Performance Management Architect Batch Client User's Guide, 11.1.2.2

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Using Performance Management Architect Batch Client

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Oracle Hyperion EPM Architect Batch Client enables you to combine processes such as data export, metadata loads, data loads, and calculations and kick off these operations during your normal nightly or weekly load process.

The batch client enables you to kickoff processes using external scheduling tools. You can use the batch client to perform many tasks, including:

- Load metadata into Performance Management Architect
- Update security related properties on dimensions and measures
- Load data to applications

The batch client is installed automatically when you install Performance Management Architect. You can run the batch client on Windows platforms. When you install Performance Management Architect, a batch file is automatically created to setup the class paths that are generated during installation.

You can run the Performance Management Architect Batch Client in two modes:

- Command line mode
  - You can enter commands interactively
  - Each command can span multiple lines
  - Command statements are terminated by a semi colon delimiter ‘;’
  - Must use single quotes
  - Commands are executed immediately

- Script mode
  - Executes a series of commands without your interaction
  - You can specify a command file and optionally a result log file at program startup
  - You can schedule the execution of script using a third party scheduler
Launching Batch Client

You can run the Performance Management Architect Batch Client in interactive command line mode or execute a script file specified on the command line.

To launch the Batch Client, select Start, Programs, Oracle EPM System, Foundation Services, Performance Management Architect, Start EPMA Batch Client.

You can also navigate to EPM_ORACLE_INSTANCE\products\Foundation\BPMA\EPMABatchClient and execute the epma-batch-client.bat file using an interactive command line or script.

For example, to launch the batch client in interactive command mode launch the batch file with no parameters:

EPM_ORACLE_INSTANCE\products\Foundation\BPMA\EPMABatchClient\epma-batch-client.bat.

When executing a script the script file name must be specified with the –C option. All additional parameters are optional. For example: EPM_ORACLE_INSTANCE\products\Foundation\BPMA\EPMABatchClient\epma-batch-client.bat -CMyScript.txt

Note: You can specify the script file name and any log file names as relative paths, however the paths must be relative to the EPMABatchClient folder, not the folder in which the batch file was launched.

Command Line Options

You can specify the following arguments when you start the batch client.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-H</td>
<td>Displays batch client help.</td>
</tr>
<tr>
<td>-C</td>
<td>Specifies the name of the script file to execute. For example: -C'C:\Scripts\LightsOut.txt'</td>
</tr>
<tr>
<td>Command</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| -G      | Specifies the language to use. To use this parameter, enter –G x where x is one of the following language codes:  
- DA—Danish  
- DE—German  
- ES—Spanish  
- FR—French  
- IT—Italian  
- JA—Japanese  
- KO—Korean  
- PT_BR—Brazilian Portuguese  
- RU—Russian  
- SV—Swedish  
- TR—Turkish  
- ZH_CN—Simplified Chinese  
- ZH_TW—Traditional Chinese  
For example, -Gfr for French or -Git for Italian.  
If the –G option is not specified the Batch Client attempts to use the current default language from the operating system. If a resource file is not found the Batch Client will use the default, English. If a string is not found in a specific language resource file, the English version will be used. |
| -R      | Specifies the name of the file to write the results to on your machine.  
For example: -R 'C:\LogFiles\ScriptResult.log' |
| -L      | Specifies if commands are logged. The default value is 0.  
Log Commands include:  
Off (Default) = Do not log commands  
On = Log Commands  
For example: -LOn |
| -S      | Stops execution of the script if a command fails. The default value is 1 (true).  
Stop if an error occurs: True  
Continue on Error: False  
For example: -SFalse, continues if an error occurs. |
| -U      | Specifies the user name used to login to Performance Management Architect.  
For example: -U 'Admin' |
| -P      | Specifies the password used to login to Performance Management Architect.  
For example: -Ppassword |
<p>| -V      | Turns script verification on or off. If Validate is on, the script is checked for syntax errors before it is run and the script will abort if any errors are found. The value 'Off' does not validate before execution and 'On' validates the script before executing. The default value is On and validates the script before executing. For example, -V off does not validate the script before execution. |</p>
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-O</td>
<td>Validate Only. If specified, the Batch Client validates the script but, pass or fail, it will not run the script. This can be used to test a script for syntax errors without running it.</td>
</tr>
</tbody>
</table>
| -N      | Specifies the character encoding to use for the output displayed on the console. For example: -Ncp866 For Windows environments, the default is the locale's code page (which can be determined using the `chcp` command). For UNIX environments, the default is UTF-8.  
**Note:** For Japanese Windows environments, you must set the code page to MS932. For example, -NM932. |

**Note:** For On/Off command line parameters, such as –S, the following values are acceptable: 0 or 1, Y or N, Yes or No, True or False, On or Off. For example, these values are all valid: -S0, -SY, -SNo, -STrue, -SOff.

The following excerpt shows an example of how command line options are used.

```bash
epma-batch-client -H
epma-batch-client -C"C:\EPM_ORACLE_INSTANCE\EPMA\Commands.txt"
-R"C:\EPM_ORACLE_INSTANCE\EPMA\ResultFile.txt" -LOn -SFalse
-Uadmin -Ppassword
```

## Return Codes

When the Batch Client exits it returns a result code to the calling program based on the exit condition of the script. There are two possible scenarios based on the StopOnError setting.

