### Preface

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This preface describes the document accessibility features and conversions used in this guide—WLST Command Reference for SOA Suite.

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**Conventions**

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><strong>italic</strong></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Introduction and Roadmap

This section describes the audience for and contents and organization of this guide—
WLST Command Reference for SOA Suite.

- Document Scope and Audience
- Guide to This Document
- Related Documentation

1.1 Document Scope and Audience

This document describes all of the Oracle SOA Suite, Business Process Management, Enterprise Scheduler, and Managed File Transfer WLST commands that are available to use with the WebLogic Scripting Tool (WLST).

Note:
WLST commands for an Oracle Fusion Middleware component are available for use only if the component is installed in the ORACLE_HOME directory. So, the SOA Suite WLST commands are available for use only if SOA Suite is installed.

This document is written for Oracle SOA Suite administrators and operators, who deploy SOA applications. It is assumed that readers are familiar with Web technologies and the operating system and platform where WebLogic Server and Fusion Middleware products are installed.

1.2 Guide to This Document

This document is organized as follows:

- This chapter, "Introduction and Roadmap," introduces the organization of this guide and lists related documentation.

- **Oracle SOA Suite Custom WLST Commands**, provides detailed descriptions for each of the custom WLST commands for SOA Suite.

- **Custom WLST Commands**, provides detailed descriptions for each of the custom WLST commands for Business Process Management (BPM).

- **Oracle Enterprise Scheduler Custom WLST Commands** provides detailed descriptions for each of the custom WLST commands for Oracle Enterprise Scheduler (ESS).
Custom WLST Commands provides detailed descriptions for each of the custom WLST commands for Oracle Managed File Transfer (MFT).

1.3 Related Documentation

For information about how to use the WebLogic Scripting Tool, refer to Understanding the WebLogic Scripting Tool.

For information about the other WLST commands and other WebLogic Server management interfaces, see:

- WLST Command Reference for WebLogic Server describes the WLST commands for WebLogic Server.
- WLST Command Reference for Infrastructure Components describes the WLST commands that are available for Oracle Fusion Middleware core components, including Java Required Files (JRF), Web services, Metadata services (MDS), Application Development Framework (ADF), Dynamic Monitoring Service (DMS), Logging, Diagnostic Framework, User Messaging Service (UMS), and Enterprise Scheduling Service (ESS).
- Infrastructure Security WLST Command Reference describes the WLST commands that are available for Oracle Fusion Middleware Infrastructure Security components, including Auditing, SSL, Oracle Identity Federation, Directory Integration Platform, Oracle Access Management (OAM), Oracle Security Token Service, and Oracle Keystore Service.
- WebCenter WLST Command Reference describes the WLST commands that are available for WebCenter components, including WebCenter Portal, WebCenter Content, WebCenter Information Rights Management (IRM), and WebCenter Imaging Process Management (IPM).
- "Using Ant Tasks to Configure and Use a WebLogic Server Domain" in Developing Applications for Oracle WebLogic Server, describes using WebLogic Ant tasks for starting and stopping WebLogic Server instances and configuring WebLogic domains.
- "Deployment Tools" in Deploying Applications to Oracle WebLogic Server describes several tools that WebLogic Server provides for deploying applications and stand-alone modules.
- Administration Console Online Help describes a Web-based graphical user interface for managing and monitoring WebLogic domains.
- Creating WebLogic Domains Using the Configuration Wizard describes using a graphical user interface to create a WebLogic domain or extend an existing one.
- Creating Templates and Domains Using the Pack and Unpack Commands describes commands that recreate existing WebLogic domains quickly and easily.
- Developing Custom Management Utilities Using JMX for Oracle WebLogic Server describes using Java Management Extensions (JMX) APIs to monitor and modify WebLogic Server resources.
This chapter describes WSLT commands for Oracle SOA Suite. These commands enable you to use WLST to configure SOA composite applications.

**Note:**
To use these commands, you must invoke WLST from `SOA_HOME/common/bin`.

WLST provides both offline and online modes. Offline commands can be used without connecting to the Administration Server. When you first invoke WLST, you are in offline mode. You need to connect to the Administration server, using the `connect` command, before you can use the online mode commands.

This chapter includes the following sections:

- Overview of WSLT Command Categories
- Deployment Commands
- SOA Composite Application Management Commands
- Configuration Plan Management Commands
- Task Validation Commands
- SOA Composite Application Compilation Commands
- SOA Composite Application Packaging Commands
- SOA Composite Application Test Commands
- SOA Composite Application HTTP Client-Based Export and Import Commands
- SOA Composite Application MBean-Based Export and Import Commands
- SOA Composite Application Partition Management Commands
- SOA Composite Application Offline Deployment Management Commands
- SOA Health Check Commands

For additional details about deployment, configuration plans, and test suites, see *Developing SOA Applications with Oracle SOA Suite*. 

2.1 Overview of WSLT Command Categories

WLST commands are divided into the categories shown in Table 2-1.

<table>
<thead>
<tr>
<th>Command category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deployment Commands</td>
<td>Deploy and undeploy SOA composite applications.</td>
</tr>
<tr>
<td>SOA Composite Application Management Commands</td>
<td>Start, stop, activate, retire, assign a default revision version, and list deployed SOA composite applications.</td>
</tr>
<tr>
<td>Configuration Plan Management Commands</td>
<td>Attach, extract, generate, and validate configuration plans for SOA composite applications.</td>
</tr>
<tr>
<td>Task Validation Commands</td>
<td>Validate human workflow tasks.</td>
</tr>
<tr>
<td>SOA Composite Application Compilation Commands</td>
<td>Compile SOA composite applications.</td>
</tr>
<tr>
<td>SOA Composite Application Packaging Commands</td>
<td>Package SOA composite applications into archive files to deploy.</td>
</tr>
<tr>
<td>SOA Composite Application Test Commands</td>
<td>Test SOA composite applications prior to deployment in a production environment.</td>
</tr>
<tr>
<td>SOA Composite Application HTTP Client-Based Export and Import Commands</td>
<td>Export and import SOA composite applications based on the HTTP client.</td>
</tr>
<tr>
<td>SOA Composite Application MBean-Based Export and Import Commands</td>
<td>Export and import SOA composite applications on the server-based composite store MBean (CompositeStoreMXBean).</td>
</tr>
<tr>
<td>SOA Composite Application Partition Management Commands</td>
<td>Logically group different revisions of your SOA composite applications into separate partitions.</td>
</tr>
<tr>
<td>SOA Composite Application Offline Deployment Management Commands</td>
<td>Manage offline deployments of SOA composite applications and shared data.</td>
</tr>
</tbody>
</table>
2.2 Deployment Commands

Use the deployment commands, listed in Table 2-2, to deploy and undeploy SOA composite applications.

### Table 2-2 Deployment Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_deployComposite</td>
<td>Deploy a SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_undeployComposite</td>
<td>Undeploy a SOA composite application.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

2.2.1 sca_deployComposite

Command Category: Deployment Commands

Use with WLST: Offline

#### 2.2.1.1 Description

Deploys a SOA composite application to the Oracle WebLogic Server. This command does not package the artifact files of the application for deployment. See SOA Composite Application Packaging Commands for instructions on packaging a SOA composite application.

#### 2.2.1.2 Syntax

```
sca_deployComposite(serverURL, sarLocation, [overwrite], [user], [password], [forceDefault], [configplan], [partition] [keepInstancesOnRedeploy])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverURL</td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://myhost10:7001">http://myhost10:7001</a>).</td>
</tr>
</tbody>
</table>
| sarLocation      | Absolute path to one the following:  
|                  | • SOA archive (SAR) file.  
|                  | A SAR file is a special JAR file that requires a prefix of sca_ (for example, sca_HelloWorld_rev1.0.jar). The SAR file can be deployed with the deployment commands (such as sca_deployComposite()), but a regular .jar file is not treated as a special SAR file.  
|                  | • ZIP file that includes multiple SARs, metadata archives (MARs), or both.                                                               |
| overwrite        | Optional. Indicates whether to overwrite an existing SOA composite application.  
|                  | • false (default): Does not overwrite the application.  
<p>|                  | • true: Overwrites the application.                                                                                                         |
| user             | Optional. User name to access the composite deployer servlet when basic authentication is configured.                                      |</p>
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>password</td>
<td>Optional. Password to access the composite deployer servlet when basic authentication is configured.</td>
</tr>
</tbody>
</table>
| forceDefault      | Optional. Indicates whether to set the new composite as the default.  
|                   | • true (default): Makes it the default composite.  
|                   | • false: Does not make it the default composite. |
| configplan        | Optional. Absolute path of a configuration plan to be applied to a specified SAR file or to all SAR files included in the ZIP file. |
| partition         | Optional. The name of the partition in which to deploy the SOA composite application. The default value is default. If you do not specify a partition, the composite is automatically deployed into the default partition. |
| keepInstancesOnRedeploy | Optional. Specifies whether to keep the instances on redeploy. The default value is false. This argument is used when BPM is installed. |

**Note:**

Human workflow artifacts such as task mapped attributes (previously known as flex field mappings) and rules (such as vacation rules) are defined based on the namespace of the task definition. Therefore, the following issues are true when the same SOA composite application with a human workflow task is deployed into multiple partitions:

- For the same task definition type, mapped attributes defined in one partition are visible in another partition.
- Rules defined on a task definition in one partition can apply to the same definition in another partition.

### 2.2.1.3 Examples

The following example deploys the HelloWorld application.

```bash
wls:/mydomain/ServerConfig> sca_deployComposite("http://myhost10:7001", 
"/tmp/sca_HelloWorld_rev1.0.jar")
```

The following example deploys the HelloWorld application as the default version.

```bash
wls:/mydomain/ServerConfig> sca_deployComposite("http://myhost10:7001", 
"/tmp/sca_HelloWorld_rev1.0.jar", true)
```

The following example deploys the HelloWorld application with a required user name when basic authentication is configured. You are then prompted to provide the password for this user name.

```bash
wls:/mydomain/ServerConfig> sca_deployComposite("http://myhost10:7001", 
"/tmp/sca_HelloWorld_rev1.0.jar", user="weblogic")
Password:
```
The following example deploys the HelloWorld application and applies the configuration plan named deployplan.xml.

```java
wls:/mydomain/ServerConfig> sca_deployComposite("http://myhost10:7001", 
"/tmp/sca_HelloWorld_rev1.0.jar", forceDefault=false, 
configplan="/tmp/deployplan.xml")
```

The following example deploys the HelloWorld ZIP file, which can include multiple SARs, MARs, or both.

```java
wls:/mydomain/ServerConfig> sca_deployComposite("http://myhost:7001", 
"/tmp/HelloWorld.zip")
```

The following example deploys the HelloWorld application to the myPartition partition.

```java
wls:/mydomain/ServerConfig> sca_deployComposite("http://stadp10:7001", 
"/tmp/sca_HelloWorld_rev1.0.jar", partition="myPartition")
```

### 2.2.2 sca_undeployComposite

**Command Category:** Deployment Commands  
**Use with WLST:** Offline

#### 2.2.2.1 Description

Undeploys a currently deployed SOA composite application.

#### 2.2.2.2 Syntax

```java
sca_undeployComposite(serverURL, compositeName, revision, [user], [password], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverURL</td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://myhost10:7001">http://myhost10:7001</a>).</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision ID of the SOA composite application.</td>
</tr>
<tr>
<td>user</td>
<td>Optional. User name to access the composite deployer servlet when basic authentication is configured.</td>
</tr>
<tr>
<td>password</td>
<td>Optional. Password to access the composite deployer servlet when basic authentication is configured.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is default. If you do not specify a partition, the default partition is searched for the SOA composite application. However, no other partitions are searched.</td>
</tr>
</tbody>
</table>

#### 2.2.2.3 Examples

The following example undeploys the HelloWorld application.

```java
wls:/mydomain/ServerConfig> sca_undeployComposite("http://myhost10:7001", 
"HelloWorld", "1.0")
```
The following example undeploys the HelloWorld application with a required user name when basic authentication is configured. You are then prompted to provide the password for this user name.

```
$ wls:/mydomain/ServerConfig> sca_undeployComposite("http://myhost10:7001", "HelloWorld", "1.0", user="weblogic")
Password:
```

The following example undeploys the HelloWorld application in the myPartition partition.

```
$ wls:/mydomain/ServerConfig> sca_undeployComposite("http://stadp10:7001", "HelloWorld", "1.0", partition='myPartition')
```

## 2.3 SOA Composite Application Management Commands

Use the management commands, listed in Table 2-3, to start, stop, activate, retire, assign a default revision version, and list deployed SOA composite applications.

### Table 2-3  SOA Composite Application Management Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_startComposite</td>
<td>Start a previously stopped SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_stopComposite</td>
<td>Stop a SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_activateComposite</td>
<td>Activate a previously retired SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_retireComposite</td>
<td>Retire a SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_assignDefaultComposite</td>
<td>Assign the default revision version to a SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_listDeployedComposites</td>
<td>List the deployed SOA composite applications.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

### 2.3.1 sca_startComposite

Command Category: Application Management Commands
Use with WLST: Offline

#### 2.3.1.1 Description

Starts a previously stopped SOA composite application.

#### 2.3.1.2 Syntax

```
sca_startComposite(host, port, user, password, compositeName, revision, [label], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td>Hostname of the Oracle WebLogic Server (for example, myhost).</td>
</tr>
</tbody>
</table>
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port</strong></td>
<td>Port of the Oracle WebLogic Server (for example, 7001).</td>
</tr>
<tr>
<td><strong>user</strong></td>
<td>User name for connecting to the running server to get MBean information (for example, weblogic).</td>
</tr>
<tr>
<td><strong>password</strong></td>
<td>Password for the user name.</td>
</tr>
<tr>
<td><strong>compositeName</strong></td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td><strong>revision</strong></td>
<td>Revision of the SOA composite application.</td>
</tr>
<tr>
<td><strong>label</strong></td>
<td>Optional. Label of the SOA composite application. The label identifies the metadata service (MDS) artifacts associated with the application. If the label is not specified, the system finds the latest one.</td>
</tr>
<tr>
<td><strong>partition</strong></td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is default. If you do not specify a partition, the default partition is searched for the SOA composite application. However, no other partitions are searched.</td>
</tr>
</tbody>
</table>

#### 2.3.1.3 Example

The following example starts revision 1.0 of the HelloWorld application.

\[
\text{wls:mydomain/ServerConfig> sca_startComposite("myhost", "7001", "weblogic", "welcome1", "HelloWorld", "1.0")}
\]

The following example starts revision 1.0 of the HelloWorld application in the partition myPartition.

\[
\text{wls:mydomain/ServerConfig> sca_startComposite("stadp10", "7001", "weblogic", "weblogic", "HelloWorld", "1.0", partition="myPartition")}
\]

#### 2.3.2 sca_stopComposite

**Command Category:** Application Management Commands  
**Use with WLST:** Offline

**2.3.2.1 Description**

Stops a currently running SOA composite application.

**2.3.2.2 Syntax**

\[
sca\_stopComposite(host, port, user, password, compositeName, revision, [label], [partition])
\]

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>host</strong></td>
<td>Hostname of the Oracle WebLogic Server (for example, myhost).</td>
</tr>
<tr>
<td><strong>port</strong></td>
<td>Port of the Oracle WebLogic Server (for example, 7001).</td>
</tr>
<tr>
<td><strong>user</strong></td>
<td>User name for connecting to the running server to get MBean information (for example, weblogic).</td>
</tr>
</tbody>
</table>
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>password</td>
<td>Password for the user name.</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the SOA composite application.</td>
</tr>
<tr>
<td>label</td>
<td>Optional. Label of the SOA composite application. The label identifies the MDS artifacts associated with the application. If the label is not specified, the system finds the latest one.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is <code>default</code>. If you do not specify a partition, the <code>default</code> partition is searched for the SOA composite application. However, no other partitions are searched.</td>
</tr>
</tbody>
</table>

**2.3.2.3 Example**

The following example stops revision 1.0 of the `HelloWorld` application.

```bash
wls:/mydomain/ServerConfig> sca_stopComposite("myhost", "7001", "weblogic", "welcome1", "HelloWorld", "1.0")
```

The following example stops revision 1.0 of the `HelloWorld` application in the partition `myPartition`.

```bash
wls:/mydomain/ServerConfig> sca_stopComposite("stadp10", "7001", "weblogic", "weblogic", "HelloWorld", "1.0", partition="myPartition")
```

### 2.3.3 sca_activateComposite

**Command Category:** Application Management Commands  
**Use with WLST:** Offline

**2.3.3.1 Description**

Activates a retired SOA composite application. You can then create new instances.

**2.3.3.2 Syntax**

```
sca_activateComposite(host, port, user, password, compositeName, revision, [label], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td>Hostname of the Oracle WebLogic Server (for example, <code>myhost</code>).</td>
</tr>
<tr>
<td>port</td>
<td>Port of the Oracle WebLogic Server (for example, <code>7001</code>).</td>
</tr>
<tr>
<td>user</td>
<td>User name for connecting to the running server to get MBean information (for example, <code>weblogic</code>).</td>
</tr>
<tr>
<td>password</td>
<td>Password for the user name.</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the SOA composite application.</td>
</tr>
</tbody>
</table>
### 2.3.3 Example

The following example activates revision 1.0 of the `HelloWorld` application.

```java
wls:/mydomain/ServerConfig> sca_activateComposite("myhost", "7001", "weblogic", "welcome1", "HelloWorld", "1.0")
```

The following example activates revision 1.0 of the `HelloWorld` application in the partition `myPartition`.

```java
wls:/mydomain/ServerConfig> sca_activateComposite("stadp10", "7001", "weblogic", "weblogic", "HelloWorld", "1.0", partition="myPartition")
```

### 2.3.4 `sca_retireComposite`

**Command Category:** Application Management Commands

**Use with WLST:** Offline

#### 2.3.4.1 Description

Retires a SOA composite application. If the process life cycle is retired, you cannot create a new instance. Existing instances are allowed to complete normally.

#### 2.3.4.2 Syntax

```java
sca_retireComposite(host, port, user, password, compositeName, revision, [label], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>host</code></td>
<td>Hostname of the Oracle WebLogic Server (for example, <code>myhost</code>).</td>
</tr>
<tr>
<td><code>port</code></td>
<td>Port of the Oracle WebLogic Server (for example, <code>7001</code>).</td>
</tr>
<tr>
<td><code>user</code></td>
<td>User name for connecting to the running server to get MBean information (for example, <code>weblogic</code>).</td>
</tr>
<tr>
<td><code>password</code></td>
<td>Password for the user name.</td>
</tr>
<tr>
<td><code>compositeName</code></td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td><code>revision</code></td>
<td>Revision of the SOA composite application.</td>
</tr>
<tr>
<td><code>label</code></td>
<td>Optional. Label of the SOA composite application. The label identifies the MDS artifacts associated with the application. If the label is not specified, the system finds the latest one.</td>
</tr>
<tr>
<td><code>partition</code></td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is <code>default</code>. If you do not specify a partition, the <code>default</code> partition is searched for the SOA composite application. However, no other partitions are searched.</td>
</tr>
</tbody>
</table>
2.3.4.3 Example

The following example retires revision 1.0 of the HelloWorld application.

```
ws://mydomain/ServerConfig> sca_retireComposite("myhost", "7001", "weblogic", "welcome1", "HelloWorld", "1.0")
```

The following example retires revision 1.0 of the HelloWorld application in the partition myPartition.

```
ws://mydomain/ServerConfig> sca_retireComposite("stadp10", "7001", "weblogic", "weblogic", "HelloWorld", "1.0", partition="myPartition")
```

2.3.5 sca_assignDefaultComposite

Command Category: Application Management Commands

Use with WLST: Offline

2.3.5.1 Description

Sets a SOA composite application revision as the default version. This revision is instantiated when a new request comes in.

2.3.5.2 Syntax

```
sca_assignDefaultComposite(host, port, user, password, compositeName, revision, [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td>Hostname of the Oracle WebLogic Server (for example, myhost).</td>
</tr>
<tr>
<td>port</td>
<td>Port of the Oracle WebLogic Server (for example, 7001).</td>
</tr>
<tr>
<td>user</td>
<td>User name for connecting to the running server to get MBean information (for example, weblogic).</td>
</tr>
<tr>
<td>password</td>
<td>Password for the user name.</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the SOA composite application.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the SOA composite application.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is default. If you do not specify a partition, the default partition is searched for the SOA composite application. However, no other partitions are searched.</td>
</tr>
</tbody>
</table>
2.3.5.3 Example
The following example sets revision 1.0 of the HelloWorld application as the default version.

```
wls:/mydomain/ServerConfig> sca_assignDefaultComposite("myhost", "7001", "weblogic", "welcome1", "HelloWorld", "1.0")
```

The following example sets revision 1.0 of the HelloWorld application located in the partition myPartition as the default version.

```
wls:/mydomain/ServerConfig> sca_assignDefaultComposite("stadp10", "7001", "weblogic", "weblogic", "HelloWorld", "1.0", partition="myPartition")
```

2.3.6 sca_listDeployedComposites
Command Category: Application Management Commands
Use with WLST: Offline

2.3.6.1 Description
Lists all SOA composite applications deployed to the SOA platform.

2.3.6.2 Syntax
```
sca_listDeployedComposites(host, port, user, password)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td>Hostname of the Oracle WebLogic Server (for example, myhost).</td>
</tr>
<tr>
<td>port</td>
<td>Port of the Oracle WebLogic Server (for example, 7001).</td>
</tr>
<tr>
<td>user</td>
<td>User name for connecting to the running server to get MBean information (for example, weblogic).</td>
</tr>
<tr>
<td>password</td>
<td>Password for the user name.</td>
</tr>
</tbody>
</table>

2.3.6.3 Example
The following example lists all the deployed SOA composite applications on the server myhost.

```
wls:/mydomain/ServerConfig> sca_listDeployedComposites('myhost', '7001', 'weblogic', 'welcome1')
```

2.4 Configuration Plan Management Commands
Use the configuration plan management commands, listed in Table 2-4, to attach, extract, generate, and validate configuration plans for SOA composite applications.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>scaAttachPlan</td>
<td>Attach the configuration plan file to the SOA composite application JAR file.</td>
<td>Offline</td>
</tr>
</tbody>
</table>
### Table 2-4 (Cont.) Configuration Plan Management Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_extractPlan</td>
<td>Extract a configuration plan packaged with the JAR file for editing.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_generatePlan</td>
<td>Generate a configuration plan for editing.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_validatePlan</td>
<td>Validate the configuration plan.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

#### 2.4.1 sca_attachPlan

**Command Category:** Configuration Plan Management Commands  
**Use with WLST:** Offline

**2.4.1.1 Description**
Attaches the configuration plan file to the SOA composite application file. If a plan already exists in the file, it is not overwritten by default.

**2.4.1.2 Syntax**

```java
sca_attachPlan(sar, configPlan, [overwrite], [verbose])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sar</td>
<td>Absolute path of the SAR file.</td>
</tr>
<tr>
<td>configPlan</td>
<td>Absolute path of the configuration plan file.</td>
</tr>
<tr>
<td>overwrite</td>
<td>Optional. Indicates whether to overwrite an existing configuration plan in the SAR file.</td>
</tr>
<tr>
<td></td>
<td>• false (default): Does not overwrite the plan.</td>
</tr>
<tr>
<td></td>
<td>• true: Overwrites the plan.</td>
</tr>
<tr>
<td>verbose</td>
<td>Optional. Indicates whether to print more information about the configuration plan attachment.</td>
</tr>
<tr>
<td></td>
<td>• true (default): Prints more information.</td>
</tr>
<tr>
<td></td>
<td>• false: Does not print more information.</td>
</tr>
</tbody>
</table>

**2.4.1.3 Examples**

The following example attaches the configplan.xml configuration plan file to the HelloWorld application.

```bash
wls:/mydomain/ServerConfig> sca_attachPlan("/tmp/sca_HelloWorld_rev1.0.jar", "/tmp/configplan.xml")
```

The following example overwrites the existing configuration plan with configplan.xml file in the HelloWorld application.

```bash
wls:/mydomain/ServerConfig> sca_attachPlan("/tmp/sca_HelloWorld_rev1.0.jar", "/tmp/configplan.xml", overwrite=true)
```
2.4.2 sca_extractPlan

Command Category: Configuration Plan Management Commands
Use with WLST: Offline

2.4.2.1 Description
Extracts a configuration plan packaged with the SOA composite application file for editing. This is an optional step. If no plan exists, this is the same as creating a new file with sca_generatePlan.

2.4.2.2 Syntax

```
sca_extractPlan(sar, configPlan, [overwrite], [verbose])
```

**Argument** | **Definition**
--- | ---
`sar` | Absolute path of a SAR file.
$configPlan$ | Absolute path of a configuration plan file to which to be extracted.
$overwrite$ | Optional. Indicates whether to overwrite the configuration file specified by $configPlan$, if it exists.
- $false$ (default): Does not overwrite the plan.
- $true$: Overwrites the plan.
$verbose$ | Optional. Indicates whether to print more information about configuration plan extraction.
- $true$ (default): Prints more information.
- $false$: Does not print more information.

2.4.2.3 Example

The following example extracts the $configplan.xml$ file for editing from the HelloWorld application.

```
wls:/mydomain/ServerConfig> sca_extractPlan("/tmp/sca_HelloWorld_rev1.0.jar", "/tmp/configplan.xml")
```

The following example extracts the $configplan.xml$ file for editing from the HelloWorld application. This command also overwrites the existing plan.

```
wls:/mydomain/ServerConfig> sca_extractPlan("/tmp/sca_HelloWorld_rev1.0.jar", "/tmp/configplan.xml", overwrite=true)
```

2.4.3 sca_generatePlan

Command Category: Configuration Plan Management Commands
Use with WLST: Offline

2.4.3.1 Description
Generates a configuration plan for editing.

2.4.3.2 Syntax

```
sca_generatePlan(configPlan, sar, composite, [overwrite], [verbose])
```

---

Oracle SOA Suite Custom WLST Commands 2-13
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>configPlan</td>
<td>Absolute path of the configuration plan file to be generated. Either configPlan or sar is required. You cannot specify both.</td>
</tr>
<tr>
<td>sar</td>
<td>Absolute path of the SAR file. Either configPlan or sar is required. You cannot specify both.</td>
</tr>
<tr>
<td>composite</td>
<td>Absolute path of the composite.xml file in the expanded (unzipped) SAR directory.</td>
</tr>
<tr>
<td>overwrite</td>
<td>Optional. Indicates whether to overwrite an existing configuration plan file:</td>
</tr>
<tr>
<td></td>
<td>• false (default): Does not overwrite the plan.</td>
</tr>
<tr>
<td></td>
<td>• true: Overwrites the plan.</td>
</tr>
<tr>
<td>verbose</td>
<td>Indicates whether to print more information about plan generation:</td>
</tr>
<tr>
<td></td>
<td>• true (default): Prints more information.</td>
</tr>
<tr>
<td></td>
<td>• false: Does not print more information.</td>
</tr>
</tbody>
</table>

#### 2.4.3.3 Examples

The following example generates the myplan.xml configuration plan file for the HelloWorld application.

```bash
wls:/mydomain/ServerConfig> sca_generatePlan("/tmp/myplan.xml", sar="/tmp/sca_HelloWorld_rev1.0.jar")
```

The following example generates the myplan2.xml configuration plan file for the HelloWorld application. The myplan2.xml file overwrites the existing plan.

```bash
wls:/mydomain/ServerConfig> sca_generatePlan("/tmp/myplan2.xml", composite="/tmp/HelloWorld_rev1.0/composite.xml", overwrite=true)
```

#### 2.4.4 sca_validatePlan

**Command Category:** Configuration Plan Management Commands  
**Use with WLST:** Offline

**2.4.4.1 Description**

Validates the configuration plan. This command identifies all search and replacement changes to be made during deployment. Use this option for debugging only.

**2.4.4.2 Syntax**

`sca_validatePlan(reportFile, configPlan, [sar], [composite], [overwrite], [verbose])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>reportFile</td>
<td>Absolute path of the report file to be generated. Validation results are written to this file.</td>
</tr>
<tr>
<td>configPlan</td>
<td>Absolute path of the configuration plan file.</td>
</tr>
<tr>
<td>sar</td>
<td>Optional. The absolute path of the SAR file.</td>
</tr>
</tbody>
</table>
## 2.4.4.3 Examples

The following example validates the configplan.xml configuration plan file for the HelloWorld application.

```bash
wls:/mydomain/ServerConfig> sca_validatePlan("/tmp/myreport.xml", "/tmp/configplan.xml", sar="/tmp/sca_HelloWorld_rev1.0.jar")
```

The following example validates the configplan.xml configuration plan file for the HelloWorld application. The configplan.xml plan overwrites the existing plan.

```bash
wls:/mydomain/ServerConfig> sca_validatePlan("/tmp/myreport.xml", "/tmp/configplan.xml",composite="/tmp/HelloWorld_rev1.0/composite.xml", overwrite=true)
```

## 2.5 Task Validation Commands

Use the task validation command, listed in Table 2-5, to validate human workflow tasks.

### Table 2-5 Task Validation Command for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_validateTask</td>
<td></td>
<td>Offline</td>
</tr>
</tbody>
</table>

### 2.5.1 sca_validateTask

Command Category: Task Validation Commands

Use with WLST: Offline

#### 2.5.1.1 Description

Validates a human workflow task contained in the .task file that you created when designing a human task in the Human Task Editor.

#### 2.5.1.2 Syntax

```bash
sca_validateTask(taskFile, outXml, [displayLevel])
```
2.5.1.3 Example

The following example validates the WFTaskDefinition.task file of the human task.

```
<wls:/mydomain/ServerConfig> sca_validateTask("/tmp/WFTaskDefinition.task", "/tmp/out.xml", displayLevel=2)
```

## 2.6 SOA Composite Application Compilation Commands

Use the compilation commands, listed in Table 2-6, to compile SOA composite applications.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sca_setProp</code></td>
<td>Set JVM system properties.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>sca_compile</code></td>
<td>Compile a SOA composite application.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

### 2.6.1 sca_setProp

**Command Category:** Application Compilation Commands

**Use with WLST:** Offline

#### 2.6.1.1 Description

Sets JVM system properties. This command can also set secure socket layer (SSL) system properties before using `sca_deployComposite` and `sca_undeployComposite` over SSL.

#### 2.6.1.2 Syntax

```
sca_setProp(propName, propValue)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>propName</code></td>
<td>Property name.</td>
</tr>
<tr>
<td><code>propValue</code></td>
<td>Property value.</td>
</tr>
</tbody>
</table>

#### 2.6.1.3 Example

The following example sets the property name and property value.

```java
sca_setProp("propName", "propValue")
```
2.6.2 sca_compile

Command Category: Application Compilation Commands
Use with WLST: Offline

2.6.2.1 Description

Compiles a SOA composite application.

**Note:**
The `sca_compile` command requires the `oracle.home` property to find the ant-sca-compile.xml script. This must be set once. You can use the `scac_setProp` command or the `oracleHome` property to set a value.

2.6.2.2 Syntax

```
sca_compile(composite, [outXml], [error], [appHome], [displayLevel], [oracleHome])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>composite</code></td>
<td>Absolute path of a composite file in the expanded (unzipped) SAR directory.</td>
</tr>
<tr>
<td><code>outXml</code></td>
<td>Optional. Absolute path of an output XML file.</td>
</tr>
<tr>
<td><code>error</code></td>
<td>Optional. Absolute path of an error file.</td>
</tr>
<tr>
<td><code>appHome</code></td>
<td>Optional. Absolute path of the application home directory. This property is required if you have shared data.</td>
</tr>
<tr>
<td><code>displayLevel</code></td>
<td>Optional. The level of information to display. The default value is 1.</td>
</tr>
<tr>
<td><code>oracleHome</code></td>
<td>Optional. The oracle.home property.</td>
</tr>
<tr>
<td><code>reportSchemaValidationErrors</code></td>
<td>Optional. Indicates whether schema validation error is reported. The default value is false.</td>
</tr>
</tbody>
</table>

2.6.2.3 Examples

The following example compiles the `FirstComposite` application.

```
wls:/mydomain/ServerConfig> sca_compile("/tmp/FirstComposite_rev1.0/composite.xml", displayLevel=2)
```

The following example compiles the `FirstComposite` application and captures details in the `myout.xml` file. The `error.out` file captures any errors.

```
wls:/mydomain/ServerConfig> sca_compile("/tmp/FirstComposite_rev1.0/composite.xml", outXml="/tmp/myout.xml", error="error.out")
```

The following example compiles the `FirstComposite` application. The `oracleHome` property is set to find the ant-sca-compile.xml script.
2.7 SOA Composite Application Packaging Commands

Use the packaging command, listed in Table 2-7, to package SOA composite applications into a composite SAR file.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_package</td>
<td>Package the SOA composite application files into a composite SAR file.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

2.7.1 sca_package

Command Category: Application Packaging Commands

Use with WLST: Offline

2.7.1.1 Description

Packages the SOA composite application files into a composite SAR file. This command performs the following operations:

- Calls sca_compile to compile the composite artifacts in `${compositeDir}`.
- Calls javac to compile any source code under `${compositeDir}/src`.
- Replaces the revision in `${compositeDir}/composite.xml`.
- Packages the artifacts to create `sca_${compositeName}_rev${revision}.jar` in `${compositeDir}/deploy`.

