



What's New in the Build Forge System Version 7.0.2 iFix1

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IBM Rational Build Forge What's New

This guide lists new features and known issues, including workarounds for the issues where possible.

Before using this information be sure to read the general information under [“Notices” on page 15](#)

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About the Release

The release notes provide information about enhancements, resolved problems, and known issues in version 7.0.2 of the Build Forge product.

Installing this release

Before installing this release, obtain the latest version of the *IBM Rational Build Forge Installation Guide*.

Express Edition users can use the *IBM Rational Build Forge Express Installation Guide*.

The installation guide provides detailed instructions for installing the product and upgrading from previous versions.

Important updates include information related to national language support, prerequisite software, and supported platforms and databases. Review the information in the installation guide before starting an installation or upgrade.

Getting the latest release notes

Important updates to this document may have been made since it was prepared for the product release. Download the updated edition from the IBM Publications Center, as follows:

1. Go to <http://www.ibm.com/shop/publications/order>.
2. Click **Search for Publications**.
3. In the Publications number field, enter the document number from the title page of this document.

New and Updated Features

This section contains information about new and updated features for Build Forge in 7.0.2.

New: Built-in Properties for Collectors and Manifests

The following built-in properties were added. See the Build Forge online help, **Setting Up Servers** → **Dynamic Server Selection** → **Built-in Properties** .

Note

Build Forge currently works only on IPv4.

- CPU_ARCH
- CPU_MHZ
- CPU_MANUFACTURER
- CPU_MODEL
- CPU_SERIAL
- DISK_TOTAL
- NET_FQDN
- NET_HWADDR
- NET_IFACE
- NET_IPV
- NET_IPV4
- NET_IPV6
- NET_SPEED
- OS_HOSTID
-

New: UNIX/Linux-based installations now require the Data::UUID Perl Module

The Data::UUID Perl module is now required for installations of Build Forge on all UNIX and Linux platforms. The requirement has been added to the Installation Guide, **Requirements** → **Database Requirements** → **Perl Modules** .

Fixed in This Version

This section lists problems fixed in the current release along with their internal defect tracking numbers.

Agent

RATLC01041967: on Linux, 7.0.2 agent does not install over a 7.0.1 agent

A problem with the RPM spec file made it appear to RPM that the 7.0.2 agent was older than the 7.0.1 agent.

API

RATLC01043511: User cannot add self to new groups

This problem has been resolved.

RATLC01042281: clone() method does not copy project steps

The clone() method now copies project steps.

Documentation

RATLC01049111: URL for locating installation area of Eclipse plug-in is wrong

The URL has been changed to `http://<console_host_name>/prism/site.xml`. The Build Forge system must be running in order for you to locate this URL from within Eclipse. In the online help, see **Accessing Management Console from IDEs with Plug-ins → Plug-ins for Eclipse and Rational Application Developer → Installing the Eclipse or Rational Application Developer Plug-ins**.

RATLC01042304 : Multiple entry points for adaptors

Implementing multiple entry points for adaptors requires different methodology starting with Version 7.0.2. See the online help, **Integrating with External Applications Using Adaptors → Advanced Adaptors Tasks → Creating Multiple Entry Point Adaptors**

RATLC01034596 : Agent source kit, need warning about using `--without-pam` to compile

Added warning that using `--without-pam` when compiling the agent using the source kit creates an agent with no security. In such a case the agent needs to be installed using a dedicated login and the `magic_login` authentication needs to be use.

RATLC01045308: Requirements incorrectly state that Solaris on x86 is supported

Removed the statement from the Installation Guide that Solaris on x86 is a supported platform for Management Console.

RATLC01038588: DB2 CREATE statement wrong for setting up DB2 for Build Forge

The incorrect DB2 CREATE statement in the Sample DB2 SQL Command Script has been corrected. See Installation Guide,

DB2 Setup, in the installation instructions installing Management Console on Windows and on UNIX/Linux.

RATLC01036029: Microsoft SQL Server setup needs to be based on 2005 version

The instructions for setting up the database were based on the 2000 version. The instructions now use SQL Server Management Studio, the tool in Microsoft SQL Server 2005.

Management Console Engine

RATLC01039403: .break does not stop project if it is in a nested library call

The .break command now stops the project when it is called from a nested library.

