Deployit OSB Plugin Manual

Version 3.6.0

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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 deployeds

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	• Delete the projects from the OSB Domain • Import the projects in the OSB Domain	

CI Reference

Configuration Item Overview

Deployable Configuration Items

CI	Description
osb.Configuration	OSB project configuration

Deployed Configuration Items

CI	Description
osb.DeployedConfiguration	Deployed OSB Configuration

Topology Configuration Items

CI	Description
osb.Domain	OSB domain on the WebLogic server

Virtual Deployed Configuration Items

CI	Description
osb.ExtensibleDeployedArtifact	Base class for all deployeds meant to contain Applications

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

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 wither this artifact is to be deployed as a versioned application

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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, 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

modifyScript : STRING

Python script invoked to upgrade this Java EE artifact

osb.Domain

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

Interfaces udm.Taggable, 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.

Public Properties

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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

Base class for all deployeds meant to contain Applications

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The container on which this deployed runs.

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

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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

Public Properties

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, stopRetiredApplicationOrder, undeployRetiredApplicationOrder*

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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

modifyScript : STRING

Python script invoked to upgrade this Java EE artifact

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Wlst Path

modifyScript : STRING

Python script invoked to upgrade this Java EE artifact