategories =
        new ScorecardCategoryScope();
    mScope.scorecardFolders.scorecards.scorecardCategories.
        scorecardQuestions = new ScorecardQuestionScope();
    mScope.scorecardFolders.scorecards.scorecardCategories.
        scorecardQuestions.scorecardResponses =
        new ScorecardResponseScope();

    // save the scorecard folder by saving the module
    // a new scorecard folder cannot be saved on its own
    // use the ModuleScope to save every element
    // of the scorecard desired
    saver = new SaveResult();
    saver = APISetup.application.
        save(sessionid, module, mScope, ReloadType.None);
    APISetup.checkForErrors( saver );
}

private void saveAssetScorecardFolder(
    ScorecardFolder scFolder)
{
    // create a save result object
    SaveResult saver = null;

    // create a module to save the score card folder
    AssetModule module = new AssetModule();

    // assign the scorecard folder to the Module
    scFolder.parent = module;
    module.scorecardFolders =
        new ScorecardFolder[] {scFolder};

    // initialize the ModuleScope so that
    // it includes full structure
    // of the scorecard we wish to create
    AssetModuleScope mScope = new AssetModuleScope();
    mScope.scorecardFolders = new ScorecardFolderScope();
    mScope.scorecardFolders.scorecards =
        new ScorecardScope();
    mScope.scorecardFolders.scorecards.scorecardCategories =
        new ScorecardCategoryScope();
    mScope.scorecardFolders.scorecards.scorecardCategories.
        scorecardQuestions = new ScorecardQuestionScope();
}

```

```

mScope.scorecardFolders.scorecards.scorecardCategories.
    scorecardQuestions.scorecardResponses =
        new ScorecardResponseScope();

// save the scorecard folder by saving the module
// a new scorecard folder cannot be saved on its own
// use the ModuleScope to save every element
// of the scorecard desired
saver = new SaveResult();
saver = APISetup.application.
    save(sessionid, module, mScope, ReloadType.None);
APISetup.checkForErrors( saver );

}

private void saveScopeManagementScorecardFolder(
    ScorecardFolder scFolder)
{

    // create a save result object
    SaveResult saver = null;

    // create a module to save the score card folder
    ScopeManagementModule module = new ScopeManagementModule();

    // assign the scorecard folder to the Module
    scFolder.parent = module;
    module.scorecardFolders = new ScorecardFolder[] {scFolder};

    // initialize the ModuleScope so that
    // it includes full structure
    // of the scorecard we wish to create
    ScopeManagementModuleScope mScope =
        new ScopeManagementModuleScope();
    mScope.scorecardFolders = new ScorecardFolderScope();
    mScope.scorecardFolders.scorecards =
        new ScorecardScope();
    mScope.scorecardFolders.scorecards.scorecardCategories =
        new ScorecardCategoryScope();
    mScope.scorecardFolders.scorecards.scorecardCategories.
        scorecardQuestions = new ScorecardQuestionScope();
    mScope.scorecardFolders.scorecards.scorecardCategories.
        scorecardQuestions.scorecardResponses =
        new ScorecardResponseScope();

    // save the scorecard folder by saving the module
    // a new scorecard folder cannot be saved on its own
    // use the ModuleScope to save every
    // element of the scorecard desired
    saver = new SaveResult();
    saver = APISetup.application.
        save(sessionid, module, mScope, ReloadType.None);
    APISetup.checkForErrors( saver );

}

}
}

```

SkillCompRessSample

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.resource { /// <summary>
    /// Summary description for SkillCompRessSample.
    ///
    /// In this sample, we create a skill and

```

```

/// competency resource attributes.
/// </summary>
public class SkillCompResSample
{
    public SkillCompResSample()
    {
    }

    //All these variables are used in this sample
    public static String category = "IBMCATEGORY";
    public static String classification = "IBMCLASSIFICATION";
    public static String proficiency = "IBMPROFICIENCY";
    public static String skillName = "IBMSKILL";
    public static String compName = "IBMCOMPETENCY";

    // Session ID is use for all transaction and is get from the
    // Authenticate.login function.
    // The session ID will replace the
    // User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.Setup();

        // proficiency level object contained by :
        // - ResourceAttributeCompetencyProficiencyLevel,
        // - ResourceAttributeSkillProficiencyLevel.
        ProficiencyLevel level = (ProficiencyLevel)APISetup.
            application.loadFromXpath(
                sessionid, "/Proficiencylevel[value='Acquired']",
                null ).rpmObjectList[0];

        /**
         * Competency
         */
        // declare the objects you need to create a resource
        // competency you need a proficiency level with a
        // competency as parent
        // the competency needs a classification as parent
        // and the classification needs a category as parent.
        ResourceAttributeCompetencyCategory compCat =
            new ResourceAttributeCompetencyCategory();
        ResourceAttributeCompetencyClassification compClassi =
            new ResourceAttributeCompetencyClassification();
        ResourceAttributeCompetency comp =
            new ResourceAttributeCompetency();
        ResourceAttributeCompetencyProficiencyLevel compProf =
            new ResourceAttributeCompetencyProficiencyLevel();

        // create a SaveResult object to save resource
        // competency and skill
        SaveResult save = new SaveResult();

        // scope is necessary since many
        // elements are saved at a time
        ResourceAttributeScope cScope =
            new ResourceAttributeScope();

        // initialise every Resource Attribute with default
        // values adjust scope to keep links between objects
        compCat.name = category;
    }
}

```

```

cScope.categories = new ResourceAttributeScope();

compClassi.parent = compCat;
compClassi.name = classification;
compCat.classifications =
    new ResourceAttributeCompetencyClassification[]
    {compClassi};
cScope.classifications = new ResourceAttributeScope();

comp.parent = compClassi;
comp.name = compName;
compClassi.resourceAttributes =
    new ResourceAttributeCompetency[] {comp};
cScope.classifications.attributes =
    new ResourceAttributeScope();

compProf.parent = comp;
compProf.name = level.value;
compProf.proficiencyLevel = level;
comp.proficiencyLevels = new
    ResourceAttributeCompetencyProficiencyLevel[]
    {compProf};
cScope.classifications.attributes.proficiencyLevels =
    new ResourceAttributeScope();

// after the creation of the objects
// save the Resource Attribute Competency
// use a scope to include all the elements
save = APISetup.application.save(
    sessionid, compCat, cScope, ReloadType.SavedResult );
APISetup.checkForErrors( save );

/**
 * Skill
 */
// declare the objects you need to create a resource skill
// you need a proficiency level with a skill as parent
// the skill needs a classification as parent
// and the classification needs a category as parent.
ResourceAttributeSkillCategory skillCat =
    new ResourceAttributeSkillCategory();
ResourceAttributeSkillClassification skillClassi =
    new ResourceAttributeSkillClassification();
ResourceAttributeSkill skill =
    new ResourceAttributeSkill();
ResourceAttributeSkillProficiencyLevel skillProf =
    new ResourceAttributeSkillProficiencyLevel();

// scope is necessary since many
// elements are saved at a time
ResourceAttributeScope sScope =
    new ResourceAttributeScope();

// initialise every Resource Attribute
// with default values
// adjust scope to keep links between objects
skillCat.name = category;
sScope.categories = new ResourceAttributeScope();

skillClassi.parent = skillCat;
skillClassi.name = classification;
skillCat.classifications =
    new ResourceAttributeSkillClassification[]
    {skillClassi};
sScope.classifications = new ResourceAttributeScope();

```

```

skill.parent = skillClassi;
skill.name = skillName;
skillClassi.resourceAttributes =
    new ResourceAttributeSkill[] {skill};
sScope.classifications.attributes =
    new ResourceAttributeScope();

skillProf.parent = skill;
skillProf.name = level.value;
skillProf.proficiencyLevel = level;
skill.proficiencyLevels =
    new ResourceAttributeSkillProficiencyLevel[]
        {skillProf};
sScope.classifications.attributes.proficiencyLevels =
    new ResourceAttributeScope();

// after the creation of the objects
// save the Resource Attribute skill
// use a scope to include all the elements
save = APISetup.application.save(
    sessionid,skillCat,sScope,ReloadType.SavedResult );
APISetup.checkForErrors( save );

// end the communication with the api.
APISetup.CleanUp(sessionid);
}

}
}