RATLC01038462: Build Forge clustered engines can generate identical IDs

Clustered engines now employ UUIDs..

RATLC01042745: Multiple concurrent imports can cause data corruption

This problem has been resolved by using locks and transactions (where they are available, depends on database).

RATLC01039492: Threaded steps calling .runwait fail to complete when the child project completes

This problem has been resolved.

RATLC01039081: Scheduled job using a build tag variable set to 0 causes the build tag variable to be blank in the job log

This problem has been resolved. It was encountered only when a variable used in the build tag was set to zero and the job was started through the scheduler.

RATLC01038770: Purges delete Production-class jobs if both Production and Scratch build records exist

Encountered on Management Console on Solaris 10. This problem has been resolved. This problem was encountered when there was a mix of Scratch and Production build records of the same project when a Production purge ran.

RATLC01037908: Step containing a filter gets PASS status when job is cancelled and job continues to run

This problem has been resolved. Cancelling a job that contains a step with a filter is now handled correctly. The step containing the filter is set to status Cancel, the job status is set to Cancel, and the job is stopped.

RATLC01039525: _USE_BFCREDS ignored by library used to purge a job that used _USE_BFCREDS

This problem has been resolved. The user who started a job using _USE_BFCREDS authenticated properly and the job ran correctly. A library started upon purging that project, that also the _USE_BFCREDS variable, did not use the same user. It used root.

RATLC01038839: .get and .put corrupt files over ~1 MB

This problem has been resolved. Files up to 500 MB have been tested successfully.

Management Console User Interface

RATLC01039392: Job restarts render hidden variables visible in the build log	This problem has been resolved. Hidden variables now show obfuscated values after a restart.
RATLC01045051: unable to move variables within an environment	The problem has been resolved.
RATLC01040842: list variables do not display correctly in the UI when set to "required"	The problem has been resolved.
RATLC01037557: Users with "Delete Group" privilege cannot view details of access groups that they are not a direct member of, but they can delete them	The problem has been resolved. Users must be a member of the group in order to choose the group.
RATLC01037190: Project fields Max Threads and Run Limit are displayed incorrectly when using chain link URL	The problem has been resolved.
RATLC01037118: Step notify dropdowns show inconsistent behavior	The problem has been resolved.
RATLC01034160: Variables and list variables are not correctly interpreted in Schedules environment tab	The problem has been resolved.
RATLC01030035: Cannot sort by Access in Environment menu	The problem has been resolved.
RATLC01038053: LDAP users get added twice with different case upon log in	The problem has been resolved. All LDAP user names get forced to lower case when adding them to Build Forge. This behavior complies with LDAP, which always reports in lower case.
RATLC01049041: magic_login fails to authenticate user with error: unknown account (1)	The problem has been resolved.

Known Issues

This section describes issues that remain open in this release at production time.

RATLC01039370: Cannot connect to Microsoft SQL Server database if a case-sensitive collation is used

If a Build Forge database on Microsoft SQL Server is created using a case-sensitive collation, Build Forge fails during startup with the following error:

```
C:\Program Files\BuildForge>BuildForge -d
DBD::ODBC::st execute failed: [Microsoft][ODBC SQL Server Driver][SQL Server]Invalid object
name 'information_schema.tables'. (SQL-42S02)
[Microsoft][ODBC SQL Server Driver][SQL Server]Statement(s) could not be prepared.
(SQL-42000)(DBD: st_execute/SQLExecute err=-1) at /PerlApp/BuildForge/DB/Handle.pm line
211.
```

```
8808 /PerlApp/BuildForge/DB/sqlserver.pm(BuildForge::DB::sqlserver):42
```

```
8808 /PerlApp/BuildForge/DB/Handle.pm(BuildForge::DB::Handle):413
```

```
8808 /PerlApp/BuildForge/DB/ConnectionHandler.pm(BuildForge::DB::ConnectionHandler):34
```

Workaround: use a case-insensitive collation, such as the default: `SQL_Latin1_General_CP1_CI_AS`.

RATLC01038469: Build Forge on Solaris hangs if file descriptor limit is set higher than 1024

Build Forge on Solaris can hang while trying to acquire a license due to a known issue in the Rational License Server.

To determine the file descriptor limit, use the following command:

```
ulimit -n
```

Workaround: set the file descriptor limit to 1024 or lower. If you do this while Build Forge is hanging, the license server corrects itself and Build Forge acquires a license immediately.

