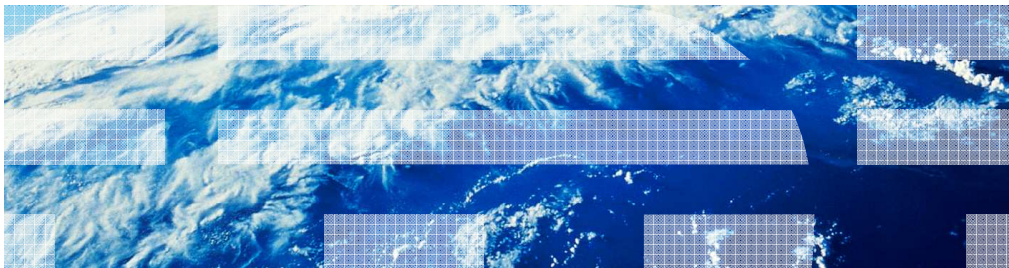


## IBM WebSphere Application Server V8.0.0.2

### Getting the Virtual Member Manager (VMM) data model schemas for properties, entity types and data types



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This presentation describes support for commands on the command line to retrieve VMM data mode schema included in IBM WebSphere Application Server V8.0.0.2.

## ***Overview***

This section will discuss an overview for the commands to retrieve VMM data mode schema.

## Overview

- VMM data Model is a description of the organization of data in a manner that reflects the information structure supported by VMM
- VMM allows to retrieve the different kinds of information related to its data model schema
- To retrieve the VMM schema there is currently a supported API
- There is no command used from the command line to retrieve the schema
- Users have to retrieve the schema through API only
- With this feature, new commands are introduced to support the same

VMM is a model of the organizational entities that serves the basic needs of a variety of applications, and hides from them the disparate repositories that can be used underneath. It consists of the detailed definitions of the entity types that the virtual member manager supports.

## ***Usage scenarios***

These commands are used in the following scenarios.

## Command to retrieve the property schema of an entity type

- Use the **getIdMgrPropertySchema** command to retrieve the property schema.

- **Required parameters**

None.

- **Optional parameters**

- **-id**

- Use this parameter to specify the name of the valid repository. If you do not specify this parameter then the default property schema supported by virtual member manager is returned.

- **-propertyNames**

- Use this parameter to specify the name of one or more properties separated by a delimiter (;). If you do not specify this parameter then all the properties schema will be returned. If propertyNames parameter is specified then entityTypeName parameter must be specified.

- **-entityTypeName**

- Use this parameter to specify the name of a valid entity type for which you want to retrieve the property schema. If you do not specify this parameter then all the supported entity types property schema will be returned.

- **-securityDomainName**

- Use this parameter to specify the name that uniquely identifies the security domain. The default value is admin.

Use the **getIdMgrPropertySchema** command to retrieve property schema for the specified entity type.

## Command to retrieve the property schema of an entity type

- Example
  - \$AdminTask getIdMgrPropertySchema {-id repository\_id -entityTypeName entity\_type -propertyNames list\_of\_properties}

- Sample output

```
{PersonAccount={prop1={isMultiValued=false, dataType=String, nsPrefix=wim, nsURI=http://www.ibm.com/websphere/wim, isRequired=true},  
test1:prop1={isMultiValued=false, dataType=Integer, nsPrefix=test1, nsURI=http://www.ibm.com/websphere/test1, isRequired=true},  
prop2={isMultiValued=false, dataType=Integer, nsPrefix=wim, nsURI=http://www.ibm.com/websphere/wim, isRequired=true }},  
Group={prop3={isMultiValued=false, dataType=String, nsPrefix=wim, nsURI=http://www.ibm.com/websphere/wim, isRequired=false }}}}
```

The slide shows the sample output from getIdMgrPropertySchema command.

## Command to retrieve the entity type schema

- Use the **getIdMgrEntityTypeSchema** command to retrieve the entity type schema.
- **Required parameters**
  - None.
- **Optional parameters**
  - **-id** - Use this parameter to specify the name of the valid repository. If you do not specify this parameter then the default entity type schema supported by virtual member manager is returned.
  - **-entityTypeNames** - Use this parameter to specify the name of one or more valid entity types for which you want to retrieve the property schema. If you do not specify this parameter then all the supported entity types schema will be returned.
  - **-securityDomainName** - Use this parameter to specify the name that uniquely identifies the security domain. The default value is admin.

Use the `getIdMgrEntityTypeSchema` command to retrieve entity type schema.

## Command to retrieve the entity type schema

- Example

```
$AdminTask getldMgrEntityTypeSchema {-id repository_id -entityTypeNames  
list_of_entity_types}
```

- Sample output

```
{PersonAccount={nsPrefix=wim,nsURI=hhttp://www.ibm.com/websphere/wim,  
parentEntityName=loginAccount}, test1:PersonAccount={nsPrefix=test1,  
nsURI=hhttp://www.ibm.com/websphere/wim, parentEntityName=loginAccount},  
Group={nsPrefix=wim, nsURI=hhttp://www.ibm.com/websphere/wim,  
parentEntityName=Party}, MyExtendedEntity={nsPrefix=wim,  
nsURI=hhttp://www.ibm.com/websphere/wim, parentEntityName=Person}}
```

The slide shows the sample output from getldMgrEntityTypeSchema command.



## Command to retrieve the supported data types

- Use the **getIdMgrSupportedDataTypes** command to retrieve the supported data types.
- **Required parameters**
  - None
- **Optional parameters**
  - **-id** - Use this parameter to specify the name of the valid repository. If you do not specify this parameter then the default data types supported by virtual member manager is returned.
  - **-securityDomainName** - Use this parameter to specify the name that uniquely identifies the security domain. The default value is admin.

Use the `getIdMgrSupportedDataTypes` command to retrieve supported data types of VMM.

## Command to retrieve the supported data types

- Example

```
$AdminTask getIdMgrSupportedDataTypes {-id repository_id}
```

- Sample output

String	Byte
Int	DateTime
Boolean	Date
Long	Short
Double	Token
Base64binary	IdentifierType
AnySimpleType	Object
AnyURI	

The slide shows the sample output from `getIdMgrSupportedDataTypes` command.

Section

## ***Summary***

This section contains a summary.

## Summary

- New commands to retrieve the different VMM data model.
- Commands can be used in server and local mode

Commands have been added to retrieve VMM data model schema for properties, entity types and data types.

These commands can be used in both server and local mode.



## Reference material

IdMgrDataModel command group for the AdminTask object

[http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/topic/com.ibm.websphere.nd.multiplatform.doc/info/ae/ae/rxml\\_atidmgrDataModel.html](http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/topic/com.ibm.websphere.nd.multiplatform.doc/info/ae/ae/rxml_atidmgrDataModel.html)

See the reference shown here for additional information about command line interface commands to retrieve VMM data model schema.



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