```

TestPool

```

using System; using csUnit; namespace Tests.pool { /// <summary>
/// Shows use of [ExpectedException].
/// </summary>

public class TestPool : PoolFixture
{
    [Test]
    public void testPool()
    {
        TestFramework.ApplicationAPI.Pool pool =
            new TestFramework.ApplicationAPI.Pool();
        pool.name = "Nouveau Pool";
        TestFramework.ApplicationAPI.PoolScope scope =
            new TestFramework.ApplicationAPI.PoolScope();

        scope.pools = new TestFramework.ApplicationAPI.PoolScope();
        pool.pools = new TestFramework.ApplicationAPI.Pool[] {pool};
        savePool(pool, scope);

        pool = loadPoolFromXPath("Pool", "Nouveau Pool", scope);
        Assert.NotNull(pool.ID);
    }
}
}

```

TestProject

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Shows use of [ExpectedException].
/// </summary>

public class TestWBS

```



```

{
    //User, password, DataSource Name are use to
    authenticate with the service
    public static String username = "administrator";
    public static String password = "prodserv96";
    public static String dsn = "jdbc/RPMDATASOURCE";

    public static String projectExternalID = "external";
    public static String projectName = "name";
    public static String parentProjectExternalID = "parentExternalID";
    public static String assignNewExisting = "new";
    public static String assignCustomerCode = "code";
    public static String projectManagerID = "MANAGER_ID";
    public static String chargeCodeName = "charge code name";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace the
    //User password while transacting
    public static String sessionid;

    //The url will describe the location of all the services
    //It will need to have the service attach to the url like
    //http://localhost:8080/rpm/services/Application
    public static String url = "http://localhost:8080/crpm/services/";

    //Object AuthenticateService which provide de
    //login/logout/change password interface
    //It is a wsdl imported from project->addWebReference
    public static AuthenticateService authenticate;

    //Object ApplicationService which provide de
    //Save/load/checkin/checkout interface
    //It is a wsdl imported from project->addWebReference
    public static ApplicationService application;

    public static void SetUp()
    {
        //Get an instance of authenticateService
        authenticate = new AuthenticateService();

        //Specify the url to connect to which is represented
        //by the location of all the services and the specified
        //service Authenticate
        authenticate.Url = url + "Authenticate";

        //Login from the authenticateService api with your
        //user/password/dsn. This will return your session ID
        //To use for the application acces.
        sessionid = authenticate.login(username, password, dsn);

        //Get an instance of ApplicationService
        application = new ApplicationService();

        //Specify the url to connect to which is represented
        //by the location of all the services and the specified
        //service Application
        application.Url = url+ "Application";
    }

    public static void Cleanup()
    {
        authenticate.logout(sessionid);
    }

    public static void assignCustomField
    ( Project project, String fieldName, String fieldValue )

```

```

{
    // NOTE : API not ready for custom fields
    //foreach(CustomFieldAssignment
    assignment in project.customFieldAssignments )
    //{
        // CustomField field = assignemnt.customField;
        // if( field.name.Equals(fieldName) )
        // {
            // assignment.fieldValue = fieldValue;
            // break;
        // }
    //}
}

public static void blah()
{
    TestFramework.ApplicationAPI.Pool pool =
        (TestFramework.ApplicationAPI.Pool)application.loadFromXpath(
            sessionid, "/Pool[name='xyz']", null ).rpmObjectList[0];

    TestFramework.ApplicationAPI.Resource resourceToMove =
        (TestFramework.ApplicationAPI.Resource)application.loadFromXpath(
            sessionid, "/Resource[externalid='ABC']", null ).rpmObjectList[0];

    pool.resources = new TestFramework.ApplicationAPI.Resource[] {resourceToMove};

    PoolScope poolScope = new PoolScope();
    poolScope.resources = new ResourceScope();

    application.save(sessionid, pool, poolScope, ReloadType.SavedResult );
}

// Correct and reactivate
public void _testWbs()
{
    // 1. Process start (either done by a trigger from eWorks
    // or as a scheduled batch process)
    // 2. Get the eWorks project information specified in sheet 17.

    SetUp();

    LoadResult parentLoad = application.loadFromXpath(
        sessionid, "/Project[externalid='" +
        parentProjectExternalID + "']", null );

    Project parentProject = (Project)parentLoad.rpmObjectList[0];

    // 3. Find the project in RPM using the XPath:
    //Project[externalid='EWORKS_PROPOSAL_ID'].
    // Include the custom fields, financial and
    // resource assignment in scope.
    // If project doesn't exist, create it using a new Project.
    // Fill the External ID, Save the project with
    // custom fields in scope. (field #1)
    WorkElementScope scope = new WorkElementScope();
    scope.resourceTaskAssignments = new ResourceTaskAssignmentScope();
    //attribution changed according to new model 17/1/06
    scope.financialAssignments = true;
    // NOTE: API not ready yet for custom fields
    // scope.customFieldAssignemnt = true;

    LoadResult load = application.loadFromXpath(
        sessionid, "/Project[externalid='" + projectExternalID +
        "']", scope );

    Project projectToUpdate = null;
    if( load.rpmObjectList == null || load.rpmObjectList.Length == 0 )

```

```

{
    // create a new project
    projectToUpdate = new Project();
    projectToUpdate.externalID = projectExternalID;
    projectToUpdate.name = projectName;
    projectToUpdate.parent = parentProject;

    TestFramework.ApplicationAPI.RPMCalendar projectCalendar =
        (TestFramework.ApplicationAPI.RPMCalendar)
    application.loadFromXpath(
        sessionid, "/RPMCalendar[name='Standard (Default)']",
        null ).rpmObjectList[0];

    projectToUpdate.calendar = projectCalendar;

    Currency projectCurrency =
    (Currency)application.loadFromXpath(
        sessionid, "/Currency[name='Canadian dollars']",
        null ).rpmObjectList[0];

    projectToUpdate.currency = projectCurrency;
    projectToUpdate.estimatedStartDate = new DateTime
    (2005, 10, 10, 10, 10, 10 );
    projectToUpdate.estimatedFinishDate = new DateTime
    (2005, 11, 10, 10, 10, 10 );
    projectToUpdate.assignmentType = AssignmentType.Work;

    SaveResult save = application.save
    (sessionid, projectToUpdate, scope, ReloadType.ReloadResult);
    TestHelper.traceErrorsAndFail( save );
    projectToUpdate = (Project)save.rpmObject;
}
else
{
    // update existing project
    projectToUpdate = (Project)load.rpmObjectList[0];
}

/* 4. Find the parent project in RPM using the XPath
 * /Project[externalid='EWORKS_PARENT_PROJECT_ID'].
 * Assign this as the parent of the current project. (field #2)
 */
projectToUpdate.parent = parentProject;

/*
 * 5. Fill the project information:
 * (note, for custom fields, you need to browse the list of
 * assigned custom fields, find the one you want and
 * fill the value contained in the
 * customfield assignment)
 */

projectToUpdate.name = projectName;
projectToUpdate.externalID = projectExternalID;
assignCustomField( projectToUpdate, "new-existing customer",
    assignNewExisting );
assignCustomField( projectToUpdate, "customer code",
    assignCustomerCode );
// INSERT OTHER CUSTOM FIELDS HERE

//6. Find the resource related to eworks that will be the
project manager using a XPath:
///resource[externalid='MANAGER_ID']
//Check if the resource assignment already exists, if it doesn't,
//create the resource assignment. set the resource on it,
//and hook it to the project. (field #23)

```

