

# Deployit OSB Plugin Manual

Version 3.7.1

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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
osb.Configuration	Import the projects in the OSB	• Delete the projects from the OSB	

	Domain	Domain <ul style="list-style-type: none"> <li>Import the projects in the OSB Domain</li> </ul>
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## CI Reference

### Configuration Item Overview

#### Deployable Configuration Items

CI	Description
<a href="#">osb.Configuration</a>	Description unavailable

#### Deployed Configuration Items

CI	Description
<a href="#">osb.DeployedConfiguration</a>	Deployed OSB Configuration

#### Topology Configuration Items

CI	Description
<a href="#">osb.Domain</a>	OSB domain on the WebLogic server

#### Virtual Deployed Configuration Items

CI	Description
<a href="#">osb.ExtensibleDeployedArtifact</a>	Description unavailable

### Configuration Item Details

#### osb.Configuration

**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

Description unavailable

Public Properties
<b>projectNames</b> : SET_OF_STRING
list of the projects
<b>excludeFileNamesRegex</b> : STRING
Regular expression that matches file names that must be excluded from scanning
<b>placeholders</b> : SET_OF_STRING
Placeholders detected in this artifact
<b>scanPlaceholders</b> : BOOLEAN = true
Scan Placeholders
<b>tags</b> : SET_OF_STRING
If set, this deployable will only be mapped automatically to containers with the same tag.
Hidden Properties
<b>textFileNamesRegex</b> : 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

**Hierarchy** [osb.ExtensibleDeployedArtifact](#) >> wls.ExtensibleDeployedArtifact >> python.PythonManagedDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem

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

Deployed OSB Configuration

Public Properties
-------------------



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

The container on which this deployed runs.

**deploymentOrder** : `INTEGER = 100`

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

**projectNames** : `SET_OF_STRING`

list of the projects

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

Indicates what redeployment strategy to use for upgrading the application

**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

**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`

Standard Properties Not To Expose

**startOrder** : `INTEGER = 90`

Start Order

**startScript** : `STRING = wls/application/start-application.py`

Start Script
<b>startVerb</b> : <b>STRING</b> = Start
Start Verb
<b>stopOrder</b> : <b>INTEGER</b> = 10
Stop Order
<b>stopRetiredApplicationOrder</b> : <b>INTEGER</b> = 95
Stop Retired Application Order
<b>stopScript</b> : <b>STRING</b> = wls/application/stop-application.py
Stop Script
<b>stopVerb</b> : <b>STRING</b> = Stop
Stop Verb
<b>undeployRetiredApplicationOrder</b> : <b>INTEGER</b> = 98
Undeploy Retired Application Order
<b>wlstPath</b> : <b>STRING</b> = AppDeployments
Wlst Path
<b>exposeDeployedApplication</b> : <b>BOOLEAN</b> = false
flag to indicate whether the deployed application CI is to be injected to the python script execution context.

## osb.Domain

**Hierarchy** wls.Domain >> udm.BaseContainer >> udm.BaseConfigurationItem

**Interfaces** udm.Tagable, python.PythonManagingContainer, wls.WlsContainer, python.PythonManagedContainer, udm.ConfigurationItem, udm.Container

OSB domain on the WebLogic server

### Public Properties

**adminServerName** : **STRING** = AdminServer

The name of the admin server



**clusters** : **SET\_OF\_CI**<wls.Cluster>

WebLogic clusters belonging to domain

**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

**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/'

**tags** : **SET\_OF\_STRING**

If set, only deployables with the same tag will be automatically mapped to this container.

### Hidden Properties

**configfwkLibs** : **SET\_OF\_STRING** = [./modules/com.bea.common.configfwk\_1.1.0.0.jar, modules/com.bea.common.configfwk\_1.6.0.0.jar, ./modules/com.bea.common.configfwk\_1.2.0.0.jar, modules/com.bea.common.configfwk\_1.5.0.0.jar, ./modules/com.bea.common.configfwk\_1.4.0.0.jar, ./modules/com.bea.common.configfwk\_1.3.0.0.jar, ./modules/com.bea.common.configfwk\_1.2.1.0.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-impl.jar, sb-kernel-wls.jar, sb-kernel-api.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

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

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

Description unavailable

### Public Properties

 **container** : CI<udm.Container>  
 The container on which this deployed runs.  
**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  
**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 wither this artifact is to be deployed as a versioned application

### 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  
**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
Standard Properties Not To Expose
<b>startOrder</b> : INTEGER = 90
Start Order
<b>startScript</b> : STRING = wls/application/start-application.py
Start Script
<b>startVerb</b> : STRING = Start
Start Verb
<b>stopOrder</b> : INTEGER = 10
Stop Order
<b>stopRetiredApplicationOrder</b> : INTEGER = 95
Stop Retired Application Order
<b>stopScript</b> : STRING = wls/application/stop-application.py
Stop Script
<b>stopVerb</b> : STRING = Stop
Stop Verb
<b>undeployRetiredApplicationOrder</b> : INTEGER = 98
Undeploy Retired Application Order
<b>wlstPath</b> : STRING = AppDeployments
Wlst Path
<b>exposeDeployedApplication</b> : BOOLEAN = false
flag to indicate whether the deployed application CI is to be injected to the python script execution context.
<b>modifyScript</b> : STRING
Python script invoked to upgrade this Java EE artifact