**StopOnError = False (-S0)**

If StopOnError is false the return code indicates general success or failure.

0 = success (no errors)

-1 = failure (one or more errors occurred)

**StopOnError = True (-S1)**

When StopOnError is true the Batch Client exit when an error occurs and returns a code based on the following table. By default, StopOnError is set to True.

The batch client returns the following result codes in the event of success or failure.

<table>
<thead>
<tr>
<th>Command</th>
<th>Command Code</th>
<th>Class</th>
<th>Class Code</th>
<th>Return Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>General Error</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>-1</td>
</tr>
<tr>
<td>Validation Error</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1</td>
</tr>
<tr>
<td>Parse Error</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>100</td>
</tr>
<tr>
<td>Command</td>
<td>Command Code</td>
<td>Class</td>
<td>Class Code</td>
<td>Return Code</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------</td>
<td>-----------------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Command Line Error</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>4</td>
</tr>
<tr>
<td>Copy</td>
<td>15</td>
<td>Application</td>
<td>1</td>
<td>1501</td>
</tr>
<tr>
<td>Copy</td>
<td>15</td>
<td>Dimension</td>
<td>2</td>
<td>1502</td>
</tr>
<tr>
<td>Create</td>
<td>1</td>
<td>Application</td>
<td>1</td>
<td>101</td>
</tr>
<tr>
<td>Create</td>
<td>1</td>
<td>Dimension</td>
<td>2</td>
<td>102</td>
</tr>
<tr>
<td>Create</td>
<td>1</td>
<td>Member</td>
<td>3</td>
<td>103</td>
</tr>
<tr>
<td>Create</td>
<td>1</td>
<td>Association</td>
<td>10</td>
<td>110</td>
</tr>
<tr>
<td>Debug</td>
<td>21</td>
<td>N/A</td>
<td>N/A</td>
<td>2100</td>
</tr>
<tr>
<td>Delete</td>
<td>2</td>
<td>Application</td>
<td>1</td>
<td>201</td>
</tr>
<tr>
<td>Delete</td>
<td>2</td>
<td>Dimension</td>
<td>2</td>
<td>202</td>
</tr>
<tr>
<td>Delete</td>
<td>2</td>
<td>Member</td>
<td>3</td>
<td>203</td>
</tr>
<tr>
<td>Delete</td>
<td>2</td>
<td>Association</td>
<td>10</td>
<td>210</td>
</tr>
<tr>
<td>Detach</td>
<td>16</td>
<td>Dimension</td>
<td>2</td>
<td>1602</td>
</tr>
<tr>
<td>Exclude</td>
<td>3</td>
<td>Member</td>
<td>3</td>
<td>303</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>DataSynchronization</td>
<td>4</td>
<td>404</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>Deploy</td>
<td>5</td>
<td>405</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>DimensionSynchronization</td>
<td>6</td>
<td>406</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>Import</td>
<td>7</td>
<td>407</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>Redeploy</td>
<td>9</td>
<td>409</td>
</tr>
<tr>
<td>Execute</td>
<td>4</td>
<td>Validate</td>
<td>12</td>
<td>412</td>
</tr>
<tr>
<td>Exit</td>
<td>5</td>
<td>N/A</td>
<td>0</td>
<td>500</td>
</tr>
<tr>
<td>Include</td>
<td>6</td>
<td>Dimension</td>
<td>2</td>
<td>602</td>
</tr>
<tr>
<td>Include</td>
<td>6</td>
<td>Member</td>
<td>3</td>
<td>603</td>
</tr>
<tr>
<td>Insert</td>
<td>7</td>
<td>Member</td>
<td>3</td>
<td>703</td>
</tr>
<tr>
<td>Login</td>
<td>8</td>
<td>N/A</td>
<td>0</td>
<td>800</td>
</tr>
<tr>
<td>Logout</td>
<td>9</td>
<td>N/A</td>
<td>0</td>
<td>900</td>
</tr>
<tr>
<td>Move</td>
<td>19</td>
<td>Member</td>
<td>3</td>
<td>1903</td>
</tr>
<tr>
<td>Option</td>
<td>20</td>
<td>N/A</td>
<td>0</td>
<td>2000</td>
</tr>
<tr>
<td>Command</td>
<td>Command Code</td>
<td>Class</td>
<td>Class Code</td>
<td>Return Code</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------</td>
<td>---------------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Quit</td>
<td>10</td>
<td>N/A</td>
<td>0</td>
<td>1000</td>
</tr>
<tr>
<td>Remove</td>
<td>11</td>
<td>Dimension</td>
<td>2</td>
<td>1102</td>
</tr>
<tr>
<td>Remove</td>
<td>11</td>
<td>Member</td>
<td>3</td>
<td>1103</td>
</tr>
<tr>
<td>Rename</td>
<td>18</td>
<td>Member</td>
<td>3</td>
<td>1803</td>
</tr>
<tr>
<td>Set</td>
<td>12</td>
<td>N/A</td>
<td>0</td>
<td>1200</td>
</tr>
<tr>
<td>Share</td>
<td>17</td>
<td>Dimension</td>
<td>2</td>
<td>1702</td>
</tr>
<tr>
<td>Update</td>
<td>13</td>
<td>Application</td>
<td>1</td>
<td>1301</td>
</tr>
<tr>
<td>Update</td>
<td>13</td>
<td>DimensionAssociation</td>
<td>8</td>
<td>1308</td>
</tr>
<tr>
<td>Update</td>
<td>13</td>
<td>Dimension</td>
<td>2</td>
<td>1302</td>
</tr>
<tr>
<td>Update</td>
<td>13</td>
<td>Member</td>
<td>3</td>
<td>1303</td>
</tr>
<tr>
<td>Variable</td>
<td>14</td>
<td>N/A</td>
<td>0</td>
<td>1400</td>
</tr>
</tbody>
</table>