```

TestFramework.ApplicationAPI.Resource projectManager =
(TestFramework.ApplicationAPI.Resource)
application.loadFromXPath( sessionId, "/Resource
[externalid='" + projectManagerID + "'" ],
null ).rpmObjectList[0];

bool found = false;
ResourceTaskAssignment[] assignmentArray =
projectToUpdate.resourceTaskAssignments;

if( assignmentArray != null )
{
    foreach( ResourceTaskAssignment resourceAssignment
in assignmentArray )
    {
        TestFramework.ApplicationAPI.Resource assignedResource =
resourceAssignment.resource;

        if ( assignedResource.ID.Equals(projectManager.ID ))
        {
            found = true;
            break;
        }
    }

    if ( !found )
    {
        ResourceTaskAssignment newAssignment =
new ResourceTaskAssignment();
        newAssignment.resource = projectManager;
        projectToUpdate.resourceTaskAssignments =
new ResourceTaskAssignment[] {newAssignment};
    }

    // 7. Find the contract amount charge code using a XPath :
    // /ChargeCode[name='CHARGE_CODE_NAME']
    // In the project wbsFinancial array, find if the the charge
    code is already created.
    // If it isn't, create a WbsFinancial element, assign the chargecode
    to it and add
    // it to the project wbsFinancial array. (field #39)

    ChargeCode contractAmountChargeCode = (ChargeCode)
application.loadFromXPath( sessionId, "/ChargeCode[name='" +
chargeCodeName + "'" ],
null ).rpmObjectList[0];

    found = false;
    WbsFinancial[] financialArray = projectToUpdate.wbsFinancials;
    if (financialArray != null )
    {
        foreach( WbsFinancial financial in financialArray )
        {
            ChargeCode currentChargeCode = financial.chargeCode;

            if ( currentChargeCode.ID.Equals(contractAmountChargeCode.ID ))
            {
                found = true;
                break;
            }
        }
    }

    if ( ! found )

```

```

{
    addFinancialToProject(projectToUpdate, contractAmountChargeCode);
}

/*
8. Repeat Step 7 for Contingency charge code (field #40)
9. Repeat Step 7 for Assets charge code (field #41)
10. Repeat Step 7 for Airfare/stay/expenses charge code (field #42)
*/

// 11. Save the project in RPM. Include the custom fields,
// financial and resource assignment in scope.
SaveResult save2 = application.save(sessionid, projectToUpdate,
scope, ReloadType.ReloadResult);
TestHelper.traceErrorsAndFail( save2 );
projectToUpdate = (Project)save2.rpmObject;

Cleanup();
}

public void addFinancialToProject( Project project, ChargeCode code )
{
    TestFramework.ApplicationAPI.WbsFinancial[] sourceArray =
project.wbsFinancials;
    if (sourceArray == null )
    {
        sourceArray = new WbsFinancial[0];
    }
    long newSize = sourceArray.Length + 1;
    WbsFinancial[] newArray = new WbsFinancial[newSize];

    Array.Copy(sourceArray, 0, newArray, 0, sourceArray.Length );

    WbsFinancial addFinancial = new WbsFinancial();
    addFinancial.chargeCode = code;

    newArray[newSize-1] = addFinancial;

    project.wbsFinancials = newArray;
}

static void Main()
{
    //resource.ResourceContactGroup x =
new Tests.resource.ResourceContactGroup();
    //resource.ResourceCalendar x =
new Tests.resource.ResourceCalendar();
    //resource.ResourceCurrency x =
new Tests.resource.ResourceCurrency();
    //resource.SkillCompResSample x =
new Tests.resource.SkillCompResSample();
    //resource.ResourceCField x = new Tests.resource.ResourceCField();
    //resource.ResourceGeo x = new Tests.resource.ResourceGeo();
    //resource.ResourceIndusExp x = new Tests.resource.ResourceIndusExp();
    //resource.ResourceSample x = new Tests.resource.ResourceSample();
    //resource.ResourceOrganization x =
new Tests.resource.ResourceOrganization();
    //resource.ResourceRate x = new Tests.resource.ResourceRate();
    //resource.ResourceLang x = new Tests.resource.ResourceLang();
    //resource.ResourcePassport x =
new Tests.resource.ResourcePassport();
    //resource.ResourceCCC x = new Tests.resource.ResourceCCC();
    //resource.ResourceDoc x = new Tests.resource.ResourceDoc();
    //pool.PoolAttribute x = new Tests.pool.PoolAttribute();
    //wbs.WBSTaskConstraints x = new WBSTaskConstraints();
    //wbs.WBSFillOpportunity x = new WBSFillOpportunity();
    //wbs.WBSTaskDependency x = new WBSTaskDependency();

```

```

//pool.PoolSample x = new Tests.pool.PoolSample();
//wbs.WBSProjectSample x = new WBSProjectSample();
//wbs.WBSProjectChilds x = new WBSProjectChilds();
//wbs.WBSTaskResource x = new WBSTaskResource();
//wbs.WBSProjectRTF x = new WBSProjectRTF();
//pool.PoolRef x = new Tests.pool.PoolRef();
//pool.PoolCCC x = new Tests.pool.PoolCCC();
//pool.PoolDoc x = new Tests.pool.PoolDoc();
//pool.PoolRes x = new Tests.pool.PoolRes();
//wbs.WBSCommitRes x = new WBSCommitRes();
//wbs.WBSProjectSC x = new WBSProjectSC();
//wbs.WBSTaskCPTP x = new WBSTaskCPTP();
//wbs.WBSTask x = new WBSTask();
//wbs.WBSDoc x = new WBSDoc();
//ScoreCard.ScorecardSample x = new Tests.ScoreCard.
ScorecardSample();
clientCostCenter.ClientCostCenterRtf x =
new Tests.clientCostCenter.ClientCostCenterRtf();

try
{
    x.sampleTest();
}
catch( Exception e )
{
    System.Console.Out.WriteLine(e.Message);
    System.Console.Out.WriteLine();
    System.Console.Out.WriteLine(e.ToString());
    int junk = 0;
    junk++;
}
}
}
}

```

TestResource

```

using System; using csUnit; using TestFramework.ApplicationAPI; namespace
Tests.resource { /// <summary>
/// Shows use of [ExpectedException].
/// </summary>

public class TestResource : ResourceFixture
{
    [Test]
    public void testResource()
    {
        Pool parent = new Pool();
        parent.name = "FatherPool";
        parent = (Pool) save(parent, null);

        Resource resource = new Resource();
        resource.fullName = "Nouveau resource";
        ResourceScope scope = new ResourceScope();
        scope.parent = new PoolScope();
        resource.parent = parent;
        resource.userName = "Stub User " + DateTime.Now.Ticks;

        resource = (Resource) save(resource, scope);

        Assert.NotNull(resource.ID);
    }

    public void testResetToNullDate()
    {
        // Creates a parent pool.
        Pool parent = new Pool();
    }
}

```

```

parent.name = "RootPool " + DateTime.Now.Ticks;
parent = (Pool) save(parent, null);

// Initializes a resource with a future discontinueDate.
Resource resource = new Resource();
resource.fullName = "Steve McDuff";
resource.parent = parent;
resource.userName = "User " + DateTime.Now.Ticks;
resource.effectiveStartDate = DateTime.Today;
resource.discontinueDate = DateTime.Today + TimeSpan.FromDays(30.0);

// Initializes the scope.
ResourceScope scope = new ResourceScope();
scope.parent = new PoolScope();

// Keeps the original discontinueDate for later comparison.
DateTime originalDate = resource.discontinueDate;

// Creates the resource.
Resource reloadedRes = (Resource) save(resource, scope);

// Ensure that reloaded date is still as the original.
Assert.Equals(originalDate, reloadedRes.discontinueDate);

// Resets the discontinueDate to "null".
// Design note: "empty" .NET DateTime is translated to Java "null"
// by RPM's Web Service.
reloadedRes.discontinueDate = new DateTime();

// Keeps the "null" discontinueDate for later comparison.
DateTime nullDateTime = reloadedRes.discontinueDate;

// Saves the resource with reset discontinueDate.
Resource reloadedRes2 = (Resource) save(reloadedRes, scope);