Note:
The `sca_package` command requires `oracle.home` to find the `ant-sca-package.xml` script. This must be set once. You can use the `scac_setProp` command or `oracleHome` property to set this property.

2.7.1.2 Syntax

`sca_package(compositeDir, compositeName, revision, [appHome], [oracleHome])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>compositeDir</td>
<td>Absolute path of a directory that contains composite artifacts.</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the composite.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision ID of the composite.</td>
</tr>
</tbody>
</table>

wlst:/mydomain/ServerConfig> sca_compile("/tmp/FirstComposite_rev1.0/composite.xml", displayLevel=2, oracleHome="/scratch/myusername/beahome/AS11gR1SOA")
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appHome</td>
<td>Optional. Absolute path of the application home directory. This property is required if you have shared data.</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The oracle.home property.</td>
</tr>
</tbody>
</table>

#### 2.7.1.3 Examples

The following example packages the OrderBookingComposite application. The appHome property is set because this application uses shared data.

```bash
csa_package("/tmp/app_data/OrderBookingComposite", "OrderBookingComposite", "1.0", appHome="/tmp/app_data")
```

The following example packages the HelloSOAComposite application.

```bash
csa_package("/tmp/HelloSOAApplication/HelloSOAComposite", "HelloSOAComposite", "1.0")
```

The following example packages the HelloSOAComposite application. The oracleHome property is set to find the ant-sca-compile.xml script.

```bash
csa_package("/tmp/HelloSOAApplication/HelloSOAComposite", "HelloSOAComposite", "1.0", oracleHome="/scratch/myusername/beahome/AS11gR1SOA")
```

### 2.8 SOA Composite Application Test Commands

Use the SOA composite application test command, listed in Table 2-8, to test a SOA composite applications.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_test</td>
<td>Test deployed SOA composite applications.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

#### 2.8.1 sca_test

Command Category: Application Test Commands

Use with WLST: Offline

**2.8.1.1 Description**

Tests deployed SOA composite applications prior to deployment in a production environment. You create suites of tests in Oracle JDeveloper. The `sca_test` command calls `ant-sca-test.xml`.

**2.8.1.2 Syntax**

```bash
sca_test('compositeName', 'revision', 'testsuiteName', 'jndiPropFiles', [oracleHome='oracleHome'], [javaHome='javaHome'])
```
### Argument Definition

- **compositeName**: Name of the SOA composite application.
- **revision**: Revision ID of the SOA composite application.
- **testsuiteName**: Name of the test suite.
- **jndiPropFile**: Absolute path to the JNDI property file.
- **oracleHome**: Optional. The `oracle.home` system property.
- **javaHome**: Optional. The `java.passed.home` system property.

### 2.8.1.3 Examples

The following example runs the `OrderBookingMainTestsuite` test suite.

```
wlsl/mydomain/ServerConfig> sca_test('OrderBookingComposite', '1.0',
    'OrderBookingMainTestsuite', '/tmp/tmp-jndi.properties',
    oracleHome='/scratch/<user>/beahome/AS11gR1SOA/',
    javaHome='/scratch/<user>/beahome/jdk160_05')
```

### 2.9 SOA Composite Application HTTP Client-Based Export and Import Commands

Use the SOA composite application commands, listed in Table 2-9, to export and import SOA composite applications based on the HTTP client. The SOA Infrastructure must be running to use these commands.

#### Table 2-9 SOA Composite Application Export and Import Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sca_exportComposite</code></td>
<td>Export a SOA composite application into a SAR file.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>sca_exportUpdates</code></td>
<td>Export postdeployment changes of a SOA composite application into a JAR file.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>sca_importUpdates</code></td>
<td>Import postdeployment changes of a SOA composite application.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>sca_exportSharedData</code></td>
<td>Export shared data of a given pattern into a JAR file.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>sca_removeSharedData</code></td>
<td>Removes a top-level shared data folder.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

#### 2.9.1 `sca_exportComposite`

Command Category: Application Export and Import Commands

Use with WLST: Offline

#### 2.9.1.1 Description

Exports a SOA composite application into a SAR file.
2.9.1.2 Syntax

sca_exportComposite(serverURL, updateType, sarFile, compositeName, revision, [user], [password], [partition])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverURL</td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://stabc:8001">http://stabc:8001</a>).</td>
</tr>
<tr>
<td>updateType</td>
<td>Type of postdeployment changes to be exported:</td>
</tr>
<tr>
<td></td>
<td>• all: Includes all postdeployment changes.</td>
</tr>
<tr>
<td></td>
<td>• property: Includes only property postdeployment changes (binding component properties, composite properties such as audit level settings and payload validation status, and policy attachments).</td>
</tr>
<tr>
<td></td>
<td>• runtime: Includes only runtime (rules dictionary and domain value maps (DVMs)) and metadata postdeployment changes.</td>
</tr>
<tr>
<td></td>
<td>• none: Exports the original composite without any postdeployment changes (including property changes and runtime changes).</td>
</tr>
<tr>
<td>sarFile</td>
<td>Absolute path of a SAR file to generate (a .jar file that begins with sca_).</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the composite to export.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the composite to export.</td>
</tr>
<tr>
<td>user</td>
<td>Optional. The user name for accessing the server when basic configuration is configured. Use the following syntax for this argument:</td>
</tr>
<tr>
<td></td>
<td>user='username'</td>
</tr>
<tr>
<td>password</td>
<td>Optional. The password for accessing the server when basic configuration is configured. Use the following syntax for this argument:</td>
</tr>
<tr>
<td></td>
<td>password='password'</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is default.</td>
</tr>
</tbody>
</table>

2.9.1.3 Examples

The following example exports the composite without including any postdeployment changes.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportComposite('http://stabc:8001', 'none', '/tmp/sca_HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports a composite with all postdeployment updates.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportComposite('http://stabc:8001', 'all', '/tmp/sca_HelloWorld_rev1.0-all.jar', 'HelloWorld', '1.0')
```

The following example exports a composite with property postdeployment updates.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportComposite('http://stabc:8001', 'property', '/tmp/sca_HelloWorld_rev1.0-prop.jar', 'HelloWorld', '1.0')
```
The following example exports a composite with runtime/metadata postdeployment updates.

```
wlsc:offline/mydomain/ServerConfig> sca_exportComposite('http://stabc:8001', 'runtime', '/tmp/sca_HelloWorld_rev1.0-runtime.jar', 'HelloWorld', '1.0')
```

The following example exports a composite in the myPartition partition without including any postdeployment updates:

```
```

### 2.9.2 sca_exportUpdates

Command Category: Application Export and Import Commands

Use with WLST: Offline

#### 2.9.2.1 Description

Exports postdeployment changes of a SOA composite application into a JAR file.

#### 2.9.2.2 Syntax

```
sca_exportUpdates(serverURL, updateType, jarFile, compositeName, revision, [user], [password], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverURL</td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://stabc:8001">http://stabc:8001</a>).</td>
</tr>
<tr>
<td>updateType</td>
<td>The type of postdeployment changes to be exported.</td>
</tr>
<tr>
<td></td>
<td>• all: Includes all postdeployment changes.</td>
</tr>
<tr>
<td></td>
<td>• property: Includes only property postdeployment changes (binding component properties, composite properties such as audit level settings and payload validation status, and policy attachments).</td>
</tr>
<tr>
<td></td>
<td>• runtime: Includes only runtime (rules dictionary and domain value maps (DVMs)) and metadata postdeployment changes.</td>
</tr>
<tr>
<td>jarFile</td>
<td>Absolute path of a JAR file to generate. sca_exportUpdates() creates a regular .jar file that cannot be imported using regular deployment commands. It must be imported by using sca_importUpdates().</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the composite to export.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the composite to export.</td>
</tr>
<tr>
<td>user</td>
<td>Optional. The user name for accessing the server when basic configuration is configured. Use the following syntax for this argument: user='username'</td>
</tr>
<tr>
<td>password</td>
<td>Optional. The password for accessing the server when basic configuration is configured. Use the following syntax for this argument: password='password'</td>
</tr>
</tbody>
</table>
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition</td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is default.</td>
</tr>
</tbody>
</table>

#### 2.9.2.3 Examples

The following example exports all postdeployment updates.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportUpdates('http://stabc:8001', 'all', '/tmp/all-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports property postdeployment updates.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportUpdates('http://stabc:8001', 'property', '/tmp/prop-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports runtime/metadata postdeployment updates.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportUpdates('http://stabc:8001', 'runtime', '/tmp/runtime-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports postdeployment changes of a composite in the partition `myPartition` into a JAR file.

```bash
wls:/offline/mydomain/ServerConfig> sca_exportUpdates('http://stabc:8001', 'runtime', '/tmp/runtime-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0', partition='myPartition')
```

### 2.9.3 sca_importUpdates

#### Command Category: Application Export and Import Commands

Use with WLST: Offline

#### 2.9.3.1 Description

Imports postdeployment changes of a SOA composite application.

#### 2.9.3.2 Syntax

```bash
sca_importUpdates(serverURL, jarFile, compositeName, revision, [user], [password])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverURL</td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://stabc:8001">http://stabc:8001</a>).</td>
</tr>
<tr>
<td>jarFile</td>
<td>Absolute path of a JAR file that contains postdeployment changes.</td>
</tr>
<tr>
<td>compositeName</td>
<td>Name of the composite to which the postdeployment changes are imported.</td>
</tr>
<tr>
<td>revision</td>
<td>Revision of the composite to which the postdeployment changes are imported.</td>
</tr>
</tbody>
</table>
### Argument Definitions

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>user</code></td>
<td>Optional. The user name for accessing the server when basic configuration is configured. Use the following syntax for this argument: user='username'</td>
</tr>
<tr>
<td><code>password</code></td>
<td>Optional. The password for accessing the server when basic configuration is configured. Use the following syntax for this argument: password='password'</td>
</tr>
<tr>
<td><code>partition</code></td>
<td>Optional. The name of the partition in which the SOA composite application is located. The default value is <code>default</code>.</td>
</tr>
</tbody>
</table>

### 2.9.3.3 Examples

The following example imports postdeployment changes of a SOA composite application.

```bash
wls:/offline/mydomain/ServerConfig> sca_importUpdates('http://stabc:8001', '/tmp/all-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example imports postdeployment changes of a composite in the partition `myPartition`.

```bash
wls:/offline/mydomain/ServerConfig> sca_importUpdates('http://stabc:8001', '/tmp/all-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0', partition='myPartition')
```

### 2.9.4 `sca_exportSharedData`

Command Category: Application Export and Import Commands

Use with WLST: Offline

#### Description

Exports shared data of a given pattern into a JAR file.

#### Syntax

```java
sca_exportSharedData(serverURL, jarFile, pattern, [user], [password])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>serverURL</code></td>
<td>URL of the server that hosts the SOA Infrastructure application (for example, <a href="http://stabc:8001">http://stabc:8001</a>).</td>
</tr>
<tr>
<td><code>jarFile</code></td>
<td>Absolute path of a JAR file to generate.</td>
</tr>
<tr>
<td><code>pattern</code></td>
<td>The file pattern supported by MDS transfer APIs. Use the semicolon delimiter (;) if more than one pattern is specified. Exclude the shared data namespace <code>/apps</code> in the pattern. For example: <code>/Project1/**;/Project2/**</code></td>
</tr>
</tbody>
</table>

This example exports all documents under `/apps/Project1` and `/apps/Project2`. |
### Argument | Definition
--- | ---
**user** | Optional. The user name for accessing the server when basic configuration is configured. Use the following syntax for this argument:  
user=’username’

**password** | Optional. The password for accessing the server when basic configuration is configured. Use the following syntax for this argument:  
password=’password’

### 2.9.4.3 Examples
The following example exports shared data of a given pattern into a JAR file.

```
wls:/offline/mydomain/ServerConfig> sca_exportSharedData('http://stabc:8001',  
'/tmp/MySharedData.jar', '/Project1/**')
```

### 2.9.5 sca_removeSharedData

Command Category: Application Export and Import Commands  
Use with WLST: Offline

#### 2.9.5.1 Description
Removes a top-level shared data folder, even if there are composites deployed in the service engine.

#### 2.9.5.2 Syntax

```
sca_removeSharedData(serverURL, folderName, [user], [password])
```

### Argument | Definition
--- | ---
**serverURL** | URL of the server that hosts the SOA Infrastructure application (for example, http://stabc:8001).

**folderName** | The name of a top-level shared data folder to be removed.

**user** | Optional. The user name for accessing the server when basic configuration is configured. Use the following syntax for this argument:  
user=’username’

**password** | Optional. The password for accessing the server when basic configuration is configured. Use the following syntax for this argument:  
password=’password’

### 2.9.5.3 Examples
The following example removes the top-level shared data Project1 folder.

```
sca_removeSharedData('http://stabc:8001', 'Project1')
```
2.10 SOA Composite Application MBean-Based Export and Import Commands

Use the deployment commands, listed in Table 2-10, to export and import SOA composite applications on the server-based composite store MBean (CompositeStoreMXBean).

Table 2-10   SOA Composite Application Export and Import Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_exportCompositeMb</td>
<td>Export a SOA composite application into a SAR file.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_exportUpdatesMb</td>
<td>Export postdeployment changes of a SOA composite application into a JAR file.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_importUpdatesMb</td>
<td>Import postdeployment changes of a SOA composite application.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_exportSharedDataMb</td>
<td>Export shared data of a given pattern into a JAR file.</td>
<td>Online</td>
</tr>
</tbody>
</table>

If you use this option, note that the file generated in the export commands and the file read in the import command must be on the host where the server is running (either an Oracle WebLogic Administration Server or a managed SOA server).

The composite store MBean is registered as both a server runtime MBean of the SOA server and as a domain runtime MBean of the Oracle WebLogic Administration Server, which allows the import and export to continue working while SOA servers are down. Only WLST commands are provided for using the composite store MBean; there are no ant commands.

You must run the `connect()` command to connect to either a SOA server or an Oracle WebLogic Administration Server.

```
wlsoffline>connect('weblogic', 'password', 't3://stabc:8001')
```

If you use the domain runtime MBean while the SOA servers are down, you must run the `domainRuntime()` command.

```
wlsoffline>connect('weblogic', 'password', 't3://stabc:7001')
wls:/soainfra/serverConfig>domainRuntime()
```

2.10.1 sca_exportCompositeMb

Command Category: Application Export and Import Commands

Use with WLST: Online

2.10.1.1 Description

Exports a SOA composite application into a SAR file.

2.10.1.2 Syntax

```
sca_exportCompositeMb(updateType, sarFile, compositeName, revision)
```
### 2.10.1.3 Examples

This example exports composite without including any postdeployment changes.

```java
wls:/mydomain/ServerConfig> sca_exportCompositeMb('none', '/tmp/sca_HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

This example exports a composite with all postdeployment updates.

```java
wls:/mydomain/ServerConfig> sca_exportCompositeMb('all', '/tmp/sca_HelloWorld_rev1.0-all.jar', 'HelloWorld', '1.0')
```

This example exports a composite with property postdeployment updates.

```java
wls:/mydomain/ServerConfig> sca_exportCompositeMb('property', '/tmp/sca_HelloWorld_rev1.0-prop.jar', 'HelloWorld', '1.0')
```

This example exports a composite with runtime/metadata postdeployment updates.

```java
wls:/mydomain/ServerConfig> sca_exportCompositeMb('runtime', '/tmp/sca_HelloWorld_rev1.0-runtime.jar', 'HelloWorld', '1.0')
```

### 2.10.2 sca_exportUpdatesMb

Command Category: Application Export and Import Commands

Use with WLST: Online

#### 2.10.2.1 Description

Exports postdeployment changes of a SOA composite application into a JAR file.

#### 2.10.2.2 Syntax

```java
sca_exportUpdatesMb(updateType, jarFile, compositeName, revision)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>updateType</td>
<td>Type of postdeployment changes to be exported: all, property, or runtime.</td>
</tr>
<tr>
<td>jarFile</td>
<td>Absolute path of a JAR file to generate.</td>
</tr>
</tbody>
</table>
### 2.10.2.3 Examples

The following example exports all postdeployment updates.

```bash
wls:/mydomain/ServerConfig> sca_exportUpdatesMb('all', '/tmp/all-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports property postdeployment updates.

```bash
wls:/mydomain/ServerConfig> sca_exportUpdatesMb('property', '/tmp/prop-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

The following example exports runtime/metadata postdeployment updates.

```bash
wls:/mydomain/ServerConfig> sca_exportUpdatesMb('runtime', '/tmp/runtime-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

### 2.10.3 sca_importUpdatesMb

**Command Category:** Application Export and Import Commands

**Use with WLST:** Online

#### 2.10.3.1 Description

Imports postdeployment changes of a SOA composite application.

#### 2.10.3.2 Syntax

```bash
sca_importUpdatesMb(jarFile, compositeName, revision)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>jarFile</code></td>
<td>Absolute path of a JAR file that contains postdeployment changes.</td>
</tr>
<tr>
<td><code>compositeName</code></td>
<td>Name of the composite to which the postdeployment changes are imported.</td>
</tr>
<tr>
<td><code>revision</code></td>
<td>Revision of the composite to which the postdeployment changes are imported.</td>
</tr>
</tbody>
</table>

#### 2.10.3.3 Examples

The following example imports postdeployment changes of a SOA composite application.

```bash
wls:/mydomain/ServerConfig> sca_importUpdatesMb('/tmp/all-HelloWorld_rev1.0.jar', 'HelloWorld', '1.0')
```

### 2.10.4 sca_exportSharedDataMb

**Command Category:** Application Export and Import Commands

**Use with WLST:** Online
2.10.4.1 Description
Exports shared data of a given pattern into a JAR file.

2.10.4.2 Syntax

sca_exportSharedDataMb(jarFile, pattern)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>jarFile</td>
<td>Absolute path of a JAR file to generate.</td>
</tr>
<tr>
<td>pattern</td>
<td>The file pattern supported by MDS transfer APIs. Use the semicolon delimiter (;) if more than one pattern is specified. Exclude the shared data namespace /apps in the pattern. For example: /Project1/<strong>;/Project2/</strong> This example exports all documents under /apps/Project1 and /apps/Project2.</td>
</tr>
</tbody>
</table>

2.10.4.3 Examples
This example exports shared data of given pattern into a JAR file.

wls:/mydomain/ServerConfig> sca_exportSharedDataMb('/tmp/MySharedData.jar', '/Project1/**')

2.11 SOA Composite Application Partition Management Commands

Use the deployment commands, listed in Table 2-11, to manage partitions. Partitioning enable you to logically group different revisions of your SOA composite applications into separate sections. This is similar to the concept of domains in the 10.1.x releases of Oracle BPEL Process Manager.

Table 2-11 SOA Composite Application Partition Management Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_createPartition</td>
<td>Create a partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_deletePartition</td>
<td>Undeploy all SOA composite applications in a partition before deleting the partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_startCompositesInPartition</td>
<td>Start all SOA composite applications in a partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_stopCompositesInPartition</td>
<td>Stop all SOA composite applications in a partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_activateCompositesInPartition</td>
<td>Activate all SOA composite applications in a partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_retireCompositesInPartition</td>
<td>Retire all SOA composite applications in a partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_listPartitions</td>
<td>List all partitions in the SOA Infrastructure.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 2-11 (Cont.) SOA Composite Application Partition Management Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_listCompositesInPartition</td>
<td>List all composites in a specific partition.</td>
<td>Online</td>
</tr>
<tr>
<td>sca_createPartitionWMG</td>
<td>Create a partition and associate it with a work manager group.</td>
<td>Online</td>
</tr>
</tbody>
</table>

2.11.1 sca_createPartition

Command Category: Application Partition Management Commands

Use with WLST: Online

2.11.1.1 Description

Creates a partition.

2.11.1.2 Syntax

sca_createPartition(partitionName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.1.3 Examples

This example creates a partition named myPartition.

wls:/mydomain/ServerConfig> sca_createPartition('myPartition')

2.11.2 sca_deletePartition

Command Category: Application Partition Management Commands

Use with WLST: Online

2.11.2.1 Description

Undeploys all composites in a partition before deleting the partition.

2.11.2.2 Syntax

sca_deletePartition(partitionName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.2.3 Examples

This example undeploys all composites in the myPartition partition before deleting the partition.
2.11.3 sca_startCompositesInPartition

Command Category: Application Partition Management Commands
Use with WLST: Online

2.11.3.1 Description
Starts all composites in a partition.

2.11.3.2 Syntax
sca_startCompositesInPartition(partitionName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.3.3 Examples
This example starts all composites in the myPartition partition.

wls:/mydomain/ServerConfig> sca_startCompositesInPartition('myPartition')

2.11.4 sca_stopCompositesInPartition

Command Category: Application Partition Management Commands
Use with WLST: Online

2.11.4.1 Description
Stops all composites in a partition.

2.11.4.2 Syntax
sca_stopCompositesInPartition(partitionName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.4.3 Examples
This example stops all composites in the myPartition partition.

wls:/mydomain/ServerConfig> sca_stopCompositesInPartition('myPartition')

2.11.5 sca_activateCompositesInPartition

Command Category: Application Partition Management Commands
Use with WLST: Online

2.11.5.1 Description
Activates all composites in a partition.
2.11.5.2 Syntax

`sca_activateCompositesInPartition(partitionName)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>partitionName</code></td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.5.3 Examples

This example activates all composites in the `myPartition` partition.

`wls:/mydomain/ServerConfig> sca_activateCompositesInPartition('myPartition')`

2.11.6 `sca_retireCompositesInPartition`

Command Category: Application Partition Management Commands

Use with WLST: Online

2.11.6.1 Description

Retires all composites in a partition.

2.11.6.2 Syntax

`sca_retireCompositesInPartition(partitionName)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>partitionName</code></td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.6.3 Examples

This example retires all composites in the `myPartition` partition.

`wls:/mydomain/ServerConfig> sca_retireCompositesInPartition('myPartition')`

2.11.7 `sca_listPartitions`

Command Category: Application Partition Management Commands

Use with WLST: Online

2.11.7.1 Description

Lists all partitions in the SOA Infrastructure.

2.11.7.2 Syntax

`sca_listPartitions()`

2.11.7.3 Examples

This example lists all partitions in the SOA Infrastructure.

`wls:/mydomain/ServerConfig> sca_listPartitions()`
2.11.8 sca_listCompositesInPartition

Command Category: Application Partition Management Commands
Use with WLST: Online

2.11.8.1 Description
Lists all composites in a partition.

2.11.8.2 Syntax
sca_listCompositesInPartition(partitionName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition.</td>
</tr>
</tbody>
</table>

2.11.8.3 Examples
This example lists all composites in the myPartition partition.

sca_listCompositesInPartition(myPartition)

2.11.9 sca_createPartitionWMG

Command Category: Application Partition Management Commands
Use with WLST: Online

2.11.9.1 Description
Creates a partition and associates it with a work manager group. The work manager group is created if it does not exist.

2.11.9.2 Syntax
sca_createPartitionWMG(partitionName, workmanagerGroupName, workmanagerGroupDescription)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition to be created.</td>
</tr>
<tr>
<td>workmanagerGroupName</td>
<td>The name of the work manager group to use. The work manager group is created if it does not exist.</td>
</tr>
<tr>
<td>workmanagerGroupDescription</td>
<td>The description of the work manager group if it is to be created.</td>
</tr>
</tbody>
</table>

2.11.9.3 Examples
This example creates a partition named myPartition and associates it with a new work manager group named myWMG. Since this work manager group is being created, a description is provided.

sca_createPartitionWMG('myPartition', 'myWMG', 'my new workmanagerGroup')
2.12 SOA Composite Application Offline Deployment Management Commands

Use the deployment commands, listed in Table 2-12, to manage offline deployments of SOA composite applications and shared data in the following file:

$domain/config/fmwconfig/composite-offline-deployments-default.xml

When you restart the SOA server, the SOA composite applications and shared data registered in the file are deployed.

Table 2-12 SOA Composite Application Offline Deployment Management Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>sca_registerCompositeOfflineDeployment</td>
<td>Register offline deployments of SOA composite applications and shared data.</td>
<td>Offline</td>
</tr>
<tr>
<td>sca_unregisterCompositeOfflineDeployment</td>
<td>Unregister offline deployments of SOA composite applications and shared data</td>
<td>Offline</td>
</tr>
</tbody>
</table>

Note the following guidelines when using these WLST commands:

- If the same SOA composite application is registered again and the corresponding SAR file has the same name, the composite is not redeployed. The composite is bypassed during offline deployment. This is because offline deployment does not support composite redeployments.

- Ensure that your SOA composite application JAR name is prefixed with sca_. The sca_registerCompositeOfflineDeployment command registers either shared data deployment or composite deployment. The composite SAR file is always named as sca_*.jar. Only JAR files that start with sca_ are considered composite SAR files. JAR files that do not start with sca_ are treated as a shared data file.

- When you register a newer revision of a SOA composite application (for example, revision 2.0 of sca_HelloWorld.jar) with the sca_registerCompositeOfflineDeployment command and then restart the server, the previous default SOA composite application revision (for example, revision 1.0 of sca_HelloWorld.jar) is retired. Any runtime changes that were performed in the older 1.0 revision with a runtime tool such as Oracle SOA Composer are merged into the newer 2.0 revision.

For information about offline deployment with configuration files, see Section "Deploying SOA Composite Applications with No Servers Running" of Developing SOA Applications with Oracle SOA Suite.

For more information about SAR file naming conventions, see Section "Deployed Service Archives" of Developing SOA Applications with Oracle SOA Suite.

2.12.1 sca_registerCompositeOfflineDeployment

Command Category: Application Offline Deployment Management Commands

Use with WLST: Offline
2.12.1.1 Description
Registers offline deployments of SOA composite applications and shared data in the composite-offline-deployments-default.xml file. Registration enables the SOA composite applications and shared data listed in the file to be deployed when the SOA server is restarted.

2.12.1.2 Syntax
sca_registerCompositeOfflineDeployment (domainDir, fileLocation, partition)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>domainDir</td>
<td>The absolute path to the server domain.</td>
</tr>
<tr>
<td>fileLocation</td>
<td>The absolute path of a composite SAR file or shared data JAR file.</td>
</tr>
<tr>
<td>default</td>
<td>The partition in which to deploy the composite. This argument is optional. If not specified, the default partition named default is used.</td>
</tr>
</tbody>
</table>

2.12.1.3 Examples
This example specifies the domain directory and the file location for the sca_HelloWorld.jar composite.
wis:/mydomain/ServerConfig> sca_registerCompositeOfflineDeployment (/scratch/aime1/fmwhome12/user_projects/domains/soainfra, /tmp/sca_HelloWorld.jar)

This example specifies the domain directory, the file location for the sca_App1.jar composite, and the partition myPartition.
wis:/mydomain/ServerConfig> sca_registerCompositeOfflineDeployment (/scratch/aime1/fmwhome12/user_projects/domains/soainfra', '/tmp/sca_App1.jar', partition="myPartition")

This example specifies the domain directory and the file location for the shareddata.jar shared data file.
wis:/mydomain/ServerConfig> sca_registerCompositeOfflineDeployment (/scratch/aime1/fmwhome12/user_projects/domains/soainfra', '/tmp/shareddata.jar')

2.12.2 sca_unregisterCompositeOfflineDeployment
Command Category: Application Offline Deployment Management Commands
Use with WLST: Offline

2.12.2.1 Description
Unregisters (removes) the SOA composite application or shared data from the $domain/config/fmwconfig/composite-offline-deployments-default.xml file so that it is not processed during a server restart. The composite or shared data is not checked during the offline deployment process. This does not impact the existing SOA composite applications. It does not undeploy or retire the composite when the server restarts.
2.12.2.2 Syntax

sca_unregisterCompositeOfflineDeployment(domainDir, fileLocation)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>domainDir</td>
<td>The absolute path to the server domain.</td>
</tr>
<tr>
<td>fileLocation</td>
<td>The absolute path of a composite SAR file or a shared data JAR file.</td>
</tr>
</tbody>
</table>

2.12.2.3 Examples

This example specifies the domain directory and the `sca_HelloWorld.jar` SAR file.

```
wls:/mydomain/ServerConfig> sca_unregisterCompositeOfflineDeployment ('/scratch/aimel/fmwhome12/user_projects/domains/soainfra','/tmp/sca_HelloWorld.jar')
```

This example specifies the domain directory and the `shareddata.jar` shared data file.

```
wls:/mydomain/ServerConfig> sca_unregisterCompositeOfflineDeployment('/scratch/aimel/fmwhome12/user_projects/domains/soainfra','/tmp/shareddata.jar')
```

2.13 SOA Health Check Commands

The SOA Health Check framework provides a number of health checks and health check categories to monitor the health of your system. Checks include memory checks, data source checks, SOA-related service checks, SOA application-targeting checks, BPEL-related checks, and so on.

Use the SOA Health Check commands, listed in Table 2-13, to configure and execute SOA health checks.

<table>
<thead>
<tr>
<th>Table 2-13</th>
<th>SOA Health Check Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this command...</td>
<td>To...</td>
</tr>
<tr>
<td>executeHealthCheckAndGenerateReport</td>
<td>Execute a health check and retrieve the report.</td>
</tr>
<tr>
<td>executeHealthCheckCategoryAndGenerateReport</td>
<td>Execute a health check category and retrieve the report.</td>
</tr>
<tr>
<td>executeHealthChecksAndGenerateReport</td>
<td>Execute the specified health checks and retrieve the report.</td>
</tr>
<tr>
<td>getUnsuccessfulHCRequestIds</td>
<td>Retrieve all unsuccessful run ids in the specified time interval.</td>
</tr>
<tr>
<td>getUnsuccessfulHCRequestResultReport</td>
<td>Retrieve the report corresponding to the specified unsuccessful health check run-id.</td>
</tr>
</tbody>
</table>
### Table 2-13  (Cont.) SOA Health Check Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>listHealthChecks</td>
<td>List all registered health checks.</td>
<td>Online</td>
</tr>
<tr>
<td>listHealthChecksInCategory</td>
<td>List all health checks in the specified category.</td>
<td>Online</td>
</tr>
<tr>
<td>listHealthCheckCategories</td>
<td>List all health check categories.</td>
<td>Online</td>
</tr>
<tr>
<td>deleteAllHCRequestResults</td>
<td>Delete all health check request results.</td>
<td>Online</td>
</tr>
<tr>
<td>deleteHCRequestResults</td>
<td>Delete health check request results gathered during the specified time interval.</td>
<td>Online</td>
</tr>
<tr>
<td>getUnsuccessfulHCResultReport</td>
<td>Retrieve the results report of unsuccessful health check runs that match a filter criteria.</td>
<td>Online</td>
</tr>
<tr>
<td>getHCParameter</td>
<td>Retrieve the current value of a health check parameter.</td>
<td>Online</td>
</tr>
<tr>
<td>setHCParameter</td>
<td>Set the value for a health check parameter.</td>
<td>Online</td>
</tr>
<tr>
<td>resetHCParameter</td>
<td>Reset a health check parameter to its default value.</td>
<td>Online</td>
</tr>
<tr>
<td>getHCParameters</td>
<td>Retrieve the list of health check parameters and their values.</td>
<td>Online</td>
</tr>
<tr>
<td>enableHCStartupRun</td>
<td>Enable or disable the health check startup run.</td>
<td>Online</td>
</tr>
<tr>
<td>setHCStartupRunCategory</td>
<td>Change the category used for the health check startup run.</td>
<td>Online</td>
</tr>
<tr>
<td>getHCStartupRun</td>
<td>Retrieve the health check startup run details.</td>
<td>Online</td>
</tr>
<tr>
<td>createHCPeriodicRun</td>
<td>Create a health check periodic run with the specified name and settings.</td>
<td>Online</td>
</tr>
<tr>
<td>enableHCPeriodicRun</td>
<td>Enable or disable a health check periodic run.</td>
<td>Online</td>
</tr>
<tr>
<td>setHCPeriodicRunInterval</td>
<td>Change the interval for a periodic run.</td>
<td>Online</td>
</tr>
<tr>
<td>setHCPeriodicRunSchedule</td>
<td>Change the schedule for a periodic run.</td>
<td>Online</td>
</tr>
</tbody>
</table>
### Table 2-13 (Cont.) SOA Health Check Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>setHCPeriodicRunCategory</td>
<td>Change the category of a periodic run to the specified category.</td>
<td>Online</td>
</tr>
<tr>
<td>getHCPeriodicRun</td>
<td>Retrieve settings for the specified periodic run.</td>
<td>Online</td>
</tr>
<tr>
<td>getHCPeriodicRuns</td>
<td>Retrieve details of all health check periodic runs.</td>
<td>Online</td>
</tr>
<tr>
<td>removeHCPeriodicRun</td>
<td>Delete a health check periodic run.</td>
<td>Online</td>
</tr>
<tr>
<td>getDisabledHealthChecks</td>
<td>Retrieve the list of disabled health checks.</td>
<td>Online</td>
</tr>
<tr>
<td>addDisabledHealthCheck</td>
<td>Disable a health check.</td>
<td>Online</td>
</tr>
<tr>
<td>removeDisabledHealthCheck</td>
<td>Re-enable a disabled health check.</td>
<td>Online</td>
</tr>
</tbody>
</table>

### 2.13.1 executeHealthCheckAndGenerateReport

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**

Executes the specified health check and retrieves a report of the run.