In a DOS batch file or Windows command file the error can be checked as follows:

```bash
Call epma-batch-client.bat .\scripts\MyScript.txt
IF ERRORLEVEL 0 goto ON_SUCCESS
IF ERRORLEVEL 100 goto PARSE_ERROR
IF ERRORLEVEL 101 goto APP_CREATE_FAILED
```

## Logging

The batch client provides several levels of logging through result and trace files. Result files contain details of the commands you enter in the command window and their execution status, error, or warning messages. Trace files contain a detail stack trace that is useful for debugging purposes.

The batch client uses Oracle Diagnostics Logging (ODL) for logging. All of the configuration parameters are stored in `logger.xml` in the `conf` directory. For example, `EPM_ORACLE_INSTANCE\products\Foundation\BPMA\EPMABatchClient\output`.

The following excerpt shows an example of a `logger.xml` file.

```xml
<logging_configuration>
  <log_handlers>
    <log_handler name="traceFile" class="oracle.core.ojdl.logging.ODLHandlerFactory">
      <property name="path" value="${user.dir}/output/EPMABatchClientTrace.log"/>
      <property name="maxFileSize" value="1000000"/>
      <property name="maxLogSize" value="5000000"/>
      <property name="useSourceClassAndMethod" value="true"/>
      <property name="encoding" value="UTF-8"/>
    </log_handler>
    <log_handler name="console" level="ALL">
      <property name="name" value=""/>
      <property name="level" value="ALL"/>
    </log_handler>
  </log_handlers>
</logging_configuration>
```
class="java.util.logging.ConsoleHandler"
formatter="com.hyperion.bpma.logger.GenericFormatter"/>

<log_handler name="resultsFile"
class="com.hyperion.bpma.logger.GenericFileHandler"
formatter="com.hyperion.bpma.logger.GenericFormatter"
level="ALL"/>
</log_handlers>

<loggers>

<logger name="BatchClient.trace" level="ALL" useParentHandlers="false">
    <handler name="traceFile"/>
</logger>

<logger name="BatchClient.console" level="INFO" useParentHandlers="false">
    <handler name="console"/>
</logger>

<logger name="BatchClient.results" level="INFO" useParentHandlers="false">
    <handler name="resultsFile"/>
</logger>
</loggers>
</logging_configuration>

To help you determine if the command was successful, the associated JobID and the JobID URL is logged for the following commands:

- Execute Deploy
- Execute ReDeploy
- Execute Validate
- Execute DataSynchronization
- Execute Import
- Copy Application
- Detach Dimension
- Share Dimension

Note: You have the option to use standard Formatters available in Java 1.6. For example, you can use java.util.logging.SimpleFormatter instead of com.hyperion.bpma.logger.GenericFormatter.
A command file is an input file for the batch client. It can contain one or more of the following:

- Commands
- Variables, declarations, and assignments
- Comments

The following excerpt is an example of a command file.

```plaintext
// Test Script
set bpmaserverurl=http://localhost/hyperion-bpma-server;
set workspaceurl=http://localhost:19000/workspace;

login admin,password;

set ApplicationName = 'Sample';

// Delete some members
Delete Member
    Properties(MemberName, DimensionName, ParentName, RemoveChildren)
    Values('M1-1-1', 'A1', 'M1-1', true);

Delete Member
    Properties(MemberName, DimensionName, ParentName, RemoveChildren)
    Values('M1', 'A1', '#root', false);

Delete Member
    Properties(MemberName, DimensionName, ParentName, RemoveChildren)
    Values('M1', 'A1', '#root', true);

Delete Dimension
    Properties(DimensionName)
    Values('A1');

Delete Dimension
```
Properties(DimensionName)
Values('E1');

Delete Application
Properties(ApplicationName, WaitForCompletion)
Values('TestApp1');

set ApplicationName = '';

// Delete shared dims
Delete Dimension
   Properties(DimensionName)
      Values('S1');

quit;

Most of the commands in a command file execute immediately. However, EXECUTE commands can take a long time to execute and support a _WaitForCompletion_ parameter. All execute commands support this parameter, except for DIMSYNCRONIZATION. For example, you can use a _WaitForCompletion_ parameter to force the batch client to wait for command execution.