// Ensure that reloaded date is reset to "null".
Assert.Equals(nullDateTime, reloadedRes2.discontinueDate);

// Check in RPM's client that the date is null.
}

public void testSaveNullDate()
{
    Pool parent = new Pool();
    parent.name = "FatherPool";
    parent = (Pool) save(parent, null);

    Resource resource = new Resource();
    resource.fullName = "New resource";
    ResourceScope scope = new ResourceScope();
    scope.parent = new PoolScope();
    resource.parent = parent;
    resource.userName = "Stub User " + DateTime.Now.Ticks;
    DateTime originalDate = resource.discontinueDate;
    System.Console.WriteLine("\nOriginal date: "
        + originalDate + "\n");

    Resource autoReloadedRes = (Resource) save(resource, scope);

    Assert.NotNull(autoReloadedRes.ID);
    System.Console.WriteLine("\nOriginal date: "
        + originalDate + " - Auto-reloaded discontinue date: "
        + autoReloadedRes.discontinueDate + "\n");

    Assert.Equals(originalDate, autoReloadedRes.discontinueDate);

    Resource reloadedRes = (Resource) loadFromID(autoReloadedRes, scope);

```

```

        System.Console.WriteLine("\nOriginal date: "
            + originalDate + " - Reloaded discontinue date: " +
            reloadedRes.discontinueDate + "\n");

        Assert.Equals(originalDate, reloadedRes.discontinueDate);
    }
}

```

WBSCCommitRes

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
    /// Summary description for WBSCCommitRes.
    ///
    /// this sample runs the method : commit affected resources
    /// on a project loaded from RPM repository
    /// </summary>
    public class WBSCCommitRes
    {
        public WBSCCommitRes()
        {

        }

        public static String projectName = "IBM_GENERIC_PROJECT_ABC";

        //Session ID is use for all transaction and is get from the
        //Authenticate.login function. The session ID will replace
        // the User password while transacting
        public static String sessionid;

        public void sampleTest()
        {

            // initialize a session with the API
            sessionid = APISetup.Setup();

            // create a task scope
            // this scope enables us to save
            // information around the task
            WorkElementScope pScope = new WorkElementScope();

            // create a project object
            Project project = new Project();

            // query the project
            project = (Project)APISetup.application.loadFromXpath(
                sessionid, "/Project[name='" + projectName + "'",
                pScope ).rpmObjectList[0];

            // run method commit affected resources on the project
            // with the use of a scope, this method can affect
            // many objects in a logical tree
            if (APISetup.application.commitAffectedResources(
                sessionid, project, pScope).taskSuccessful)
            {
                //commit affected resources worked
            }

            // close connection with API
            APISetup.CleanUp(sessionid);
        }
    }
}

```



```

    }
}
}

```

WBSDoc

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; using System.Net; using System.IO; using System.Web;
using System.Web.Services.Protocols; namespace Tests.wbs { /// <summary>
/// Summary description for WBSDoc.
///
/// This sample loads a project from the RPM
/// repository then it creates a document and assigns
/// it to the project. It uploads an attachment to the
/// document and then downloads it.
/// </summary>
public class WBSDoc
{
    public WBSDoc(){}

    //All these variables are used in this sample
    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String contextName = "WBS";
    public static String docName = "Hypothesis";
    public static String uploadAction = "UPLOADZIPPED";
    public static String dwnldAction = "DOWNLOADZIPPED";

    public static String filePath = "C:\\Documents and Settings
\\username\\My Documents\\RPM Initial Hypothesis v3.zip";
    public static String filePathOut = "C:\\Documents and Settings
\\username\\My Documents\\bucket\\RPM Initial Hypothesis v3.zip";
    private static int BUFFER_SIZE = 2048;
    private static int MAX_SIZE = 2147483647;

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace the
    //User password while transacting
    public static String sessionid = "";

    public void sampleTest()
    {

        // start the communication with the api
        sessionid = APISetup.Setup();

        // Declare the resource wich we are going to use
        Project project = null;

        // declare a save result object
        SaveResult pSave = null;

        // create a resourceScope to keep track of the relation between
        // the resource and the documents
        WorkElementScope pScope = new WorkElementScope();
        pScope.documentFolder = new DocumentScope();

        // Find the resource in RPM using XPath.
        project = (Project)APISetup.application.loadFromXpath(
            sessionid, "/Project[name='" + projectName + "']",
            pScope ).rpmObjectList[0];

        // create a new document
        Document wNewDoc = new Document();
    }
}

```

```

// initialize the document
wNewDoc.name = docName;

// assign the resource to the document as the parent
wNewDoc.parent = project.documentFolder;

// save the document into RPM repository
// a scope isn't necessary
// use a reload type that enables you to work with the
document object afterward
pSave = new SaveResult();
pSave = APISetup.application.save(sessionid, wNewDoc, null,
ReloadType.ReloadResult);
APISetup.checkForErrors( pSave );

// use the SaveResult object to load the document just saved
wNewDoc = (Document)pSave.rpmObject;

/*
 * Upload a file
 */

// create a FileStream and initialize it with
// the file we wish to upload
FileStream f = new FileStream(filePath, System.IO.FileMode.Open,
System.IO.FileAccess.Read, System.IO.FileShare.Read);

// address to which we will upload the file
String adresse = "http://localhost:8080/rpm/servlet/DocumentTransfer";

// create a HttpRequest object
HttpRequest myReq = (HttpRequest)WebRequest.Create(adresse);

// initialize request
// method POST for upload
myReq.Method = "POST";
// allow stream buffering = true
// we will use streams to transfer data
myReq.AllowWriteStreamBuffering = true;

// add information in the headers
// must contain mandatory information on the server part
// plus information about the file
myReq.Headers.Add("ACTION", uploadAction);
myReq.Headers.Add("DOCUMENT_ID", wNewDoc.ID);
myReq.Headers.Add("CONTEXT_NAME", contextName);
myReq.Headers.Add("SESSION_ID", sessionid);
myReq.Headers.Add("FILE", filePath);
myReq.Headers.Add("CONTENT_LENGTH", ((long)f.Length).ToString());

// assign the file length to the request content length
myReq.ContentLength = f.Length;

// create a buffered stream object
BufferedStream bos = null;

// verifies if file is empty or oversized
if (f.Length > 0 && f.Length < MAX_SIZE)
{
    // get request stream in which we will transfer data
    bos = new BufferedStream(myReq.GetRequestStream());

    // create a file stream with the file to upload
    FileStream fis = new FileStream
(filePath, System.IO.FileMode.Open, System.IO.FileAccess.Read);

```

```

// create a byte array with size equal to chunk size we wish to send
byte [] data = new byte[BUFFER_SIZE];
int total = 0;
int count;

// loop for each chunk of data while file is not over
while ((count = fis.Read(data, 0, BUFFER_SIZE)) != 0)
{
    // write data into request stream
    bos.Write(data, 0, count);
    total += count;
}

// clean all streams
bos.Flush();
bos.Close();
fis.Close();
}

// get response for request
HttpWebResponse myResp = (HttpWebResponse)myReq.GetResponse();

// if request executes normally status is OK
if (myResp.StatusCode != System.Net.HttpStatusCode.OK)
{
    System.Console.Out.WriteLine("Upload failed");
}

// clean response and request
// not closing the HttpWebResponse object might cause
// time-out errors in the futur
myResp.Close();
myResp = null;
myReq = null;

// assign the new document in the resource
project.documentFolder.documentElements =
new DocumentElement[] {wNewDoc};

// save the resource in the RPM repository
// use the sessionid acquired in the setUp
// a scope is necessary because we save the link with document
pSave = new SaveResult();
pSave = APISetup.application.save
(sessionid, project, pScope, ReloadType.ReloadResult );

// method showing the detail of any error in the save
APISetup.checkForErrors( pSave );

/*
 * Download a file
 */

// download the document just saved
wNewDoc = (Document)APISetup.application.loadFromXpath
(sessionid, "/Document[name='" + docName + "'", null).rpmObjectList[0];