**Syntax**

```java
executeHealthCheckAndGenerateReport(hcName, fileName)
```

**Argument**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>hcName</code></td>
<td>Name of the health check to execute.</td>
</tr>
<tr>
<td><code>fileName</code></td>
<td>Name and path of the file used to store the output report.</td>
</tr>
</tbody>
</table>

**Example 2-1**

The following example executes the DatasourceCheck health check and stores the result in `/tmp/myfile`.

```
wlst/mydomain/ServerConfig> executeHealthCheckAndGenerateReport('DatasourceCheck', '/tmp/myfile')
```

### 2.13.2 executeHealthCheckCategoryAndGenerateReport

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Example 2-1**

The following example executes the DatasourceCheck health check and stores the result in `/tmp/myfile`.

```
wlst/mydomain/ServerConfig> executeHealthCheckAndGenerateReport('DatasourceCheck', '/tmp/myfile')
```
**Description**
Executes the specified health check category and retrieves a report of the run.

**Syntax**
```
executeHealthCheckCategoryAndGenerateReport(categoryName, fileName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>categoryName</td>
<td>Name of the health check category to execute.</td>
</tr>
<tr>
<td>fileName</td>
<td>Name and path of the file used to store the output report.</td>
</tr>
</tbody>
</table>

**Example 2-2 Example**
The following example executes the Startup health check category and stores the result in /tmp/myfile.
```
wlst:/mydomain/ServerConfig> executeHealthCheckCategoryAndGenerateReport('Startup', '/tmp/myfile')
```

### 2.13.3 `executeHealthChecksAndGenerateReport`

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**
Executes the specified health checks and retrieves a report of the run.

**Syntax**
```
executeHealthChecksAndGenerateReport(hcNames, fileName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>hcNames</td>
<td>Names of the health checks to execute.</td>
</tr>
<tr>
<td>fileName</td>
<td>Name and path of the file used to store the output report.</td>
</tr>
</tbody>
</table>

**Example 2-3 Example**
```
wlst:/mydomain/ServerConfig> executeHealthChecksAndGenerateReport(['DatasourceCheck', 'SOALibraryCheck'], '/tmp/myfile')
```

### 2.13.4 `getUnsuccessfulHCRequestIds`

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**
Retrieves all unsuccessful run ids in the specified time interval.
Syntax

getUnsuccessfulHCRequestIds(startTime, endTime)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>startTime</td>
<td>Start time of the interval.</td>
</tr>
<tr>
<td>endTime</td>
<td>End time of the interval.</td>
</tr>
</tbody>
</table>

Example 2-4  Example

The following example retrieves all unsuccessful run ids between 1:00 pm and 3:00 pm on 17th June, 2014.

wls:/mydomain/ServerConfig> getUnsuccessfulHCRequestIds('Jun 17, 2014 1:00:00 PM','Jun 17, 2014 3:00:00 PM')

2.13.5 getUnsuccessfulHCRequestResultReport

Command Category: SOA Health Check Commands

Use with WLST: Online

Description

Retrieves the report corresponding to the specified unsuccessful health check run-id.

Syntax

getUnsuccessfulHCRequestResultReport(id, fileName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Health check run id.</td>
</tr>
<tr>
<td>fileName</td>
<td>Name and path of the file used to store the output report.</td>
</tr>
</tbody>
</table>

Example 2-5  Example

The following example retrieves the report corresponding to run id 2 and stores it in /tmp/myfile.

wls:/mydomain/ServerConfig> getUnsuccessfulHCRequestResultReport('2', '/tmp/myfile')

2.13.6 listHealthChecks

Command Category: SOA Health Check Commands

Use with WLST: Online

Description

Lists all registered health checks.

Syntax

listHealthChecks()
Example 2-6  Example

The following example lists the registered health checks.

```
wlst:/mydomain/ServerConfig> listHealthChecks()
```

Successfully executed the command. Registered health checks are:

```
[DatasourceCheck]
[SOAAppCheck]
[JBDCPoolsCheck]
[SOALibraryCheck]
[BPELAsyncRequestCheck]
[BPELComponentInstanceCheck]
[EDNMessageCheck]
[ServiceCheck]
[MemoryCheck]
```

2.13.7 listHealthChecksInCategory

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**

Lists all health checks in the specified category.

**Syntax**

```
listHealthChecksInCategory(categoryName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>categoryName</td>
<td>Name of the health check category.</td>
</tr>
</tbody>
</table>

Example 2-7  Example

The following example lists all health checks under the Startup category.

```
wlst:/mydomain/ServerConfig> listHealthChecksInCategory('Startup')
```

Successfully executed the command. Registered health checks in the given category are:

```
[DatasourceCheck]
[SOAAppCheck]
[JBDCPoolsCheck]
[SOALibraryCheck]
[ServiceCheck]
[MemoryCheck]
```

2.13.8 listHealthCheckCategories

Command Category: SOA Health Check Commands

Use with WLST: Online
**Description**
Lists all health check categories.

**Syntax**
listHealthCheckCategories()

**Example 2-8  Example**
The following example lists the health check categories:

```
wlst/mydomain/ServerConfig> listHealthCheckCategories()
Successfully executed the command. Registered health check categories are:
----------------------------------------------------------------------------
[Startup]
[Quick]
[Intermediate]
[Extensive]
[Config]
----------------------------------------------------------------------------
```

2.13.9 deleteAllHCRequestResults
Command Category: SOA Health Check Commands
Use with WLST: Online

**Description**
Deletes all health check request results.

**Syntax**
deleteAllHCRequestResults()

**Example 2-9  Example**
The following example deletes all health check request results:

```
wlst/mydomain/ServerConfig> deleteAllHCRequestResults()
Successfully executed the command.
```

2.13.10 deleteHCRequestResults
Command Category: SOA Health Check Commands
Use with WLST: Online

**Description**
Deletes health check request results gathered during the specified time interval.

**Syntax**
deleteHCRequestResults(startTime, endTime)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>startTime</td>
<td>Time stamp of start of the time interval.</td>
</tr>
<tr>
<td>endTime</td>
<td>Time stamp of end of the time interval.</td>
</tr>
</tbody>
</table>
### 2.13.11 getUnsuccessfulHCResultReport

**Command Category:** SOA Health Check Commands  
Use with WLST: Online

**Description**
Retrieves the results report of unsuccessful health check runs that match the specified filter criteria.

- If `stateNames` is not passed, then all states are used. 
- If `hcName` is not passed, then all health checks are considered. 
- If `fileName` is not passed, a report called `hcResultReport.html` is generated in the current working directory.

**Syntax**

```python
getUnsuccessfulHCResultReport(startTime, endTime, stateNames=[], hcName=None, fileName='hcResultReport.html')
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>startTime</code></td>
<td>Start time of the interval.</td>
</tr>
<tr>
<td><code>endTime</code></td>
<td>End time of the interval.</td>
</tr>
<tr>
<td><code>stateNames</code></td>
<td>Optional. State names (for example, ['Success'])</td>
</tr>
<tr>
<td><code>hcName</code></td>
<td>Optional. Name of the health check for which unsuccessful result reports are to be retrieved.</td>
</tr>
<tr>
<td><code>fileName</code></td>
<td>Optional. Name and path of the file in which the output report is to be stored.</td>
</tr>
</tbody>
</table>

**Example 2-11 Example**

```bash
wls:/mydomain/ServerConfig> getUnsuccessfulHCResultReport('Jan 1, 1970 0:00:00 AM', 'Jul 22, 2014 8:00:00 PM', ['Success'], 'DatasourceCheck', '/tmp/myfile')
```

### 2.13.12 getHCParameter

**Command Category:** SOA Health Check Commands  
Use with WLST: Online
**Description**
Retrieves the current value of the specified health check parameter.

**Syntax**
getHCParameter(paramName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>paramName</td>
<td>Name of the health check parameter to check.</td>
</tr>
</tbody>
</table>

**Example 2-12 Example**

wls:/mydomain/ServerConfig> getHCParameter("MemoryCheck.memThreshold")

Health Check Parameter:
----------------------------
Name : MemoryCheck.memThreshold
Value : 25

### 2.13.13 setHCParameter

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**
Sets the specified value for a health check parameter. This command overrides the default value of the health check parameter.

**Syntax**
setHCParameter(paramName, paramValue)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>paramName</td>
<td>Name of the health check parameter to update.</td>
</tr>
<tr>
<td>paramValue</td>
<td>New value of the health check parameter.</td>
</tr>
</tbody>
</table>

**Example 2-13 Example**

wls:/mydomain/ServerConfig> setHCParameter("MemoryCheck.memThreshold", "35")

### 2.13.14 resetHCParameter

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**
Resets the specified health check parameter to its default value.
Syntax
resetHCParameter(paramName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>paramName</td>
<td>Name of the health check parameter to update.</td>
</tr>
</tbody>
</table>

Example 2-14  Example

wls:/mydomain/ServerConfig> resetHCParameter("MemoryCheck.memThreshold")

2.13.15 getHCParameters

Command Category: SOA Health Check Commands
Use with WLST: Online

Description
Retrieves the list of health check parameters and their values.

Syntax
getHCParameters()

Example 2-15  Example

wls:/mydomain/ServerConfig> getHCParameters()

Successfully executed the command. Health check parameters are:
----------------------------------------------------------------
JDBCPoolsCheck.ConnectionMaxMillis=2000
EDNMessageCheck.pendingMsgOaooCount=5000
EDNMessageCheck.pendingMsgCount=2000
BPELAsyncRequestCheck.pendingAsyncReqCount=1000
BPELComponentInstanceCheck.faultInstanceCount=500
BPELComponentInstanceCheck.openInstanceCount=1000
JDBCPoolsCheck.TestMaxMillis=1000
MemoryCheck.memThreshold=35
----------------------------------------------------------------

2.13.16 enableHCStartupRun

Command Category: SOA Health Check Commands
Use with WLST: Online

Description
Enables or disables the health check startup run.

Syntax
enableHCStartupRun(enabledFlag)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>enabledFlag</td>
<td>Flag to enable or disable the health check startup run.</td>
</tr>
<tr>
<td>enabledFlag</td>
<td>Boolean value (true or false) used to enable or disable the health check startup run.</td>
</tr>
</tbody>
</table>

**Example 2-16  Example**
The following example enables the startup run.

```
wsli/mydomain/ServerConfig> enableHCStartupRun(true)
```

### 2.13.17 setHCStartupRunCategory

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online  

**Description**
Changes the category used for the health check startup run.

**Syntax**

```
setHCStartupRunCategory(categoryName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>categoryName</td>
<td>Name of the health check category to be used for the startup run.</td>
</tr>
</tbody>
</table>

**Example 2-17  Example**
The following example sets the startup run category to Quick.

```
wlsli/mydomain/ServerConfig> setHCStartupRunCategory('Quick')
```

### 2.13.18 getHCStartupRun

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online  

**Description**
Retrieves the health check startup run details. The details include the startup run health check category and the status of the run (enabled or disabled).

**Syntax**

```
getHCStartupRun()
```

**Example 2-18  Example**

```
wlsli/mydomain/ServerConfig> getHCStartupRun()
```

Startup Run  
-------------  
Category Name : Startup  
Enabled : true
2.13.19 createHCPeriodicRun

Command Category: SOA Health Check Commands
Use with WLST: Online

Description
Creates a health check periodic run with the specified name and settings.

Syntax
createHCPeriodicRun(name, enabledFlag, interval, minuteOfHour, hourOfDay, dayOfWeek, categoryName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the periodic run.</td>
</tr>
<tr>
<td>enabledFlag</td>
<td>Boolean value (true or false) that determines whether the periodic run is enabled or disabled.</td>
</tr>
<tr>
<td>interval</td>
<td>Interval or time period (in minutes) between two periodic runs.</td>
</tr>
<tr>
<td>minuteOfHour</td>
<td>Minute of the hour at which to start the first run. The value -1 stands for immediate.</td>
</tr>
<tr>
<td>hourOfDay</td>
<td>Hour of the day at which to start the first run. The value -1 stands for immediate.</td>
</tr>
<tr>
<td>dayOfWeek</td>
<td>Day of the week at which to start the first run. The value -1 stands for immediate.</td>
</tr>
<tr>
<td>categoryName</td>
<td>Name of the health check category to be used for the periodic run.</td>
</tr>
</tbody>
</table>

Example 2-19 Example
wls:/mydomain/ServerConfig> createHCPeriodicRun('myrun', true, 30, 0, -1, -1, 'Intermediate')

2.13.20 enableHCPeriodicRun

Command Category: SOA Health Check Commands
Use with WLST: Online

Description
Enables or disables a health check periodic run.

Syntax
enableHCPeriodicRun(name, enabledFlag)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>enabledFlag</td>
<td></td>
</tr>
</tbody>
</table>
### 2.13.21 setHCPeriodicRunInterval

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**  
Changes the interval of the specified periodic run.

**Syntax**  
```
setHCPeriodicRunInterval(name, interval)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the health check periodic run.</td>
</tr>
<tr>
<td>interval</td>
<td>Time interval, in minutes, between successive executions of the specified periodic run.</td>
</tr>
</tbody>
</table>

**Example 2-21**  
The following example sets the interval to 2 hours for the myrun periodic health check:  
```bash
wls:/mydomain/ServerConfig> setHCPeriodicRunInterval('myrun', 120)
```

### 2.13.22 setHCPeriodicRunSchedule

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**  
Changes the schedule for the specified periodic run.

**Syntax**  
```
setHCPeriodicRunSchedule(name, minuteOfHour, hourOfDay, dayOfWeek)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the health check periodic run.</td>
</tr>
</tbody>
</table>

---

**Example 2-20**  
The following example enables the myrun periodic health check:  
```bash
wls:/mydomain/ServerConfig> enableHCPeriodicRun('myrun', true)
```
### minuteOfHour
Minute of the hour at which to start the first run. The value -1 stands for immediate.

### hourOfDay
Hour of the day at which to start the first run. The value -1 stands for immediate.

### dayOfWeek
Day of the week at which to start the first run. The value -1 stands for immediate.

#### Example 2-22

```wls:/mydomain/ServerConfig> setHCPeriodicRunSchedule('hourly', 0, -1, -1)```

### 2.13.23 setHCPeriodicRunCategory

Command Category: SOA Health Check Commands  
Use with WLST: Online  

**Description**  
Changes the category of a periodic run to the specified category.

**Syntax**  
```python
setHCPeriodicRunCategory(name, categoryName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the health check periodic run.</td>
</tr>
<tr>
<td>categoryName</td>
<td>Name of the health check category to be used for the periodic run.</td>
</tr>
</tbody>
</table>

#### Example 2-23

```wls:/mydomain/ServerConfig> setHCPeriodicRunCategory('myrun', 'Extensive')```

### 2.13.24 getHCPeriodicRun

Command Category: SOA Health Check Commands  
Use with WLST: Online  

**Description**  
Retrieves details (like category, schedule, and enabled status) for the specified periodic run.

**Syntax**  
```python
getHCPeriodicRun(name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the health check periodic run.</td>
</tr>
</tbody>
</table>
**Example 2-24**  

Example

`wls:/mydomain/ServerConfig> getHCPeriodicRun('myrun')`

Periodic Run

```
Name           : myrun
Category Name  : Extensive
Enabled        : false
Interval       : 2
Day of week    : -1
Hour of day    : -1
Minute of hour : 0
```

### 2.13.25 getHCPeriodicRuns

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**

Retrieves the details of all the health check periodic runs.

**Syntax**

`getHCPeriodicRuns()`

**Example 2-25**  

Example

`wls:/mydomain/ServerConfig> getHCPeriodicRuns()`

Periodic Run Table

```
PeriodicRun: frequently, enabled=false, interval=60, minuteOfHour=7, hourOfDay=-1, dayOfWeek=-1, category=Quick
PeriodicRun: daily, enabled=false, interval=1440, minuteOfHour=15, hourOfDay=5, dayOfWeek=-1, category=Intermediate
PeriodicRun: weekly, enabled=false, interval=10080, minuteOfHour=30, hourOfDay=3, dayOfWeek=1, category=Extensive
PeriodicRun: myrun, enabled=false, interval=2, minuteOfHour=0, hourOfDay=-1, dayOfWeek=-1, category=Extensive
PeriodicRun: myrun2, enabled=false, interval=2, minuteOfHour=0, hourOfDay=-1, dayOfWeek=-1, category=Extensive
PeriodicRun: myrun3, enabled=false, interval=2, minuteOfHour=0, hourOfDay=-1, dayOfWeek=-1, category=Intermediate
PeriodicRun: myrun4, enabled=false, interval=30, minuteOfHour=0, hourOfDay=-1, dayOfWeek=-1, category=Intermediate
```

### 2.13.26 removeHCPeriodicRun

**Command Category:** SOA Health Check Commands  
**Use with WLST:** Online

**Description**

Deletes the specified health check periodic run.

**Syntax**

`removeHCPeriodicRun(name)`
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the health check periodic run to delete.</td>
</tr>
</tbody>
</table>

**Example 2-26 Example**

```wls:/mydomain/ServerConfig> removeHCPeriodicRun('myrun')```

### 2.13.27 getDisabledHealthChecks

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**

Retrieves the list of disabled health checks.

**Syntax**

`getDisabledHealthChecks()`

**Example 2-27 Example**

```wls:/mydomain/ServerConfig> getDisabledHealthChecks()```

### 2.13.28 addDisabledHealthCheck

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**

Disables the specified health check.

**Syntax**

`addDisabledHealthCheck(hcName)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>hcName</td>
<td>Name of the health check to disable.</td>
</tr>
</tbody>
</table>

**Example 2-28 Example**

```wls:/mydomain/ServerConfig> addDisabledHealthCheck('DatasourceCheck')```

### 2.13.29 removeDisabledHealthCheck

Command Category: SOA Health Check Commands

Use with WLST: Online

**Description**

Re-enables the disabled health check.
**Syntax**

removeDisabledHealthCheck(hcName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>hcName</td>
<td>Name of the health check to enable.</td>
</tr>
</tbody>
</table>

**Example 2-29  Example**

wls:/mydomain/ServerConfig> removeDisabledHealthCheck('DatasourceCheck')
This chapter lists and describes the custom WLST commands for Oracle Business Process Management.

### 3.1 BPMLifecycleAdmin Command Group

Table 3-1 lists and describes the BPMLifecycleAdmin commands for project lifecycle administration.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>create_public_share</td>
<td>Create a public share</td>
<td>Offline</td>
</tr>
<tr>
<td>unlock_public_share</td>
<td>Unlock a public share</td>
<td>Offline</td>
</tr>
<tr>
<td>export_public_share</td>
<td>Export a public share to the file system</td>
<td>Offline</td>
</tr>
<tr>
<td>delete_public_share</td>
<td>Delete a public share</td>
<td>Offline</td>
</tr>
<tr>
<td>publish_template</td>
<td>Publish a template to MDS</td>
<td>Offline</td>
</tr>
<tr>
<td>export_template</td>
<td>Export a template to the file system</td>
<td>Offline</td>
</tr>
<tr>
<td>delete_template</td>
<td>Delete a template from MDS</td>
<td>Offline</td>
</tr>
</tbody>
</table>

### 3.1.1 create_public_share

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline

**3.1.1.1 Description**

Use this command to create a public share from a template. The template must exist in MDS.

**3.1.1.2 Syntax**

```bash
create_public_share(composerUser, composerPassword, connectionURL, templateName, publicshareId, mdsconfigLocation, [Override], [oracleHome])
```
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>composerUser</td>
<td>The Business Process Composer user who performs the current operation.</td>
</tr>
<tr>
<td>composerPassword</td>
<td>BPM Composer user’s password</td>
</tr>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format host:port</td>
</tr>
<tr>
<td>templateName</td>
<td>Name of the template in MDS</td>
</tr>
<tr>
<td>publicshareId</td>
<td>Name of the public share to be created</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the mds-config.xml to be used to connect to MDS</td>
</tr>
<tr>
<td>projectLocation</td>
<td>The path where the public share will be created. If the path does not</td>
</tr>
<tr>
<td></td>
<td>exist it will be created. The root is '/'.</td>
</tr>
<tr>
<td>Override</td>
<td>Enables you to override the public share if a public share exists in MDS.</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used.</td>
</tr>
</tbody>
</table>

### 3.1.1.3 Examples

The following example creates a public share named Sample_PublicShare. It is based on the template with name Sample_Template. The name of the public share is Sample_PublicShare, and the location of the mds-config.xml file is /tmp/mds-config.xml.

```java
create_public_share('user_name', 'password', 'host:port', 'Sample_Template', 'Sample_PublicShare', '/tmp/mds-config.xml')
```

The following example creates a public share named Sample_PublicShare. It is based on the template named Sample_Template that exists in MDS. The public share, not the template, is overridden. The location of the mds-config.xml file is /tmp/mds-config.xml.

```java
create_public_share('user_name', 'password', 'host:port', 'Sample_Template', 'Sample_PublicShare', '/tmp/mds-config.xml', 'true')"
```

### 3.1.2 unlock_public_share

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline
### 3.1.2.1 Description

Use this command to unlock a public share. For example, when you create a project by using the Ant task `create_public_share` command, the project is created as locked. You can then unlock it by using the `unlock_public_share` command.

A lock is also set by enabling or disabling the check box **enable sharing** in the project creation page in Oracle Business Process Composer.

It is also released when the user publishes a project from Business Process Composer. The public share must exist in MDS.

### 3.1.2.2 Syntax

```
unlock_public_share(composerUser, composerPassword, connectionURL, publicshareId, mdsconfigLocation, [oracleHome])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>composerUser</td>
<td>The Business Process Composer user who performs the current operation.</td>
</tr>
<tr>
<td>composerPassword</td>
<td>BPM Composer user's password</td>
</tr>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format <code>host:port</code></td>
</tr>
<tr>
<td>publicshareId</td>
<td>Name of the public share to be unlocked</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the <code>mds-config.xml</code> to be used to connect to MDS</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used</td>
</tr>
</tbody>
</table>

### 3.1.2.3 Example

The following example unlocks a public share named `Sample_PublicShare`. The location of the `mds-config.xml` file is `/tmp/mds-config.xml`.

```
unlock_public_share('user_name', 'password', 'host:port','Sample_PublicShare', '/tmp/mds-config.xml')
```

### 3.1.3 export_public_share

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline

#### 3.1.3.1 Description

Use this command to export the public share from MDS to the file system.
### 3.1.3.2 Syntax

```plaintext
export_public_share(composerUser, composerPassword, connectionURL, publicshareId, fsLocation, mdsconfigLocation, [oracleHome])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>composerUser</td>
<td>The Business Process Composer user who performs the current operation.</td>
</tr>
<tr>
<td>composerPassword</td>
<td>BPM Composer user's password</td>
</tr>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format host:port</td>
</tr>
<tr>
<td>publicshareId</td>
<td>Name of the public share to be exported</td>
</tr>
<tr>
<td>fsLocation</td>
<td>File system location where the project is to be downloaded</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the mds-config.xml to be used to connect to MDS</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used</td>
</tr>
</tbody>
</table>

### 3.1.3.3 Example

The following example specifies the public share name as Sample_PublicShare, the file system location as /tmp, and the location of the mds-config.xml file as /tmp/mds-config.xml.

```plaintext
export_public_share('user_name', 'password', 'host:port', 'Sample_PublicShare', '/tmp', '/tmp/mds-config.xml')
```

### 3.1.4 delete_public_share

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline

#### 3.1.4.1 Description

Use this command to delete a public share from MDS. Executing this command requires that the public share is not locked.

#### 3.1.4.2 Syntax

```plaintext
delete_public_share(composerUser, composerPassword, connectionURL, publicshareId, mdsconfigLocation, [releaseLock], [oracleHome])
```
### 3.1.4.3 Examples

The following example specifies the name and location of a public share to be deleted.

```
delete_public_share('Sample_PublicShare', '/tmp/mds-config.xml')
```

The following example specifies the name and location of a public share to be deleted, and that the public share should be deleted even if locked.

```
delete_public_share('user_name', 'password', 'host:port', 'Sample_PublicShare', '/tmp/mds-config.xml', 'true')
```

### 3.1.5 publish_template

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline

#### 3.1.5.1 Description

Use this command to publish the template from the file system to MDS.

#### 3.1.5.2 Syntax

```
publish_template(composerUser, composerPassword, connectionURL, 
    templateName, fsLocation, mdsconfigLocation, [Override], [oracleHome] )
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>composerUser</td>
<td>The Business Process Composer user who performs the current operation.</td>
</tr>
<tr>
<td>composerPassword</td>
<td>BPM Composer user's password</td>
</tr>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format host:port</td>
</tr>
<tr>
<td>publicshareId</td>
<td>Name of the public share to be deleted</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the mds-config.xml to be used to connect to MDS</td>
</tr>
<tr>
<td>releaseLock</td>
<td>Optional. If the public share is locked, this lock can be released and the delete operation completed. You can set this attribute to either true or false. If not specified, default value is false.</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used</td>
</tr>
</tbody>
</table>
**Argument** | **Definition**
---|---
composerPassword | BPM Composer user’s password
connectionURL | JNDI connection URL to the security server service in format host:port
templateName | Name of the template to be published
fsLocation | File system location of the template project
mdsconfigLocation | Location of the mds-config.xml to be used to connect to MDS
projectLocation | The path where the public share will be created. If the path does not exist it will be created. The root is ‘/’. Override | When you publish a template in MDS, this attribute enables you to override an existing template with the same name. Can either be ‘true’ or ‘false’. If not specified, default value is ‘false’. oracleHome | Optional. The Oracle home to be used

### 3.1.5.3 Example

The following example publishes a template named `Sample_Template_Name_MDS` to the root folder.

```
f('user_name', 'password', 'host:port','Sample_Template','/tmp/MyTemplate','/','/tmp/mds-config.xml')
```

The following example publishes a template named `Sample_Template_Name_MDS` to the `/WorkingOn/` folder.

```
publish_template('user_name', 'password', 'host:port','Sample_Template','/tmp/MyTemplate','/WorkingOn','/tmp/mds-config.xml')
```

### 3.1.6 `export_template`

**Command Category:** BPMLifecycleAdmin Commands  
**Use with WLST:** Offline

#### 3.1.6.1 Description

Use this command to export the template from MDS to the file system.

#### 3.1.6.2 Syntax

```
export_template(composerUser, composerPassword, connectionURL, templateName, fsLocation, mdsconfigLocation, [oracleHome] )
```
### 3.1.6.3 Example

The following example specifies the template name as `Sample_Template`, the file system location as `/tmp`, and the location of the `mds-config.xml` file as `/tmp/mds-config.xml`.

```java
export_template('user_name', 'password', 'host:port', 'Sample_Template', '/tmp', '/tmp/mds-config.xml')
```

### 3.1.7 delete_template

Command Category: BPMLifecycleAdmin Commands

Use with WLST: Offline

#### 3.1.7.1 Description

Use this command to delete the template from MDS.

#### 3.1.7.2 Syntax

```java
delete_template(composerUser, composerPassword, connectionURL, 
    templateName, mdsconfigLocation, [oracleHome] )
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>composerUser</td>
<td>The Business Process Composer user who performs the current operation.</td>
</tr>
<tr>
<td>composerPassword</td>
<td>BPM Composer user's password</td>
</tr>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format host:port</td>
</tr>
<tr>
<td>templateName</td>
<td>Name of the template to be exported</td>
</tr>
<tr>
<td>fsLocation</td>
<td>File system location where the project is to be downloaded</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the <code>mds-config.xml</code> to be used to connect to MDS</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used</td>
</tr>
</tbody>
</table>
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectionURL</td>
<td>JNDI connection URL to the security server service in format host:port</td>
</tr>
<tr>
<td>templateName</td>
<td>Name of the template to be deleted</td>
</tr>
<tr>
<td>fsLocation</td>
<td>File system location of the template project</td>
</tr>
<tr>
<td>mdsconfigLocation</td>
<td>Location of the mds-config.xml to be used to connect to MDS</td>
</tr>
<tr>
<td>projectLocation</td>
<td>The path where the public share will be created. If the path does not exist it will be created. The root is ‘/’.</td>
</tr>
<tr>
<td>oracleHome</td>
<td>Optional. The Oracle home to be used</td>
</tr>
</tbody>
</table>

### 3.1.7.3 Example

The following example deletes the template named Sample_template from MDS.

```sql
delete_template('weblogic', 'welcome1', 'host:port', '/Sample_template', '/tmp/mds-config.xml')
```
Use the Oracle Enterprise Scheduler (ESS) commands to manage Oracle Enterprise Scheduler jobs. Many of the commands have analogous convenience shell scripts to make execution simpler. The native commands are described in Oracle Enterprise Scheduler Custom Native Commands and the shell scripts are described in Oracle Enterprise Scheduler Convenience Scripts.

Note:
To use these Oracle Enterprise Scheduler custom WLST commands, you must invoke the WLST script from the Oracle Common home. See "Using Custom WLST Commands" in the Administering Oracle Fusion Middleware.

This chapter includes the following sections:

- Native Invocation
- Oracle Enterprise Scheduler Custom Native Commands
- Oracle Enterprise Scheduler Batch Delete Requests
- Work Allocation Commands
- Oracle Enterprise Scheduler Diagnostic Dumps
- Oracle Enterprise Scheduler Convenience Scripts

4.1 Native Invocation

The following steps describe how to run the native WLST commands described in this chapter. Convenience shell scripts are available for many of these commands and are described in Oracle Enterprise Scheduler Convenience Scripts.

1. Change directory to:

   $ORACLE_HOME/common/bin

2. Place the following JAR archives are in your class path:

   - MW_HOME/oracle_common/modules/oracle.jmx_11.1.1/jmxframework.jar
   - MW_HOME/WLS_HOME/lib/weblogic.jar
   - MW_HOME/ORACLE_HOME/ess/lib/ess-admin.jar
3. Execute one of the following commands:
   - `wlst.sh` (Linux)
   - `wlst.cmd` (Windows)

4. Connect to the WLS Admin Server. For example:
   
   ```
   connect('weblogic', 'weblogic1', 't3://hostabc:7001')
   ```

5. Invoke the WLST commands.

### 4.1.1 Enabling and Disabling Print Statements

You can explicitly enable or disable Oracle Enterprise Scheduler print output as shown below. For interactive use, you must enable printing. By default, Oracle Enterprise Scheduler printing is enabled.

- `enableESSPrint()` — Enables print output for Oracle Enterprise Scheduler WLST commands.
- `disableESSPrint()` — Disables print output for Oracle Enterprise Scheduler WLST commands.