The following command shows an example of the _WaitForCompletion_ parameter. In this case, the administrator is executing a data synchronization command, which can take longer to run. Other commands that take longer to run include imports and application deployments.

```plaintext
execute datasynchronization
   parameters(DataSynchronizationName, DataTransformationOperator,
              DataTransformationValue, FileName, ValidateOnly, WaitForCompletion)
   values('CommaSync3', '*', '1.2345', '', 'false', 'true');
```

**Variables**

You can define variables and also call them in scripts. Characteristics of variables include:

- Variables have a name and a single value type
- The value of a variable can be any data type
- You can define a variable once and use it in multiple places
- You can change the value of a variable between commands
- Variable names are case sensitive
- You can use the keyword, `var` to define a variable, and refer to the variable using $`

The following excerpt shows an example of using variables to create a shared dimension.

```plaintext
// Create Shared Dimension Script
set bpmaserverurl=http://localhost/hyperion-bpma-server;
set workspaceurl=http://localhost:19000/workspace;

login admin,password;
var DimType='Scenario';
// Create a shared dimension
create Dimension
```
Properties(DimensionName, DimensionDescription, DimensionType)
Values('S1', 'New Scenario', '$DimType');

There are three types of variables:

- **User**
  
  User variables are assigned using the keyword, `var`. For example:
  
  ```javascript
  var variable1 = 'abc';
  ```

- **System**
  
  System variables are assigned using the `set` command. For example:
  
  ```javascript
  set bpmaserverurl='http://localhost/hyperion-bpma-server';
  set workspaceurl='http://localhost:19000/workspace';
  ```

- **Object**
  
  Object variables are assigned using the `set` command. For example:
  
  ```javascript
  set ApplicationName = 'Comma';
  set dimension=Account;
  ```

**Comments**

You can comment out any line in a script by using two forward slashes `//` at the beginning of the line. If a line spans into multiple lines, you must comment out each line separately. For example:

```javascript
//execute datasynchronization
//  parameters(DataSynchronizationName, DataTransformationOperator, DataTransformationValue, FileName,
//  ValidateOnly, WaitForCompletion)
//  values('CommaSync3', '*', '1.2345', '', 'false', 'true');
```
Supported command classes include:

- APPLICATION
- ASSOCIATION
- DIMENSION
- DIMENSIONASSOCIATION
- DIMSYNCHRONIZATION
- MEMBER
- IMPORT
- DEPLOY
- DATASYNCHRONIZATION
- REDEPLOY
- VALIDATE

**Tip:** Use the constant `#root` for the root member of a dimension. Use the constant `#shared` for the application name for commands targeted at the Shared Library.
**Scripts**

Scripts are a collection of commands that can be executed sequentially. Scripts can have commands in any sequence, however, certain initialization commands like `login` must execute before others. Each command in a script is separated by a semi colon ‘;’. Commands can contain white spaces and span multiple lines.

**Commonly Used Commands**

**Subtopics**

- **Option Commands**
- **Login / Logout Commands**
- **Copy Commands**
- **Create Commands**
- **Create Association Commands**
- **Delete Association Commands**
- **Delete Commands**
- **Detach Dimension Commands**
- **Exclude Commands**
- **Execute Commands**
- **Include Commands**
- **Insert Commands**
- **Move Commands**
- **Rename Commands**
- **Remove Commands**
- **Share Dimension Commands**
- **Update Commands**

The following sections provide examples of commonly used commands.

**Option Commands**

You can use the Option command to dynamically modify command line options during the execution of a script. You can change the following options:

```plaintext
StopOnError
option StopOnError = true;

EchoComments
  option EchoComments = true;

LogCommands
  option LogCommands = true;
```
Login / Logout Commands

Subtopics

- login
- Logout
- Quit
- Exit

login

Logs into Performance Management Architect.

If you login using a script, enter:

Login admin,password;

If you login using a command line, enter:

Login;

Login Through a Proxy

You can use the SET command and define the following variables to login through a proxy.

```plaintext
set ProxyHost='http://localhost/myProxy';
set ProxyPort='8080';
set ProxyUsername='myProxyUser';
set ProxyPassword='myProxyPassword';
```

ProxyHost — The proxy host name.

ProxyPort — The proxy port number.

ProxyUsername — The user name to be authenticated.

ProxyPassword — The user password.

Login Using Single Sign On (SSO) such as Oracle Access Manager

You have two options to login using single sign on:

- Basic/Digest authentication
  
  For Basic/Digest authentication, set the SSOType to Basic as follows:

  ```plaintext
  set SSOType='Basic';
  ```

  For pre-authentication (used for optimization), define the AuthenticationPreemptive as follows:

  ```plaintext
  set AuthenticationPreemptive='True';
  ```

- Form based authentication
  
  For form based authentication, set the SSOType to Form as follows:
set SSOType='Form';

If you are using Form based authentication, you must define the field names for where the username and password should be posted as follows:
set SSOFormUsernameField='userid';
set SSOFormPasswordField='password';

Note: The default field name is 'userid' and 'password'.

Logout
Logs out of Performance Management Architect.
Logout;

Quit
Closes the batch client.
Quit;

Exit
Closes the batch client.
Exit;

Copy Commands

Subtopics
- Application
- Dimension

Application
The Copy Application command is the same as the "Duplicate As New" command available in the Application Library.

Copy Application
Properties ( ApplicationName, CopyApplicationToName, ApplicationDescription, ApplicationType)
Values('Comma', 'CommaCopy', 'Copied App Desc', 'Consolidation');

ApplicationName—The name of an existing application.
CopyApplicationToName—The name of the new duplicated application.
ApplicationDescription—The application description.
ApplicationType—Type of application. Valid values are: Generic, Consolidation, Planning, Profitability - Standard, Profitability - Detailed, Essbase ASO, or Essbase BSO.