// create request URL with parameters
String getUrl = adresse + "?ACTION=" + dwnldAction
+ "DOCUMENT_ID=" + wNewDoc.ID + "&CONTEXT_NAME="
+ contextName + "&SESSION_ID=" + sessionid;

// create HttpRequest object
myReq = (HttpRequest)WebRequest.Create(getUrl);

// method for request is GET since we download a file

```

```

myReq.Method = "GET";
// allow stream buffering = true
// we will use streams to transfert data
myReq.AllowWriteStreamBuffering = true;

// get response to web request
myResp = (HttpWebResponse)myReq.GetResponse();

// get response stream, data downloaded
Stream stream = myResp.GetResponseStream();

// get headers from request
WebHeaderCollection headers = myResp.Headers;

// get content disposition from headers
String contentDisposition = myResp.GetResponseHeader(
"Content-Disposition");

// get content type from response
String contentType = myResp.ContentType;

// get encoding from response
String contentEnc = myResp.ContentEncoding;

// get data length from response
long contentLen = myResp.ContentLength;

if (contentLen > 0)
{
    // get file name
    String delimiter = "filename=\"";
    int start = delimiter.Length + contentDisposition.IndexOf(delimiter);
    int end = contentDisposition.LastIndexOf('"') - start;
    String filename = contentDisposition.Substring(start, end);

    // create a buffered stream from the response stream
    BufferedStream bis = new BufferedStream(stream);

    // create a file stream in wich we will write data
    from response stream
    FileStream fStream = new FileStream
    (filePathOut, System.IO.FileMode.OpenOrCreate);

    // create a buffered stream from file stream
    bos = new BufferedStream(fStream);

    // create a byte array with size equal to
    chunk size we wish to send
    byte[] data = new byte[BUFFER_SIZE];
    int total = 0;
    int count;

    // loop for each chunk of data while file is not over
    while ((count = bis.Read(data, 0, BUFFER_SIZE)) != 0)
    {
        // write data into file stream
        bos.Write(data, 0, count);
        total += count;
    }
    // clean all streams
    bos.Close();
    bis.Close();
}
// clean response and request
// not closing the HttpWebResponse object might cause
time-out errors in the futur
myResp.Close();

```

```

myResp = null;
myReq = null;

// end the communication with the api.
APISetup.CleanUp(sessionid);

}

}
}

```

WBSFillOpportunity

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSFillOpportunity.
///
/// this sample loads a Project and fills the opportunity
/// then saves the project back to the RPM repository
/// </summary>
public class WBSFillOpportunity
{
    public WBSFillOpportunity()
    {

    }

    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String conNumber = "IBM_CONTACT_NUMBER";
    public static String conType = "IBM_CONTACT_TYPE";
    public static String cusNumber = "IBM_CUSTOMER_NUMBER";
    public static String exClient = "IBM_EXTERNAL_CLIENT";
    public static String oppOwner = "IBM_OPPORTUNITY_OWNER";
    public static String oppTrNumber =
        "IBM_OPPORTUNITY_TRACKING_NUMBER";
    public static int benBegin = 14;
    public static int benDuration = 10;
    public static double magnitude = 100000.00;

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.SetUp();

        // create a save result object
        SaveResult save = null;

        // create a project scope
        // this scope enables us to work with a project and
        // any child object we wish to use
        WorkElementScope weScope = new WorkElementScope();

        // create a project object that we will use to either
        // create one or load one project
        Project project = null;

        // adjust project scope so it includes opportunity
        weScope.opportunity = true;
    }
}

```

```

// query the project
project = (Project)APISetup.application.
    loadFromXpath(sessionid,
        "/Project[name='" + projectName + "']",
        weScope ).rpmObjectList[0];

project.opportunity = new Opportunity();
// initialize opportunity object
project.opportunity.forecastClosed =
    new DateTime(2008, 10,10,10,10,10,10);
project.opportunity.pursuitFinish =
    new DateTime(2008, 10,10,10,10,10,10);
project.opportunity.pursuitStart =
    new DateTime(2006, 10,10,10,10,10,10);

project.opportunity.benefitBeginsMonths = benBegin;
project.opportunity.benefitDurationMonths = benDuration;
project.opportunity.orderOfMagnitudeCost = magnitude;

project.opportunity.contactNumber = conNumber;
project.opportunity.contactType = conType;
project.opportunity.customerNumber = cusNumber;
project.opportunity.externalClient = exClient;
project.opportunity.opportunityOwner = oppOwner;
project.opportunity.opportunityTrackingNumber =
    oppTrNumber;

project.opportunity.parent = project;

// save the project into the RPM repository
// a scope is necessary to keep the opportunity
// linked with the portfolio
save = new SaveResult();
save = APISetup.application.save(sessionid,
    project, weScope, ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}

}
}

```

WBSProjectChilds

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSProjectChilds.
///
/// this sample creates child tasks and milestones and assigns
/// them to a new summary task. This summary task is assigned
/// to a new deliverable. This deliverable is assigned to a
/// project loaded from RPM repository.
/// </summary>
public class WBSProjectChilds
{
    public WBSProjectChilds()
    {

    }

    // these are all variables that are used in this sample
    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String deliverableName = "IBM_DELIVERABLE";
    public static String sumTaskName = "IBM_SUMMARY_TASK";
}

```

```

public static String taskName = "IBM_CHILD_TASK";
public static String milestoneName = "IBM_MILESTONE";
public static String wProductName = "IBM_WORK_PRODUCT";

//Session ID is use for all transaction and is get from the
//Authenticate.login function. The session ID will replace
// the User password while transacting
public static String sessionid;

public void sampleTest()
{

    // initialize a session with the API
    sessionid = APISetup.Setup();

    // create a save result object
    SaveResult save = null;

    // create a project scope
    // this scope enables us to work with a project and
    // any child object we wish to use
    WorkElementScope weScope = new WorkElementScope();

    // initialize the project scope to have access to
    // the parent if needed
    weScope.parent = new WorkElementScope();

    // create a project object
    Project project = null;

    // query the project
    project = (Project)APISetup.application.loadFromXpath(
        sessionid, "/Project[name='" + projectName + "']",
        weScope ).rpmObjectList[0];

    // create child objects needed
    Deliverable deliverable = new Deliverable();

    SummaryTask sumTask = new SummaryTask();

    Task task = new Task();

    Milestone milestone = new Milestone();

    WorkProduct wProduct = new WorkProduct();

    // initialize the deliverable
    // assign the deliverable to the project
    deliverable.parent = project;
    deliverable.name = deliverableName;

    // save the deliverable
    deliverable = (Deliverable)saveRPMObject(deliverable);

    // initialize the work product
    // assign a work product to the project
    wProduct.parent = project;
    wProduct.name = wProductName;

    // save the work product
    wProduct = (WorkProduct)saveRPMObject(wProduct);

    // initialize the summary task
    // assign a summary task to a deliverable
    sumTask.parent = deliverable;
    sumTask.name = sumTaskName;

```

```

// save the summary task
sumTask = (SummaryTask)saveRPMObject(sumTask);

// initialize the task
// assign a task to a summary task
task.parent = sumTask;
task.name = taskName;
// for a task to be saved
// it has to have a planned start date
task.expectedDate = new WbsScheduleDate();
task.expectedDate.startDate =
    new DateTime(2005,10,10,10,10,10,10);

//TODO : cannot save task
// save the task object
task = (Task)saveRPMObject(task);

// initialize the milestone
// assign a milestone to a summary task
milestone.parent = sumTask;
milestone.name = milestoneName;

// save a milestone object
milestone = (Milestone)saveRPMObject(milestone);

// save the project into the RPM repository
// the scope is necessary to save changes with link
// to the parent
save = new SaveResult();
save = APISetup.application.save(sessionid, project,
    weScope, ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}

/** RPMObject saveWBSObject
 *
 * simple fonction used to save any RPMObject with no Scope
 * returns the object after reloading it
 */
public RPMObject saveRPMObject(RPMObject obj)
{
    SaveResult save = new SaveResult();
    save = APISetup.application.save(sessionid, obj,
        null,ReloadType.ReloadResult);
    APISetup.checkForErrors( save );
    obj = (RPMObject)save.rpmObject;

    return obj;
}
}
}

```

WBSProjectRTF

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
    /// Summary description for WBSProjectRTF.
    ///
    /// This sample loads a project.
    /// It loads a projectRTF from RPM repository,
    /// creates an rtf value and assigns it to a rtf assignement.

