

Deployit OSB Plugin Manual

Version 3.8.0

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Preface

This document describes the functionality provided by the Oracle Service Bus (OSB) plugin.

See the **Deployit Reference Manual** for background information on Deployit and deployment concepts.

Overview

The OSB plugin is a Deployit plugin that adds capability for importing and deleting OSB projects.

Features

- OSB Configuration (import and delete)
- OSB Customization files (during import) with placeholders replacement

Requirements

- **Deployit requirements**
 - **Deployit:** version 3.6+
 - **WLS versions:** from ALSB 3.0 to OSB 11gR5
 - **Other Deployit Plugins:** WebLogic plugin version 3.6+
- **Infrastructural requirements**
 - **WebLogic Domain user credentials**
 - **User credentials** for accessing the Host managing the WebLogic Administration Server.
 - **User credentials** for accessing target Hosts of managed Servers (for NoStage mode)

Usage in Deployment Packages

The plugin works with the standard deployment package of DAR format. Please see the *Packaging Manual* for more details about the DAR format and the ways to compose one.

The following is a sample MANIFEST.MF file that can be used to create an OSB specific deployment package. It contains declarations for an `osb.Configuration` that contains two projects: project1 and project2

```
Manifest-Version: 1.0
Deployit-Package-Format-Version: 1.3
CI-Application: MyFrontEndServices
CI-Version: 2.0

Name: osbConfiguration
CI-Type: osb.Configuration
CI-projectNames-EntryValue-1: project1
CI-projectNames-EntryValue-1: project2
```

`osb.Configuration` is a folder that contains one jar file containing the projects and one or more customization files in xml.

Using the deployables and deployed

The following table describes which deployable/container combinations are possible.

Deployable vs. Container table

Deployable	Container	Generated deployed
osb.Configuration	osb.Domain wls.Server	osb.DeployedConfiguration

The following table describes the effect a deployed has on it's container

Deployed Actions Table

Deployed	Actions performed for operations		
	Create	Destroy	Modify
<code>osb.Configuration</code>	Import the projects in the OSB Domain	<ul style="list-style-type: none"> Delete the projects from the OSB Domain Import the projects in the OSB Domain 	

CI Reference

Configuration Item Overview

Deployables

CI	Description
<code>osb.Configuration</code>	OSB project configuration

Deployeds

CI	Description
<code>osb.DeployedConfiguration</code>	Deployed OSB Configuration
<code>osb.ExtensibleDeployedArtifact</code>	Description unavailable

Containers

CI	Description
<code>osb.Domain</code>	OSB domain on the WebLogic server

Other Configuration Items

CI	Description
<code>osb.Configuration</code>	OSB project configuration
<code>osb.DeployedConfiguration</code>	Deployed OSB Configuration
<code>osb.Domain</code>	OSB domain on the WebLogic server
<code>osb.ExtensibleDeployedArtifact</code>	Description unavailable

Configuration Item Details

`osb.Configuration`

Type Hierarchy generic.Folder >> udm.BaseDeployableFolderArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FolderArtifact

OSB project configuration

Public Properties	
* projectNames : SET_OF_STRING	List of projects
excludeFileNamesRegex : STRING	Regular expression that matches file names that must be excluded from scanning
placeholders : SET_OF_STRING	Placeholders detected in this artifact
scanPlaceholders : BOOLEAN = true	Whether to scan this artifact for placeholders when it is imported
tags : SET_OF_STRING	If set, this deployable will only be mapped automatically to containers with the same tag.
Hidden Properties	
* textFileNamesRegex : STRING = .+\. (cfg conf config ini properties props txt asp aspx htm html jsf jsp xht xhtml sql xml xsd xsl xslt)	Regular expression that matches file names of text files

`osb.DeployedConfiguration`

Type Hierarchy `osb.ExtensibleDeployedArtifact` >> `wls.ExtensibleDeployedArtifact` >> `python.PythonManagedDeployed` >> `udm.BaseDeployed` >> `udm.BaseConfigurationItem`

Interfaces `udm.Artifact`, `udm.Deployed`, `udm.ConfigurationItem`, `udm.DerivedArtifact`