**Dimension**

Provides a way to copy dimensions within the Shared Library, within an application, or between the Shared Library and an application. You cannot copy a dimension directly from one application to another.

Copy Dimension
Properties(ApplicationName, DimensionName, TargetDimensionName, TargetDimensionDescription, destApplicationName)
Values('#Shared', 'Scenario','CopyScenario', 'Copy of Scenario Dim', Comma');

ApplicationName—The name of an existing application.
DimensionName—The name of an existing dimension.
TargetDimensionName—The name of the target dimension.
TargetDimensionDescription—The name of the target dimension.
destApplicationName—The name of the destination application.

**Create Commands**

**Subtopics**

- Application
- Dimension
- Member

**Application**

Creates a new, empty application with the specified name.

Create Application
Properties(ApplicationName, ApplicationDescription, ApplicationType)
Values('Comma', 'Description for Comma', 'Consolidation');

Application Name—A string containing a valid name for the application.
ApplicationDescription—A string containing a valid name for the application.
ApplicationType—Supports the following values:

- Generic
- Consolidation
- Planning
- Enterprise Analytics
  For Essbase ASO applications
Essbase Analytics
For Essbase BSO applications

- Profitability
- Profitability - Detailed

**Dimension**

Creates a new, empty dimension in the specified application or in the Shared Library.

**Create Dimension**

```
Create Dimension
 properties(ApplicationName, DimensionName, DimensionDescription, DimensionType)
 Values('Comma','Test_Account','Test Account','Account');
```

**ApplicationName**—The name of an existing application. Use #Shared to create a dimension in the Shared Library.

**DimensionName**—A valid name for the dimension.

**DimensionType**—Dimension Type can be any one of the following:

- Account
- Alias
- AllocationType
- Attribute
- ConsolidationMethod
- Country
- Currency
- Entity
- Generic
- ICP
- Measure
- MeasuresDetailed
- Scenario
- SecurityClass
- SmartList
- Time
- UDA
- Value
- Version
- View
- Year
**Member**

Creates a new member in the specified dimension.

Create Member
Properties (ApplicationName, DimensionName, ParentName, MemberName, MemberDescription)
Values ('Comma', 'Member_Dim', '#root', 'TestMember1', 'Description for TestMember1');

- **ApplicationName**—The name of an existing application. Use #Shared to create a dimension in the Shared Library.
- **DimensionName**—The name of an existing dimension.
- **ParentName**—The name of the parent under which to insert the newly created member. Use #Root to add a new member at the top level of the tree.
- **MemberName**—A valid name for the new member.
- **MemberDescription**—A description for the new member.

**Create Association Commands**

Creates an association between two dimensions. If the base dimension is shared the associated dimension must be a shared dimension.

Create Association
Properties (ApplicationName, DimensionName, AssociatedDimensionName, PropertyName, PropertyDescription)
Values ('Comma', 'Scenario', 'AttribDim', 'AttribProp', 'Attrib Prop Desc');

- **ApplicationName**—The name of an existing application.
- **DimensionName**—The name of an existing dimension.
- **AssociatedDimensionName**—The name of the dimension that you are associating with.
- **PropertyName**—The name of the property to update. (You can list as many properties as desired, however, you must include a valid value for the property.)
- **PropertyDescription**—An optional parameter that you can use to enter a comment or property description.

**Delete Association Commands**

Deletes an existing dimension association.

Delete Association
Properties (ApplicationName, DimensionName, PropertyName)
Values ('Comma', 'Scenario', 'SecurityClass');

- **ApplicationName**—The name of an existing application.
- **DimensionName**—The name of an existing dimension.
- **PropertyName**—The name of the property to update. (You can list as many properties as desired, however, you must include a valid value for the property.)
Delete Commands

Subtopics

- Application
- Association
- Dimension
- Member

Application

Deletes the specified application.

Delete Application
Properties(ApplicationName, WaitForCompletion)
Values('Comma');

ApplicationName—The name of an existing application.
WaitForCompletion—If set to true, the Batch Client waits for the job to finish. If set to false, the Batch Client submits the job and continues. The default value is false. Allowed values:

- True
- False

Association

Deletes an existing dimension association.

Delete Association
Properties(ApplicationName, DimensionName, PropertyName)
Values('Comma', 'Scenario', 'SecurityClass');

ApplicationName—The name of an existing application.
DimensionName—The name of an existing dimension.
PropertyName—The name of the property to update. (You can list as many properties as desired, however, you must include a valid value for the property.)

Dimension

Deletes the specified dimension.

Delete Dimension
Properties(ApplicationName, DimensionName)
Values('Comma','C_Scenario');

ApplicationName—The name of an existing application. Use #Shared to delete a dimension in the Shared Library.
DimensionName—The name of an existing dimension.
**Member**

Deletes the specified member and optionally all of the member's children.

**Delete Member**

Properties (ApplicationName, DimensionName, ParentName, MemberName, RemoveChildren)

Values ('Comma', 'C_Account', '#root', 'TestMember1', 'false');

**ApplicationName**—The name of an existing application. Use #Shared to delete a member from a dimension in the Shared Library.

**DimensionName**—The name of an existing dimension.

**ParentName**—The name of the parent under which to delete the member. Use #Root when deleting a member at the top level of the tree.