RATLC01036678: Environments: backslash before ending quote in a variable assignment does not yield expected result

In a variable assignment (`.bset env`) there are unexpected results if the last character before the ending quote is a backslash. This true even if preparsing is turned off (`_NO_PREPARSE_COMMAND` is true). Example from step execution log:

```
195 01/28/08 03:45PM STEP .bset env "VAR07=C:\"
196 01/28/08 03:46PM EXEC .bset env 'VAR07' = ''
```

Workaround: put a space before the ending quote. Example from step execution log:

```
187 01/28/08 03:45PM STEP .bset env "VAR032=C:\ "  
188 01/28/08 03:45PM EXEC .bset env 'VAR032' = 'C:\'
```

RATLC01035275: URL for version 7.0 notification templates might not work in later versions

The notification template URL provides a link in the notification e-mail to the build report in Build Forge.

In version 7.0.1, the URL in the notification templates changed. Consequently, when you upgrade from 7.0 to any later version, the notification template URL links might not work.

If you experience a link error, make the following changes to the notification templates:

1. Select Project > Templates.
2. Click on the notification template to display its properties on the Details tab.
3. In the Body field, locate the URL for the template. The URL should be similar to the one in the following example:

```
http://${CONSOLEHOST}:${CONSOLEPORT}/fullcontrol/index.php?mod=projectruns&action=edit&bfid=${PID}&bfid=${BID}&bfid=${UID}
```

4. Replace the following 7.0 URL elements with the appropriate 7.0.1 (and later) URL elements:

7.0 URL elements	7.0.1 (and later) URL elements
projectruns	jobs
&	&

RATLC01029756: IE6 generates Visual C++ runtime error on save of data

Internet Explorer 6 users may see a Visual C++ runtime error if the Google toolbar is installed.

As a workaround, in IE go to Tools > Internet Options > Advanced and the uncheck the "Enable third party browser extensions" option.

RATLC01031764: Build Forge System i agents need to change standard agent port (5555)

The standard Build Forge agent port (5555) may be preassigned on a System i server. In this case, change the Build Forge agent port to an unassigned port before starting the agent. You can edit the BFAgent.conf file directly or use another method to change the port. For details, see the installation guide.

This problem will be fixed in a future release of the product.

RATLC01021966: Duplicate column values not displayed in Quick Report wizard-generated reports

In wizard-generated reports, column values are not displayed if they duplicate or match the column value of the previous record. This display convention makes it look like report data is missing when it is not.

This problem is due to a limitation in the Eclipse reporting tool, BIRT. In a future product release, the ability to hide or display duplicate column data will be provided.

RATLC01021475: Some tool tip messages in system configuration settings are truncated

This display problem is due to a limitation in Mozilla Firefox. Presently, there is no workaround. The problem will be addressed in a future product release.

RATLC01022565: Quick Report titles in performance report may be truncated

Because of a dynamic chart sizing issue in the current version of the Eclipse reporting tool BIRT, performance report titles may be truncated. Presently, there is no workaround. The problem will be addressed in a future product release.

RATLC01038257: Quick Report titles cannot contain periods

When you create a report, you must specify a title. If your report title contains a period, an error is generated and the report is not created.

Do not include periods in your report titles.

RATLC01020695: Not all installed components run if the Management Console is installed to NLV path

Do not use national language characters in the installation directory path name that you specify for the Management Console. Problems with the installer prevent Build Forge from installing correctly. Use US-ASCII characters only for the installation directory path. This problem will be addressed in a future product release.

RATLC01020895: Output for Build Forge agent install script (install.sh) is English-only

If you install the Build Forge agent on a host with an operating system language other than English, for example French on AIX, the output from the install script is in English. This issue will be addressed in a future product release.

RATLC01036414: Install panels for MS Visual Studio .NET for Build Forge are English-only

The installation panels for installing and setting up MS Visual Studio .NET 2005 for Build Forge are not internationalized. The panel text is English only.

RATLC01037445: DB2 error when upgrading from version 3.8 on MySQL to 7.0.2 on DB2 Express

If you migrate from version 3.8 with MySQL database to version 7.0.2 with DB2 Express, you run the bfdbmigrate script to migrate the database.