### 4.1.2 Getting Help

While in the WLST console, you can get the list of available Oracle Enterprise Scheduler native commands by typing:

```
wlst:/offline> help('OracleScheduler')
```

For usage information about any command, type `help('command_name')`. For example:

```
wlst:/offline> help('manageSchedulerRuntimeConfig')
```

### 4.2 Oracle Enterprise Scheduler Custom Native Commands

Use the Oracle Enterprise Scheduler commands listed in Table 4-1 to manage the Oracle Enterprise Scheduler server, configuration, job requests, and logs. In the third column, "online" means the command can only be used when connected to a running administration server. "Offline" means the command can only be used when not connected to a running server.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>manageSchedulerRuntimeConfig</code></td>
<td>Add, modify, delete and display various configuration parameters.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getSchedulerRequestContent</code></td>
<td>Get the log and output data files for a request after its execution is completed.</td>
<td>Online</td>
</tr>
<tr>
<td><code>querySchedulerRequests</code></td>
<td>Search and list requests based upon hosting application name, state or elapsed time of execution.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 4-1 (Cont.) Oracle Enterprise Scheduling Service Basic Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>manageSchedulerRequest</td>
<td>Manually cancel, recover, or complete request state.</td>
<td>Online</td>
</tr>
<tr>
<td>manageSchedulerServer</td>
<td>Start, stop or get status of the Oracle Enterprise Scheduler application running on the server.</td>
<td>Online</td>
</tr>
<tr>
<td>submitSchedulerRequest</td>
<td>Submit a job request to Oracle Enterprise Scheduler for execution.</td>
<td>Online</td>
</tr>
<tr>
<td>manageSchedulerJobDefn</td>
<td>Manage (show, create, delete, customize, update) an Oracle Enterprise Scheduler job definition.</td>
<td>Online</td>
</tr>
<tr>
<td>manageSchedulerSchedule</td>
<td>Manage (show, create, delete, update) a schedule definition in Oracle Enterprise Scheduler.</td>
<td>Online</td>
</tr>
</tbody>
</table>

4.2.1 Manage (Add/Delete/Modify/Get) Configuration Parameters

Command Category: Application Management Commands
Use with WLST: Online

4.2.1.1 Description
Adds, modifies, deletes and displays various configuration parameters.

4.2.1.2 Syntax
manageSchedulerRuntimeConfig(app,type,[operation],[name],[val])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>app</td>
<td>The hosting application name for managing run time configuration.</td>
</tr>
<tr>
<td>type</td>
<td>The property type. Can be either APP or ESS.</td>
</tr>
<tr>
<td>operation</td>
<td>Optional. The operation to perform. One of the following:</td>
</tr>
<tr>
<td></td>
<td>• Add (add)</td>
</tr>
<tr>
<td></td>
<td>• Modify (mod)</td>
</tr>
<tr>
<td></td>
<td>• Delete (del)</td>
</tr>
<tr>
<td></td>
<td>• Get (get)</td>
</tr>
<tr>
<td></td>
<td>• Get All (getall)</td>
</tr>
<tr>
<td>name</td>
<td>(Optional for the getall operation) The name of the configuration parameter.</td>
</tr>
<tr>
<td>val</td>
<td>(Optional for the del/get/getall operations) Value to set for the parameter.</td>
</tr>
</tbody>
</table>
4.2.1.3 Examples

- Add an ENV parameter foo with value "bar":
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP", operation="add", name="foo", val="bar")
  ```
- Get the value of ENV parameter foo:
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP", operation="get", name="foo")
  ```
- Get the list of all ENV parameters:
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP")
  ```
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP", operation="getall")
  ```
- Change the value of the ENV parameter foo to "barone":
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP", operation="mod", name="foo", val="barone")
  ```
- Delete the ENV parameter foo:
  ```java
  manageSchedulerRuntimeConfig("myapp", "APP", operation="del", name="foo")
  ```
- Show all parameters of type ESS:
  ```java
  manageSchedulerRuntimeConfig("myapp", "ESS")
  ```

4.2.1.4 Related Shell Script

`essManageRuntimeConfig`

4.2.2 Get Log and Output Content of a Request

Command Category: Application Management Commands
Use with WLST: Online

4.2.2.1 Description

Gets the log and output data files for a request after its execution is completed.

4.2.2.2 Syntax

`getSchedulerRequestContent(requestId, contentType, [logLines], [outDir])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>requestId</code></td>
<td>request ID</td>
</tr>
<tr>
<td><code>contentType</code></td>
<td>Type of content to handle. Can be one of the following;</td>
</tr>
<tr>
<td></td>
<td>• LOG</td>
</tr>
<tr>
<td></td>
<td>• OUTPUT</td>
</tr>
<tr>
<td></td>
<td>• BINARY_OUTPUT</td>
</tr>
<tr>
<td></td>
<td>• TEXT_OUTPUT</td>
</tr>
<tr>
<td></td>
<td>By default, the command checks for both BINARY_OUTPUT and TEXT_OUTPUT.</td>
</tr>
</tbody>
</table>
4.2.2.3 Examples

- Get the request log for request ID 123:
  `getSchedulerRequestContent(123, "LOG")`

- Get all the output of request 123:
  `getSchedulerRequestContent(123, "OUTPUT")`

- Get all the output of request 123 and save it in directory /tmp:
  `getSchedulerRequestContent(123, "OUTPUT", outDir="/tmp")`

- Get all the text output of request 123 and save it in directory /tmp:
  `getSchedulerRequestContent(123, "TEXT_OUTPUT", outDir="/tmp")`

- Get all the binary output of request 123 and save it in directory /tmp:
  `getSchedulerRequestContent(123, "BINARY_OUTPUT", outDir="/tmp")`

- Get first 100 lines of the request log for request id 123:
  `getSchedulerRequestContent(123, "LOG", logLines=100)`

4.2.2.4 Related Shell Script

`essGetOutputContent`

4.2.3 Search and List Requests

Command Category: Application Management Commands

Use with WLST: Online

4.2.3.1 Description

Searches and lists requests based upon hosting application name, state or elapsed time of execution. This command can be used to find long running requests.

4.2.3.2 Syntax

`querySchedulerRequests([app],[state],[days],[hours],[minutes])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>app</code></td>
<td>Optional. The name of the hosting application</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>state</strong></td>
<td>Optional. Specifies the request state. Can be one of the following:</td>
</tr>
<tr>
<td></td>
<td>• WAIT</td>
</tr>
<tr>
<td></td>
<td>• READY</td>
</tr>
<tr>
<td></td>
<td>• RUNNING</td>
</tr>
<tr>
<td></td>
<td>• COMPLETED</td>
</tr>
<tr>
<td></td>
<td>• BLOCKED</td>
</tr>
<tr>
<td></td>
<td>• HOLD</td>
</tr>
<tr>
<td></td>
<td>• CANCELLING</td>
</tr>
<tr>
<td></td>
<td>• EXPIRED</td>
</tr>
<tr>
<td></td>
<td>• CANCELLED</td>
</tr>
<tr>
<td></td>
<td>• ERROR</td>
</tr>
<tr>
<td></td>
<td>• WARNING</td>
</tr>
<tr>
<td></td>
<td>• SUCCEEDED</td>
</tr>
<tr>
<td></td>
<td>• PAUSED</td>
</tr>
<tr>
<td></td>
<td>• PENDING_VALIDATION</td>
</tr>
<tr>
<td></td>
<td>• VALIDATION_FAILED</td>
</tr>
<tr>
<td></td>
<td>• SCHEDULE_ENDED</td>
</tr>
<tr>
<td></td>
<td>• FINISHED</td>
</tr>
<tr>
<td></td>
<td>• ERROR_AUTO_RETRY</td>
</tr>
<tr>
<td></td>
<td>• ERROR_MANUAL_RECOVERY</td>
</tr>
<tr>
<td></td>
<td>By default, the command specifies RUNNING.</td>
</tr>
<tr>
<td><strong>days</strong></td>
<td>Optional. Specifies time in days</td>
</tr>
<tr>
<td><strong>hours</strong></td>
<td>Optional. Specifies time in hours</td>
</tr>
<tr>
<td><strong>minutes</strong></td>
<td>Optional. Specifies time in hours</td>
</tr>
</tbody>
</table>

### 4.2.3.3 Examples

- Get all the requests that are in the `RUNNING` state:
  ```java
  querySchedulerRequests()
  or
  querySchedulerRequests(state="RUNNING")
  ```
- Get all cancelled requests:
  ```java
  querySchedulerRequests(state="CANCELLED")
  ```
- Get all requests running for more than two days:
  ```java
  querySchedulerRequests(days=2)
  ```
- Get all requests running for more than 10 hours:
  ```java
  querySchedulerRequests(hours=10)
  ```
- Get all requests running for the application `myapp`:
  ```java
  querySchedulerRequests(appName="myapp")
  ```

### 4.2.3.4 Shell Script

```
essQueryRequests
```
4.2.4 Manage Requests

Command Category: Application Management Commands
Use with WLST: Online

4.2.4.1 Description
Manually cancel, recover, complete, or get details about requests.

4.2.4.2 Syntax
manageSchedulerRequest(requestId, operation, [asyncStatus], [statusMessage])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>requestId</td>
<td>Specifies the request ID</td>
</tr>
<tr>
<td>operation</td>
<td>Specifies which one of the following operations to perform:</td>
</tr>
<tr>
<td></td>
<td>• CANCEL</td>
</tr>
<tr>
<td></td>
<td>• RECOVER</td>
</tr>
<tr>
<td></td>
<td>• COMPLETE</td>
</tr>
<tr>
<td></td>
<td>• GETDETAIL</td>
</tr>
<tr>
<td>asyncStatus</td>
<td>Required for the COMPLETE operation. Specifies the status to set for the</td>
</tr>
<tr>
<td></td>
<td>given request. Must be one of the following:</td>
</tr>
<tr>
<td></td>
<td>• SUCCESS</td>
</tr>
<tr>
<td></td>
<td>• PAUSE</td>
</tr>
<tr>
<td></td>
<td>• WARNING</td>
</tr>
<tr>
<td></td>
<td>• ERROR</td>
</tr>
<tr>
<td></td>
<td>• CANCEL</td>
</tr>
<tr>
<td></td>
<td>• UPDATE</td>
</tr>
<tr>
<td></td>
<td>• BIZ_ERROR</td>
</tr>
<tr>
<td></td>
<td>• ERROR_MANUAL_RECOVERY</td>
</tr>
<tr>
<td>statusMessage</td>
<td>Required for the COMPLETE operation. Specifies the qualifying status</td>
</tr>
<tr>
<td></td>
<td>message to describe the operation</td>
</tr>
</tbody>
</table>

4.2.4.3 Examples

- Cancel request 123:
  manageSchedulerRequest(123, "CANCEL")

- Recover request 123:
  manageSchedulerRequest(123, "RECOVER")

- Complete request 123:
  manageSchedulerRequest(123, "COMPLETE", asyncStatus="ERROR", statusMessage="Completed by Admin")

4.2.4.4 Related Shell Script
essManageRequests
4.2.5 Manage Oracle Enterprise Scheduler Servers

Command Category: Application Management Commands
Use with WLST: Online

4.2.5.1 Description
Starts, stops or gets the status of the Oracle Enterprise Scheduler application running on the server. Starting the Oracle Enterprise Scheduler application starts the Oracle Enterprise Scheduler processor thread so that request processing can start. Stopping Oracle Enterprise Scheduler stops or quiesces the Oracle Enterprise Scheduler processor so that no new requests are processed.

4.2.5.2 Syntax
manageSchedulerServer(operation)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>operation</td>
<td>Specifies which one of the following operations to perform:</td>
</tr>
<tr>
<td></td>
<td>• START</td>
</tr>
<tr>
<td></td>
<td>• STOP</td>
</tr>
<tr>
<td></td>
<td>• STATUS</td>
</tr>
</tbody>
</table>

4.2.5.3 Examples

- Stop Oracle Enterprise Scheduler:
  manageSchedulerServer("STOP")

- Get the current state of the Oracle Enterprise Scheduler processor:
  manageSchedulerServer("STATUS")

4.2.5.4 Related Shell Script
essManageServer

4.2.6 Submit Job Requests to Oracle Enterprise Scheduler

Command Category: Application Management Commands
Use with WLST: Online

4.2.6.1 Description
Submit a job request to Oracle Enterprise Scheduler for execution.

4.2.6.2 Syntax
submitSchedulerRequest(appName, [jobName], [schMeth], [note], [schName], [RschName], [schDesc], [o_time], [begin_time], [frequency], [FreqNum], [count], [end_time], [month], [week], [day], [date], [reqParams])
**Note:**

While a job definition must be predefined, the schedule can be defined in an ad-hoc manner using this command.

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Name of the hosting application for the job.</td>
</tr>
<tr>
<td>jobName</td>
<td>Name of the job definition to be used for current request. The path name (including the package name) must be fully qualified. If it is not fully qualified, the command uses the default package: /oracle/apps/ess/custom.</td>
</tr>
</tbody>
</table>
| schMeth | Optional. Specifies which one of the following scheduling methods to use:  
- IMMEDIATE (I) - No other parameter is required. This is the default method and is used if the schMeth argument is not specified.  
- ONCE (O) - If this method is used, the o_time argument is required.  
- SCHEDULE (S) - If this method is used, the schName argument is required.  
- RECURRING (R) - If this method is used, the RschName and frequency arguments are required.  

Note that the following arguments are only valid with the Recurring(R) method: schDesc, begin_time, freqNum, count, end_time, month, week, day, date and frequency. Parameter combinations based on 'frequency' value are:  
If you use the recurring (R) method with any of the following options: SECOND | MINUTE | HOUR | DAY | WEEK, you must use the following arguments: freqNum, begin_time, [count | end_time].  
If you use the recurring (R) method with the MONTH option, you must use the following arguments: [week day | date] begin_time[| count | end_time].  
If you use the recurring (R) method with the YEAR option, you must use the following arguments: [month ([week day | date]) begin_time[| count | end_time].  
Note that when you use the recurring (R) method, the schedule is stored in the MDS for future use and the storage location is based on the schedule name provided. See **Examples** for examples. |
<p>| note | Optional. Specifies a short description for the job request. |
| schName | Optional. Specifies the name of the predefined schedule definition. The path name (including the package name) must be fully qualified. If it is not fully qualified, the command uses the default package: /oracle/apps/ess/custom. |
| RschName | Optional. Specifies the name of the schedule if you use the recurring (R) option to the schMeth argument to define the schedule. |
| schDesc | Optional. Specifies a string value that describes the ad-hoc schedule. By default, the value is &quot;Custom Ad-Hoc Schedule&quot;. |</p>
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>o_time</td>
<td>Optional. Specifies the time for a &quot;one time&quot; execution. The format is: HH:MM:SS:DD:MM:YYYY</td>
</tr>
<tr>
<td>begin_time</td>
<td>Optional. Specifies the start time for a recurring schedule. The format is: HH:MM:SS:DD:MM:YYYY</td>
</tr>
<tr>
<td>frequency</td>
<td>Optional. Specifies the frequency of a recurring schedule. The valid values are: SECOND, MINUTE, HOUR, DAY, WEEK, MONTH, YEAR</td>
</tr>
<tr>
<td>freqNum</td>
<td>Optional. An integer value that specifies repeat interval of a recurring schedule. The default value is &quot;1&quot;.</td>
</tr>
<tr>
<td>count</td>
<td>Optional. Specifies the maximum number of repetitions for a request.</td>
</tr>
<tr>
<td>end_time</td>
<td>Optional. Specifies the end time for a recurring schedule. The format is: HH:MM:SS:DD:MM:YYYY</td>
</tr>
<tr>
<td>month</td>
<td>Optional. Specifies the month of the year if frequency is specified as YEARLY. Valid values are: 1–12.</td>
</tr>
<tr>
<td>week</td>
<td>Optional. Specifies the week of a month. Valid values are: 1–6, LAST.</td>
</tr>
<tr>
<td>day</td>
<td>Optional. Specifies the day of the week. Valid values are: 1–7, where &quot;1&quot; represents Monday.</td>
</tr>
<tr>
<td>date</td>
<td>Optional. Specifies a specific day of month. Valid values are: 1–31, LAST</td>
</tr>
<tr>
<td>reqParams</td>
<td>Optional. Specifies other request parameters/properties specified as a dictionary.</td>
</tr>
</tbody>
</table>

### 4.2.6.3 Examples

The following variables are used in these examples:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSTING_APP</td>
<td>EssDemoApp</td>
</tr>
<tr>
<td>SCHEDULE_NAME</td>
<td>/oracle/apps/ess/custom/MySch</td>
</tr>
<tr>
<td>JOB_DEF_NAME</td>
<td>/oracle/apps/ess/demopackage/BasicJavaJob</td>
</tr>
</tbody>
</table>

- Submit a request for immediate job execution (one-time only):
  ```java
  submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME)
  ```

- Submit a request for one-time job execution at a specified time:
  ```java
  submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, schMeth='0',
  o_time='21:10:30:03:05:2012')
  ```

- Submit a job request with a recurring schedule. The recurrence is: Execution recurs every 2 minutes, starting at time 21:10:30 on 03 May 2012, until 3 iterations complete. The additional request parameters are: `reqName=test` and `PRIORITY=10`. This recurrence also persists in the MDS repository for future use.
submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, schMeth='R',
RschName=SCHEDULE_NAME, frequency='MINUTE', freqNum=2, count=3,
begin_time='21:10:30:03:05:2012', reqParams={'reqName': 'test', 'PRIORITY': '10'})

- Submit a job request using a predefined schedule

submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, schMeth='S',
schName=SCHEDULE_NAME)

- Submit a job request with a monthly recurring schedule. The description for the
  request is "Request with monthly schedule". The recurring schedule name and
description are specified using RschName and schDesc respectively.

submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, note='Request with monthly
schedule', schMeth='R', RschName=SCHEDULE_NAME+'1', schDesc='Monthly_schedule',
frequency='MONTH', freqNum=2, begin_time='21:10:30:03:05:2012', week=5, day=4,
end_time='21:10:30:04:05:2013')

- Submit a job request with a yearly recurring schedule. The description for the
  request is "Request with yearly schedule". The recurring schedule name and
description are provided by RschName and schDesc respectively.

Execution recurs every three years, on the last day of May (31st), starting at 21:10:30
on 03 May 2012, and iterates five times.

submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, note='Request with yearly
schedule', schMeth='R', RschName=SCHEDULE_NAME+'2', schDesc='Yearly_schedule',
frequency='YEAR', freqNum=3, begin_time='21:10:30:03:05:2012', month=5,
date='LAST', count=5)

- Submit a job request with an hourly recurring schedule. This schedule is stored in
  the MDS. Recurrence is set to repeat every hour starting from the current time.

submitSchedulerRequest(HOSTING_APP, JOB_DEF_NAME, schMeth='R',
RschName=SCHEDULE_NAME, schDesc='HOURLY_schedule', frequency='HOUR')

4.2.6.4 Related Shell Script

esSubmitRequest

4.2.7 Manage Oracle Enterprise Scheduler Job Definitions

Command Category: Application Management Commands
Use with WLST: Online

4.2.7.1 Description

Manage (show, create, delete, customize, update) an Oracle Enterprise Scheduler job
definition.

If operation is set to SHOW and if jobName is specified, the command returns the
details of this particular job definition; otherwise, the command shows a list of all job
definitions that are part of the application.

If operation is set to CREATE, the command returns the MetadataObjectID of the
newly created job definition.

If operation is set to DELETE, CUSTOMIZE or UPDATE, the command returns 0 or -1,
depending on whether the operation succeeds or fails.
4.2.7.2 Syntax

manageSchedulerJobDefn(operation, appName, [jobName], [jobType], [desc], [props])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>operation</td>
<td>Specifies which of the following operations to perform on the job:</td>
</tr>
<tr>
<td></td>
<td>• SHOW (S)</td>
</tr>
<tr>
<td></td>
<td>Displays the list of job definitions that are part of a particular application. If a job name is specified, it shows the details of only that job definition.</td>
</tr>
<tr>
<td></td>
<td>If this operation is used, the appName argument is required and jobName is optional.</td>
</tr>
<tr>
<td></td>
<td>• CREATE (N)</td>
</tr>
<tr>
<td></td>
<td>Creates a new job definition in the namespace of the relevant application (supplied as a parameter) in MDS.</td>
</tr>
<tr>
<td></td>
<td>If this operation is used, the appName, jobName, and jobType arguments are required and desc and props are optional.</td>
</tr>
<tr>
<td></td>
<td>• DELETE (D)</td>
</tr>
<tr>
<td></td>
<td>Deletes the specified job definition from the MDS.</td>
</tr>
<tr>
<td></td>
<td>If this operation is used, the appName and jobName arguments are required.</td>
</tr>
<tr>
<td></td>
<td>• CUSTOMIZE (C)</td>
</tr>
<tr>
<td></td>
<td>Modifies the customizable properties of an existing job definition. The following customizable properties are available: SYS_retries, SYS_priority, SYS_requestCategory, SYS_request_timeout, enableTrace, enableTimeStatistics.</td>
</tr>
<tr>
<td></td>
<td>If this operation is used, the appName, jobName, and props arguments are required.</td>
</tr>
<tr>
<td></td>
<td>• UPDATE (U)</td>
</tr>
<tr>
<td></td>
<td>Updates an existing job definition with the specified property values (existing parameters persist if not overridden).</td>
</tr>
<tr>
<td></td>
<td>If this operation is used, the appName, jobName, and one or both of the desc and props arguments are required.</td>
</tr>
<tr>
<td>appName</td>
<td>Specifies the logical name of the job's hosting application.</td>
</tr>
<tr>
<td>jobName</td>
<td>Optional. Specifies the name of the job definition. For the create, delete, or update operations, a default package /oracle/apps/ess/custom/ is prepended to the specified name.</td>
</tr>
<tr>
<td>jobType</td>
<td>Optional. Specifies the name of the job type to be used to create a new job definition. If the name does not contain the package, the following default value is prefixed to the name: /oracle/as/ess/core/.</td>
</tr>
<tr>
<td>desc</td>
<td>Optional. Specifies a description for a new job definition.</td>
</tr>
<tr>
<td>props</td>
<td>Optional. Specifies other request parameters/properties specified as a dictionary.</td>
</tr>
</tbody>
</table>
### Note:

- For job definition creation, deletion and update, the value of the `jobName` argument can be a fully qualified name (that includes the package name); however, the default package `/oracle/apps/ess/custom` is always prefixed to it.
- As indicated by the previous note, you can only create/delete/update the job definitions present in the `/oracle/apps/ess/custom` namespace; prepackaged job definitions cannot be modified.
- If you do not provide a fully qualified path name for the `jobType` argument, a default package (`/oracle/as/ess/core/`) is prefixed to the name.

#### 4.2.7.3 Examples

The following variables are used in these examples:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSTING_APP</td>
<td>EssNativeHostingApp</td>
</tr>
<tr>
<td>JOB_DEF_PREDEF</td>
<td><code>/oracle/apps/ess/TestJob</code></td>
</tr>
<tr>
<td>JOB_DEF_NAME</td>
<td>TestJob_wlst</td>
</tr>
<tr>
<td>JOB_TYPE_NAME</td>
<td>JavaJobType</td>
</tr>
<tr>
<td>JOB_DESC</td>
<td>My WLST Test Defn</td>
</tr>
<tr>
<td>PARAMS</td>
<td>'SYS_retries':1,'myParam':xyz</td>
</tr>
</tbody>
</table>

- Show all job definitions present in the namespace of `HOSTING_APP`:
  ```
  manageSchedulerJobDefn('SHOW',HOSTING_APP)
  ```

- Show the details of the job definition (JOB_DEF_PREDEF) part of `HOSTING_APP`:
  ```
  manageSchedulerJobDefn('SHOW',HOSTING_APP,jobName=JOB_DEF_PREDEF)
  ```

- Create the new job definition `/oracle/apps/ess/custom/TestJob_wlst` in the namespace of `HOSTING_APP` with the `jobType` value of `/oracle/as/ess/core/JavaJobType`:
  ```
  manageSchedulerJobDefn('CREATE',HOSTING_APP,jobName=JOB_DEF_NAME,jobType=JOB_TYPE_NAME)
  ```

- Create a new job definition named `/oracle/apps/ess/custom/TestJob_wlst` in the `HOSTING_APP` namespace with the `jobType` `/oracle/as/ess/core/JavaJobType` and a description with the value of `JOB_DESC`:
  ```
  manageSchedulerJobDefn('CREATE',HOSTING_APP,jobName=JOB_DEF_NAME,jobType=JOB_TYPE_NAME,desc=JOB_DESC)
  ```

- Create a new job definition named `/oracle/apps/ess/custom/TestJob_wlst` in the `HOSTING_APP` namespace with the `jobType` /
oracle/as/ess/core/JavaJobType and a description and parameters defined by JOB_DESC and PARAMS:

manageSchedulerJobDefn('CREATE',HOSTING_APP,jobName=JOB_DEF_NAME,jobType=JOB_TYPE_NAME,desc=JOB_DESC,props=PARAMS)

- Update the job definition /oracle/apps/ess/custom/JOB_DEF_NAME with the new description JOB_DESC:
  manageSchedulerJobDefn('UPDATE',HOSTING_APP,jobName=JOB_DEF_NAME,desc=JOB_DESC)

- Update the job definition /oracle/apps/ess/custom/JOB_DEF_NAME with the properties PARAMS:
  manageSchedulerJobDefn('UPDATE',HOSTING_APP,jobName=JOB_DEF_NAME,props=PARAMS)

- Delete the job definition /oracle/apps/ess/custom/JOB_DEF_NAME in HOSTING_APP:
  manageSchedulerJobDefn('DELETE',HOSTING_APP,jobName=JOB_DEF_NAME)

- Customize the prepackaged job definition JOB_DEF_PREDEF in HOSTING_APP with the customizable properties SYS_retries and SYS_priority:
  manageSchedulerJobDefn('CUSTOMIZE',HOSTING_APP,jobName=JOB_DEF_PREDEF,props={'SYS_retries':2,'SYS_priority':3})

4.2.7.4 Related Shell Script

essManageJobDefn

4.2.8 Manage Oracle Enterprise Scheduler Schedule Definitions

Command Category: Application Management Commands

Use with WLST: Online

4.2.8.1 Description

Manage (show, create, delete, update) a schedule definition in Oracle Enterprise Scheduler.

If operation is set to SHOW and if schName is specified, the command shows the details of this particular schedule definition; otherwise, the command shows a list of all schedule definitions that are part of the application. The command returns 0 or -1 depending on whether the operation succeeds or fails.

If operation is set to CREATE, the command returns the MetadataObjectID of the newly created schedule definition.

If operation is set to DELETE or UPDATE, the command returns 0 or -1, depending on whether the operation succeeds or fails.

4.2.8.2 Syntax

manageSchedulerSchedule(operation,appName,[schName],[schDesc],[begin_time],[frequency],[interval],[count],[end_time],[month],[week],[day],[date])
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>operation</strong></td>
<td>Specifies which of the following operations to perform on the job:</td>
</tr>
<tr>
<td>• <strong>SHOW (S)</strong></td>
<td>Displays the list of schedule definitions that are part of a particular application.</td>
</tr>
<tr>
<td>If this operation is used, the <strong>appName</strong> argument is required and <strong>schName</strong> is optional.</td>
<td></td>
</tr>
<tr>
<td>• <strong>CREATE (C)</strong></td>
<td>Creates a new schedule definition in the namespace of the relevant application (supplied as a parameter) in MDS.</td>
</tr>
<tr>
<td>If this operation is used, the <strong>appName</strong>, <strong>schName</strong>, and <strong>frequency</strong> arguments are required and <strong>schDesc</strong> is optional.</td>
<td></td>
</tr>
<tr>
<td>• <strong>DELETE (D)</strong></td>
<td>Deletes the specified job definition from the MDS.</td>
</tr>
<tr>
<td>If this operation is used, the <strong>appName</strong> and <strong>schName</strong> arguments are required.</td>
<td></td>
</tr>
<tr>
<td>• <strong>UPDATE (U)</strong></td>
<td>Updates an existing schedule definition with the specified property values (existing parameters persist if not overridden).</td>
</tr>
<tr>
<td>If this operation is used, the <strong>appName</strong>, <strong>schName</strong>, and one or both of the <strong>schDesc</strong> and <strong>frequency</strong> arguments are required.</td>
<td></td>
</tr>
<tr>
<td><strong>appName</strong></td>
<td>Specifies the logical name of the job’s hosting application.</td>
</tr>
<tr>
<td><strong>schName</strong></td>
<td>Optional. Specifies the name of the schedule definition. For the create, delete, and update operations, a default package named <code>/oracle/apps/ess/custom/</code> is prepended to the name provided.</td>
</tr>
<tr>
<td><strong>schDesc</strong></td>
<td>Optional. Specifies a description for the schedule definition when creating or updating a definition.</td>
</tr>
<tr>
<td><strong>begin_time</strong></td>
<td>Optional. Specifies the start time for a recurring event. The format is: <code>HH:MM:SS:DD:MM:YYYY</code></td>
</tr>
<tr>
<td><strong>frequency</strong></td>
<td>Optional. Frequency of recurrence. Valid values are: SECOND, MINUTE, HOUR, DAY, WEEK, MONTH, YEAR</td>
</tr>
<tr>
<td>If you use any of the following options: SECOND, MINUTE, HOUR, DAY, WEEK, you must use the following arguments: <code>interval</code>, <code>begin_time</code>, `[count</td>
<td>end_time]`.</td>
</tr>
<tr>
<td>If you use the <code>MONTH</code> option, you must use the following arguments `[(week day)</td>
<td>date][begin_time][count</td>
</tr>
<tr>
<td>If you use the <code>YEAR</code> option, you must use the following arguments: `[month][(week day)</td>
<td>date]][begin_time][count</td>
</tr>
<tr>
<td><strong>interval</strong></td>
<td>Optional. Specifies the repeat interval used with the <strong>frequency</strong> option. This is an integer value with a default value of 1.</td>
</tr>
<tr>
<td><strong>count</strong></td>
<td>Optional. Specifies the maximum number of repetitions for a request. This value is an integer.</td>
</tr>
<tr>
<td><strong>month</strong></td>
<td>Optional. Specifies the month of the year if <strong>frequency</strong> is set to <strong>YEAR</strong>. Valid values are 1–12.</td>
</tr>
</tbody>
</table>
#### 4.2.8.3 Examples

The following variables are used in these examples:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSTING_APP</td>
<td>EssNativeHostingApp</td>
</tr>
<tr>
<td>PREDEF_SCHEDULE</td>
<td>/oracle/apps/ess/demo/seeded/MyPredefinedSchedule</td>
</tr>
<tr>
<td>SCHEDULE_NAME</td>
<td>MyWlstSchedule</td>
</tr>
<tr>
<td>SCH_DESC</td>
<td>Description for WLST test schedule</td>
</tr>
</tbody>
</table>

- Show all schedule definitions present in the namespace of HOSTING_APP:
  ```java
  manageSchedulerSchedule('SHOW', HOSTING_APP)
  ```

- Show the details of the HOSTING_APP schedule definition PREDEF_SCHEDULE:
  ```java
  manageSchedulerSchedule('SHOW', HOSTING_APP, schName=PREDEF_SCHEDULE)
  ```

- Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP and with the description SCH_DESC. The recurring schedule is:
  - Occur every 2 minutes
  - Start at 21:10:30 on May 03, 2012
  - Complete 3 iterations
    ```java
    manageSchedulerSchedule('CREATE', HOSTING_APP, schName=SCHEDULE_NAME, schDesc=SCH_DESC, frequency='MINUTE', interval=2, count=3, begin_time='21:10:30:03:05:12')
    ```

- Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP. The recurring schedule is:
  - Occur every 2 months on Thursday of the 5th week (if applicable)
  - Start at 21:10:30 on May 03, 2012
  - Continue until 21:10:30 on May 04, 2013
    ```java
    manageSchedulerSchedule('CREATE', HOSTING_APP, schName=SCHEDULE_NAME, frequency='MONTH', interval=2, begin_time='21:10:30:03:05:12', week=5, day=4, end_time='21:10:30:04:05:13')
    ```

---

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>week</td>
<td>Optional. Specifies the week of a month. Valid values are 1–6 and LAST.</td>
</tr>
<tr>
<td>day</td>
<td>Optional. Specifies the day of a week. Valid values are 1–7, where 1 represents Monday.</td>
</tr>
<tr>
<td>date</td>
<td>Optional. Specifies a day of month. Valid values are 1–31 and LAST.</td>
</tr>
</tbody>
</table>
• Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in namespace of HOSTING_APP. The recurring schedule is:
  – Occur every 3 years, on the last day of May (May 31st)
  – Start at 21:10:30 on May 03, 2012
  – Complete 5 iterations
  manageSchedulerSchedule('CREATE',HOSTING_APP,schName=SCHEDULE_NAME,
  frequency='YEAR',interval=3,begin_time='21:10:30:03:05:12',month=5,date='LAST',count=5)

• Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP. The recurring schedule is: occur hourly, starting now.
  manageSchedulerSchedule('CREATE',HOSTING_APP,schName=SCHEDULE_NAME,
  frequency='HOUR')

• Update the schedule definition named /oracle/apps/ess/custom/SCHEDULE_NAME with the description SCH_DESC. The recurring schedule remains unchanged.
  manageSchedulerSchedule('UPDATE',HOSTING_APP,schName=SCHEDULE_NAME,schDesc=SCH_DESC)

• Update the schedule definition named /oracle/apps/ess/custom/SCHEDULE_NAME with the following new recurring schedule: Occur every minute.
  manageSchedulerSchedule('UPDATE',HOSTING_APP,schName=SCHEDULE_NAME,
  frequency='MINUTE')

• Delete the HOSTING_APP schedule definition named /oracle/apps/ess/custom/SCHEDULE_NAME.
  manageSchedulerSchedule('DELETE',HOSTING_APP,schName=SCHEDULE_NAME)

4.2.8.4 Related Shell Script
essManageSchedule

4.3 Oracle Enterprise Scheduler Batch Delete Requests

Job request data is kept as records in the Oracle Enterprise Scheduler runtime store tables. These job requests records are not removed from the runtime store until they are physically purged by a database administrator using SQL purge scripts. A request must be logically deleted before it can be physically purged. Oracle Enterprise Scheduler provides two ways to delete a request, either by a user performing a delete operation for a specific request, or by an Oracle Enterprise Scheduler administrator submitting a batch delete request.

The batch delete feature provides a way for an Oracle Enterprise Scheduler administrator to delete requests in a batch fashion. An Oracle Enterprise Scheduler administrator defines a set of delete criteria and submits a batch delete request using the Oracle Enterprise Scheduler runtime MBean interface. The delete criteria for the batch job are specified in the form of application request parameters. The submitted batch delete request uses a pre-defined job definition for a Java executable that is supplied by Oracle Enterprise Scheduler. The batch delete job definition metadata is defined in the ESSAPP metadata repository.
When the batch delete job runs, it determines which completed absolute parent and instance parent requests satisfy the delete criteria specified for that batch job request and deletes the request hierarchy for those requests. The batch delete job is executed in the context of ESSAPP.

4.3.1 The batchDeleteSchedulerRequest Command

Command Category: Application Management Commands

Use with WLST: Online

4.3.1.1 Description

Submits a request for a batch delete job. You can use either a pre-defined schedule (in MDS) or specify a one-time execution time. If neither of these is specified, the request starts immediately. The request parameters are used to specify the delete criteria.

When the batch delete job runs, it determines which completed absolute parent and instance parent requests satisfy the delete criteria specified for that batch job request. The batch delete job deletes the request hierarchy for those requests.

4.3.1.2 Syntax

batchDeleteSchedulerRequests([desc],[schId],[start],[end], [params])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>desc</td>
<td>Optional. Specifies a description for the batch delete request.</td>
</tr>
<tr>
<td>schId</td>
<td>Optional. Specifies the fully qualified name of the schedule (pre-defined) to use. The default package, if none is specified, is: /oracle/as/ess/essapp/custom/.</td>
</tr>
<tr>
<td>start</td>
<td>Optional. Specifies the time to start the request. Format: HH:MM:SS:DD:MM:YYYY</td>
</tr>
<tr>
<td>end</td>
<td>Optional. The time the request should terminate. Format: HH:MM:SS:DD:MM:YYYY</td>
</tr>
<tr>
<td>params</td>
<td>Optional. Request parameters specified as a dictionary. Batch Delete Parameters describes the parameters.</td>
</tr>
</tbody>
</table>

4.3.1.2.1 Batch Delete Parameters

A batch delete job uses application request parameters to specify the batch delete criteria and basic result information for that delete job. The class oracle.as.scheduler.job.BatchDeleteProperty.java defines constants for the batch delete parameters. The delete criteria parameters are described in the following two tables.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Type</th>
<th>Constants</th>
</tr>
</thead>
<tbody>
<tr>
<td>CriteriaApplication</td>
<td>String</td>
<td>BatchDeleteProperty.CRITERIA_APPLICATION</td>
</tr>
<tr>
<td>CriteriaProduct</td>
<td>String</td>
<td>BatchDeleteProperty.CRITERIA_PRODUCT</td>
</tr>
</tbody>
</table>
### Parameter Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Type</th>
<th>Constants</th>
</tr>
</thead>
<tbody>
<tr>
<td>CriteriaJobDefn</td>
<td>String</td>
<td>BatchDeleteProperty.CRITERIA_JOBDEFN</td>
</tr>
<tr>
<td>CriteriaJobExecType</td>
<td>String</td>
<td>BatchDeleteProperty.CRITERIA_JOBEXEC_TYPE</td>
</tr>
<tr>
<td>CriteriaSubmitUser</td>
<td>String</td>
<td>BatchDeleteProperty.CRITERIA_SUBMIT_USER</td>
</tr>
<tr>
<td>CriteriaMinimumAge</td>
<td>Integer</td>
<td>BatchDeleteProperty.CRITERIA_MINIMUM_AGE</td>
</tr>
<tr>
<td>CriteriaRetentionAgeSuccess</td>
<td>Integer</td>
<td>BatchDeleteProperty.CRITERIA_RETENTION_AGE_SUCCESS</td>
</tr>
<tr>
<td>CriteriaRetentionAgeError</td>
<td>Integer</td>
<td>BatchDeleteProperty.CRITERIA_RETENTION_AGE_ERROR</td>
</tr>
<tr>
<td>CriteriaProcessLimit</td>
<td>Integer</td>
<td>BatchDeleteProperty.CRITERIA_RETENTION_AGE_WARNING</td>
</tr>
<tr>
<td>CriteriaRetentionAgeCancel</td>
<td>Integer</td>
<td>BatchDeleteProperty.CRITERIA_RETENTION_AGE_CANCEL</td>
</tr>
<tr>
<td>CriteriaProcessLimit</td>
<td>Long</td>
<td>BatchDeleteProperty.CRITERIA_PROCESS_LIMIT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CriteriaApplication</td>
<td>null (none)</td>
<td>Specifies the application for which requests are to be deleted. If null, this parameter is ignored and is not used as part of the delete criteria.</td>
</tr>
<tr>
<td>CriteriaProduct</td>
<td>null (none)</td>
<td>Specifies the product for which requests are to be deleted. If null, this parameter is ignored and is not used as part of the delete criteria.</td>
</tr>
<tr>
<td>CriteriaJobDefn</td>
<td>null (none)</td>
<td>Specifies the string representation of the job definition MetadataObjectId for which requests are to be deleted. If null, this parameter is ignored and is not used as part of the delete criteria.</td>
</tr>
<tr>
<td>CriteriaJobExecType</td>
<td>null (none)</td>
<td>Specifies the string representation of the job execution type for which requests are to be deleted. If null, this parameter is ignored and is not used as part of the delete criteria.</td>
</tr>
<tr>
<td>CriteriaSubmitUser</td>
<td>null (none)</td>
<td>Specifies the submitting user for which requests are to be deleted. If null, this parameter is ignored and is not used as part of the delete criteria.</td>
</tr>
<tr>
<td>CriteriaMinimumAge</td>
<td>null (none)</td>
<td>Specifies a minimum age, in days, before a request that completed is eligible for deletion.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Default Value</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CriteriaRetentionAgeSuccess</td>
<td>null (none)</td>
<td>Specifies a minimum age, in days, before a request that completed as success is eligible for deletion. If this parameter value is null, then the value of CriteriaMinimumAge is used.</td>
</tr>
<tr>
<td>CriteriaRetentionAgeError</td>
<td>null (none)</td>
<td>Specifies a minimum age, in days, before a request that completed as a failure is eligible for deletion. If this parameter value is null, then the value of CriteriaMinimumAge is used.</td>
</tr>
<tr>
<td>CriteriaProcessLimit</td>
<td>null (none)</td>
<td>Specifies a minimum age, in days, before a request that completed with a warning is eligible for deletion. If this parameter value is null, then the value of CriteriaMinimumAge is used.</td>
</tr>
<tr>
<td>CriteriaRetentionAgeCancel</td>
<td>null (none)</td>
<td>Specifies a minimum age, in days, before a request that was canceled is eligible for deletion. If this parameter value is null, then the value of CriteriaMinimumAge is used.</td>
</tr>
<tr>
<td>CriteriaProcessLimit</td>
<td>null (none)</td>
<td>Specifies the maximum number of requests to be processed by the batch delete job. If null or zero (0), there is no limit. The default value is zero (0).</td>
</tr>
</tbody>
</table>

### 4.3.1.3 Examples

- Delete all purgeable requests:
  ```java
  batchDeleteSchedulerRequests()
  ```

- Delete all purgeable requests in the application
  `ESS_NATIVE_HOSTING_APP_LOGICAL_NAME`:
  ```java
  batchDeleteSchedulerRequests(desc='My purge for ESS NativeApp',params={"CriteriaApplication":"ESS_NATIVE_HOSTING_APP_LOGICAL_NAME"})
  ```

- Delete all purgeable requests in the application
  `ESS_NATIVE_HOSTING_APP_LOGICAL_NAME` for which the job definition is `/oracle/apps/ess/custom/MyDef`:
  ```java
  batchDeleteSchedulerRequests(desc='My purge for ESS NativeApp',params={"CriteriaApplication":"ESS_NATIVE_HOSTING_APP_LOGICAL_NAME","CriteriaJobDefn":"JobDefinition://oracle/apps/ess/custom/MyDef"})
  ```

- Delete all purgeable requests in the application
  `ESS_NATIVE_HOSTING_APP_LOGICAL_NAME` for which the job type is `JAVA_TYPE`:
  ```java
  batchDeleteSchedulerRequests(desc='My purge for ESS NativeApp',params={"CriteriaApplication":"ESS_NATIVE_HOSTING_APP_LOGICAL_NAME","CriteriaJobExecType":"JAVA_TYPE"})
  ```
• Submit batch delete job request using the schedule /oracle/as/ess/essapp/custom/WeeklySch:

  batchDeleteSchedulerRequests(desc='Purge using WeekSch', schId='/oracle/as/ess/essapp/custom/WeeklySch')

4.3.1.4 Related Shell Script

essBatchDeleteRequests

4.4 Work Allocation Commands

Table 4-2 shows the WLST commands Oracle Enterprise Scheduler provides for work allocation.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>addProcessorBinding</td>
<td>Bind a work assignment</td>
</tr>
<tr>
<td>createWorkshift</td>
<td>Create a custom workshift</td>
</tr>
<tr>
<td>deleteWorkAssignment</td>
<td>Delete work assignment metadata</td>
</tr>
<tr>
<td>deleteWorkshift</td>
<td>Delete workshift metadata</td>
</tr>
<tr>
<td>queryProcessorBindings</td>
<td>Query all processor bindings</td>
</tr>
<tr>
<td>queryWorkAssignments</td>
<td>Query work assignment metadata</td>
</tr>
<tr>
<td>queryWorkSchedules</td>
<td>Query schedule metadata for work allocation</td>
</tr>
<tr>
<td>queryWorkshifts</td>
<td>Query workshift metadata</td>
</tr>
<tr>
<td>removeProcessorBinding</td>
<td>Remove a processor binding</td>
</tr>
<tr>
<td>updateWorkshift</td>
<td>Update workshift resources</td>
</tr>
</tbody>
</table>

4.4.1 addProcessorBinding

Command Category: Application Management Commands

Use with WLST: Online

4.4.1.1 Description

Binds a work assignment to the current Oracle Enterprise Scheduler processor.

4.4.1.2 Syntax

addProcessorBinding(workAssignmentName, server=serverName, [isExclusive=None][scope])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>workAssignmentName</td>
<td>Specifies the name of the work assignment to bind.</td>
</tr>
<tr>
<td>server</td>
<td>Specifies the name of the server to which to bind.</td>
</tr>
</tbody>
</table>
Argument | Definition
--- | ---
**isExclusive** | Optional. Specifies whether the binding is exclusive (true). The default value is false.
**scope** | Optional. Can be server, group, or global. The default value is server.

- server binds to the specified server.
- group binds to the processing group of the specified server.
- global binds globally for all current and future servers in the isolation group.

### 4.4.1.3 Examples

- Bind a work assignment to a processor:
  
  ```
  addProcessorBinding('mypkg/MyTestWA', server='ess_server1')
  ```

- Bind a work assignment to a processor in exclusive mode.
  
  ```
  addProcessorBinding('SimpleApp', server='ess_server1', isExclusive='true')
  ```

- Bind a work assignment to a processor globally.
  
  ```
  addProcessorBinding('SimpleApp', server='ess_server1', scope='global')
  ```

### 4.4.2 createWorkshift

Command Category: Application Management Commands

Use with WLST: Online

#### 4.4.2.1 Description

Creates a custom workshift that specifies a time window and the resources to be used during that window.

#### 4.4.2.2 Syntax