**MemberName**—The name of the member to delete.

**RemoveChildren**—Indicates if any children under the member being deleted should also be deleted. Allowed values:

- True
- False

**Detach Dimension Commands**

Converts a shared dimension in an application to a local dimension.

**Detach Dimension**

Properties (ApplicationName, DimensionName, RetainFilteredStructure, RetainPropertyOverrides, waitForCompletion)

Values ('Comma', 'Period', 'true', 'true', 'true');

**ApplicationName**—The name of an existing application.

**DimensionName**—The name of an existing dimension.

**RetainFilteredStructure**—If set to true, the current view of the dimension is kept and any excluded or otherwise filter members will not be present in the local copy of the dimension. If set to false, all of the members of the dimension will be present in the local copy of the dimension. Allowed values:

- True
- False

**RetainPropertyOverrides**—If set to true, all of the property overrides will be maintained, otherwise the current values from the shared version of the dimension will be used. Allowed values:

- True
- False

**WaitForCompletion**—If set to true, the Batch Client waits for the job to finish. If set to false, the Batch Client submits the job and continues. Allowed values:
Exclude Commands

Member
Filters out a member from a shared dimension.

Exclude Member
Properties(ApplicationName, DimensionName, ParentName, MemberName)
Values('Comma', 'Period', '#root', 'P1');

ApplicationName—The name of an existing application. Use cannot use #Shared as the target for excluding a dimension.
DimensionName—The name of an existing dimension in the Shared Library to exclude.
ParentName—Name of the Parent of the member to exclude.
MemberName—Name of the member to exclude.

Execute Commands

Subtopics
- Import (into an application or Shared Library)
- Dimension Synchronization (to or from the Shared Library)
- Deployment
- Redeployment
- Data Synchronization
- Validation

You can use EXECUTE commands to run jobs.

Import (into an application or Shared Library)
Executes an existing Import Profile.
For flat files, the syntax is:

Execute Import
Parameters(importtype, profilename, filename, waitforcompletion)Values('flatfile', 'Comma', '.\AppFiles\CommaApp.ads', 'true');

For interface tables, the syntax is:

Execute Import
Parameters(importtype, profilename, waitforcompletion)
Values('InterfaceTables', 'intapp', 'true');
For Data Relationship Management, the syntax is:

```
Execute Import
Parameters(importtype, profilename, waitforcompletion)
Values('DRM', 'DRM Profile', 'true');
```

**ImportType**—The type of import to perform. Allowed values:

- FlatFile
- InterfaceTables
- DRM (Data Relationship Management)

**ProfileName**—The name of an existing import profile.

**FileName**—The name of the flat file to import, if doing a flat file type import.

**Note:** If you are importing an interface table or a Data Relationship Management file, you do not use the FileName parameter; it is only used for flat file imports.

**WaitForCompletion**—If set to true, the Batch Client waits for the job to finish. If set to false, the Batch Client submits the job and continues. Allowed values:

- True
- False

---

**Dimension Synchronization (to or from the Shared Library)**

Synchronizes a dimension to or from the Shared Library

```
Execute Dimensionsynchronization
Parameters(SourceApplicationName, DestApplicationName, DestDimensionName, ReplaceMode)
Values('appName', 'DestAppName', 'DimName', 'true');
```

**ApplicationName**—The name of an existing application. You cannot use #Shared as the application name for a dimension synchronization.

**DimensionName**—The name of an existing dimension in the application.

**SharedDimensionName**—The name of an existing dimension in the Shared Library.

**SyncToApp**—A value of true indicates the shared dimension is synchronized to the application, while a value of false indicates that application is synchronized to the Shared Library. Allowed values:

- True
- False

**ReplaceMode**—A value of true indicates that the dimension synchronization will use Replace mode, while a value of false indicates that it will use Merge mode. Allowed values:

- True
- False
**Deployment**

Deploys an application to a specified product.

Execute Deploy

Parameters (ApplicationName, InstanceName, ApplicationServer, HubProject, ClearAll, CheckIntegrity, waitforcompletion, purgeTransactions, deployOption, Notes)

Values ('AppName', 'HFM931', 'localhost:1423', 'Default Application Group', 'false', 'false', 'true', 'true', 'AppView', 'deploy comments sample');

**ApplicationName**—The name of an existing application. You cannot use #Shared as the application name for a deployment.

**InstanceName**—Name of the instance to deploy to.

**ApplicationServer**—Name of the application server to deploy to.

**HubProject**—Oracle Hyperion Shared Services project to add the deployed application to.

**ClearAll**—Deletes all dimension members in the application database and any corresponding data, journals, and intercompany transactions. (Available for Consolidation applications only.) Allowed values:

- True
- False

**CheckIntegrity**—Checks the metadata against the data to ensure integrity. (Available for Consolidation applications only.) Allowed values:

- True
- False

**PurgeTransactions**—Purges the transaction history. A value of True will purge the history, and a value of False will not. Allowed values:

- True
- False

**deployOption**—Specifies the type of deployment that you want to perform. The default value is AppView, which deploys the application only.