When you restart the Build Forge engine, the migrated database is started up. You might see a DB2 ALTER TABLE error.

Ignore the DB2 ALTER TABLE error; it is caused by an error in the Build Forge upgrade procedure. The upgrade procedure will be deprecated in a future release of the product.

Workaround: migrate to version 7.0 or 7.0.1, then migrate version 7.0.2.

Oracle 9.x database fails with ORA-01400 error

The following error occurs only if the Management Console is using an Oracle 9.x database, the DBD::Oracle driver, and the ora_ph_type parameter is set to a value that strips trailing blanks.

```
DBD::Oracle::st execute failed: ORA-01400: cannot insert NULL  
into( "BLDFORGE"."BF_RESULT"."BF_ENV" )
```

To fix the error, do the following:

Set the `ora_ph_type` parameter. The value for `ora_ph_type` in `<bf-install>/db.ini` must be set to a value that does not cause the driver to strip trailing blanks. The setting `ora_ph_type=96` is recommended. If set to a value that strips trailing blanks (for example, `SQL_VARCHAR`), you will receive an error. The problem does not occur with Oracle 10.

Quick Report fails to start (Microsoft SQL Server and Oracle databases)

Limitations in JDBC drivers cause the following requirements:

- Oracle: the database name and SID must use the same value (`tnsnames.ora`)
- Microsoft SQLServer: in an ODBC driver, the Database Name and Data Source Name must use the same value.

If these requirements are not met, the Quick Report reporting feature does not work. The requirements are documented in *Build Forge Installation Guide*.

RATLC01021966: Duplicate column values not displayed in Quick Report wizard-generated reports

In wizard-generated reports, column values are not displayed if they duplicate or match the column value of the previous record. This display convention makes it look like report data is missing when it is not.

In a future product release, the ability to hide or display duplicate column data will be provided.

RATLC01023309: Management Console cannot connect to MySQL 5.0.41 database on console start (Windows only)

If Management Console fails to start and connect to the database, it might be caused by an error in the `libmysql.dll` file. To determine this, open the `php_error.log` file located in `C:\<BF_installationdir>\Apache\logs`. If the following error message is present, the error is in `libmysql.dll`.

```
PHP Warning: PHP Startup: Unable to load dynamic  
library 'C:\Program Files\BuildForge\Apache\php\ext\php_mysql.dll' - Invalid access to  
memory location.
```

To fix the problem in `libmysql.dll`, download and copy a new version, as follows:

1. Download `mysql-noinstall-5.0.41-win32.zip` from the MySql Web site, for example:
<http://www.mysql.org/get/Downloads/MySQL-5.0/mysql-noinstall-5.0.41-win32.zip/from/http://mirror.x10.com/mirror/mysql/>
2. In the zip file, locate `\mysql-5.0.41-win32\lib\debug\libmysql.dll`.

3. Stop MySql.
4. Copy `libmysql.dll` to the `<mysql_installdir>\bin` directory.
5. Start MySql.
6. Restart the Management Console.

RATLC01022347: New license server ignored on upgrade

If you enter a different host name for the license server on an upgrade install than you entered when the Management Console was first installed, the installation program ignores the new value.

To enter the host name of the license server after you install the Management Console, use the License Server system setting. In the Management Console, select **Administration** → **System** to access License Server in the list of system settings.

RATLC01020674: Inconsistencies in BOM display for large BOMs

If the BOM for your project is large, you may notice that the category names for a section might not be displayed correctly.

RATLC00501623: Assign hidden option not hiding variable value in logs

If you select the Assign Hidden property when you create a variable, the variable value is displayed in the step log instead of being masked with asterisk (*) characters.

Note

If you export a project, variables with the Assign Hidden property are shown in cleartext in the exported XML file.

This problem will be fixed in a future release of the product.

RATLC01025502: Environment variable names that contain periods

If an environment variable name contains a period, attempts to reference that variable name in another variable fail. Shell-command parsing works differently on different platforms, which makes finding a uniform fix difficult.

Workaround on Windows platforms only:

1. Set an environment variable to the value of the variable name you want.

```
Name: tmp_var      Value: Version_1.1
```

2. Within a step, use the variable as the variable-name portion of an assignment.

```
set $tmp_var = 7
```

When the job runs, a variable `Version_1.1` is created with the value 7.

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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)

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