Deployed OSB Configuration

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
* deploymentOrder : <code>INTEGER</code> = 100	By default, new applications and modules are configured with a Deployment Order value of 100
* projectNames : <code>SET_OF_STRING</code>	List of projects
* redeploymentStrategy : <code>ENUM [CLASSIC, STOP_START, SIDE_BY_SIDE]</code> = <code>CLASSIC</code>	Indicates what redeployment strategy to use for upgrading the application
block : <code>BOOLEAN</code> = <code>true</code>	boolean value specifying whether the deployment should block user interaction until the command complete
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
passphrase : <code>STRING</code> =	PassPhrase OSB JarFile
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
retireTimeout : <code>INTEGER</code> = -1	Timeout interval (in secs) before the previous application version is undeployed for side by side redeployment strategy
stageMode : <code>ENUM [Stage, NoStage]</code> = <code>Stage</code>	Indicates whether the artifact will be deployed as staged or nostage mode
stagingDirectory : <code>STRING</code>	Absolute directory path where the artifact will be uploaded and used by the servers for nostage deployment mode
versionIdentifier : <code>STRING</code>	Version Identifier
versioned : <code>BOOLEAN</code>	Indicates whether this artifact is to be deployed as a versioned application

Hidden Properties	
* configurationExtension : STRING = jar	Configuration Extension
* createOrder : INTEGER = 60	Create Order
* createScript : STRING = osb/configuration/import.py	Python script invoked to import this OSB configuration
* createVerb : STRING = Import	Create Verb
* customizationFileExtension : STRING = xml	Customization File Extension
* destroyOrder : INTEGER = 40	Destroy Order
* destroyScript : STRING = osb/configuration/delete.py	Python script invoked to delete this OSB configuration
* destroyVerb : STRING = Delete	Destroy Verb
* discoverOrder : INTEGER = 50	The order in which a discover step will be executed.
* isRunningRetryWaitInterval : INTEGER = 500	Time in milliseconds to wait before next retry to check if the deployment is still running
* modifyOrder : INTEGER = 60	Modify Order
* modifyScript : STRING = osb/configuration/import.py	Python script invoked to modify this OSB configuration
* modifyVerb : STRING = Upgrade	Modify Verb
* standardPropertiesNotToExpose : STRING = id, name, type, deployable, properties, container, createScript, createVerb, createOrder, modifyScript, modifyVerb, modifyOrder, destroyScript, destroyVerb, destroyOrder, startScript, startVerb, startOrder, stopScript, stopVerb, stopOrder, deploymentStrategy, placeholders, file, redeploymentStrategy, securityPermissions, inheritPermissions, exposeDeployedApplication, stopRetiredApplicationOrder, undeployRetiredApplicationOrder, isRunningRetryWaitInterval, wlstPath	Standard Properties Not To Expose
* startOrder : INTEGER = 90	Start Order
* startScript : STRING = wls/application/start-application.py	Start Script
* startVerb : STRING = Start	Start Verb
* stopOrder : INTEGER = 10	Stop Order
* stopRetiredApplicationOrder : INTEGER = 95	Stop Retired Application Order
* stopScript : STRING = wls/application/stop-application.py	Stop Script
* stopVerb : STRING = Stop	Stop Verb
* undeployRetiredApplicationOrder : INTEGER = 98	Undeploy Retired Application Order
* wlstPath : STRING = AppDeployments	Wlst Path
exposeDeployedApplication : BOOLEAN = false	flag to indicate whether the deployed application CI is to be injected to the python script execution context.
libraryScripts : LIST_OF_STRING	List of scripts to appended to the the deployments runtime script

osb.Domain

Type Hierarchy wls.Domain >> udm.BaseContainer >> udm.BaseConfigurationItem
Interfaces udm.Taggable, python.PythonManagingContainer, wls.WlsContainer, python.PythonManagedContainer, udm.ConfigurationItem, udm.Container, overthere.HostContainer