**WaitForCompletion**—If set to True, the Batch Client waits for the job to finish. If set to False, the Batch Client submits the job and continues. Allowed values:

- True
- False

For Planning applications:

**datasourceName**—Creates a data source with the name that you specify. This value is a string.

**CreateOutline**—Creates the Essbase outline if you are deploying the application for the first time. Allowed values:

- True
RefreshOutline—Refreshes the application database after changing the application structure. Allowed values:

- True
- False

CreateSecurityFilters—Stores access permissions in an encrypted data file (Essbase.sec). Allowed values:

- True
- False

SharedMembersSecurityFilters—Applies access permissions to shared members. Allowed values:

- True
- False

ValidateSecurityFilterLimit—Identifies security filters that exceed the Oracle Essbase security filter limit of 64 KB per row. This validates filter size to ensure it does not exceed the size limit before building Oracle Essbase security filters. Allowed values:

- True
- False

Notes—Optionally stores any comments or notes that you may want to add regarding the deployment.

**Redeployment**

Redeploys an application to the product server.

```execute redploy
execute redeploy
parameters(applicationName, instanceName, hubProject, clearAll, checkIntegrity, waitForCompletion, purgeTransactions, deployOption, escapeValidateRules, notes)
values('AppName', 'HubProj', 'false', 'false', 'true', 'true', 'AppView', 'true', 'Comments on redeployment');
```

See “Deployment” on page 29 example for valid values.

When you redeploy an application, the `deployOption` allowed values differ from deployment for Oracle Hyperion Planning and Oracle Hyperion Financial Management applications. Allowed values:

- AppView—Deploy the application only. (This setting is the default.)
- Rules—Deploy calculation rules.
- All—Deploy calculation rules and the application.
For all other application types, the only value allowed is `AppView`.

## Data Synchronization

Executes an existing data synchronization profile.

```plaintext
Execute DataSynchronization
Parameters(DataSynchronizationName, DataTransformationOperator,
DataTransformationValue, FileName, ValidateOnly, WaitForCompletion)
Values('CommaSync3', '*', '1.2345', '', 'false', 'true');
```

- **DataSynchronizationName**—Name of the Data Synchronization profile to execute.
- **DataTransformationOperator**—Valid values are:
  - None
  - `'*'` (Multiply)
  - `'/'` (Divide)
  - `'+'` (Add)
  - `'-'` (Subtract)
- **DataTransformationValue**—Value to use in conjunction with the **DataTransformationOperator** to modify the data values.
- **FileName**—If the synchronization uses an external source file for the source of the synchronization, the location of the external source file. The location must be a URL location in which your web server has access. For example, http:\server\file.dat.
- **ValidateOnly**—Validates the data synchronization without executing it.
- **WaitForCompletion**—If set to true, the Batch Client waits for the job to finish. If set to false, the Batch Client submits the job and continues. Allowed values:
  - True
  - False

In addition to the above parameters, there are also data load option parameters. Data load option parameters are:

- Dynamic
- Retrieved from the registry
- Parameter names differ based on the application type
- All parameters are case sensitive, unlike the other parameters
- All values are case sensitive

For Planning, there is one parameter: `dataSyncLoadOptionHpMode`. Allowed values:

- ADD
- SUBTRACT
For Essbase ASO, there is one parameter: `dataSyncLoadOptionAsoMode`. Allowed values:

- ADD
- SUBTRACT
- OVERWRITE

For Essbase BSO, there is one parameter: `dataSyncLoadOptionBsoMode`. Allowed values:

- ADD
- SUBTRACT
- OVERWRITE

For Planning, Essbase ASO, and Essbase BSO applications, the default value is OVERWRITE.

For Consolidation, there are two parameters:

- `dataSyncLoadOptionHfmMode`—Allowed values:
  - merge
  - replace
  - accumulate
  The default value is `merge`.

- `dataSyncLoadOptionHfmAccumulateInFile`—Allowed values:
  - True
  - False
  The default is false.

**Note**: Profitability and Profitability - Detailed applications do not support data load options.

**Validation**

Runs an application validation. As long as the StopOnError option is set true the script will end if the validation fails.

```java
Execute Validate
Parameters(ApplicationName, ValidateType)
  Values('Comma1', 'All');
```

**AppName**—Name of existing application.

**ValidateType**—Type of validation that you want to perform. For example, validate the application only, business rules, or all (application and rules). Allowed values:

- AppView
Rules

All

Include Commands

Dimension

Adds an existing dimension from the Shared Library to the specified application. The dimension can be added as a shared dimension or copied to the application as a local dimension.

Include Dimension
Properties(DimensionName, IncludeAsShared)
Values('C_Alias', 'true');

ApplicationName—The name of an existing application. Use cannot use #Shared as the target for including a dimension.

DimensionName—The name of an existing dimension in the Shared Library to include.

IncludeAsShared—Use a value of true to include the dimension as a shared dimension that is still linked to the source dimension in the Shared Library. Use a value of false to include a copy of the dimension that is separate from the dimension in the Shared Library. Allowed values:

- True
- False

Insert Commands

Insert Member

Inserts a copy of a member as a shared member. You can only use the Insert Member command on local dimensions and Shared Library dimensions. You cannot insert members in a shared dimension in an application.

Insert Member Properties(DimensionName, ParentName, InsertMemberName, MemberToInsertName)
Values('Account', 'Par1', 'Mem1', 'Mem2');

ApplicationName—The name of an existing application. Use #Shared to work with a member in a dimension in the Shared Library.

DimensionName—The name of an existing dimension.

ParentName—Name of the Parent of the member to insert under.