```python
createWorkshift(workshiftName, alloc=allocation, plsqlLimit=limit, asyncJavaLimit=limit, [description=None], [schedName=None], [duration=None])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>workshiftName</strong></td>
<td>Specifies the name of the workshift to create.</td>
</tr>
<tr>
<td><strong>alloc</strong></td>
<td>Specifies the maximum number of threads that can be allocated on each server instance.</td>
</tr>
<tr>
<td><strong>plsqlLimit</strong></td>
<td>Specifies the maximum number of PL/SQL jobs that can be active in the isolation group. Use -1 to specify no limit.</td>
</tr>
<tr>
<td><strong>asyncJavaLimit</strong></td>
<td>Specifies the number of async Java jobs that can be active in the isolation group. Use -1 to specify no limit.</td>
</tr>
<tr>
<td><strong>description</strong></td>
<td>Optional. Specifies a description for the workshift.</td>
</tr>
</tbody>
</table>
### schedName

Optional. Specifies the name of the schedule to use for the workshift.
- If the schedule name is specified, the `duration` argument is required.
- If the schedule name is *not* specified, the workshift is 24x7

### duration

Specifies the number of minutes the workshift is active each time the schedule runs. Required if the `schedName` argument is used.

#### 4.4.2.3 Example

- Create a 24x7 workshift in a specific custom package:

  ```
  createWorkshift('mypkg/SampleWorkshift', alloc=5, plsqlLimit=15, asyncJavaLimit=10)
  ```

### deleteWorkAssignment

**Command Category: Application Management Commands**

Use with WLST: Online

#### 4.4.3.1 Description

Deletes an Oracle Enterprise Scheduler work assignment in the custom namespace.

**Note:**

A work assignment that is bound cannot be deleted.

#### 4.4.3.2 Syntax

`deleteWorkAssignment(workAssignmentName)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>workAssignmentName</code></td>
<td>Specifies the name of the custom work assignment to delete.</td>
</tr>
</tbody>
</table>

#### 4.4.3.3 Example

- Delete a custom work assignment:

  ```
  deleteWorkAssignment('MyTestWA')
  ```

### deleteWorkshift

**Command Category: Application Management Commands**

Use with WLST: Online

#### 4.4.4.1 Description

Deletes an Oracle Enterprise Scheduler workshift in the custom namespace.
Note:
A workshift that is in use by an on-board tenant or any bound work assignment cannot be deleted.

## 4.4.4.2 Syntax

```python
deleteWorkshift(workshiftName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>workshiftName</td>
<td>Specifies the name of the custom workshift to delete.</td>
</tr>
</tbody>
</table>

### 4.4.4.3 Example

- Delete a custom workshift:
  ```python
deleteWorkshift('mypkg/TenantWorkshift1')
  ```

## 4.4.5 queryProcessorBindings

Command Category: Application Management Commands  
Use with WLST: Online

### 4.4.5.1 Description

Gets processor bindings.

### 4.4.5.2 Syntax

```python
queryProcessorBindings(server=serverName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server</td>
<td>Specifies the name of the server to query.</td>
</tr>
</tbody>
</table>

### 4.4.5.3 Example

- Get all bindings:
  ```python
  queryProcessorBindings(server='ess_server1')
  ```

## 4.4.6 queryWorkAssignments

Command Category: Application Management Commands  
Use with WLST: Online

### 4.4.6.1 Description

Gets all custom and internal work assignments. Prints the work assignment id. Details include workshift IDs and specialization.

### 4.4.6.2 Syntax

```python
queryWorkAssignments([name=None],[package=None],[options=None])
```
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Optional. Specifies a work assignment name.</td>
</tr>
<tr>
<td>package</td>
<td>Optional. Specifies a work assignment package.</td>
</tr>
</tbody>
</table>
| options  | Optional. Comma-separated list of one or more of the following options:  
| nameLike | Query for a name that contains the specified name.  
| pkgLike  | Query for a package that contains the specified package.  
| details  | Print additional details. |

### 4.4.6.3 Examples

- Print all work assignments:
  ```
  queryWorkAssignments()
  ```

- Print details for work assignments whose name contains "Simple":
  ```
  queryWorkAssignments(name='Simple', options='nameLike,details')
  ```

### 4.4.7 queryWorkSchedules

Command Category: Application Management Commands

Use with WLST: Online

#### 4.4.7.1 Description

Gets all schedules for work allocation and prints the schedule ID. Details include recurrence, exclusions, inclusions.

#### 4.4.7.2 Syntax

```
queryWorkSchedules([name=None],[package=None],[options=None])
```
4.4.7.3 Examples

• Get all schedules:
  queryWorkSchedules()

• Get details for an hourly schedule:
  queryWorkSchedules(name='Hourly', options='details')

4.4.8 queryWorkshifts

Command Category: Application Management Commands
Use with WLST: Online

4.4.8.1 Description

Gets all workshifts and prints the workshift ID. Details include thread allocation and async limits.

4.4.8.2 Syntax

queryWorkshifts([name=None], [package=None], [options=None])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Optional. Specifies the workshift name.</td>
</tr>
<tr>
<td>package</td>
<td>Optional. Specifies the workshift package.</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of one or more of the following options:</td>
</tr>
<tr>
<td></td>
<td>• nameLike</td>
</tr>
<tr>
<td></td>
<td>Query for a name that contains the specified name.</td>
</tr>
<tr>
<td></td>
<td>• pkgLike</td>
</tr>
<tr>
<td></td>
<td>Query for a package that contains the specified package.</td>
</tr>
<tr>
<td></td>
<td>• details</td>
</tr>
<tr>
<td></td>
<td>Print additional details.</td>
</tr>
</tbody>
</table>

4.4.8.3 Examples

• Get all workshifts:
  queryWorkshifts()

• Get workshifts whose package contains "test" and print the details:
  queryWorkshifts(package='test', options='pkgLike,details')

4.4.9 removeProcessorBinding

Command Category: Application Management Commands
Use with WLST: Online

4.4.9.1 Description

Removes a local or global processor binding.
4.4.9.2 Syntax

removeProcessorBinding(workAssignmentName, server=serverName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>workAssignmentName</td>
<td>Specifies the name of the work assignment to unbind.</td>
</tr>
<tr>
<td>server</td>
<td>Specifies the name of the server from which to unbind.</td>
</tr>
</tbody>
</table>

4.4.9.3 Example

- Remove a binding:
  
  removeProcessorBinding('mypkg/MyTestWA', server='ess_server1')

4.4.10 updateWorkshift

Command Category: Application Management Commands
Use with WLST: Online

4.4.10.1 Description

Update async limits and thread allocation for a custom workshift.

4.4.10.2 Syntax

updateWorkshift(workshiftName, [alloc=None], [plsqlLimit=None], [asyncJavaLimit=None])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>workshiftName</td>
<td>Specifies the name of the workshift to update.</td>
</tr>
<tr>
<td>alloc</td>
<td>Optional. Specifies the maximum local thread allocation.</td>
</tr>
<tr>
<td>plsqlLimit</td>
<td>Optional. Specifies the maximum number of PL/SQL jobs that can be active in the isolation group. Use -1 to specify that there no limit.</td>
</tr>
<tr>
<td>asyncJavaLimit</td>
<td>Optional. Specifies the maximum number of async Java jobs that can be active in the isolation group. Use -1 to specify that there is no limit.</td>
</tr>
</tbody>
</table>

**Note:**

You must specify least one of the optional arguments.

4.4.10.3 Examples

- Update the PL/SQL limit for the workshift mypkg/SampleWorkshift.
  
  updateWorkshift('mypkg/SampleWorkshift', plsqlLimit=20)

- Update both async limits for the workshift mypkg/SampleWorkshift.
  
  updateWorkshift('mypkg/SampleWorkshift', plsqlLimit=25, asyncJavaLimit=50)
4.5 Oracle Enterprise Scheduler Diagnostic Dumps

Oracle Enterprise Scheduler provides a set of diagnostic dumps that facilitate the diagnosis of problems. These dumps are built on the Oracle Diagnostics Framework. Oracle Enterprise Scheduler problems are typically exposed when a request does not start or complete as expected. In such a scenario, the user can manually create Oracle Enterprise Scheduler diagnostic dumps and use the information in the dumps to help diagnose the problem. One way to easily create all Oracle Enterprise Scheduler diagnostic dumps is by creating an incident with a specific message ID, as described in Creating an XXX Oracle Enterprise Scheduler Incident using WLSTXXX.

The following are the Oracle Enterprise Scheduler diagnostic dump-related commands. They are described in The Dump Commands.

- `executeDump`
- `listDumps`
- `describeDump`

You control the behavior of the dump by specifying the dump name as an argument to the command. The valid dump names are described in Table 4-3 and examples of their use are shown in Dump Examples.

<table>
<thead>
<tr>
<th>Dump Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ess.applications</code></td>
<td>Dumps all registered Oracle Enterprise Scheduler applications on every server in the isolation group. An application that is registered on multiple servers appears multiple times in this dump. For an application on a given server, you can check what version is registered, whether the application is active, and when it was last activated.</td>
</tr>
<tr>
<td><code>ess.bindings</code></td>
<td>Dumps current and inactive processor bindings for this instance, including the binding mode. An inactive binding that is completed has an expired schedule, and cannot become active again. For inactive bindings that are not completed, the dump shows the workshift that will next be active and when it will be active. This dump shows all completed bindings.</td>
</tr>
<tr>
<td><code>ess.processor</code></td>
<td>Dumps current processor information for this instance. Dumps the processor state and active thread count, plus a list of enabled and deployed applications. The active thread count is the number of threads that are in use across all resources, including deactivated resources. For detailed information on work allocation, see dump <code>ess.workalloc</code>. If an application is not processing requests, make sure the processor is running and the application is both deployed and enabled on the server.</td>
</tr>
<tr>
<td><code>ess.requests</code></td>
<td>Dumps detailed information about all requests in the process group that are in a non-terminal state. Includes core and extended system properties and CP parameters.</td>
</tr>
</tbody>
</table>
Table 4-3  (Cont.) Oracle Enterprise Scheduler Diagnostic Dumps

<table>
<thead>
<tr>
<th>Dump Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ess.servers</td>
<td>Dumps server information, such as last check-in, for all active servers in the isolation group. Every server must check in at some interval (one minute by default). If a server hasn’t checked in for over one minute, it may have a problem. After a server hasn’t checked in for some period of time, Oracle Enterprise Scheduler may assume the server is down and fail over the requests that were being processed on that server.</td>
</tr>
<tr>
<td>ess.workalloc</td>
<td>Dumps detailed information on work assignments, including maximum resources and current allocations. The whereClause shows the effective specialization for the work assignment, which accounts for work assignments bound in exclusive mode. This dump may not show all completed bindings. Use ess.bindings to check if a binding is complete. If there are no bindings, this dump shows information on the default work assignment.</td>
</tr>
<tr>
<td>ess.workunits</td>
<td>Dumps all work units for this process group.</td>
</tr>
</tbody>
</table>

4.5.1 The Dump Commands

The following example shows how to start WLST and connect to the server:

```
$MW_HOME/oracle_common/common/bin/wlst.sh
...
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands

wls:/offline> connect('weblogic','welcome1','localhost:7001')
Connecting to t3://localhost:7001 with userid weblogic ...
Successfully connected to Admin Server 'AdminServer' that belongs to domain 'base_domain'.

Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead.

wls:/base_domain/serverConfig>
```

Note:

You can connect to the admin server or a managed server. However, if you connect to the admin server, you must specify the managed server to use with each dump command, for example:

```
executeDump(name="ess.applications", appName="ESSAPP", server='ess_server1')
```
Once WLST is started and connected to the server, you can use the `executeDump`, `listDumps`, `describeDump` commands as shown in the following sections.

### 4.5.1.1 executeDump

The `executeDump` command creates a diagnostic dump based on the dump name and the application name.

#### 4.5.1.1.1 Syntax

```java
executeDump(name="dump_name", appName="app_name", [server="server_name"])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>name</code></td>
<td>The dump name from Table 4-3.</td>
</tr>
<tr>
<td><code>appName</code></td>
<td>The name of the application.</td>
</tr>
<tr>
<td><code>server</code></td>
<td>Optional. You can connect to the AdminServer or a managed server. If you connect to the AdminServer, you must use the <code>server</code> argument to specify the name of the managed server to use with each dump command.</td>
</tr>
</tbody>
</table>

### 4.5.1.2 listDumps

The `listDumps` command lists the available dumps for a given application.

#### 4.5.1.2.1 Syntax

```java
listDumps(appName="app_name")
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>appName</code></td>
<td>The name of the application.</td>
</tr>
</tbody>
</table>

### 4.5.1.3 describeDump

Lists help for a specific dump type.

#### 4.5.1.3.1 Syntax

```java
describeDump(name="dump_name")
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>name</code></td>
<td>The dump name from Table 4-3.</td>
</tr>
</tbody>
</table>

### 4.5.2 Dump Examples

The following examples show how to use the diagnostic dumps listed in Table 4-3.

- Dump all registered applications on every server in the isolation group. An application that is registered on more than one server appears multiple times in this dump. For an application on a given server, you can check what version is registered, whether the application is active, and when it was last activated.

```java
executeDump(name="ess.applications", appName="ESSAPP")
```
• Dump processor bindings for this instance, including the binding mode. An inactive binding that is completed has an expired schedule, and it does not become active again. For inactive bindings that are not completed, the dump shows the workshift that will be active next and when it will be active. This dump shows all completed bindings.

executeDump(name="ess.bindings", appName="ESSAPP")

• Dump processor state and active thread count, plus list enabled and deployed applications. The active thread count is the number of threads that are in use across all resources, including deactivated resources. For more information about work allocation, see the entry for ess.workalloc in Table 4-3.

If an application is not processing requests, make sure the processor is running and the application is both deployed and enabled on the server.

executeDump(name="ess.processor", appName="ESSAPP")

• Dump detailed information about all requests in the process group that are in a non-terminal state. Includes core and extended system properties and CP parameters.

executeDump(name="ess.requests", appName="ESSAPP")

• Dump all active servers in the isolation group. Every server must check in at an interval, one minute by default. If a server does not check in for over one minute, it may have a problem. If a server does not check in for some period of time, ESS may assume the server is down and fail over the requests that were being processed on that server.

executeDump(name="ess.servers", appName="ESSAPP")

• Dump detailed information about work assignments, including maximum resources and current allocations. The whereClause information shows the effective specialization for the work assignment, which accounts for work assignments bound in exclusive mode.

This dump may not show all completed bindings. To check whether a binding is complete, use the ess.bindings dump. If there are no bindings, this dump shows information about the default work assignment.

executeDump(name="ess.workalloc", appName="ESSAPP")

• Dump all work units in the process group.

executeDump(name="ess.workunits", appName="ESSAPP")

4.5.3 Creating an Oracle Enterprise Scheduler Incident

Oracle Enterprise Scheduler provides a convenient way to create an incident with all Oracle Enterprise Scheduler diagnostic dumps, using the message id ESS-99999. For example:

createIncident(messageId="ESS-99999", appName="ESSAPP", description="ESS incident with all dumps")

The incident files are located in the ADRHome directory, and you can use the listADRHOmes() command to list them.

Note that Oracle Enterprise Scheduler uses the following paths:
ADRBase = ${MW_HOME}/user_projects/domains/base_domain/servers/SERVER/adr
ADRHome = $(ADRBase)/diag/ofm/base_domain/SERVER

4.6 Oracle Enterprise Scheduler Convenience Scripts

To simplify execution, wrapper shell scripts (.sh on Linux/Unix and .cmd on Windows) are provided to invoke the native WLST commands. The scripts set environment properties such as CLASSPATH before using wlst.sh to invoke the WLST native commands. All the scripts are available in the $ORACLE_HOME/bin directory.

The .sh and .cmd commands connect to a WLS server before executing the corresponding WLST command. By default, the server connection details are read from a file named server.properties in the HOME directory of the user running the command (typically /home/UserId on Linux/Unix and C:\Documents and Settings\UserId on Windows). You can override the default file by specifying an alternate file or by providing explicit values (host, port, user name, password) on the command line. The host, port, user name and password values specified on the command line take precedence over the corresponding values in the files.

The connection details must be specified in the following syntax in the server.properties file or in any alternate file provided on the command line:

ADMIN_SERVER_HOST=host.example.com
ADMIN_SERVER_PORT=7001
ADMIN_USER_NAME=weblogic
ADMIN_PASSWORD=weblogic1
ESS_SERVER_NAME=ess_server1

In order to comply with manageability checklist requirements, the password cannot be supplied as a command-line argument while invoking shell scripts. It can either be part of the server.properties file or entered interactively. You can use one of the following methods to automate interactive password submission:

• Write the WLS administrator password in a file, and then use it to redirect input to command. For example:

```
sh essManageRuntimeConfig.sh .... < input.txt
```

• After the command finishes use "<<EOF". EOF can be any unique string other than the actual password. In the next line write the password, followed by EOF in the next line (or whatever terminating string you used after <<). For Example:

```
sh essManageRuntimeConfig.sh ... <<EOF
wls_admin_password
EOF
```

4.6.1 essManageRuntimeConfig

Manages Oracle Enterprise Scheduler runtime configuration parameters. The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the -f option. The admin server password for WLS has to be provided either in a file or entered interactively.
4.6.1.1 Syntax

```
```

4.6.1.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-a, --add</td>
<td>Adds a configuration parameter</td>
</tr>
<tr>
<td>-m, --mod</td>
<td>Modifies a configuration parameter</td>
</tr>
<tr>
<td>-d, --del</td>
<td>Deletes a configuration parameter</td>
</tr>
<tr>
<td>-A, --app appname</td>
<td>Specifies the name of the hosting application.</td>
</tr>
<tr>
<td>-t, --type parameter_type</td>
<td>Specifies the type of the configuration parameter. Possible</td>
</tr>
<tr>
<td></td>
<td>types are:</td>
</tr>
<tr>
<td></td>
<td>• ESS - for Oracle Enterprise Scheduler parameters</td>
</tr>
<tr>
<td></td>
<td>• APP - for user defined parameters</td>
</tr>
<tr>
<td>-n, --name name</td>
<td>Specifies the name of the configuration parameter.</td>
</tr>
<tr>
<td>-v, --val value</td>
<td>Specifies the value of the configuration parameter.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server</td>
</tr>
<tr>
<td></td>
<td>connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

4.6.1.3 Associated Files

The following file is used with this command:

```
server.properties Contains server connection information
```

4.6.1.4 Exit Values

The command exits with the following possible values:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Success</td>
</tr>
<tr>
<td>-1</td>
<td>Error</td>
</tr>
</tbody>
</table>
4.6.1.5 Examples

- Add a user-defined parameter foo with value bar for the application myapp:
  essManageRuntimeConfig.sh -a -A myapp -t APP -n foo -v bar

- Get the value of user-defined parameter foo for the application myapp:
  essManageRuntimeConfig.sh -A myapp -t APP -n foo

- Get the list of all user-defined parameters for the application myapp:
  essManageRuntimeConfig.sh -A myapp -t APP

- Modify the value of the user-defined parameter foo to barone for the application myapp:
  essManageRuntimeConfig.sh -m -A myapp -t APP -n foo -v barone

- Delete the user-defined parameter foo for application myapp:
  essManageRuntimeConfig.sh -d -t APP -A myapp -n foo

- Show all ESS parameters for myapp:
  essManageRuntimeConfig.sh -t ESS -A myapp

4.6.1.6 Related Native Command

Manage (Add/Delete/Modify/Get) Configuration Parameters

4.6.2 essGetOutputContent

Retrieves the request log and output data files from the content store for all the specified request IDs. The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the -f option. The admin server password for WLS has to be provided in a file or entered interactively.

4.6.2.1 Syntax

essGetOutputContent.sh [-t content_type] [-d dir] [-n lines] [-x disp] [-f filename] [-H hostname] [-P port] [-u user] [-s server_name] [-h] requestId1 ...

4.6.2.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-t, --content_type</td>
<td>Specifies one of the following types of content to get:</td>
</tr>
<tr>
<td></td>
<td>• LOG</td>
</tr>
<tr>
<td></td>
<td>• OUTPUT</td>
</tr>
<tr>
<td></td>
<td>• TEXT_OUTPUT</td>
</tr>
<tr>
<td></td>
<td>• BINARY_OUTPUT</td>
</tr>
<tr>
<td></td>
<td>If this option is not specified, both log and output content are retrieved.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-d, --outDir dir</td>
<td>Specifies the directory where content is stored. The default is the current directory.</td>
</tr>
<tr>
<td>-n, --logLines lines</td>
<td>Specifies the number of lines of log to retrieve. The default is 1000.</td>
</tr>
<tr>
<td>-x, --logDisplay disp</td>
<td>Specifies where log lines are presented. The valid values are CONSOLE or FILE. The default is FILE.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

### 4.6.2.3 Associated Files

The following file is used with this command:

```
server.properties    Contains server connection information
```

### 4.6.2.4 Exit Values

The command exits with the following possible values:

- 0    Success
- -1   Error

### 4.6.2.5 Examples

- Get the request log for request ID 123:
  
  ```
  essGetOutputContent.sh -t LOG 123
  ```

- Get all of the output from request 123:
  
  ```
  essGetOutputContent.sh -t OUTPUT 123
  ```

- Get all the output of request 123 and save it in directory /tmp:
  
  ```
  essGetOutputContent.sh -t OUTPUT -d "/tmp" 123
  ```

- Get the first 100 lines of the request log for request ID 123:
  
  ```
  essGetOutputContent.sh -t LOG -n 100 123
  ```

- Get the request log and output data for requests 123 and 124 and save it in /tmp:
4.6.2.6 Related Native Command

Get Log and Output Content of a Request

4.6.3 essQueryRequests

Search and list requests based upon hosting application name, state or elapsed time of execution. This command can be used to find long running requests. The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the \(-f\) option. The admin server password for WLS has to be provided in a file or entered interactively.

4.6.3.1 Syntax

```
```

4.6.3.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(-a, --appName app_name)</td>
<td>Specifies the hosting application name.</td>
</tr>
<tr>
<td>(-S, --state state)</td>
<td>Specifies one of the following request states:</td>
</tr>
<tr>
<td></td>
<td>- WAIT\</td>
</tr>
<tr>
<td></td>
<td>- READY\</td>
</tr>
<tr>
<td></td>
<td>- RUNNING\</td>
</tr>
<tr>
<td></td>
<td>- COMPLETED\</td>
</tr>
<tr>
<td></td>
<td>- BLOCKED\</td>
</tr>
<tr>
<td></td>
<td>- HOLD\</td>
</tr>
<tr>
<td></td>
<td>- CANCELLING\</td>
</tr>
<tr>
<td></td>
<td>- EXPIRED\</td>
</tr>
<tr>
<td></td>
<td>- CANCELLED\</td>
</tr>
<tr>
<td></td>
<td>- ERROR\</td>
</tr>
<tr>
<td></td>
<td>- WARNING\</td>
</tr>
<tr>
<td></td>
<td>- SUCCEEDED\</td>
</tr>
<tr>
<td></td>
<td>- PAUSED\</td>
</tr>
<tr>
<td></td>
<td>- PENDING_VALIDATION\</td>
</tr>
<tr>
<td></td>
<td>- VALIDATION_FAILED\</td>
</tr>
<tr>
<td></td>
<td>- SCHEDULE_ENDED\</td>
</tr>
<tr>
<td></td>
<td>- FINISHED\</td>
</tr>
<tr>
<td></td>
<td>- ERROR_AUTO_RETRY\</td>
</tr>
<tr>
<td></td>
<td>- ERROR_MANUAL_RECOVERY\</td>
</tr>
<tr>
<td>(-d, --days days)</td>
<td>Specifies the running time in days.</td>
</tr>
<tr>
<td>(-n, --hours hours)</td>
<td>Specifies the running time in hours.</td>
</tr>
<tr>
<td>(-m, --minutes minutes)</td>
<td>Specifies the running time in minutes.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

### 4.6.3.3 Associated Files

The following file is used with this command:

**server.properties**  
Contains server connection information

### 4.6.3.4 Exit Values

The command exits with the following possible values:

- 0  
  Success
- -1 
  Error

### 4.6.3.5 Examples

- Get all running requests:
  
  `essQueryRequests.sh -S RUNNING`

- Get all cancelled requests:
  
  `essQueryRequests.sh -S CANCELLED`

- Get all requests running for more than two days:
  
  `essQueryRequests.sh -d 2`

- Get all requests running for more than 10 hours:
  
  `essQueryRequests.sh -n 10`

- Get all requests running for the application myapp:
  
  `essQueryRequests.sh -a myapp`

- Get all requests in the CANCELLING state for the application myapp:
  
  `essQueryRequests.sh -a myapp -S CANCELLING`

- Get all requests that have been running for more than 2.5 days for the application myapp:
essQueryRequests.sh -a myapp -d 2 -n 12

4.6.3.6 Related Native Command
Search and List Requests

4.6.4 essManageRequests

Cancel, recover, or complete one or more requests given their request IDs. The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the \(-f\) option. The admin server password for WLS has to be provided in a file or entered interactively.

4.6.4.1 Syntax


4.6.4.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-c, --cancel</td>
<td>Cancels request.</td>
</tr>
<tr>
<td>-r, --recover</td>
<td>Recovers a request</td>
</tr>
<tr>
<td>-C, --complete</td>
<td>Marks a request as completed.</td>
</tr>
<tr>
<td>-g, --getdetail</td>
<td>Gets a request's details.</td>
</tr>
<tr>
<td>-S, --asyncStatus status</td>
<td>When marking request as complete, specifies one of the following final disposition statuses:</td>
</tr>
<tr>
<td></td>
<td>• SUCCESS</td>
</tr>
<tr>
<td></td>
<td>• PAUSE</td>
</tr>
<tr>
<td></td>
<td>• WARNING</td>
</tr>
<tr>
<td></td>
<td>• ERROR</td>
</tr>
<tr>
<td></td>
<td>• CANCEL</td>
</tr>
<tr>
<td></td>
<td>• UPDATE</td>
</tr>
<tr>
<td></td>
<td>• BIZ_ERROR</td>
</tr>
<tr>
<td></td>
<td>• ERROR_MANUAL_RECOVERY</td>
</tr>
<tr>
<td>-M, --statusMessage message</td>
<td>Specifies a qualifying message that describes the operation when marking request as complete.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>-s, --serv server_name</code></td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td><code>-h</code></td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

4.6.4.3 Associated Files

The following file is used with this command:

```
server.properties
```
Contains server connection information

4.6.4.4 Exit Values

The command exits with the following possible values:

- 0  Success
- -1 Error

4.6.4.5 Examples

- Cancel requests 123 and 124:
  ```
  essManageRequests.sh -c 123 124
  ```
- Recover request 123:
  ```
  essManageRequests.sh -r 123
  ```
- Complete request 123:
  ```
  essManageRequests.sh -C -S ERROR -M "Completed by Admin" 123
  ```

4.6.4.6 Related Native Command

Manage Requests

4.6.5 essManageServer

Start, stop or get the status of the Oracle Enterprise Scheduler application running on the server. Starting the Oracle Enterprise Scheduler application means to start the Oracle Enterprise Scheduler processor thread so that request processing can start. Stopping Oracle Enterprise Scheduler means to stop or quiesce the Oracle Enterprise Scheduler processor so that no new requests are processed. The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the `-f` option. The admin server password for WLS has to be provided in a file or entered interactively.

4.6.5.1 Syntax

```
```
4.6.5.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-n, --start</td>
<td>Starts the Oracle Enterprise Scheduler processor thread.</td>
</tr>
<tr>
<td>-x, --stop</td>
<td>Stops the Oracle Enterprise Scheduler processor thread.</td>
</tr>
<tr>
<td>-S, --status</td>
<td>Displays the current status of the Oracle Enterprise Scheduler processor thread.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

4.6.5.3 Associated Files

The following file is used with this command:

server.properties Contains server connection information

4.6.5.4 Exit Values

The command exits with the following possible values:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Success</td>
</tr>
<tr>
<td>-1</td>
<td>Error</td>
</tr>
</tbody>
</table>

4.6.5.5 Examples

- Stop Oracle Enterprise Scheduler processor:
  
  essManageServer.sh --stop

- Get the current state of the Oracle Enterprise Scheduler processor:
  
  essManageServer.sh --status

4.6.5.6 Related Native Command

Manage Oracle Enterprise Scheduler Servers
4.6.6 essSubmitRequest

Submit a job request to ESSAPP for execution. It is assumed that the job definition exists in the MDS. The user can specify the job execution schedule in the following four ways:

- Immediate: The job is scheduled for immediate one-time execution.
- Once: The job is scheduled to run once at a fixed time specified by the user.
- Schedule: The name of a predefined schedule (in MDS) is provided and the job runs on that schedule.
- Recurring: The schedule can be created in an ad-hoc manner by providing relevant arguments through this command. This schedule is used for the request submission and it is stored in the MDS for future use. The storage location is based on the schedule name provided.

If no scheduling method is specified, immediate execution is used.

**Note:**
The job definition must be predefined, while the schedule may be defined in an ad-hoc manner using this command.

The `jobName` and `schName` options must be fully qualified names that includes the package name. If they are not fully qualified, the following package is used: `/oracle/apps/ess/custom/`.

The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the `-f` option. The admin server password for WLS has to be provided in a file or entered interactively.

### 4.6.6.1 Syntax

```
essSubmitRequest.sh appName jobName [-n reqNote] [-I | -O time | -R params | -S schName] [-f filename] [-H hostname] [-P port] [-u user] [-s server_name] [-h] [prop=value ...]
```

### 4.6.6.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Names the job’s hosting application.</td>
</tr>
<tr>
<td>jobName</td>
<td>Names the job definition to be used for the current request.</td>
</tr>
<tr>
<td>-n, --note reqNote</td>
<td>Specifies a short description for the job request</td>
</tr>
<tr>
<td>-S, --schName schName</td>
<td>Names the predefined schedule definition.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>-A, --RschName name</td>
<td>Names the schedule if you define the schedule using the -R option.</td>
</tr>
<tr>
<td>-C, --schDesc desc</td>
<td>Specifies a description of the ad-hoc schedule being defined. The default value is &quot;Custom Ad-Hoc Schedule&quot;.</td>
</tr>
<tr>
<td>-I, --immediate</td>
<td>Specifies that the job should be executed immediately. This is used as the default if no other schedule is specified.</td>
</tr>
<tr>
<td>-O, --o_time time</td>
<td>Specifies the time for one time execution. Format: HH:MM:SS:DD:MM:YYYY.</td>
</tr>
<tr>
<td>-R, --recurring</td>
<td>Specifies that the schedule recurs.</td>
</tr>
<tr>
<td>-b, --begin_time time</td>
<td>Specifies the start time for a recurring schedule. Format: HH:MM:SS:DD:MM:YYYY.</td>
</tr>
<tr>
<td>-F, --frequency value</td>
<td>Specifies the frequency of recurrence. Valid values: [SECOND, MINUTE, HOUR, DAY, WEEK, MONTH, YEAR]</td>
</tr>
<tr>
<td>-N, --freqNum num</td>
<td>Specifies an integer value that represents the frequency repeat interval.</td>
</tr>
<tr>
<td>-c, --count num</td>
<td>Specifies an integer value that is the maximum number of repetitions.</td>
</tr>
<tr>
<td>-e, --end_time time</td>
<td>Specifies the recurrence end time. Format: HH:MM:SS:DD:MM:YYYY.</td>
</tr>
<tr>
<td>-m, --month month</td>
<td>Defines the month of the year if the frequency is YEAR. Valid values are: [1-12].</td>
</tr>
<tr>
<td>-w, --week week</td>
<td>Specifies the week of a month. Valid values are: [1-6, LAST].</td>
</tr>
<tr>
<td>-d, --day day</td>
<td>Specifies the day of a week. Valid values are: [1-7], where 1 represents Monday.</td>
</tr>
<tr>
<td>-D, --date date</td>
<td>Specifies a specific day of month. Valid values are: [1-31, LAST].</td>
</tr>
<tr>
<td>prop=value</td>
<td>Specifies other request parameters/properties specified as: prop1=val1 prop2=val2 and so on. These values should be added as the last options in the command.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

### 4.6.6.3 Associated Files

The following file is used with this command:

```
server.properties  Contains server connection information
```

### 4.6.6.4 Exit Values

The command exits with the following possible values:

0        Success  
-1       Error  

### 4.6.6.5 Examples

The following values apply to all of the examples:

```
HOSTING_APP = EssDemoApp  
SCHEDULE_NAME= /oracle/apps/ess/custom/MySch  
JOB_DEF_NAME= /oracle/apps/ess/demopackage/BasicJavaJob
```

and server connection properties are defined in the `~/server.properties` file.

**Note:**

The `[prop-value ...]` values should be added as the last options in the command.

- Submit a request for immediate job execution (one-time only):

```
essSubmitRequest.sh HOSTING_APP JOB_DEF_NAME
```

- Submit a request for one-time job execution at a specified time:

```
essSubmitRequest.sh HOSTING_APP JOB_DEF_NAME -O 21:10:30:03:05:2012
```

- Submit a job request with a recurring schedule. The recurrence is defined as follows:
  - Execution recurs every 2 minutes  
  - Starts at 21:10:30 on 03 May 2012  
  - Completes three iterations  
  - Additional request parameters are: eqName=test and PRIORITY=10. This recurrence will persisted in the MDS repository for future use.

```
essSubmitRequest.sh HOSTING_APP JOB_DEF_NAME -R -A SCHEDULE_NAME -F MINUTE -N 2 -c 3 -b 21:10:30:03:05:2012 reqName=test PRIORITY=10
```
• Submit a job request using a predefined schedule:
  
  essSubmitRequest.sh HOSTING_APP JOB_DEF_NAME -S SCHEDULE_NAME

• Submit a job request with a monthly recurring schedule. The description for the request is "Request with monthly schedule". The recurring schedule name and description are provided by -A and -C options. The recurrence is: Execution recurs every 2 months, on Thursday of the 5th week (if applicable), starting at 21:10:30 on 03 May 2012, until 21:10:30 on 04 May 2013:
  

• Submit a job request with a yearly recurring schedule. The description for the request is "Request with yearly schedule". The recurring schedule name and description are provided by the -A and -C options. The recurrence is: Execution will recur every 3 years, on the last day of May, starting at 21:10:30 on 03 May 2012, for 5 iterations:
  
  essSubmitRequest.sh HOSTING_APP JOB_DEF_NAME -n "Request with yearly schedule" -R -A SCHEDULE_NAME -C "Yearly_schedule" -F YEAR -N 3 -b 21:10:30:03:05:2012 -m 5 -D LAST -c 5

• Submit a job request with an hourly recurring schedule. Recurrence is: Execution repeats every hour starting at the current time.:
  
  essQueryRequests.sh -a myapp -d 2 -n 12

4.6.6.6 Related Native Command

Submit Job Requests to Oracle Enterprise Scheduler

4.6.7 essManageJobDefn

Manage (show, create, delete, customize, update) an Oracle Enterprise Scheduler job definition.

The show option (-S) displays the list of job definitions that are part of a particular application. If a job name is specified it only shows the details of this job definition. The create option (-N) creates a new job definition in the namespace of the relevant application (supplied as a parameter) in MDS. The delete option (-D) deletes a job definition from the MDS. The customize option (-C) modifies the customizable properties of an existing job definition. The update option (-U) updates an existing job definition with the desired property values (existing parameters persist if not overridden).
Note:

- For job definition creation, deletion and update, the default package path `/oracle/apps/ess/custom/` is always prepended to the specified job name.

- You can only create, delete, or update the job definitions present in the `/oracle/apps/ess/custom` namespace. That means that prepackaged job definitions cannot be modified.

- You cannot customize job definitions present in the customer namespace `/oracle/apps/ess/custom`. Use the update option to modify those definitions.

- For the `jobType` specification, if you do not specify a fully qualified name, the default package `/oracle/as/ess/core/` is prepended to the name.

The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the `-f` option. The admin server password for WLS has to be provided in a file or entered interactively.

### 4.6.7.1 Syntax

```
essManageJobDefn.sh appName [-j jobName] [-t jobType] [-d desc]
-S | -N | -D | -C | -U [-f filename] [-H hostname] [-P port] [-u user] [-s server_name] [-h] [prop=value ...]
```

### 4.6.7.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>appName</code></td>
<td>Specifies the logical name of the hosting application for a job.</td>
</tr>
<tr>
<td><code>-j, --jobName jobDefn</code></td>
<td>Specifies the name of the job definition. For the create, delete, and update operations, the default package <code>/oracle/apps/ess/custom/</code> is prepended to the specified name.</td>
</tr>
<tr>
<td><code>-t, --jobType jobType</code></td>
<td>Specifies the name of the predefined job type to be used for creating the job definition. If the name does not contain package path, the following path is prepended to it: <code>/oracle/as/ess/core/</code>.</td>
</tr>
<tr>
<td><code>-d, --desc description</code></td>
<td>Specifies a description of the job definition</td>
</tr>
<tr>
<td><code>-S, --show</code></td>
<td>Displays the list of job definitions that are part of a particular application. If a job name is specified it shows the details of only that job definition. Used with <code>appName</code> and <code>-j</code>.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-N, --create</td>
<td>Creates a new job definition. Used with <code>appName, -j, -t, -d and prop=value</code>.</td>
</tr>
<tr>
<td>-D, --delete</td>
<td>Deletes an existing job definition. Used with <code>appName</code> and <code>-j</code>.</td>
</tr>
<tr>
<td>-C, --customize</td>
<td>Modifies customizable properties of the job definition. Properties can be:</td>
</tr>
<tr>
<td></td>
<td>• SYS_retries</td>
</tr>
<tr>
<td></td>
<td>• SYS_priority</td>
</tr>
<tr>
<td></td>
<td>• SYS_requestCategory</td>
</tr>
<tr>
<td></td>
<td>• SYS_request_timeout</td>
</tr>
<tr>
<td></td>
<td>• enableTrace</td>
</tr>
<tr>
<td></td>
<td>• enableTimeStatistics</td>
</tr>
<tr>
<td></td>
<td>Used with <code>appName, -j option, prop=value</code>.</td>
</tr>
<tr>
<td>-U, --update</td>
<td>Updates an existing job definition. This option replaces the current definition with a new one in which existing parameters persist if not overridden. Used with <code>appName, -j</code> and either <code>-d</code> or <code>prop=value</code>.</td>
</tr>
<tr>
<td>prop=value</td>
<td>Specifies other request parameters/properties specified as: <code>prop1=val1 prop2=val2</code> and so on.</td>
</tr>
<tr>
<td>-f, --file filename</td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file <code>$HOME/server.properties</code> is used.</td>
</tr>
<tr>
<td>-H, --host hostname</td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td>-P, --port port</td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td>-u, --user username</td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td>-s, --serv server_name</td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td>-h</td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>

### 4.6.7.3 Associated Files

The following file is used with this command:

```
server.properties Contains server connection information
```

### 4.6.7.4 Exit Values

The command exits with the following possible values:

```
0 Success
-1 Error
```
4.6.7.5 Examples

The following values apply to all of the examples:

HOSTING_APP = ESS_NATIVE_HOSTING_APP_LOGICAL_NAME
JOB_DEF_PREDEF = /oracle/apps/ess/TestJob
JOB_DEF_NAME = TestJob_wlst
JOB_TYPE_NAME = JavaJobType
JOB_DESC = My WLST Test Defn

and server connection properties are defined in the ~/server.properties file.

- Show all job definitions present in namespace of HOSTING_APP:
  
  essManageJobDefn.sh HOSTING_APP -S

- Show details of the job definition JOB_DEF_PREDEF part of HOSTING_APP:

  essManageJobDefn.sh HOSTING_APP -S -j JOB_DEF_PREDEF

- Create a new job definition named /oracle/apps/ess/custom/TestJob_wlst in the namespace of HOSTING_APP with the job type /oracle/as/ess/core/JavaJobType:

  essManageJobDefn.sh HOSTING_APP -N -j JOB_DEF_NAME -t JOB_TYPE_NAME

- Create a new job definition named /oracle/apps/ess/custom/TestJob_wlst in namespace of HOSTING_APP with the job type /oracle/as/ess/core/JavaJobType and with the description JOB_DESC:

  essManageJobDefn.sh HOSTING_APP -N -j JOB_DEF_NAME -t JOB_TYPE_NAME -d JOB_DESC

- Create a new job definition named /oracle/apps/ess/custom/TestJob_wlst in the namespace of HOSTING_APP with the job type /oracle/as/ess/core/JavaJobType and with the description JOB_DESC and the properties SYS_retries and myParam:

  essManageJobDefn.sh HOSTING_APP -N -j JOB_DEF_NAME -t JOB_TYPE_NAME -d JOB_DESC SYS_retries=1 myParam=xyz

- Update the job definition /oracle/apps/ess/custom+JOB_DEF_NAME with the new description JOB_DESC:

  essManageJobDefn.sh HOSTING_APP -U -j JOB_DEF_NAME -d JOB_DESC

- Update the job definition /oracle/apps/ess/custom+JOB_DEF_NAME with the properties SYS_retries and myParam:

  essManageJobDefn.sh HOSTING_APP -U -j JOB_DEF_NAME SYS_retries=1 myParam=xyz

- Delete the job definition /oracle/apps/ess/custom+JOB_DEF_NAME in HOSTING_APP:

  essManageJobDefn.sh HOSTING_APP -D -j JOB_DEF_NAME

- Customize the prepackaged job definition JOB_DEF_PREDEF in HOSTING_APP with the customizable properties SYS_retries & SYS_priority:

  essManageJobDefn.sh HOSTING_APP -C -j JOB_DEF_PREDEF SYS_retries=2 SYS_priority=3
4.6.7.6 Related Native Command

Manage Oracle Enterprise Scheduler Job Definitions

4.6.8 essManageSchedule

Manage (show, create, delete, customize and update) an Oracle Enterprise Scheduler schedule definition.

The show option (-S) displays the list of schedule definitions that are part of a particular application. If a schedule name is specified, it one shows the details for that schedule definition.

The create option (-C) creates a new schedule definition in the namespace of the relevant application (supplied as a parameter) in the MDS.

The delete option (-D) deletes the specified schedule definition from the MDS.

The update option (-U) updates an existing schedule definition with the specified property values (existing parameters persist if not overridden).

The server connection parameters are specified using a file as described in Oracle Enterprise Scheduler Convenience Scripts. However, the default values can be overridden by explicitly specifying them on the command line or specifying an alternate file using the -f option. The admin server password for WLS has to be provided in a file or entered interactively.

---

**Note:**

The default package name: /oracle/apps/ess/custom/ is always prepended to the schedule name specified with the -n option.

---

4.6.8.1 Syntax

```
essManageSchedule.sh appName [-n schName] [-d desc] -S | -C | -D | -U -F value [-I interval] [-b begin_time] [-c count | -e end_time][-f filename] [-H hostname] [-P port] [-u user] [-s server_name]
```

4.6.8.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Specifies the logical name of the hosting application.</td>
</tr>
<tr>
<td>-n, --schName schName</td>
<td>Specifies the name of the schedule definition. For the create, delete, and update operations, the default package / oracle/apps/ess/custom/ is prepended to the specified name.</td>
</tr>
<tr>
<td>-d, --schDesc description</td>
<td>Specifies a description of the schedule definition</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td><code>-S, --show</code></td>
<td>Displays the list of schedule definitions that are part of a particular application. If a schedule name is specified it shows the details of only that schedule definition. Used with <code>appName</code>, <code>-n</code> and <code>-d</code>.</td>
</tr>
<tr>
<td><code>-C, --create</code></td>
<td>Creates a new schedule definition. Used with <code>appName</code>, <code>-j</code>, <code>-t</code>, <code>-d</code> and <code>prop=value</code>.</td>
</tr>
<tr>
<td><code>-D, --delete</code></td>
<td>Deletes an existing schedule definition. Used with <code>appName</code> and <code>-n</code>.</td>
</tr>
<tr>
<td><code>-U, --update</code></td>
<td>Updates an existing schedule definition. This option replaces the current definition with a new one in which existing parameters persist if not overridden. Used with <code>appName</code>, <code>-n</code> and either <code>-d</code> or <code>-F</code>.</td>
</tr>
<tr>
<td><code>-F, --frequency value</code></td>
<td>Specifies the frequency of recurrence. Valid values: <code>SECOND</code>, <code>MINUTE</code>, <code>HOUR</code>, <code>DAY</code>, <code>WEEK</code>, <code>MONTH</code>, <code>YEAR</code>. Possible options: `-F value[-I interval][-b begin_time][-c count</td>
</tr>
<tr>
<td><code>-I, --interval num</code></td>
<td>Specifies an integer value that is used as the repeat interval for the <code>-F</code> option.</td>
</tr>
<tr>
<td><code>-c, --count num</code></td>
<td>Specifies an integer value that is the maximum number of repetitions.</td>
</tr>
<tr>
<td><code>-m, --month month</code></td>
<td>Defines the month of the year if the frequency is <code>YEAR</code>. Valid values are: <code>[1-12]</code>.</td>
</tr>
<tr>
<td><code>-f, --file filename</code></td>
<td>Specifies the name of the file that contains the server connection parameters. If not specified, the default file <code>$HOME/server.properties</code> is used.</td>
</tr>
<tr>
<td><code>-H, --host hostname</code></td>
<td>Specifies the hostname or IP address of the WLS server.</td>
</tr>
<tr>
<td><code>-P, --port port</code></td>
<td>Specifies the port number to connect.</td>
</tr>
<tr>
<td><code>-u, --user username</code></td>
<td>Specifies the user name.</td>
</tr>
<tr>
<td><code>-s, --serv server_name</code></td>
<td>Specifies the name of the server on which ESSAPP is running.</td>
</tr>
<tr>
<td><code>-h</code></td>
<td>Displays the command usage.</td>
</tr>
</tbody>
</table>
4.6.8.3 Associated Files

The following file is used with this command:

```
server.properties  Contains server connection information
```

4.6.8.4 Exit Values

The command exits with the following possible values:

```
0   Success
-1  Error
```

4.6.8.5 Examples

The following values apply to all of the examples:

```
HOSTING_APP = ESS_NATIVE_HOSTING_APP_LOGICAL_NAME
PREDEF_SCHEDULE = /oracle/apps/ess/demo/seeded/MyPredefinedSchedule
SCHEDULE_NAME = MyWlstSchedule
SCH_DESC = Description for WLST test schedule
```

and server connection properties are defined in the `~/server.properties` file.

- **Show all schedule definitions present in namespace of HOSTING_APP:**
  ```
  essManageSchedule.sh HOSTING_APP -S
  ```

- **Show details of the schedule definition PREDEF_SCHEDULE of HOSTING_APP:**
  ```
  essManageSchedule.sh HOSTING_APP -S -n PREDEF_SCHEDULE
  ```

- **Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP with the description SCH_DESC. The recurrence is: Occur every 2 minutes, starting at 21:10:30 on 03 May 2012, for 3 iterations:**
  ```
  essManageSchedule.sh HOSTING_APP -C -n SCHEDULE_NAME -d SCH_DESC -F MINUTE -I 2 -c 3 -b 21:10:30:03:05:12
  ```

- **Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP. The recurrence is: Occur every 2 months, on Thursday of the 5th week (if applicable), starting at 21:10:30 on 03 May 2012, and running until 21:10:30 on 04 May 2013:**
  ```
  essManageSchedule.sh HOSTING_APP -C -n SCHEDULE_NAME -F MONTH -I 2 -b 21:10:30:03:05:12 -w 5 -x 4 -e 21:10:30:04:05:13
  ```

- **Create a new recurring schedule definition named /oracle/apps/ess/custom/MyWlstSchedule in the namespace of HOSTING_APP. The recurrence is: Occur every 3 years, on the last day of May, starting at 21:10:30 on 03 May 2012, for 5 iterations:**
  ```
  essManageSchedule.sh HOSTING_APP -C -n SCHEDULE_NAME -F YEAR -I 3 -b 21:10:30:03:05:12 -m 5 -y LAST -c 5
  ```
• Create a new recurring schedule definition named /oracle/apps/ess/custom/
MyWlstSchedule in the namespace of HOSTING_APP. The recurrence is: Occur
every hour, starting from the current time:

```bash
essManageSchedule.sh HOSTING_APP -C -n SCHEDULE_NAME -F HOUR
```

• Update the schedule definition /oracle/apps/ess/custom+SCHEDULE_NAME
with the new description SCH_DESC. Recurrence remains unchanged:

```bash
essManageSchedule.sh HOSTING_APP -U -n SCHEDULE_NAME -d SCH_DESC
```

• Update the schedule definition /oracle/apps/ess/custom+SCHEDULE_NAME
with the following new recurrence - occur every minute:

```bash
essManageSchedule.sh HOSTING_APP -U -n SCHEDULE_NAME -F MINUTE
```

• Delete the schedule definition /oracle/apps/ess/custom+SCHEDULE_NAME in
HOSTING_APP:

```bash
essManageSchedule.sh HOSTING_APP -D -n SCHEDULE_NAME
```

### 4.6.8.6 Related Native Command

**Manage Oracle Enterprise Scheduler Schedule Definitions**

#### 4.6.9 essBatchDeleteRequests

Submits a request for a batch delete job. User can either use a pre-defined schedule (in
MDS) or specify a one-time execution time. If neither of these is specified, the request
starts immediately.

The request parameters are used to specify the delete criteria. When the batch delete
job runs, it determines which completed absolute parent and instance parent requests
satisfy the delete criteria specified for that batch job request and deletes the request
hierarchy for those requests.

For detailed list and description of valid batch delete parameters, see Batch Delete
Parameters.

The server connection parameters are specified using a file as described in Oracle
Enterprise Scheduler Convenience Scripts. However, the default values can be
overridden by explicitly specifying them on the command line or specifying an
alternate file using the -f option. The admin server password for WLS has to be
provided in a file or entered interactively.

#### 4.6.9.1 Syntax