```



```

/// It then saves the assignement into the project.
/// </summary>
public class WBSProjectRTF
{
    public WBSProjectRTF()
    {

    }

    // these are all variables that are used in this sample
    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String rtfType = "Key Accomplishments";
    public static String rtfValue = "{\\rtf1\\ansi\\deff0{\\fonttbl" +
        "{\\f0\\fnil\\fcharset0 Arial;}{\\f1\\fnil\\fcharset0 Tahoma;}}" +
        "\\n{\\colortbl ;\\red255\\green0\\blue0;}\\n\\viewkind4\\uc1\\" +
        "pard\\cf1\\lang1033\\b\\fs28 This is a test.\\cf0\\b0\\f1\\fs20" +
        "\\n\\par }";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    //the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.Setup();

        // create a save result object
        SaveResult save = null;

        // create a task scope
        // this scope enables us to save information
        // around the task
        WorkElementScope pScope = new WorkElementScope();

        // adjust scope so it includes rtf assignment
        pScope.rtfAssignments = true;

        // create a project object
        Project project = new Project();

        // query the project
        project = (Project)APISetup.application.loadFromXpath(
            sessionid, "/Project[name='" + projectName + "']",
            pScope ).rpmObjectList[0];

        // create a rtf assignement
        RtfAssignment rtfAssign = new RtfAssignment();

        // load an existing RTF corresponding to the type of
        // container being modified
        ProjectRTF pRtf = (ProjectRTF)APISetup.application.
            loadFromXpath(sessionid, "/ProjectRTF[value='" +
                rtfType + "']", null).rpmObjectList[0];

        // assign rtf to the assignement
        rtfAssign.rtf = pRtf;

        // value contains most information about rtf and content
        // value sample :
        // {\\rtf1\\ansi\\deff0{\\fonttbl{\\f0\\fnil\\fcharset0
        // Arial;}{\\f1\\fnil\\fcharset0 Tahoma;}}\\n{\\colortbl
        // ;\\red0\\green128\\blue0;}\\n\\viewkind4\\uc1\\pard\\
        // \\cf1\\lang1033\\b\\fs28 This is a test.\\cf0\\b0\\f1
        // \\fs20 \\n\\par }

```

```

rtfAssign.value = rtfValue;

int power;
int bitFlag;

// create a bitFlag for the rtf assignement
power = int.Parse(pRtf.name.Trim());
bitFlag = ((int)Math.Pow(2, power-1));

// assign the bitFlag
rtfAssign.bitFlag = bitFlag;

// link the assignement with the wbs object
rtfAssign.parent = project;
project.rtfAssignments = new RtfAssignment[] {rtfAssign};

// save the project into the RPM repository
// the scope is necessary to save changes
// with link to the parent
save = new SaveResult();
save = APISetup.application.save(sessionid,
    project, pScope,
    ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}
}
}

```

WBSProjectSample

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSProjectSample.
///
/// this sample loads or create a portfolio
/// then creates a project, a proposal and a work organization
/// and assigns them to the portfolio
/// </summary>
public class WBSProjectSample
{
    public WBSProjectSample()
    {

    }

    // these are all variables that are used in this sample
    public static String projectExternalID = "external";
    public static String projectName = "IBM_GENERIC_PROJECT_ABC";
    public static String parentProjectExternalID = "parentExternalID";
    public static String chargeCodeName = "charge code name";
    public static String projectManagerID = "MANAGER_ID";
    public static String portName = "IBMPORTFOLIO_ABC";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    //the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {
    }
}

```

```

// initialize a session with the API
sessionid = APISetup.SetUp();

// create a save result object
SaveResult save = null;

// create a portfolio scope
// this scope enables us to work with a portfolio and
// any child object we wish to use
PortfolioScope pScope = new PortfolioScope();

// create a portfolio object that we will use to either
// create one or load one portfolio
Portfolio parentProject = null;

// adjust portfolio scope so it includes projects
pScope.projects = new WorkElementScope();

LoadResult loader = APISetup.application.
loadFromXpath(sessionid, "/Portfolio", null);
// query the portfolio
LoadResult load = APISetup.application.loadFromXpath(
sessionid, "/Portfolio[name='" + portName + "']",
pScope );

//check if the portfolio exists
if( load.rpmObjectList == null ||
load.rpmObjectList.Length == 0 )
{

// create a portfolio
parentProject = new Portfolio();
parentProject.name = portName;

// save the portfolio to the RPM repository
// use a reload type thats enables you to continue
// using the object
// a scope is not necessary here since we save a
// simple portfolio
save = new SaveResult();
save = APISetup.application.save(sessionid,
parentProject, pScope, ReloadType.ReloadResult);
APISetup.checkForErrors( save );

// reload the portfolio
// this way, an ID and contexte
// name as been given to it
parentProject = (Portfolio)save.rpmObject;

}
else
{

// assign the existing portfolio to
// the portfolio object
parentProject = (Portfolio)load.rpmObjectList[0];

}

// create a proposal
Proposal proposal = createProposal(parentProject);

// create a project
Project project = createProject(parentProject);

// create a work organization
WorkOrganization organization =

```

```

        createOrganization(parentProject);

// assign the generic projects to the portfolio
parentProject.projects = new GenericProject[]
    {proposal, project, organization};

// save the portfolio into the RPM repository
// use a reload type thats enables you to continue
// using the object
// a scope is necessary to keep the projects
// linked with the portfolio
save = new SaveResult();
save = APISetup.application.save(sessionid,parentProject,
    pScope,ReloadType.ReloadResult);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}

/** Proposal createProposal
 *
 * simple fonction casting a Proposal into
 * createGenericProject fonction
 */
public Proposal createProposal(Portfolio parent)
{

    Proposal proposal =
        (Proposal)createGenericProject(new Proposal(),
            parent);

    SaveResult save = new SaveResult();
    save = APISetup.application.save(sessionid,
        proposal, null, ReloadType.ReloadResult);
    APISetup.checkForErrors( save );
    return (Proposal)save.rpmObject;

}

/** WorkOrganization createOrganization
 *
 * simple fonction casting a WorkOrganization into
 * createGenericProject fonction
 */
public WorkOrganization createOrganization(Portfolio parent)
{

    WorkOrganization org =
        (WorkOrganization)createGenericProject(
            new WorkOrganization(), parent);

    SaveResult save = new SaveResult();
    save = APISetup.application.save(sessionid,
        org, null, ReloadType.ReloadResult);
    APISetup.checkForErrors( save );
    return (WorkOrganization)save.rpmObject;

}

/** Project createProject
 *
 * simple fonction casting a Project into
 * createGenericProject fonction
 */
public Project createProject(Portfolio parent)
{

```

```

        Project project = (Project)createGenericProject(
            new Project(), parent);

        SaveResult save = new SaveResult();
        save = APISetup.application.save(sessionid, project,
            null, ReloadType.ReloadResult);
        APISetup.checkForErrors( save );
        return (Project)save.rpmObject;
    }

    /** GenericProject createGenericProject
     *
     * Fonction creating a generic project
     * with basic information plus calendar and currency
     */
    public GenericProject createGenericProject(GenericProject
        projectToUpdate, Portfolio parent)
    {

        // create a new project
        projectToUpdate.externalID = projectExternalID;
        projectToUpdate.name = projectName;
        projectToUpdate.portfolio = parent;

