

Deployit OSB Plugin Manual

Version 3.9.1

Table of Contents

Table of Contents	2
Preface	3
Overview	3
Features	3
Requirements	3
Usage in Deployment Packages	3
Using the deployables and deployed	3
Deployable vs. Container table	3
Deployed Actions Table	3
CI Reference	4
Configuration Item Overview	4
Deployables	4
Deployeds	4
Containers	4
Other Configuration Items	4
Configuration Item Details	4
osb.Configuration	4
osb.DeployedConfiguration	5
osb.Domain	7
osb.ExtensibleDeployedArtifact	8

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
osb.Configuration	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
osb.Configuration	OSB project configuration

Deployeds

CI	Description
osb.DeployedConfiguration	Deployed OSB Configuration
osb.ExtensibleDeployedArtifact	Description unavailable

Containers

CI	Description
osb.Domain	OSB domain on the WebLogic server

Other Configuration Items

CI	Description
osb.Configuration	OSB project configuration
osb.DeployedConfiguration	Deployed OSB Configuration
osb.Domain	OSB domain on the WebLogic server
osb.ExtensibleDeployedArtifact	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
checksum : STRING	The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
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

delimiters : **STRING** = `{{ }}`

The delimiters used indicate placeholders, defaults to `'{{ }}`. This is a 5 character string with a space in the middle, the first two are the leading delimiter, the last two are the closing delimiter

osb.DeployedConfiguration

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

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

Deployed OSB Configuration

Parent

* **container** : `CI<udm.Container>`

The container on which this deployed runs.

Public Properties

* **deploymentOrder** : **INTEGER** = 100

By default, new applications and modules are configured with a Deployment Order value of 100

* **projectNames** : **SET_OF_STRING**

List of projects

* **redeploymentStrategy** : **ENUM** [`CLASSIC`, `STOP_START`, `SIDE_BY_SIDE`] = `CLASSIC`

Indicates what redeployment strategy to use for upgrading the application

automaticVersioning : **BOOLEAN** = `true`

If set, the 'versionIdentifier' property is managed by the plugin. Any value explicitly set for 'versionIdentifier' is ignored

block : **BOOLEAN** = `true`

boolean value specifying whether the deployment should block user interaction until the command complete

deployable : `CI<udm.Deployable>`

The deployable that this deployed is derived from.

passphrase : **STRING** =

PassPhrase OSB JarFile

placeholders : **MAP_STRING_STRING**

A Map containing all the placeholders mapped to their values. Special values are `<ignore>` or `<empty>`

retireTimeout : **INTEGER** = -1

Timeout interval (in secs) before the previous application version is undeployed for side by side redeployment strategy

stageMode : **ENUM** [`Stage`, `NoStage`] = `Stage`

Indicates whether the artifact will be deployed as staged or nostage mode

stagingDirectory : **STRING**

Absolute directory path where the artifact will be uploaded and used by the servers for nostage deployment mode

versionIdentifier : **STRING**

Version Identifier

versioned : **BOOLEAN**

Indicates wither 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, libraryScripts, discoverOrder, deploymentOrder, isStartOrStopOperationRequired, automaticVersioning	Standard Properties Not To Expose
* startOrder : INTEGER = 90	Start Order
* startScript : STRING = wls/application/start-application.py	Python script invoked to start this Java EE artifact
* startVerb : STRING = Start	Start Verb
* stopOrder : INTEGER = 10	Stop Order
* stopRetiredApplicationOrder : INTEGER = 95	Stop Retired Application Order
* stopScript : STRING = wls/application/stop-application.py	Python script invoked to stop this Java EE artifact
* 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.
isStartOrStopOperationRequired : BOOLEAN = true	Is Start Or Stop Operation Required
libraryScripts : LIST_OF_STRING	List of scripts to appended to the the deployed 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
* servers : SET_OF_CI<wls.Server> WebLogic servers belonging to domain

Hidden Properties	
* configfwkLibs : LIST_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
* deployedToDiscover : SET_OF_STRING = [wls.FilePersistentStore]	Deployeds To Discover
* destroyJmsModuleOrder : INTEGER = 100	Order used to trigger the clean of the JMS Modules of the domain
* pythonRuntimePath : STRING = osb/runtime	Python Runtime Path
* sbKernelLibs : LIST_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
* startOrder : INTEGER = 80	Start Order
* stopOrder : INTEGER = 20	Stop Order
* 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.EmbeddedDeployedContainer, udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Description unavailable

Parent	
* container : CI <udm.Container>	The container on which this deployed runs.

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

Hidden Properties	
* createOrder : INTEGER = 70	Create Order
* createScript : STRING = wls/application/deploy-application.py	Python script invoked to deploy this Java EE artifact
* createVerb : STRING = Deploy	Create Verb
* destroyOrder : INTEGER = 30	Destroy Order
* destroyScript : STRING = wls/application/undeploy-application.py	Python script invoked to undeploy this Java EE artifact
* 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, libraryScripts, discoverOrder, deploymentOrder, isStartOrStopOperationRequired, automaticVersioning	Standard Properties Not To Expose
* startOrder : INTEGER = 90	Start Order
* startScript : STRING = wls/application/start-application.py	Python script invoked to start this Java EE artifact
* startVerb : STRING = Start	Start Verb
* stopOrder : INTEGER = 10	Stop Order
* stopRetiredApplicationOrder : INTEGER = 95	Stop Retired Application Order
* stopScript : STRING = wls/application/stop-application.py	Python script invoked to stop this Java EE artifact
* 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.
isStartOrStopOperationRequired : BOOLEAN = true	Is Start Or Stop Operation Required
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