```bash
essBatchDeleteRequests.sh [-d desc] [-S schId] [-b beginTime] [-e
endTime] [-f filename] [-H hostname] [-P port] [-u user] [-s
server_name] [-h] [prop=value ...]
```

#### 4.6.9.2 Options

The following table lists and describes the command options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-d, --desc desc</td>
<td>Specifies a description for the batch delete request.</td>
</tr>
</tbody>
</table>
Option | Description
---|---
-S, --schId schId | Specifies the fully qualified name of the schedule to use. The default package (used if the package is not specified) is /oracle/as/ess/essapp/custom/.
-b, --begin beginTime | Specifies the time at which the request is to be started. Format: HH:MM:SS:DD:MM:YYYY
-e, --end endTime | Specifies the time past which the request should not run. Format: HH:MM:SS:DD:MM:YYYY.
prop=value | Specifies other request parameters/properties specified as: prop1=val1 prop2=val2 and so on. See Batch Delete Parameters for a list of the parameters.
-f, --file filename | Specifies the name of the file that contains the server connection parameters. If not specified, the default file $HOME/server.properties is used.
-H, --host hostname | Specifies the hostname or IP address of the WLS server.
-P, --port port | Specifies the port number to connect.
-u, --user username | Specifies the user name.
-s, --serv server_name | Specifies the name of the server on which ESSAPP is running.
-h | Displays the command usage.

4.6.9.3 Associated Files

The following file is used with this command:

server.properties  Contains server connection information

4.6.9.4 Exit Values

The command exits with the following possible values:

0  Success
-1  Error

4.6.9.5 Examples

The following examples assume that server connection properties are defined in the ~/server.properties file.

- Delete all purgeable requests:
  essBatchDeleteRequests.sh

- Delete all purgeable requests in the application
  ESS_NATIVE.Hosting_APP_LOGICAL_NAME:
essBatchDeleteRequests.sh --desc "My purge for ESS NativeApp"
CriteriaApplication=ESS_NATIVE_HOSTING_APP_LOGICAL_NAME

- Delete all purgeable requests in application
  ESS_NATIVE_HOSTING_APP_LOGICAL_NAME, for which the job definition is
  JobDefinition://oracle/apps/ess/custom/MyDef:
  
  essBatchDeleteRequests.sh --desc "My purge for ESS NativeApp"
  CriteriaApplication=ESS_NATIVE_HOSTING_APP_LOGICAL_NAME
  CriteriaJobDefn=JobDefinition://oracle/apps/ess/custom/MyDef

- Submit batch delete job request using the schedule /oracle/as/ess/essapp/custom/WeeklySch:
  
  essBatchDeleteRequests.sh --desc "Purge using WeekSch" --schId /oracle/as/ess/essapp/custom/WeeklySch

- Delete all purgeable requests submitted by the user weblogic:
  
  essBatchDeleteRequests.sh CriteriaSubmitUser=weblogic

- Delete at most ten purgeable requests:
  
  essBatchDeleteRequests.sh CriteriaProcessLimit=10

- Delete purgeable requests whose job execution type is JAVA_TYPE:
  
  essBatchDeleteRequests.sh CriteriaJobExecType=JAVA_TYPE

- Delete purgeable requests that completed at five or more days ago:
  
  essBatchDeleteRequests.sh CriteriaMinimumAge=5

- Delete purgeable requests, but retain requests that completed successfully in the past five days:
  
  essBatchDeleteRequests.sh CriteriaRetentionAgeSuccess=5

- Delete purgeable requests that belong to the product named "DemoProduct":
  
  essBatchDeleteRequests.sh CriteriaProduct=DemoProduct

4.6.9.6 Related Native Command

The batchDeleteSchedulerRequest Command
This chapter summarizes WLST (Oracle WebLogic Scripting Tool) commands that perform Oracle Managed File Transfer (MFT) operations.

This chapter includes the following sections:

- Overview of MFT WLST Command Categories
- MFT Artifact Management Commands
- MFT Metadata Commands
- MFT Key Management Commands
- MFT Deployment History Commands
- MFT Transfer Management Commands
- MFT Embedded Server Commands
- MFT Callout Commands
- MFT Event Notification Commands
- MFT Archive and Restore Commands
- MFT Purge Commands
- Setting System MBean Properties for MFT WLST Commands

For general information about WLST, see the WLST Command Reference for WebLogic Server.

For general information about MFT, see Using Oracle Managed File Transfer.

### 5.1 Overview of MFT WLST Command Categories

MFT WLST commands are divided into the following categories.

<table>
<thead>
<tr>
<th>Command Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFT Artifact Management Commands</td>
<td>Perform these operations on source, transfer, and target artifacts: enable, disable, deploy, undeploy, delete, export, check existence in the Metadata Store (MDS).</td>
</tr>
<tr>
<td>MFT Metadata Commands</td>
<td>Export, import, and reset MFT metadata.</td>
</tr>
</tbody>
</table>
Table 5-1  (Cont.) MFT WLST Command Categories

<table>
<thead>
<tr>
<th>Command Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFT Key Management Commands</td>
<td>Generate, import, export, delete, list, and update SSL, SSH, and PGP keys in the MFT keystore.</td>
</tr>
<tr>
<td>MFT Deployment History Commands</td>
<td>View the deployment history of source, transfer, and target artifacts.</td>
</tr>
<tr>
<td>MFT Transfer Management Commands</td>
<td>Pause, resume, resubmit, or display information about transfer instances.</td>
</tr>
<tr>
<td>MFT Embedded Server Commands</td>
<td>Start, stop, and change ports of embedded FTP and sFTP servers.</td>
</tr>
<tr>
<td>MFT Callout Commands</td>
<td>Create, delete, list, and update custom callouts.</td>
</tr>
</tbody>
</table>
| MFT Event Notification Commands           | • Create, delete, and list contacts  
|                                           | • Add and remove contacts from event notifications  
|                                           | • Enable and disable event notifications                                    |
| MFT Archive and Restore Commands          | Archive transfer instances or file system data based on criteria such as status and date ranges. |
| MFT Purge Commands                        | Purge transfer instances or file system data based on criteria such as status and date ranges. |

5.2 MFT Artifact Management Commands

Use the MFT WLST Artifact Management commands, listed in Table 5-2, to perform operations on source, transfer, and target artifacts.

Table 5-2  MFT Artifact Management WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>bulkDeployArtifact</td>
<td>Deploys multiple source, transfer, or target artifacts.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteArtifact or delAF</td>
<td>Delete a source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteArtifactDeployment or dep1DepAF</td>
<td>Delete an undeployed source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deployArtifact or depAF</td>
<td>Deploy a source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>disableArtifact or disAF</td>
<td>Disable a deployed source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>enableArtifact or enAF</td>
<td>Enable a deployed source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>exportDeployedArtifact or expDepAF</td>
<td>Export a deployed source, transfer, or target artifact to a ZIP file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>isArtifactInMDS or isAFinMDS</td>
<td>Check whether a source, transfer, or target artifact exists in the MDS (Metadata Store).</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
Table 5-2  (Cont.) MFT Artifact Management WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>undeployArtifact or undepAF</td>
<td>Undeploy a source, transfer, or target artifact.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.2.1 bulkDeployArtifact

Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.1.1 Description
Bulk deploys multiple source, transfer, or target artifacts. In the event of an unsupported operation, the command returns a WLSTException.

5.2.1.2 Syntax

bulkDeployArtifact(artifact_type, artifact_names, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_names</td>
<td>Comma-separated artifact names, or * for all.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the artifacts or the reason for deploying them.</td>
</tr>
</tbody>
</table>

5.2.1.3 Example
The following example deploys two SOURCE artifacts and provides a comment.

bulkDeployArtifact('SOURCE', 'order-file-src,chk-inv-src', 'retrieves new purchase orders, checks inventory')

The following example deploys all TRANSFER artifacts and provides a comment.

bulkDeployArtifact('TRANSFER', '*', 'deploying all transfers')

5.2.2 deleteArtifact

Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.2.1 Description
Deletes a source, transfer, or target artifact. In the event of an unsupported operation, the command returns a WLSTException.

5.2.2.2 Syntax

deleteArtifact(artifact_type, artifact_name)
delAF(artifact_type, artifact_name)

**Argument** | **Definition**
--- | ---
artifact_type | Artifact type: SOURCE, TRANSFER, or TARGET.

artifact_name | Artifact name.

---

### 5.2.2.3 Example

The following example deletes a SOURCE artifact called `order-file-src`.

```java
deleteArtifact('SOURCE', 'order-file-src')
```

### 5.2.3 deleteArtifactDeployment

**Command Category:** MFT Artifact Management Commands  
**Use with WLST:** Online or Offline

#### 5.2.3.1 Description

Deletes an undeployed source, transfer, or target artifact. In the event of an unsupported operation, the command returns a WLSTException.

#### 5.2.3.2 Syntax

```java
deleteArtifactDeployment(artifact_type, artifact_name, label)
```

```java
delDepAF(artifact_type, artifact_name, label)
```

**Argument** | **Definition**
--- | ---
artifact_type | Artifact type: SOURCE, TRANSFER, or TARGET.

artifact_name | Artifact name.

label | Artifact label in the MDS (Metadata Store).  
Use Show Deployment Details on the Deployment tab to view this label.

---

#### 5.2.3.3 Example

The following example deletes a SOURCE artifact called `order-file-src` with the label `soa_mft-2012-12-07 22:24:09.383`.

```java
```

### 5.2.4 deployArtifact

**Command Category:** MFT Artifact Management Commands  
**Use with WLST:** Online or Offline
5.2.4.1 Description
Deploys a source, transfer, or target artifact. In the event of an unsupported operation, the command returns a WLSTException.

5.2.4.2 Syntax
deployArtifact(artifact_type, artifact_name, comment)

depAF(artifact_type, artifact_name, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the artifact or the reason for deploying it.</td>
</tr>
</tbody>
</table>

5.2.4.3 Example
The following example deploys a SOURCE artifact called order-file-src and provides a comment about the artifact.
deployArtifact('SOURCE', 'order-file-src', 'retrieves new purchase orders')

5.2.5 disableArtifact
Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.5.1 Description
Disables a deployed and previously enabled source, transfer, or target artifact. In the event of an unsupported operation, the command returns a WLSTException.

5.2.5.2 Syntax
disableArtifact(artifact_type, artifact_name, comment)
disAF(artifact_type, artifact_name, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the artifact or the reason for disabling it.</td>
</tr>
</tbody>
</table>
5.2.5.3 Example
The following example disables a SOURCE artifact called order-file-src and provides a comment about the reason.

disableArtifact('SOURCE', 'order-file-src', 'order server being upgraded')

5.2.6 enableArtifact
Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.6.1 Description
Enables a deployed and previously disabled source, transfer, or target artifact. In the event of an unsupported operation, the command returns a WLSTException.

5.2.6.2 Syntax
enableArtifact(artifact_type, artifact_name, comment)
enAF(artifact_type, artifact_name, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the artifact or the reason for enabling it.</td>
</tr>
</tbody>
</table>

5.2.6.3 Example
The following example enables a SOURCE artifact called order-file-src and provides a comment about the reason.

enableArtifact('SOURCE', 'order-file-src', 'order server upgrade complete')

5.2.7 exportDeployedArtifact
Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.7.1 Description
Exports a deployed source, transfer, or target artifact to a ZIP file. In the event of an unsupported operation, the command returns a WLSTException.

5.2.7.2 Syntax
exportDeployedArtifact(artifact_type, artifact_name, label, archive_file_path)
expDepAF(artifact_type, artifact_name, label, archive_file_path)
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
<tr>
<td>label</td>
<td>Artifact label in the MDS (Metadata Store). Use Show Deployment Details on</td>
</tr>
<tr>
<td></td>
<td>the Deployment tab to view this label.</td>
</tr>
<tr>
<td>archive_file_path</td>
<td>Full path to the ZIP file to which to export. If you are connecting to</td>
</tr>
<tr>
<td></td>
<td>WLST remotely, the ZIP file is created on the remote server.</td>
</tr>
</tbody>
</table>

### 5.2.7.3 Example

The following example exports a SOURCE artifact called order-file-src with the label soa_mft-2012-12-07 22:24:09.383 to /export/order-file-src.zip.

```python
```

### 5.2.8 isArtifactInMDS

Command Category: MFT Artifact Management Commands

Use with WLST: Online or Offline

#### 5.2.8.1 Description

Checks whether a source, transfer, or target artifact exists in the MDS (Metadata Store) and returns TRUE or FALSE. In the event of an unsupported operation, the command returns a WLSTException.

#### 5.2.8.2 Syntax

```java
isArtifactInMDS(artifact_type, artifact_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
</tbody>
</table>

#### 5.2.8.3 Example

The following example checks whether a SOURCE artifact called order-file-src exists in the MDS.

```java
isArtifactInMDS('SOURCE', 'order-file-src')
```
5.2.9 undeployArtifact

Command Category: MFT Artifact Management Commands
Use with WLST: Online or Offline

5.2.9.1 Description
Undeploys a source, transfer, or target artifact without deleting it from the configuration. In the event of an unsupported operation, the command returns a WLSTException.

5.2.9.2 Syntax
undeployArtifact(artifact_type, artifact_name, comment)
undepAF(artifact_type, artifact_name, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>artifact_type</td>
<td>Artifact type: SOURCE, TRANSFER, or TARGET.</td>
</tr>
<tr>
<td>artifact_name</td>
<td>Artifact name.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the artifact or the reason for undeploying it.</td>
</tr>
</tbody>
</table>

5.2.9.3 Example
The following example undeploys a SOURCE artifact called order-file-src and provides a comment about the reason.
undeployArtifact('SOURCE', 'order-file-src', 'upgrading artifact')

5.3 MFT Metadata Commands
Use the MFT WLST Metadata commands, listed in Table 5-3, to perform metadata operations.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>exportMetadata or expMD</td>
<td>Export the entire MFT configuration, excluding passwords, to a ZIP file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>exportTransferMetadata or expXfrMD</td>
<td>Export a transfer artifact and related metadata to a ZIP file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>importMetadata or impMD</td>
<td>Import a previously exported MFT configuration from a ZIP file.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
Table 5-3  (Cont.) MFT Metadata WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>resetMetadata or resMD</td>
<td>Reset the MFT configuration, deleting all artifacts and resetting all administrative settings to their defaults, while optionally preserving user preferences.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.3.1 exportMftMetadata

Command Category: MFT Metadata Commands
Use with WLST: Online or Offline

5.3.1.1 Description
Exports the entire MFT configuration, excluding passwords, to a ZIP file. In the event of an unsupported operation, the command returns a WLSTException.

5.3.1.2 Syntax
exportMftMetadata(archive_file_path)

Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>archive_file_path</td>
<td>Full path to the ZIP file to which to export.</td>
</tr>
</tbody>
</table>

5.3.1.3 Example
The following example exports the MFT configuration to /export/mft-config-dec-2012.zip.

exportMftMetadata('/export/mft-config-dec-2012.zip')

5.3.2 exportTransferMetadata

Command Category: MFT Metadata Commands
Use with WLST: Online or Offline

5.3.2.1 Description
Exports a transfer artifact and related metadata to a ZIP file. In the event of an unsupported operation, the command returns a WLSTException.

5.3.2.2 Syntax
exportTransferMetadata(archive_file_path, transfer_name)

expXfrMD(archive_file_path, transfer_name)
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>archive_file_path</td>
<td>Full path to the ZIP file to which to export.</td>
</tr>
<tr>
<td>transfer_name</td>
<td>Transfer artifact name.</td>
</tr>
</tbody>
</table>

#### 5.3.2.3 Example

The following example exports a transfer artifact named `order-xfr` and its metadata to `/export/order-xfr.zip`.

`exportTransferMetadata(’/export/order-xfr.zip’, ’order-xfr’)`

#### 5.3.3 importMftMetadata

**Command Category:** MFT Metadata Commands  
**Use with WLST:** Online or Offline

#### 5.3.3.1 Description

Imports a previously exported MFT configuration from a ZIP file. In the event of an unsupported operation, the command returns a `WLSTException`.

#### 5.3.3.2 Syntax

```
importMftMetadata(archive_file_path)
impMD(archive_file_path)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>archive_file_path</td>
<td>Full path to the ZIP file to which to export.</td>
</tr>
</tbody>
</table>

#### 5.3.3.3 Example

The following example imports the MFT configuration from `/export/mft-config-dec-2012.zip`.

`importMftMetadata(’/export/mft-config-dec-2012.zip’)`

#### 5.3.4 resetMetadata

**Command Category:** MFT Metadata Commands  
**Use with WLST:** Online or Offline

#### 5.3.4.1 Description

Resets the MFT configuration, deleting all artifacts and resetting all administrative settings to their defaults, while optionally preserving user preferences. In the event of an unsupported operation, the command returns a `WLSTException`.
5.3.4.2 Syntax

resetMetadata(preserve_preferences)

resMD(preserve_preferences)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>preserve_preferences</td>
<td>If TRUE, preserves user preferences. If FALSE, resets user preferences along with the rest of the configuration.</td>
</tr>
</tbody>
</table>

5.3.4.3 Example

The following example resets the MFT configuration but preserves user preferences.

resetMetadata('TRUE')

5.4 MFT Key Management Commands

Use the MFT WLST Key Management commands, listed in Table 5-4, to manage SSL, SSH, and PGP keys in the MFT keystore. For additional information, see "Keystore Management" in Using Oracle Managed File Transfer.

**Table 5-4  MFT Key Management WLST Commands**

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>deleteCSFKey or delKey</td>
<td>Delete a key alias from the MFT keystore.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>exportCSFKey or expKey</td>
<td>Export keys from the MFT keystore to a key file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>generateKeys or genKeys</td>
<td>Generate keys and save them to one or more key files.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>importCSFKey or impKey</td>
<td>Import a key to the MFT keystore from a key file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>listCSFKeyAliases or lsKeyAliases</td>
<td>List key aliases in the MFT keystore.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>updateCSFKey or updKey</td>
<td>Delete a key alias from the MFT keystore and generate a new key file.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.4.1 deleteCSFKey

Command Category: MFT Key Management Commands
Use with WLST: Online or Offline

5.4.1.1 Description

Deletes a key alias from the MFT keystore. In the event of an unsupported operation, the command returns a WLSTException.

5.4.1.2 Syntax

deleteCSFKey(key_format, key_type, alias)
delKey(key_format, key_type, alias)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>key_type</td>
<td>Key format: PRIVATE or PUBLIC.</td>
</tr>
<tr>
<td>alias</td>
<td>Key alias.</td>
</tr>
</tbody>
</table>

5.4.1.3 Example
The following example deletes a PRIVATE SSH key with the alias my-alias.

delKey('SSH', 'PRIVATE', 'my-alias')

5.4.2 exportCSFKey
Command Category: MFT Key Management Commands
Use with WLST: Online or Offline

5.4.2.1 Description
Exports keys from the MFT keystore to a key file. In the event of an unsupported operation, the command returns a WLSTException.

5.4.2.2 Syntax
exportCSFKey(key_format, key_type, key_file_path)

expKey(key_format, key_type, key_file_path)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>key_type</td>
<td>Key format: PRIVATE or PUBLIC.</td>
</tr>
<tr>
<td>key_file_path</td>
<td>Full path to the key file to which to export.</td>
</tr>
</tbody>
</table>

5.4.2.3 Example
The following example exports PRIVATE SSH keys to the file /export/ssh/my_private_keys.ppk.

exportCSFKey('SSH', 'PRIVATE', '/export/ssh/my_private_keys.ppk')

5.4.3 generateKeys
Command Category: MFT Key Management Commands
Use with WLST: Online or Offline

5.4.3.1 Description
Generates keys and saves them to one or more key files. The key type is RSA and the key size is 1024 bits. In the event of an unsupported operation, the command returns a WLSTException.

5.4.3.2 Syntax

    generateKeys(key_format, password, key_file_path)

    genKeys(key_format, password, key_file_path)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>password</td>
<td>Optional password for the private key.</td>
</tr>
<tr>
<td>key_file_path</td>
<td>Full path to the generated key file or directory.</td>
</tr>
<tr>
<td></td>
<td>For SSH, the path must include the key file name.</td>
</tr>
<tr>
<td></td>
<td>For PGP, two files are generated under the specified path:</td>
</tr>
<tr>
<td></td>
<td>the secret.asc file contains the PGP private key, and the</td>
</tr>
<tr>
<td></td>
<td>pub.asc file contains the PGP public key.</td>
</tr>
</tbody>
</table>

5.4.3.3 Example

The following example exports SSH keys without password protection to the file /export/ssh/ssh-pvt-keys.ppk.

    generateKeys('SSH', '', '/export/ssh/ssh-pvt-keys.ppk')

The following example exports PGP keys with password protection to the directory /export/pgp.

    generateKeys('PGP', 'P@s$W0rd', '/export/pgp')

5.4.4 importCSFKKey

Command Category: MFT Key Management Commands

Use with WLST: Online or Offline

5.4.4.1 Description
Imports a key to the MFT keystore from a key file and creates an alias. In the event of an unsupported operation, the command returns a WLSTException.

5.4.4.2 Syntax

    importCSFKKey(key_format, key_type, alias, key_file_path)

    impKey(key_format, key_type, alias, key_file_path)
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>key_type</td>
<td>Key format: PRIVATE or PUBLIC.</td>
</tr>
<tr>
<td>alias</td>
<td>Key alias.</td>
</tr>
<tr>
<td>key_file_path</td>
<td>Full path to the key file from which to import.</td>
</tr>
</tbody>
</table>

**5.4.4.3 Example**

The following example imports a PRIVATE SSH key with the alias my-alias from the file /export/ssh/my_private_keys.ppk.
importCSFKey(\"SSH\", \"PRIVATE\", \"my-alias\", \'/export/ssh/my_private_keys.ppk\')

The following example imports a PUBLIC PGP key with the alias mftp_gpppub from the file /export/pgp/pub.asc.
importCSFKey(\"PGP\", \"PUBLIC\", \"mftp_gpppub\", \'/export/pgp/pub.asc\')

The following example imports a PRIVATE PGP key with the alias mftp_gpppri from the file /export/pgp/secret.asc.
importCSFKey(\"PGP\", \"PRIVATE\", \"mftp_gpppri\", \'/export/pgp/secret.asc\')

**5.4.5 listCSFKeyAliases**

Command Category: MFT Key Management Commands
Use with WLST: Online or Offline

**5.4.5.1 Description**

Lists key aliases in the MFT keystore. In the event of an unsupported operation, the command returns a WLSTException.

**5.4.5.2 Syntax**

listCSFKeyAliases(key_format, key_type, alias)
lstKeyAliases(key_format, key_type, alias)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>key_type</td>
<td>Key format: PRIVATE or PUBLIC.</td>
</tr>
</tbody>
</table>
5.4.5.3 Example
The following example lists PRIVATE SSH keys.
listCSFKeyAliases('SSH', 'PRIVATE')

5.4.6 updateCSFKey
Command Category: MFT Key Management Commands
Use with WLST: Online or Offline

5.4.6.1 Description
Deletes a key alias from the MFT keystore and generates a new key file. In the event of an unsupported operation, the command returns a WLSTException.

5.4.6.2 Syntax
updateCSFKey(key_format, key_type, alias, key_file_path)
 updKey(key_format, key_type, alias, key_file_path)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>key_format</td>
<td>Key format: SSH or PGP.</td>
</tr>
<tr>
<td>key_type</td>
<td>Key format: PRIVATE or PUBLIC.</td>
</tr>
<tr>
<td>alias</td>
<td>Key alias.</td>
</tr>
<tr>
<td>key_file_path</td>
<td>Full path to the key file to generate.</td>
</tr>
</tbody>
</table>

5.4.6.3 Example
The following example deletes a PRIVATE SSH key with the alias my-alias and generates the key file /export/ssh/my-private-key.ppk.
updateCSFKey('SSH', 'PRIVATE', 'my-alias', '/export/ssh/my-private-key.ppk')

5.5 MFT Deployment History Commands
Use the MFT WLST Deployment History commands, listed in Table 5-5, to view the deployment history of source, transfer, and target artifacts.

Table 5-5  MFT Deployment History WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>getSourceDeploymentHistory or getSrcDH</td>
<td>Return the deployment history of a source artifact.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
### Table 5-5 (Cont.) MFT Deployment History WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>getTargetDeploymentHistory</code> or <code>getTrgtDH</code></td>
<td>Return the deployment history of a target artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>getTransferDeploymentHistory</code> or <code>getXfrDH</code></td>
<td>Return the deployment history of a transfer artifact.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

#### 5.5.1 `getSourceDeploymentHistory`

Command Category: MFT Deployment History Commands  
Use with WLST: Online or Offline

**5.5.1.1 Description**

Returns the deployment history of a source artifact. In the event of an unsupported operation, the command returns a `WLSTException`.

**5.5.1.2 Syntax**

```
getSourceDeploymentHistory(source_name)
getSrcDH(source_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>source_name</code></td>
<td>Source artifact name.</td>
</tr>
</tbody>
</table>

**5.5.1.3 Example**

The following example returns the deployment history of a source artifact named `order-file-src`.

```
ggetSourceDeploymentHistory('order-file-src')
```

#### 5.5.2 `getTargetDeploymentHistory`

Command Category: MFT Deployment History Commands  
Use with WLST: Online or Offline

**5.5.2.1 Description**

Returns the deployment history of a target artifact. In the event of an unsupported operation, the command returns a `WLSTException`.

**5.5.2.2 Syntax**

```
getTargetDeploymentHistory(target_name)
getTrgtDH(target_name)
```
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target_name</td>
<td>Target artifact name.</td>
</tr>
</tbody>
</table>

### 5.5.2.3 Example

The following example returns the deployment history of a target artifact named `order-file-tgt`.

```java
getTargetDeploymentHistory('order-file-tgt')
```

### 5.5.3 getTransferDeploymentHistory

**Command Category:** MFT Deployment History Commands  
**Use with WLST:** Online or Offline

#### 5.5.3.1 Description

Returns the deployment history of a transfer artifact. In the event of an unsupported operation, the command returns a `WLSTException`.

#### 5.5.3.2 Syntax

```java
getTransferDeploymentHistory(transfer_name)
g getXfrDH(transfer_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>transfer_name</td>
<td>Transfer artifact name.</td>
</tr>
</tbody>
</table>

#### 5.5.3.3 Example

The following example returns the deployment history of a transfer artifact named `order-xfr`.

```java
getTransferDeploymentHistory('order-xfr')
```

### 5.6 MFT Transfer Management Commands

Use the MFT WLST Transfer Management commands, listed in Table 5-6, to manage transfer instances.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>getTransferInfo</code> or <code>getXfrInfo</code></td>
<td>Return information about a transfer artifact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>pauseTransfer</code> or <code>pauseXfr</code></td>
<td>Pause an in-progress transfer.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>resubmit</code> or <code>resub</code></td>
<td>Resubmit a failed transfer.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
### 5.6.1 getTransferInfo

Command Category: MFT Transfer Management Commands

Use with WLST: Online or Offline

#### 5.6.1.1 Description

Returns information about a transfer artifact. In the event of an unsupported operation, the command returns a `WLSTException`.

#### 5.6.1.2 Syntax

```
getTransferInfo(transfer_name, label)
getXfrInfo(transfer_name, label)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>transfer_name</code></td>
<td>Transfer artifact name.</td>
</tr>
<tr>
<td><code>label</code></td>
<td>Artifact label in the MDS (Metadata Store). Use <strong>Show Deployment Details</strong> on the Deployment tab to view this label.</td>
</tr>
</tbody>
</table>

#### 5.6.1.3 Example

The following example returns information about a transfer artifact named `order-xfr` with the label `soa_mft-2013-09-26 22:28:17.392`.

```
getTransferInfo('order-xfr', 'soa_mft-2013-09-26 22:28:17.392')
```

<table>
<thead>
<tr>
<th>ID</th>
<th>NAME</th>
<th>LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>xfer_521a6788-4e24-4822-bb03-43a4a8ea8ce</td>
<td>ftp-file-xfer</td>
<td>soa_mft-2013-09-26 16:00:09.803</td>
</tr>
</tbody>
</table>

### 5.6.2 pauseTransfer

Command Category: MFT Transfer Management Commands

Use with WLST: Online or Offline

#### 5.6.2.1 Description

Pauses an in-progress transfer. In the event of an unsupported operation, the command returns a `WLSTException`.

#### 5.6.2.2 Syntax

```
pauseTransfer(instance_id, comment)
```
pauseXfr(instance_id, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>instance_id</td>
<td>Target instance ID for the transfer. Open the Advanced section of the target report to view the instance ID. For information about the target report, see &quot;Interpreting Source, Transfer, and Target Reports&quot; in Using Oracle Managed File Transfer.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the reason for pausing.</td>
</tr>
</tbody>
</table>

5.6.2.3 Example

The following example pauses a transfer with the target instance ID 240C93AD-5401-483B-8182-274FA0705DF1 and provides a reason.

```python
pauseTransfer('240C93AD-5401-483B-8182-274FA0705DF1', 'resume when less network traffic')
```

5.6.3 resubmit

Command Category: MFT Transfer Management Commands

Use with WLST: Online or Offline

5.6.3.1 Description

Resubmits a transfer. You can resubmit a successful or failed transfer. In the event of an unsupported operation, the command returns a WLSTException.

5.6.3.2 Syntax

```python
resubmit(resubmit_type, instance_ids, comment)
resub(resubmit_type, instance_ids, comment)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resubmit_type</td>
<td>Resubmit type: SOURCE, TRANSFER_INSTANCE, TARGET, or TARGET_INSTANCE. For TARGET, the file is delivered without preprocessing. For TARGET_INSTANCE, any preprocessing is called again before delivery.</td>
</tr>
<tr>
<td>instance_ids</td>
<td>Comma-separated instance IDs. Open the Advanced section of the source, transfer, or target report to view the instance ID. For information about these reports, see &quot;Interpreting Source, Transfer, and Target Reports&quot; in Using Oracle Managed File Transfer.</td>
</tr>
<tr>
<td>comment</td>
<td>Text string describing the reason for resubmitting.</td>
</tr>
</tbody>
</table>
5.6.3.3 Example
The following example resubmits a SOURCE with the instance ID 3D48B12B-295A-4F52-A8EE-BD1CC1A20246 and provides a reason.
resubmit('SOURCE', '3D48B12B-295A-4F52-A8EE-BD1CC1A20246', 'trying again')

5.6.4 resumeTransfer
Command Category: MFT Transfer Management Commands
Use with WLST: Online or Offline

5.6.4.1 Description
Resumes a paused transfer. In the event of an unsupported operation, the command returns a WLSTException.

5.6.4.2 Syntax
resumeTransfer(instance_id, comment)
resXfr(instance_id, comment)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
</table>
| instance_id| Target instance ID for the transfer. Open the Advanced section of the target report to view the instance ID. For information about the target report, see "Interpreting Source, Transfer, and Target Reports" in Using Oracle Managed File Transfer.

comment | Text string describing the reason for resuming.

5.6.4.3 Example
The following example resumes a transfer with the target instance ID 240C93AD-5401-483B-8182-274FA0705DF1 and provides a reason.
resumeTransfer('240C93AD-5401-483B-8182-274FA0705DF1', 'less network traffic now')

5.7 MFT Embedded Server Commands
Use the MFT WLST Embedded Server commands, listed in Table 5-7, to manage embedded FTP and sFTP servers.

<table>
<thead>
<tr>
<th>Table 5-7</th>
<th>MFT Embedded Server WLST Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this command...</td>
<td>To...</td>
</tr>
<tr>
<td>ConfigureHomeDir or confHmDir</td>
<td>Assigns a home directory on an embedded server.</td>
</tr>
<tr>
<td>grantPermissionToDirectory or grPermDir</td>
<td>Grant permission to an embedded server directory.</td>
</tr>
</tbody>
</table>
### Table 5-7  (Cont.) MFT Embedded Server WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>listAllPermissions or lsPerms</td>
<td>List all permissions available for a given principal and server type.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>revokePermissionForDirectory or revPermDir</td>
<td>Revoke permissions of an embedded server directory.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>startEmbeddedServer or startES</td>
<td>Start an embedded FTP or sFTP server that was stopped.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>stopEmbeddedServer or stopES</td>
<td>Stop an embedded FTP or sFTP server that is running.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>updatePorts or updPorts</td>
<td>Update the port for an embedded FTP or sFTP server.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

#### 5.7.1 ConfigureHomeDir

Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline

**5.7.1.1 Description**

Assigns the specified directory to the user as home directory where that user is located on login to embedded servers.

**5.7.1.2 Syntax**

```plaintext
configureHomeDir(directory_path, user_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>directory_path</td>
<td>Any valid path starting from the embedded server root.</td>
</tr>
<tr>
<td>user_name</td>
<td>A WebLogic user ID</td>
</tr>
</tbody>
</table>

**5.7.1.3 Example**

The following example assigns directory dir1 as the home directory for a user named "user1".

```plaintext
configureHomeDir("/dir1","user1")
```

#### 5.7.2 grantPermissionToDirectory

Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline

**5.7.2.1 Description**

Grant permission to an embedded server directory. Users and groups can be assigned a set of permissions to an existing directory on an embedded server.
5.7.2.2 Syntax

grantPermissionToDirectory(directory_path, principal_name, principal_type, permissions, server_type, include_subfolder)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>directory_path</td>
<td>Any valid path starting from the embedded server root</td>
</tr>
<tr>
<td>principal_name</td>
<td>An enterprise user, group or application role name.</td>
</tr>
<tr>
<td>principal_type</td>
<td>One of the following:</td>
</tr>
<tr>
<td></td>
<td>• USER</td>
</tr>
<tr>
<td></td>
<td>• GROUP</td>
</tr>
<tr>
<td></td>
<td>• APPLICATION_ROLE</td>
</tr>
<tr>
<td>permissions</td>
<td>Comma separated list of the following permissions:</td>
</tr>
<tr>
<td></td>
<td>• READ</td>
</tr>
<tr>
<td></td>
<td>• WRITE</td>
</tr>
<tr>
<td></td>
<td>• LIST</td>
</tr>
<tr>
<td></td>
<td>• DELETE</td>
</tr>
<tr>
<td>server_type</td>
<td>FTP or SFTP</td>
</tr>
<tr>
<td>include_subfolder</td>
<td>true or false</td>
</tr>
</tbody>
</table>

5.7.2.3 Example

The following example assigns read, write, list and delete permissions to the directory /orders (and sub-directories) for the user "weblogic" on an FTP server:

grantPermissionToDirectory("/orders","weblogic","USER", "READ, WRITE, LIST, DELETE","FTP",true)

5.7.3 listAllPermissions

Command Category: MFT Embedded Server Commands

Use with WLST: Online or Offline

5.7.3.1 Description

List all permissions available for a given principal and server type. The server type can be FTP or SFTP.