        TestFramework.ApplicationAPI.RPMCalendar projectCalendar=
            (TestFramework.ApplicationAPI.RPMCalendar)APISetup.
            application.loadFromXpath(sessionid,
                "/RPMCalendar[name='Standard (Default)']", null ).
                rpmObjectList[0];

        projectToUpdate.calendar = projectCalendar;

        Currency projectCurrency = (Currency)APISetup.
            application.loadFromXpath(sessionid,
                "/Currency[name='Canadian dollars']",
                null ).rpmObjectList[0];

        projectToUpdate.currency = projectCurrency;
        projectToUpdate.estimatedStartDate =
            new DateTime(2005, 10, 10, 10, 10, 10 );
        projectToUpdate.estimatedFinishDate =
            new DateTime(2005, 11, 10, 10, 10, 10 );
        projectToUpdate.assignmentType = AssignmentType.Work;

        return projectToUpdate;
    }
}

```

WBSProjectSC

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
    /// Summary description for WBSProjectSC.
    ///
    /// this sample creates a scorecard and saves it into
    /// RPM repository, it assigns it to a project and then publishes it.
    /// </summary>
    public class WBSProjectSC
    {
        public WBSProjectSC()
        {

        }

    }
}

```

```

// all these variables are used in this sample
public static String projectName = "IBM_GENERIC_PROJECT_ABC";
public static String scfName = "IBM_SCORECARD_FOLDER";
public static String scName = "IBM_SCORECARD";
public static String sccName = "IBM_SCORECARD_CATEGORY";
public static String scqName = "IBM_SCORECARD_QUESTION";
public static String scrName = "IBM_SCORECARD_RESPONSE";
// number of questions
public static int nbrQ = 5;
// number of responses per question
public static int nbrR = 3;
public static int iWeight = 1;

//Session ID is use for all transaction and is get from the
//Authenticate.login function. The session ID will replace
// the User password while transacting
public static String sessionid;

public void sampleTest()
{

    // initialize a session with the API
    sessionid = APISetup.Setup();

    // create a save result object
    SaveResult saver = null;

    // create a project scope
    // this scope enables us to save
    // information around the project
    WorkElementScope pScope = new WorkElementScope();

    // adjust the project scope so it links the
    // assigned scorecard
    pScope.assignedScorecards = new ScorecardScope();
    pScope.assignedScorecards.parent = new RPMObjectScope();
    pScope.assignedScorecards.scorecardCategories =
        new ScorecardCategoryScope();
    pScope.assignedScorecards.scorecardCategories.
        scorecardQuestions = new ScorecardQuestionScope();
    pScope.assignedScorecards.scorecardCategories.
        scorecardQuestions.scorecardResponses =
        new ScorecardResponseScope();

    // create a project object
    Project project = new Project();

    // load the project from the ROM repository
    // use a scope to load assigned
    // scorecard links if there is any
    project = (Project)APISetup.application.loadFromXpath(
        sessionid, "/Project[name='" + projectName + "']",
        pScope ).rpmObjectList[0];

    // create every object needed to
    // create a complete scorecard
    ScorecardFolder scFolder = new ScorecardFolder();
    Scorecard sCard = new Scorecard();
    ScorecardCategory scCat = new ScorecardCategory();
    ScorecardQuestion scQuestion = null;
    ScorecardResponse scResponse = null;

    //necessary for any new scorecard folder
    WbsModule module = new WbsModule();

    // initialize every object so they contain at least the

```

```

// minimal information required to be saved
// WBSModule does not need to be initialized

// initialize scorecard folder
// the parent is a WBSModule
scFolder.name = scfName;
scFolder.parent = module;

// initialize the scorecard
// there can be any number of scorecard
// in a scorecard folder
sCard.name = scName;
sCard.weight = iWeight;
sCard.probabilityType = ProbabilityType.None;
sCard.parent = scFolder;

// initialize the scorecard
scCat.name = sccName;
scCat.parent = sCard;
scCat.weight = iWeight;

// create an array of scorecard questions
ScorecardQuestion[] questions =
    new ScorecardQuestion[nbrQ];

for (int i = 0 ; i < nbrQ ; i ++)
{
    // initialize a scorecard question
    scQuestion = new ScorecardQuestion();
    scQuestion.name = scqName + i;
    scQuestion.parent = scCat;
    scQuestion.weight = iWeight;

    // create an array of scorecard
    // responses for each question
    ScorecardResponse[] responses =
        new ScorecardResponse[nbrR];
    for (int j = 0 ; j < nbrR ; j ++)
    {
        // initialize the scorecard response
        scResponse = new ScorecardResponse();
        scResponse.name = scrName + j;
        scResponse.parent = scQuestion;
        scResponse.weight = iWeight;

        // scorecard question must have no more
        // than one scorecard response
        // set to default response
        if (j == 0)
        {scResponse.defaultResponse = true;}
        else
        {scResponse.defaultResponse = false;}

        responses[j] = scResponse;
    }

    // assign responses to question
    scQuestion.scorecardResponses = responses;

    questions[i] = scQuestion;
}

// assign scorecard questions to scorecard category
scCat.scorecardQuestions = questions;

// assign scorecard category to scorecard
sCard.scorecardCategories =

```

```

new ScorecardCategory[] {scCat};

// assign scorecard to scorecard folder
scFolder.scorecards = new Scorecard[] {sCard};

// assign scorecard folder to WBSModule
module.scorecardFolders =
    new ScorecardFolder[] {scFolder};

// create WbsModuleScope that includes all tree
// of the scorecard you wish to create
WbsModuleScope wbsmScope = new WbsModuleScope();
wbsmScope.scorecardFolders = new ScorecardFolderScope();
wbsmScope.scorecardFolders.scorecards =
    new ScorecardScope();
wbsmScope.scorecardFolders.scorecards.
    scorecardCategories = new ScorecardCategoryScope();
wbsmScope.scorecardFolders.scorecards.
    scorecardCategories.scorecardQuestions =
    new ScorecardQuestionScope();
wbsmScope.scorecardFolders.scorecards.
    scorecardCategories.scorecardQuestions.
    scorecardResponses = new ScorecardResponseScope();

// save the scorecard folder by saving the WbsModule
// a new scorecard folder cannot be saved on its own
// use the WbsModuleScope to save every
// element of the scorecard desired
saver = new SaveResult();
saver = APISetup.application.save(sessionid,
    module, wbsmScope, ReloadType.None);
APISetup.checkForErrors( saver );

// load the scorecard created, this is
// needed to assign it afterward
sCard = (Scorecard)APISetup.application.loadFromXpath(
    sessionid, "/Scorecard[name='" + scName + "'",
    null).rpmObjectList[0];

// a scorecard must be active to be
// assigned to any object
sCard.active = true;

// assign the active scorecard to the
// project loaded in the first place
APISetup.application.assignScoreCard(sessionid,
    project, pScope, sCard, ReloadType.None);

// reload project that contains
// newly saved assignedScorecard
project = (Project)APISetup.application.loadFromXpath(
    sessionid, "/Project[name='" + projectName + "'",
    pScope ).rpmObjectList[0];

// create a scorecardScope to
// publish the assignedScorecard
ScorecardScope publishScope = new ScorecardScope();
publishScope.scorecardCategories =
    new ScorecardCategoryScope();
publishScope.scorecardCategories.scorecardQuestions =
    new ScorecardQuestionScope();
publishScope.scorecardCategories.scorecardQuestions.
    scorecardResponses = new ScorecardResponseScope();

// create an assignedScorecard object
// initialize with our project assignedScorecard
AssignedScorecard assign = project.assignedScorecards[0];

```



```

        assign.parent = project;

        // publish the scorecard so it can be viewed as a report
        // publish needs an assignedScorecard and a Scorecard
        // scope assignedScorecard must have a valid parent
        assign = (AssignedScorecard)APISetup.application.
            publishScorecard(sessionid, assign, publishScope).
            rpmObject;

        // save the project into the RPM repository
        // the scope is not necessary to save changes
        // with link to the parent
        saver = new SaveResult();
        saver = APISetup.application.save(sessionid,
            project, pScope, ReloadType.None);
        APISetup.checkForErrors( saver );

        // close connection with API
        APISetup.CleanUp(sessionid);
    }
}
}