OSB domain on the WebLogic server

Children		
* clusters : SET_OF_CI<wls.Cluster>	WebLogic clusters belonging to domain	
Public Properties		
* adminServerName : STRING = AdminServer	The name of the admin server	
🔑 * host : CI<overthere.Host>	The host that runs the admin server	
* osbHome : STRING	OSB Home directory	
🔑 * password : STRING	Password which is used to login to the WebLogic Domain.	
🔑 * port : INTEGER = 7001	Port to be used by the AdminServer for this domain	
🔑 * protocol : ENUM [t3, t3s] = t3	Protocol to be used by the AdminServer for this domain	
* startMode : ENUM [NodeManager, Script, WindowsService] = NodeManager	Tells how a managed server is start and stop, default is NodeManager, others are Script or Windows Service	
🔑 * username : STRING	Username which is used to login to the WebLogic Domain.	
* version : ENUM [WEBLOGIC_10, WEBLOGIC_11] = WEBLOGIC_10	Version of Oracle WebLogic Server	
🔑 * wlHome : STRING	The location of the WebLogic Server installation	
domainHome : STRING		
The location of the WebLogic domain. Defaults to ../user_projects/domains/ (Unix) or ..\user_projects\domains\ (Windows)		
tags : SET_OF_STRING		
If set, only deployables with the same tag will be automatically mapped to this container.		
🔑 wlstPath : STRING	Location of the wlst binary. Defaults to /common/bin/wlst.sh (Unix) or \common\bin\wlst.cmd (Windows)	
Hidden Properties		
* configfwkLibs : SET_OF_STRING	= [../modules/com.bea.common.configfwk_1.1.0.0.jar, ../modules/com.bea.common.configfwk_1.2.0.0.jar, ../modules/com.bea.common.configfwk_1.2.1.0.jar, ../modules/com.bea.common.configfwk_1.3.0.0.jar, ../modules/com.bea.common.configfwk_1.4.0.0.jar, modules/com.bea.common.configfwk_1.5.0.0.jar, modules/com.bea.common.configfwk_1.6.0.0.jar] All possible locations of the configfwk library relative to the OSB Home	
* pythonRuntimePath : STRING = osb/runtime		
Python Runtime Path		
* sbKernelLibs : SET_OF_STRING = [sb-kernel-api.jar, sb-kernel-impl.jar, sb-kernel-wls.jar]		
All possibly needed service bus kernel libraries relative to the OSB home		
* wlstTemplatePath : STRING = osb	Path containing the wlst templates: wlst.sh.ftl (Unix) and wlst.cmd.ftl (Windows)	
runWithDaemon : BOOLEAN = true		
Set to true to execute commands with the Python daemon		

osb.ExtensibleDeployedArtifact

Virtual Type

Type Hierarchy wls.ExtensibleDeployedArtifact >> python.PythonManagedDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem

Interfaces udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Description unavailable

Parent

* **container** : [CI<udm.Container>](#)
The container on which this deployed runs.

Hidden Properties	
* createOrder : INTEGER = 70	Create Order
* createScript : STRING = wls/application/deploy-application.py	Create Script
* createVerb : STRING = Deploy	Create Verb
* destroyOrder : INTEGER = 30	Destroy Order
* destroyScript : STRING = wls/application/undeploy-application.py	Destroy Script
* destroyVerb : STRING = Undeploy	Destroy Verb
* discoverOrder : INTEGER = 50	The order in which a discover step will be executed.
* isRunningRetryWaitInterval : INTEGER = 500	Time in milliseconds to wait before next retry to check if the deployment is still running
* modifyOrder : INTEGER = 60	Modify Order
* modifyVerb : STRING = Upgrade	Modify Verb
* standardPropertiesNotToExpose : STRING = id, name, type, deployable, properties, container, createScript, createVerb, createOrder, modifyScript, modifyVerb, modifyOrder, destroyScript, destroyVerb, destroyOrder, startScript, startVerb, startOrder, stopScript, stopVerb, stopOrder, deploymentStrategy, placeholders, file, redeploymentStrategy, securityPermissions, inheritPermissions, exposeDeployedApplication, stopRetiredApplicationOrder, undeployRetiredApplicationOrder, isRunningRetryWaitInterval, wlstPath	Standard Properties Not To Expose
* startOrder : INTEGER = 90	Start Order
* startScript : STRING = wls/application/start-application.py	Start Script
* startVerb : STRING = Start	Start Verb
* stopOrder : INTEGER = 10	Stop Order
* stopRetiredApplicationOrder : INTEGER = 95	Stop Retired Application Order
* stopScript : STRING = wls/application/stop-application.py	Stop Script
* stopVerb : STRING = Stop	Stop Verb
* undeployRetiredApplicationOrder : INTEGER = 98	Undeploy Retired Application Order
* wlstPath : STRING = AppDeployments	Wlst Path
exposeDeployedApplication : BOOLEAN = false	flag to indicate whether the deployed application CI is to be injected to the python script execution context.
libraryScripts : LIST_OF_STRING	List of scripts to appended to the the deployed runtime script
modifyScript : STRING	Python script invoked to upgrade this Java EE artifact