InsertMemberName—Name of the member to insert the member under.

MemberToInsertName—Name of the shared member to be inserted.
Move Commands

Move Member

Moves a member from one location in the dimension structure to another. You can only use the Move Member command on local dimensions and Shared Library dimensions. You cannot move members in a shared dimension in an application.

Move Member Properties
- ApplicationName—The name of an existing application. Use #Shared to work with a member in a dimension in the Shared Library.
- DimensionName—The name of an existing dimension.
- FromParentName—Name of the parent of the member that you want to move.
- MemberName—Name of the member that you want to move.
- ToParentName—Name of the parent to move the member under.
- InsertAfterMember—Indicates which child, under ToParentName, the member should be inserted after. This can be set to the special value '#none' indicating the member should be inserted as child one. This will affect the sort order for the member being inserted and all members after it.

Rename Commands

Rename Member

Renames a member and all shared copies of the member. You can only use the Rename Member command on local dimensions and Shared Library dimensions. You cannot rename members in a shared dimension in an application.

Rename Member Properties
- ApplicationName—The name of an existing application. Use #Shared to work with a member in a dimension in the Shared Library.
- DimensionName—The name of an existing dimension.
- ParentName—Name of the Parent of the member that you want to rename.
- MemberName—Name of the existing member to rename.
- NewMemberName—The new name for the member.
Remove Commands

Subtopics
- Remove Member (Application or Shared Library)
- Remove Dimension

Remove Member (Application or Shared Library)
Removes a member from the specified dimension but does not delete it. You can only use the Remove Member command to remove a shared dimension in an application.

Remove Member
Properties(DimensionName, ParentName, MemberName)
Values('Account', 'Mem1', 'Mem2');

- ApplicationName—The name of an existing application. Use #Shared to work with a member in a dimension in the Shared Library.
- DimensionName—The name of an existing dimension.
- ParentName—Name of the Parent of the member to be removed.
- MemberName—Name of the member to remove.

Remove Dimension
Removes a shared dimension from an application.

Remove Dimension
Properties(ApplicationName, DimensionName, Force)
Values('Comma', 'Period', 'true');

- ApplicationName—The name of an existing application. Use #Shared to work with a member in a dimension in the Shared Library.
- DimensionName—The name of an existing dimension.
- Force—If set to true, the dimension is removed even if it is currently associated with other dimensions in the application. If set to false, the remove will fail if the dimension is associated with other dimensions in the application. Allowed values:
  - True
  - False

Share Dimension Commands
Converts a local dimension to either a new shared dimension or merges it with an existing dimension.

Share Dimension
Properties(ApplicationName, DimensionName, ShareAsNew, SharedDimensionName, MergeAsShared,
ApplicationName—The name of an existing application.

DimensionName—The name of an existing dimension.

ShareAsNew—If set to true, the SharedDimensionName and MergeAsShared properties are ignored as they do not apply when sharing a dimension as new. Allowed values:

- True
- False

SharedDimensionName—If set to false, you must supply the name of the dimension in the Shared library to share. Allowed values:

- True
- False

MergeAsShared—If set to true, the dimension being shared will be merged with the target dimension. If set to false, the target dimension will be replaced by the dimension being shared. Allowed values:

- True
- False

WaitForCompletion—If set to true, the Batch Client waits for the job to finish. If set to false, the Batch Client submits the job and continues. Allowed values:

- True
- False

### Update Commands

**Subtopics**

- Application
- Dimension
- Member
- Dimension Association

If you use the UPDATE script commands to modify application, dimension, or member property values, you must use the *Property Name* and not the Property Label displayed in the Performance Management Architect Property Grid. Property labels and names are documented in the appendixes of the *Oracle Hyperion Enterprise Performance Management Architect Administrator’s Guide*. The following script shows an example:

```
Update Member Properties(DimensionName, ParentName, MemberName, AggregationWeight, NumDecimalPlaces)
```
In this example DimensionName, ParentName and MemberName are all standard script items, however, AggregationWeight and NumDecimalPlaces are Oracle Hyperion EPM Architect member level properties.

**Application**

Updates one or more properties of the specified application.

Update Application
Properties(ApplicationName, ValidationAccount)
Values('Comma', 'Validation');

**Dimension**

Updates one or more properties of the specified dimension.

Update Dimension
Properties(ApplicationName, DimensionName, PropertyName)
Values('Comma', 'C_Entity', 'Validation');

**Member**

Updates one or more properties of the specified member.

Update Member
Properties(ApplicationName, DimensionName, ParentName, MemberName, ValidationAccount)
Values('Comma', 'C_Entity', 'El', 'El-1', 'Validation');
ApplicationName—The name of an existing application. Use #Shared to update a member in a dimension in the Shared Library.

DimensionName—The name of an existing dimension.

ParentName—Name of the Parent of the member to update.

MemberName—Name of the member to update.

PropertyName—The name of the property to update. (You can list as many properties as desired, however, you must include a valid value for the property.)

**Dimension Association**

Activates all of the standard dimension associations based on the application type and what dimensions are in the application.

Update Dimensionassociation
Properties(activateallforapplication) Values('true');

ApplicationName—The name of an existing application. You cannot update property values on #Shared.

ActivateAllForApplication—Indicates if all associations should be activated for the specified application. Allowed values:

- True
- False
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