

# Deployit OSB Plugin Manual

Version 3.7.0

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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<br>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"> <li>Delete the projects from the OSB Domain</li> <li>Import the projects in the OSB Domain</li> </ul> |        |

## CI Reference

### Configuration Item Overview

#### Deployable Configuration Items

| CI                                | Description               |
|-----------------------------------|---------------------------|
| <a href="#">osb.Configuration</a> | OSB project configuration |

#### 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

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*

Scan Placeholders

**tags** : SET\_OF\_STRING

The tags to map deployables to containers.

## 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

**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 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 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

**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

**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.

**modifyScript** : *STRING*

Python script invoked to upgrade this Java EE artifact

## 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*

The tags to map deployables to containers.

## 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\_1.5.0.0.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 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*

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

**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.

**modifyScript** : **STRING**

Python script invoked to upgrade this Java EE artifact