```

WBSTask

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
    /// Summary description for WBSTask.
    ///
    /// This sample loads a task from RPM repository
    /// and fills the task before saving it back to RPM repository
    /// </summary>
    public class WBSTask
    {
        public WBSTask()
        {

        }

        public static String taskName = "IBM_CHILD_TASK";

        //Session ID is use for all transaction and is get from the
        //Authenticate.login function. The session ID will replace
        // the User password while transacting
        public static String sessionid;

        public void sampleTest()
        {

            // initialize a session with the API
            sessionid = APISetup.SetUp();

            // create a save result object
            SaveResult save = null;

            // create a task scope
            // this scope enables us to save
            // information around the task
            WorkElementScope tScope = new WorkElementScope();

            // adjust task scope to save sheduled dates and status
            tScope.scheduleDates = true;
            tScope.statusUpdate = true;

```

```

// adjust task scope to save Task State
tScope.state = true;

// query a task object
Task task = (Task)APISetup.application.loadFromXpath(
    sessionid, "/Task[name='" + taskName + "']", tScope )
    .rpmObjectList[0];

// enter estimated dates
task.estimatedStartDate =
    new DateTime(2006,10,10,10,10,10,10);
task.estimatedFinishDate =
    new DateTime(2007,10,10,10,10,10,10);

// expected dates can be entered here or if not
// they will be copied from estimated dates
task.expectedDate.startDate =
    new DateTime(2006,10,10,10,10,10,10);
task.expectedDate.finishDate =
    new DateTime(2007,10,10,10,10,10,10);

// initialize start proposed date
task.proposedDate.startDate =
    new DateTime(2006,11,11,11,11,11,11);

// save task
// use a work element scope initialized
// so it includes good task childs
// use a reload type that enables reloaded results
save = new SaveResult();
save = APISetup.application.save(sessionid,
    task, tScope, ReloadType.ReloadResult);
APISetup.checkForErrors( save );

// reload task
task = (Task)save.rpmObject;

// execute a copy proposed to plan action on the task
APISetup.application.copyProposedToPlan(
    sessionid, task, null);

// save task
// use a work element scope initialized so it
// includes good task childs
// use a reload type that enables reloaded results
save = new SaveResult();
save = APISetup.application.save(sessionid, task,
    tScope, ReloadType.ReloadResult);
APISetup.checkForErrors( save );

// reload task
task = (Task)save.rpmObject;

// create actual date
task.actualDate = new WbsScheduleDate();
// duration in minutes is mandatory to add an actual
// date and must be higher than 0
// but not higher than planned duration in minutes
task.actualDate.durationInMinutes = 1;
task.actualDate.startDate =
    new DateTime(2007,2,2,2,2,2,2);

// save task
// use a work element scope initialized
// so it includes good task childs
// use a reload type that enables reloaded results
save = new SaveResult();

```

```

save = APISetup.application.save(sessionid, task, tScope,
    ReloadType.ReloadResult);
APISetup.checkForErrors( save );

// reload task
task = (Task)save.rpmObject;

// forecast dates cannot be modified in RPM API
//task.forecastDate = new WbsScheduleDate();
//task.forecastDate.durationInMinutes = 5000;

// initialize task state
task.state = (DatafieldState)APISetup.application.
    loadFromXpath(sessionid,
        "/TaskState[value='In Progress']",
        null).rpmObjectList[0];

// save task into RPM repository
// use a scope that includes any information added
// a reload type is not necessary at this point since
// we don't use this object again
save = new SaveResult();
save = APISetup.application.save(sessionid, task,
    tScope,ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}
}
}

```

WBSTaskConstraints

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSTaskConstraints.
///
/// This sample loads a task from RPM repository and
/// assigns a constraint to this task.
/// </summary>
public class WBSTaskConstraints
{
    public WBSTaskConstraints()
    {

    }

    public static String taskName = "IBM_CHILD_TASK";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.SetUp();

        // create a save result object
        SaveResult save = null;
    }
}

```

```

// create a task scope
// this scope enables us to save information
// around the task
WorkElementScope tScope = new WorkElementScope();

// create a task object
Task task = new Task();

// query the task
task = (Task)APISetup.application.loadFromXpath(
    sessionid, "/Task[name='" + taskName + "'",
    tScope ).rpmObjectList[0];

task.constraintType = ConstraintType.FinishNoEarlierThan;
task.constraintDate =
    new DateTime(2006,10,10,10,10,10,10);

// save task into RPM repository
// use a scope that includes any information added
// a reload type is not necessary at this
// point since we don't use this object again
save = new SaveResult();
save = APISetup.application.save(sessionid, task,
    tScope, ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}
}
}

```

WBSTaskCPTP

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSTaskCPTP.
///
/// This sample loads a project from RPM repository and
/// makes a copy proposed to plan action on the project.
/// </summary>
public class WBSTaskCPTP
{
    public WBSTaskCPTP()
    {

    }

    public static String projectName = "IBM_GENERIC_PROJECT_ABC";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.SetUp();

        // create a project scope
        // this scope enables us to save information
        // around the project
        WorkElementScope tScope = new WorkElementScope();
    }
}

```

```

// create a project object
Project project = new Project();

// query the project
project = (Project)APISetup.application.loadFromXpath(
    sessionid, "/Project[name='" + projectName + "']",
    tScope ).rpmObjectList[0];

// run method copy proposed to plan on the project
// with the use of a scope, this method can affect
// many objects in a logical tree
if (APISetup.application.copyProposedToPlan(sessionid,
    project, tScope).taskSuccessful)
{
    //copy proposed to plan worked and enabled
    // modification of actual and forecast dates
}

// close connection with API
APISetup.CleanUp(sessionid);
}
}
}

```

WBSTaskDependency

```

using System; using TestFramework.ApplicationAPI; using TestFramework.
AuthenticateAPI;
using TestFramework; namespace Tests.wbs { /// <summary>
/// Summary description for WBSTaskDependency.
///
/// This sample loads a task from RPM repository
/// and assigns a dependency to the task.
/// </summary>
public class WBSTaskDependency
{
    public WBSTaskDependency()
    {
    }

    // these are all variables that are used in this sample
    public static String taskName = "IBM_CHILD_TASK";
    public static String depName = "IBM_DEPENDENCY";
    public static String sTaskName = "IBM_MILESTONE";

    //Session ID is use for all transaction and is get from the
    //Authenticate.login function. The session ID will replace
    // the User password while transacting
    public static String sessionid;

    public void sampleTest()
    {

        // initialize a session with the API
        sessionid = APISetup.Setup();

        // create a save result object
        SaveResult save = null;

        // create a task scope
        // this scope enables us to save
        // information around the task
        WorkElementScope tScope = new WorkElementScope();
    }
}

```

```

// adjust task scope so it includes dependencies
tScope.dependencies = true;

// create a task object
Task task = new Task();

// query the task
task = (Task)APISetup.application.loadFromXpath(
    sessionid, "/Task[name='" + taskName + "'",
    tScope ).rpmObjectList[0];

// create the element dependency
ElementDependency elemDep = new ElementDependency();

// load the predecessor of the element dependency
// this predecessor contains is predecessors as well
Milestone sTask = (Milestone)APISetup.application.
    loadFromXpath(sessionid,
        "Milestone[name='" + sTaskName + "'",
        null).rpmObjectList[0];

// assign the parent and predecessor
// to element dependency
elemDep.parent = task;
elemDep.predecessor = sTask;

// assign element dependency to the task
task.dependencies = new ElementDependency[] {elemDep};

// save task into RPM repository
// use a scope that includes any information added
// a reload type is not necessary at this point
// since we don't use this object again
save = new SaveResult();
save = APISetup.application.save(sessionid, task,
    tScope, ReloadType.None);
APISetup.checkForErrors( save );

// close connection with API
APISetup.CleanUp(sessionid);
}
}
}

```

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