5.7.3.2 Syntax

listAllPermissions(principal_name, server_type)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>principal_name</td>
<td>An enterprise user, group or application role name.</td>
</tr>
<tr>
<td>server_type</td>
<td>FTP or SFTP</td>
</tr>
</tbody>
</table>
5.7.3.3 Example

The following example lists all permissions for the principal named "weblogic" on an FTP server.

```
listAllPermissions("weblogic","FTP"
```

5.7.4 revokePermissionForDirectory

Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline

5.7.4.1 Description
Revoke a set of permissions from an embedded server directory.

5.7.4.2 Syntax

```
revokePermissionForDirectory(directory_path, principal_name, principal_type, permissions, server_type, include_subfolder)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>directory_path</td>
<td>Any valid path starting from the embedded server root</td>
</tr>
<tr>
<td>principal_name</td>
<td>An enterprise user, group or application role name.</td>
</tr>
<tr>
<td>principal_type</td>
<td>One of the following:</td>
</tr>
<tr>
<td>permissions</td>
<td>Comma separated list of the following permissions:</td>
</tr>
<tr>
<td></td>
<td>• READ</td>
</tr>
<tr>
<td></td>
<td>• WRITE</td>
</tr>
<tr>
<td></td>
<td>• LIST</td>
</tr>
<tr>
<td></td>
<td>• DELETE</td>
</tr>
<tr>
<td>server_type</td>
<td>FTP or SFTP</td>
</tr>
<tr>
<td>include_subfolder</td>
<td>true or false</td>
</tr>
</tbody>
</table>

5.7.4.3 Example
The following example revokes read, write, list and delete permissions from the directory /orders (and sub-directories) for the user "weblogic" on an FTP server:

```
grantPermissionToDirectory("/orders","weblogic","USER", "READ, WRITE, LIST, DELETE","FTP",true)
```

5.7.5 startEmbeddedServer

Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline
5.7.5.1 Description
Starts an embedded FTP, FTPS (FTP over SSL), or sFTP (SSH-FTP) server that was stopped. In the event of an unsupported operation, the command returns a WLSTException.

5.7.5.2 Syntax

\[ \text{startEmbeddedServer}(\text{server\_type}) \]

\[ \text{startES}(\text{server\_type}) \]

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server_type</td>
<td>Embedded server type: FTP, FTPS, or SFTP.</td>
</tr>
</tbody>
</table>

5.7.5.3 Example
The following example starts the embedded FTP server.

\[ \text{startEmbeddedServer}'('FTP')' \]

5.7.6 stopEmbeddedServer
Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline

5.7.6.1 Description
Stops an embedded FTP, FTPS (FTP over SSL), or sFTP (SSH-FTP) server that is running. In the event of an unsupported operation, the command returns a WLSTException.

5.7.6.2 Syntax

\[ \text{stopEmbeddedServer}(\text{server\_type}) \]

\[ \text{stopES}(\text{server\_type}) \]

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server_type</td>
<td>Embedded server type: FTP, FTPS, or SFTP.</td>
</tr>
</tbody>
</table>

5.7.6.3 Example
The following example stops the embedded FTP server.

\[ \text{stopEmbeddedServer}'('FTP')' \]

5.7.7 updatePorts
Command Category: MFT Embedded Server Commands
Use with WLST: Online or Offline
5.7.7.1 Description
Updates the port for an embedded FTP, FTPS (FTP over SSL), or sFTP (SSH-FTP) server, which is a service of an Oracle WebLogic Server managed server dedicated to MFT. In the event of an unsupported operation, the command returns a WLSTException.

5.7.7.2 Syntax

updatePorts(server_instance, service, port)

updPorts(server_instance, service, port)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server_instance</td>
<td>Name of Oracle WebLogic Server managed server dedicated to MFT.</td>
</tr>
<tr>
<td>service</td>
<td>Service (embedded server type): FTP, FTPS, or SFTP.</td>
</tr>
<tr>
<td>port</td>
<td>Port number.</td>
</tr>
</tbody>
</table>

5.7.7.3 Example

The following example updates the port of the embedded FTP server.

updatePorts('mft_server1', 'FTP', 7021)

5.8 MFT Callout Commands

Use the MFT WLST Callout commands, listed in Table 5-8, to manage custom callouts.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>createCallouts or crtCalls</td>
<td>Create callouts based on an XML file that defines them.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteCallout or delCalls</td>
<td>Delete a callout.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>listCallouts or lsCalls</td>
<td>List callouts.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>updateCallouts or updCalls</td>
<td>Update callouts with the same names based on an XML file that defines them.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.8.1 createCallouts

Command Category: MFT Callout Commands

Use with WLST: Online or Offline
5.8.1.1 Description

Creates callouts based on an XML file that defines them. In the event of an unsupported operation, the command returns a WLSTException.

See Processing Transfers with Custom Callouts in Using Oracle Managed File Transfer for callout instructions and examples.

5.8.1.2 Syntax

createCallouts(def_file_path)
crtCalls(def_file_path)

def_file_path
Full path to the callout definition XML file.

5.8.1.3 Example

The following example creates callouts based on a definition file named /tmp/CalloutDefn.xml.
createCallouts('/tmp/CalloutDefn.xml')

5.8.2 deleteCallout

Command Category: MFT Callout Commands
Use with WLST: Online or Offline

5.8.2.1 Description

Deletes a callout. In the event of an unsupported operation, the command returns a WLSTException.

5.8.2.2 Syntax

deleteCallout(callout_name)
delCalls(callout_name)

callout_name
Callout name.

5.8.2.3 Example

The following example deletes a callout named NotifyTransferComplete.
deleteCallout('NotifyTransferComplete')

5.8.3 listCallouts

Command Category: MFT Callout Commands
Use with WLST: Online or Offline
5.8.3.1 Description
Lists callouts. In the event of an unsupported operation, the command returns a WLSTException.

5.8.3.2 Syntax
listCallouts()
lscalls()

5.8.3.3 Example
The following example lists callouts.
listCallouts()

5.8.4 updateCallouts
Command Category: MFT Callout Commands
Use with WLST: Online or Offline

5.8.4.1 Description
Updates callouts with the same names based on an XML file that defines them. In the event of an unsupported operation, the command returns a WLSTException.

Note:
Parameters of existing callouts cannot be added, deleted, or modified.

5.8.4.2 Syntax
updateCallouts(def_file_path)
updCalls(def_file_path)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>def_file_path</td>
<td>Full path to the callout definition XML file.</td>
</tr>
</tbody>
</table>

5.8.4.3 Example
The following example updates callouts based on a definition file named /tmp/CalloutDefn.xml.
updateCallouts('/tmp/CalloutDefn.xml')

5.9 MFT Event Notification Commands
Use the MFT WLST Event Notification commands, listed in Table 5-9, to manage contact notifications of events.

Table 5-9 MFT Contact WLST Commands
Table 5-9 (Cont.) MFT Contact WLST Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>addContactToNotification or addContNote</td>
<td>Add a contact to a specific event notification.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>createContact or CrtCont</td>
<td>Create a contact for event notifications.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteContact or delCont</td>
<td>Delete a contact.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>listContacts or lsConts</td>
<td>List contacts.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>removeContactFromNotification or remContNote</td>
<td>Remove a contact from a specific event notification.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>updateEvent or updEvt</td>
<td>Enable or disable a specific event notification.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.9.1 addContactToNotification

Command Category: MFT Contact Commands
Use with WLST: Online or Offline

5.9.1.1 Description
Adds a contact to a specific event notification. In the event of an unsupported operation, the command returns a WLSTException.

5.9.1.2 Syntax

addContactToNotification(event, contact_type, value)
addContNote(event, contact_type, value)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>event</td>
<td>Event: RUNTIME_ERROR_EVENT, DELETE_ARTIFACT_EVENT, DEPLOY_ARTIFACT_EVENT, EXPORT_IMPORT_EVENT, PURGE_EVENT, or ARCHIVE_RESTORE_EVENT.</td>
</tr>
<tr>
<td>contact_type</td>
<td>Contact type: EMAIL, PHONE, FAX, or SMS.</td>
</tr>
<tr>
<td>value</td>
<td>Email address or phone number.</td>
</tr>
</tbody>
</table>

5.9.1.3 Example

The following example adds EMAIL contact jane.doe@example.com to RUNTIME_ERROR_EVENT notifications.

addContactToNotification('RUNTIME_ERROR_EVENT', 'EMAIL', 'jane.doe@example.com')
5.9.2 createContact

Command Category: MFT Contact Commands
Use with WLST: Online or Offline

5.9.2.1 Description

Creates a contact for event notifications. In the event of an unsupported operation, the command returns a WLSTException.

See Configuring an Email Driver for Notifications in Using Oracle Managed File Transfer for information on how to configure an email driver. See Configuring an SMS Driver for Notifications in Using Oracle Managed File Transfer for information on how to configure an SMS driver.

Note:
Phone and FAX notifications are not supported in this release of Oracle Managed File Transfer.

5.9.2.2 Syntax

createContact(contact_type, value)
crtCont(contact_type, value)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>contact_type</td>
<td>Contact type: EMAIL, PHONE, FAX, or SMS.</td>
</tr>
<tr>
<td>value</td>
<td>Email address or phone number.</td>
</tr>
</tbody>
</table>

5.9.2.3 Example

The following example creates a contact based on the email address jane.doe@example.com.

createContact('EMAIL', 'jane.doe@example.com')

5.9.3 deleteContact

Command Category: MFT Contact Commands
Use with WLST: Online or Offline

5.9.3.1 Description

Deletes a contact. In the event of an unsupported operation, the command returns a WLSTException.

5.9.3.2 Syntax

deleteContact(contact_type, value)
delCont(contact_type, value)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>contact_type</td>
<td>Contact type: EMAIL, PHONE, FAX, or SMS.</td>
</tr>
<tr>
<td>value</td>
<td>Email address or phone number.</td>
</tr>
</tbody>
</table>

5.9.3.3 Example

The following example deletes a contact based on the email address jane.doe@example.com.

deleContact('EMAIL', 'jane.doe@example.com')

5.9.4 listContacts

Command Category: MFT Contact Commands
Use with WLST: Online or Offline

5.9.4.1 Description

Lists contacts. In the event of an unsupported operation, the command returns a WLSTException.

5.9.4.2 Syntax

listContacts(contact_type)

lsConts(contact_type)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>contact_type</td>
<td>Contact type: EMAIL, PHONE, FAX, or SMS.</td>
</tr>
</tbody>
</table>

5.9.4.3 Example

The following example lists email contacts.

listContacts('EMAIL')

5.9.5 removeContactFromNotification

Command Category: MFT Contact Commands
Use with WLST: Online or Offline

5.9.5.1 Description

Removes a contact from a specific event notification. In the event of an unsupported operation, the command returns a WLSTException.

When you remove the last contact from an event, the event is disabled. However, the reverse is not true. When you add the first contact to an event, it is not enabled automatically. Enable an event using the updateEvent command.
5.9.5.2 Syntax

\text{removeContactFromNotification}(\text{event}, \text{contact\_type}, \text{value})

\text{remContNote}(\text{event}, \text{contact\_type}, \text{value})

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{event}</td>
<td>Event: RUNTIME_ERROR_EVENT, DELETE_ARTIFACT_EVENT, DEPLOY_ARTIFACT_EVENT, or EXPORT_IMPORT_EVENT.</td>
</tr>
<tr>
<td>\text{contact_type}</td>
<td>Contact type: EMAIL, PHONE, FAX, or SMS.</td>
</tr>
<tr>
<td>\text{value}</td>
<td>Email address or phone number.</td>
</tr>
</tbody>
</table>

5.9.5.3 Example

The following example removes EMAIL contact jane.doe@example.com from RUNTIME\_ERROR\_EVENT notifications.

\text{removeContactFromNotification('RUNTIME\_ERROR\_EVENT', 'EMAIL', 'jane.doe@example.com')}

5.9.6 updateEvent

Command Category: MFT Contact Commands

Use with WLST: Online or Offline

5.9.6.1 Description

Enables or disables a specific event notification. Event notifications are disabled by default. In the event of an unsupported operation, the command returns a WLSTException.

5.9.6.2 Syntax

\text{updateEvent}(\text{event}, \text{enabled})

\text{updEvt}(\text{event}, \text{enabled})

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{event}</td>
<td>Event: RUNTIME_ERROR_EVENT, DELETE_ARTIFACT_EVENT, DEPLOY_ARTIFACT_EVENT, or EXPORT_IMPORT_EVENT.</td>
</tr>
<tr>
<td>\text{enabled}</td>
<td>Enabled: TRUE or FALSE.</td>
</tr>
</tbody>
</table>

5.9.6.3 Example

The following example disables DELETE\_ARTIFACT\_EVENT notifications.

\text{updateEvent('DELETE\_ARTIFACT\_EVENT', 'FALSE')}

Oracle Managed File Transfer Custom WLST Commands 5-31
5.10 MFT Archive and Restore Commands

Use the MFT Archive and Restore commands, listed in Table 5-10, to archive and restore runtime instances or file system data based on criteria such as status and date ranges.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td>archiveInstanceData or arcData</td>
<td>Archive runtime instances based on specified criteria.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>restoreInstanceData or resData</td>
<td>Restore previously archived runtime instances.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>archivePayloads or arcPLs</td>
<td>Archive file system data corresponding to runtime instance data based on specified criteria.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>restorePayloadsByName or resPLbyN</td>
<td>Restore previously archived file system data by the zip file name.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>restorePayloadsByPrefix or resPLbyP</td>
<td>Restore previously archived file system data by the zip file name prefix.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.10.1 archiveInstanceData

Command Category: MFT Archive and Restore Commands

Use with WLST: Online or Offline

5.10.1.1 Description

Archives runtime instances based on specified criteria. Optionally archives file system data. In the event of an unsupported operation, the command returns a WLSTException.

Before you can run this command, you must create an MFT archive directory on the database server using the following SQL commands:

CREATE DIRECTORY MFT_DIR AS path;
GRANT READ, WRITE ON DIRECTORY MFT_DIR TO MFT_STB;

For more information about the database and the schema owner (MFT_STB), see Installing and Configuring Managed File Transfer.

5.10.1.2 Syntax

archiveInstanceData(arguments)

arcData(arguments)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>archiveFileName</td>
<td>Name of the runtime instance archive file to be saved to the defined MFT archive directory. The default extension is .dmp. This argument is required.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>startDate</td>
<td>Timestamp in format dd-MM-yyyy H:m:s:S. Default is no date and time specified. Expressions are not supported.</td>
</tr>
<tr>
<td>endDate</td>
<td>Timestamp in format dd-MM-yyyy H:m:s:S. Default is the current date and time. Expressions are not supported.</td>
</tr>
<tr>
<td>batchId</td>
<td>Identifier in the output of a previous archiveInstanceData command. Default input is an empty string. Use to rerun a tested or failed archiveInstanceData from the point of failure or to run archivePayloads.</td>
</tr>
<tr>
<td>status</td>
<td>Status: * for all statuses, C for COMPLETED, F for FAILED, or A for ACTIVE (in progress). Default is C. You can specify multiple comma-separated statuses.</td>
</tr>
<tr>
<td>testMode</td>
<td>Whether what to archive is tested but not archived: TRUE or FALSE. Default is TRUE. Therefore, to actually archive runtime instances, you must explicitly set testMode=FALSE.</td>
</tr>
<tr>
<td>comments</td>
<td>Comment string. Default is an empty string.</td>
</tr>
<tr>
<td>runInSync</td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
<tr>
<td>fsArchiveFolderPath</td>
<td>Path to the folder where the payload archive .zip file is saved. Default is an empty string, which means no payloads are archived. This is independent of the runtime instance archive file and the MFT archive directory.</td>
</tr>
</tbody>
</table>

### 5.10.1.3 Example

The following example runs in test mode (does not archive anything) and in the background (does not block WLST commands while running) for all instances with status COMPLETED, and provides statistics such as how many instances or payloads would be archived.

```java
archiveInstanceData()
```

Here is an example of the output:

```
Total no. of instances to be archived: 105.
Total no. of payloads to be archived: 105.
Nothing has been archived as test mode was TRUE.
To archive these records, run the same command by passing batch id 546781 and test mode as FALSE.
```

The following example runs in test mode and in the background for instances before March 31st, 2013 with status COMPLETED, and provides archive statistics. Note that when the `startDate` argument is omitted, the `endDate` argument must be explicitly labeled.

```java
archiveInstanceData(endDate='31-03-2013 00:00:00:00')
```
The following example archives instances from February 1st, 2013 to March 31st, 2013 with status COMPLETED to the file mft.dmp, and provides archive statistics. Note that when the startDate and endDate arguments are both included, labels may be omitted.

archiveInstanceData(archiveFileName='mft.dmp', startDate='01-02-2013 00:00:00:00', endDate='31-03-2013 00:00:00:00', testMode='FALSE')

The following example archives instances from February 1st, 2013 to March 31st, 2013 with status ACTIVE or FAILED to the file mft.dmp, and provides archive statistics. Because runInSync='TRUE' is specified, the archive occurs immediately and blocks further WLST commands until completion. Because runFSArchive='TRUE' is specified, file system data is also archived.

archiveInstanceData(archiveFileName='mft.dmp', startDate='01-02-2013 00:00:00:00', endDate='31-03-2013 00:00:00:00', testMode='FALSE', status='A,F', runInSync='TRUE', fsArchiveFolderPath='2013-01-02-MftArchive')

The following example runs a previously tested or failed archive with batch ID 546781 from the point of failure.

archiveInstanceData(archiveFileName='mft2.dmp', batchId='546781', testMode='FALSE')

5.10.2 restoreInstanceData

Command Category: MFT Archive and Restore Commands
Use with WLST: Online or Offline

5.10.2.1 Description
Restores previously archived runtime instances. In the event of an unsupported operation, the command returns a WLSTException.

5.10.2.2 Syntax
restoreInstanceData(arguments)

resData(arguments)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>archiveFilePath</td>
<td>Name of the archive file in the MFT archive directory to be restored. For details about how this directory is defined, see archiveInstanceData. The default extension is .dmp. This argument is required.</td>
</tr>
<tr>
<td>fileNamePrefix</td>
<td>String to identify the file name prefix of the corresponding payload archive files, usually the batch ID. You must have run archivePayloads with the archiveInstanceData batch ID first. No default.</td>
</tr>
<tr>
<td>fsFolderPath</td>
<td>String to identify the path to the directory where the corresponding payload archive files are stored. No default.</td>
</tr>
<tr>
<td>runInSync</td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
</tbody>
</table>
5.10.2.3 Example

The following example restores runtime instance data previously archived by an `archiveInstanceData` command. The corresponding payload archive is restored from `/tmp/mft/546781.zip`. This command runs in the background.

```java
restoreInstanceData(archiveFilePath="mft_runtime_archive.dmp",
fileNamePrefix="546781", fsFolderPath="/tmp/mft")
```

5.10.3 archivePayloads

Command Category: MFT Archive and Restore Commands
Use with WLST: Online or Offline

5.10.3.1 Description

Archives file system data corresponding to runtime instance data based on specified criteria. In the event of an unsupported operation, the command returns a WLSTException.

5.10.3.2 Syntax

```java
archivePayloads(arguments)
```

```java
arcPLs(arguments)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>batchId</code></td>
<td>String to identify the archive criteria. No default: obtain a <code>batchId</code> by running <code>archiveInstanceData</code> first. This argument is required.</td>
</tr>
<tr>
<td><code>archivePath</code></td>
<td>Path to the directory to which the <code>batchId.zip</code> archive is saved. This directory must exist. A very large archive may be saved in multiple files named <code>batchId_n.zip</code>. This argument is required.</td>
</tr>
<tr>
<td><code>runInSync</code></td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
</tbody>
</table>

5.10.3.3 MBean Properties

For details about how to set MBean properties using Enterprise Manager, see Setting System MBean Properties for MFT WLST Commands.

<table>
<thead>
<tr>
<th>Property</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FS_ARCHIVE_MAX_SIZE</code></td>
<td>String to set a size limit in MB for archive zip files. The default value is zero, which sets no limit.</td>
</tr>
<tr>
<td><code>FS_ARCHIVE_MAX_FILES_PER_ZIP</code></td>
<td>String to set a limit on the number of files an archive zip file can contain. The default value is zero, which sets no limit.</td>
</tr>
</tbody>
</table>
5.10.3.4 Example

The following example archives file system data corresponding to the runtime instance data previously archived by an `archiveInstanceData` command with the batch ID 546781. The archive is saved to `/tmp/mft/546781.zip` and runs immediately.

```
archivePayloads(batchId='546781',archivePath='/tmp/mft',runInSync='TRUE')
```

5.10.4 restorePayloadsByName

Command Category: MFT Archive and Restore Commands

Use with WLST: Online or Offline

5.10.4.1 Description

Restores previously archived file system data. In the event of an unsupported operation, the command returns a `WLSTException`.

5.10.4.2 Syntax

`restorePayloadsByName(arguments)`

```
resPLbyN(arguments)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>fileNames</code></td>
<td>String to identify the names of the .zip files to restore. No default. This argument is required. If the .zip file names have been changed to something other than the batch IDs, you must specify the new file names instead of the batch IDs for this argument. For an archive that consists of multiple <code>batchId_n.zip</code> or <code>prefix_n.zip</code> files, you can use the <code>restorePayloadsByPrefix</code> command instead.</td>
</tr>
<tr>
<td><code>folderPath</code></td>
<td>Path to the directory in which the .zip archives were saved. This argument is required.</td>
</tr>
<tr>
<td><code>runInSync</code></td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
</tbody>
</table>

5.10.4.3 MBean Properties

For details about how to set MBean properties using Enterprise Manager, see Setting System MBean Properties for MFT WLST Commands.

<table>
<thead>
<tr>
<th>Property</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FS_RESTORE_OVERWRITE_EXISTING</code></td>
<td>String to determine whether a restore overwrites files having the same name. The default value is TRUE.</td>
</tr>
</tbody>
</table>
5.10.4.4 Example

The following example restores file system data corresponding to the runtime instance data previously archived by an `archivePayloads` command with the batch ID 546781. The archive is restored from `/tmp/mft/546781.zip` and runs immediately.

```java
restorePayloadsByName(fileNames='546781',folderPath='/tmp/mft',runInSync='TRUE')
```

5.10.5 `restorePayloadsByPrefix`

Command Category: MFT Archive and Restore Commands

Use with WLST: Online or Offline

5.10.5.1 Description

Restores previously archived file system data. In the event of an unsupported operation, the command returns a `WLSTException`.

5.10.5.2 Syntax

```java
restorePayloadsByPrefix(arguments)
```

```java
resPlbyP(arguments)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>fileNamePrefix</code></td>
<td>String to identify the <code>.zip</code> files to restore, usually the batch ID. No default: obtain a <code>batchId</code> by running <code>archivePayloads</code> first. This argument is required. If the <code>.zip</code> file names have been changed to something other than the batch ID, you must specify the new file name instead of the batch ID for this argument. If you rename one <code>prefix_n.zip</code> file you must rename all, without changing the <code>_n</code> portion, or this command will not restore the entire archive.</td>
</tr>
<tr>
<td><code>folderPath</code></td>
<td>Path to the directory in which the <code>.zip</code> archives were saved. This argument is required.</td>
</tr>
<tr>
<td><code>runInSync</code></td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
</tbody>
</table>

5.10.5.3 MBean Properties

For details about how to set MBean properties using Enterprise Manager, see Setting System MBean Properties for MFT WLST Commands.

<table>
<thead>
<tr>
<th>Property</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FS_RESTORE_OVERWRITE_EXISTING</code></td>
<td>String to determine whether a restore overwrites files having the same name. The default value is TRUE.</td>
</tr>
</tbody>
</table>
5.10.5.4 Example

The following example restores file system data corresponding to the runtime instance data previously archived by an `archivePayloads` command with the batch ID 546781. The archive is restored from `/tmp/mft/546781.zip` and runs immediately.

```python
restorePayloadsByPrefix(fileNamePrefix='©546781©', folderPath='©/tmp/mft©', runInSync='TRUE')
```

5.11 MFT Purge Commands

Use the MFT Purge commands, listed in Table 5-11, to purge runtime instances or file system data based on criteria such as status and date ranges.

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>purgeInstanceData</code> or <code>prgData</code></td>
<td>Purge runtime instances based on specified criteria. Optionally purges file system data.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>purgePayloads</code> or <code>prgPLs</code></td>
<td>Purge file system data corresponding to runtime instance data based on specified criteria.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

5.11.1 purgeInstanceData

Command Category: MFT Purge Commands

Use with WLST: Online or Offline

5.11.1.1 Description

Purges runtime instances based on specified criteria. Optionally purges file system data. In the event of an unsupported operation, the command returns a `WLSTException`.

5.11.1.2 Syntax

```python
purgeInstanceData(optional_arguments)
```

```python
prgData(optional_arguments)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>startDate</code></td>
<td>Timestamp in format <code>dd-MM-yyyy H:m:s:S</code>. Default is no date and time specified. Expressions are not supported.</td>
</tr>
<tr>
<td><code>endDate</code></td>
<td>Timestamp in format <code>dd-MM-yyyy H:m:s:S</code>. Default is the current date and time. Expressions are not supported.</td>
</tr>
<tr>
<td><code>batchId</code></td>
<td>Identifier in the output of a previous <code>purgeInstanceData</code> command. Default input is an empty string. Use to rerun a tested or failed <code>purgeInstanceData</code> from the point of failure or to run <code>purgePayloads</code>.</td>
</tr>
</tbody>
</table>
### Argument Definitions

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>status</strong></td>
<td>Status: * for all statuses, C for COMPLETED, F for FAILED, or A for ACTIVE (in progress). Default is C. You can specify multiple comma-separated statuses.</td>
</tr>
<tr>
<td><strong>testMode</strong></td>
<td>Whether what to purge is tested but not purged: TRUE or FALSE. Default is TRUE. Therefore, to actually purge runtime instances, you must explicitly set testMode=FALSE.</td>
</tr>
<tr>
<td><strong>comments</strong></td>
<td>Comment string. Default is an empty string.</td>
</tr>
<tr>
<td><strong>runInSync</strong></td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
<tr>
<td><strong>runPayloadPurge</strong></td>
<td>Whether to also purge file system data corresponding to runtime instance data: TRUE or FALSE. Default is FALSE. To purge file system data separately, use purgePayloads.</td>
</tr>
</tbody>
</table>

### 5.11.1.3 Example

The following example runs in test mode (does not purge anything) and in the background (does not block WLST commands while running) for all instances with status COMPLETED, and provides statistics such as how many instances or payloads would be purged.

```wlst
purgeInstanceData()
```

Here is an example of the output:

```
Total no. of purgeable instances: 105.
Total no. of purgeable payloads: 105.
Nothing has been purged as test_mode was TRUE.
To purge these records, run the same command by passing batchId 546781 and test mode as FALSE.
```

The following example runs in test mode and in the background for instances before March 31st, 2013 with status COMPLETED, and provides purge statistics. Note that when the `startDate` argument is omitted, the `endDate` argument must be explicitly labeled.

```wlst
purgeInstanceData(endDate='31-03-2013 00:00:00:00')
```

The following example purges instances from February 1st, 2013 to March 31st, 2013 with status COMPLETED, and provides purge statistics. Note that when the `startDate` and `endDate` arguments are both included, labels may be omitted.

```wlst
purgeInstanceData('01-02-2013 00:00:00:00', '31-03-2013 00:00:00:00', testMode='FALSE')
```

The following example purges instances from February 1st, 2013 to March 31st, 2013 with status ACTIVE or FAILED, and provides purge statistics. Because `runInSync='TRUE'` is specified, the purge occurs immediately and blocks further WLST commands until completion. Because `runPayloadPurge='TRUE'` is specified, file system data is also purged.
purgeInstanceData('01-02-2013 00:00:00:00', '31-03-2013 00:00:00:00', testMode='FALSE', status='A,F', runInSync='TRUE', runPayloadPurge='TRUE')

The following example runs a previously tested or failed purge with batch ID 546781 from the point of failure.

purgeInstanceData(batchId='546781', testMode='FALSE')

5.11.2 purgePayloads

Command Category: MFT Purge Commands

Use with WLST: Online or Offline

5.11.2.1 Description

Purges file system data corresponding to runtime instance data based on specified criteria. In the event of an unsupported operation, the command returns a WLSTException.

5.11.2.2 Syntax

purgePayloads(arguments)

Arguments (arguments)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>batchId</td>
<td>String to identify the purge criteria. No default: obtain a batchId by running purgeInstanceData first.</td>
</tr>
<tr>
<td>detailedAudit</td>
<td>Whether each purged file is audited: TRUE or FALSE. Default is TRUE.</td>
</tr>
<tr>
<td>runInSync</td>
<td>Whether to run immediately, synchronously, and return (TRUE), or run in the background, asynchronously, allowing execution of other WLST commands (FALSE). Default is FALSE.</td>
</tr>
</tbody>
</table>

5.11.2.3 MBean Properties

For details about how to set MBean properties using Enterprise Manager, see Setting System MBean Properties for MFT WLST Commands.

<table>
<thead>
<tr>
<th>Property</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS_PURGE_BATCH_SIZE</td>
<td>String to determine the batch size for reading payload paths. The purgePayloads command reads the payload paths from the database in batches to avoid running out of memory. The default value is 5000.</td>
</tr>
<tr>
<td>FS_PURGE_TEMP_TABLES_LIFE</td>
<td>String to determine the minimum age in days of temporary tables that are deleted after a payload purge. The default value is 30.</td>
</tr>
<tr>
<td>FS_PURGE_THREAD_COUNT</td>
<td>String to determine how many threads per node are used for performing the payload purge. The default value is 1.</td>
</tr>
</tbody>
</table>
5.11.2.4 Example

The following example purges file system data corresponding to the runtime instance data previously purged by a `purgeInstanceData` command with the batch ID `546781`. Detailed audits of purged files are performed, and the purge runs in the background.

```
purgePayloads(batchId='546781')
```

The following example purges file system data corresponding to the runtime instance data previously purged by a `purgeInstanceData` command with the batch ID `546781`. Detailed audits of purged files are not performed, and the purge runs in the background.

```
purgePayloads(batchId='546781', detailedAudit='FALSE')
```

The following example purges file system data corresponding to the runtime instance data previously purged by a `purgeInstanceData` command with the batch ID `546781`. Detailed audits of purged files are performed, and the purge occurs immediately.

```
purgePayloads(batchId='546781', detailedAudit='TRUE', runInSync='TRUE')
```

5.12 Setting System MBean Properties for MFT WLST Commands

Some MFT WLST commands have associated properties you can set to refine the operations they perform.

The steps for this process are:

1. Log in to the Oracle Enterprise Manager console.
2. In the Target Navigation pane, expand the Weblogic Domain node.
3. Select the domain on which the Oracle WebLogic Server managed server dedicated to Oracle Managed File Transfer is installed.
   For example, the domain might be `soainfra` or `base_domain`.
4. Right-click on the domain and select **System MBean Browser**.
5. Click the Find icon.
6. Type `MFTConfig` in the **MBean Name** text box. Press Enter.
7. Click the **Operations** tab.
8. Click **addProperty**.
   The Operation: addProperty page appears.
9. Type the property name in the **key** text box. Type the property value in the **value** text box. Typing a **comment** is optional. Click **Invoke**.
10. To verify that the property has been added:
    a. Click **Return**.
    b. Click the **Attributes** tab.
c. Click **Properties**.

The Attribute: Properties page appears. The property you added should be listed.