

Deployit BizTalk Plugin Manual

Version 3.8.0

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Preface

This document describes the functionality provided by the BizTalk plugin.

Refer to **Deployit Reference Manual** for background information on Deployit and deployment concepts.

Overview

The BizTalk plugin is a Deployit plugin that adds the capability to perform BizTalk configuration and deployment tasks.

Features

- Creates and destroys BizTalk applications in the BizTalk database.
 - Starts and stops BizTalk applications as necessary.
- Adds and remove BizTalk and plain assemblies to/from the BizTalk database.
- Imports BizTalk bindings files into the BizTalk database.
- Imports BizTalk Business Rule Engine (BRE) vocabularies into the BizTalk database.
- Imports, deploys and undeploys BRE rules into the BizTalk database.
- Installs BizTalk and plain assemblies in the Global Assembly Cache (GAC) on every BizTalk server (host).

Requirements

- Deployit requirements:
 - Deployit version 3.8.4 or higher.
- Infrastructural requirements for the target machine:
 - Administrative access (with elevated privileges) is required to run the PowerShell provider for BizTalk.
 - **N.B.:** When the machine that runs the PowerShell provider for BizTalk is accessed over WinRM and is then used to connect to a third machine, an error such as `Login failed for user 'NT AUTHORITY\ANONYMOUS LOGON'` may appear. Either install the PowerShell provider for BizTalk on all machines that run the BizTalk database, or install it on the machine the runs Deployit and use an `overthere.LocalHost` to access it.
 - PowerShell 2.0 must be installed.
 - The 32-bit version of the PowerShell executable must be configured to run with .NET 4.0 (see below).
 - The [BizTalkFactory PowerShell Provider for BizTalk Server 2010](#) must be installed.

Configure the 32-bit version of PowerShell to run with .NET 4.0

On the machine that runs the PowerShell provider for BizTalk, create the file `C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe.config` with the following content:

```
<?xml version="1.0"?>
<configuration>
  <startup useLegacyV2RuntimeActivationPolicy="true">
    <supportedRuntime version="v4.0.30319"/>
    <supportedRuntime version="v2.0.50727"/>
  </startup>
</configuration>
```

Usage in deployment packages

The plugin works with the standard deployment package 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 includes a few of the deployables provided by the BizTalk plugin:

```

Manifest-Version: 1.0
Deployit-Package-Format-Version: 1.3
CI-Application: BizTalkApp1
CI-Version: 1.0

Name: BizTalkApp1
CI-Type: biztalk.ApplicationSpec

Name: BizTalkApp1.Schemas.dll
CI-Type: biztalk.BizTalkAssemblyFile
CI-applicationName: BizTalkApp1
CI-destinationPath: {{ASSEMBLY_DESTINATION_DIR}}\BizTalkApp1.Sche
mas.dll

Name: BizTalkApp1.dll
CI-Type: biztalk.BizTalkAssemblyFile
CI-applicationName: BizTalkApp1
CI-destinationPath: {{ASSEMBLY_DESTINATION_DIR}}\BizTalkApp1.dll

Name: BizTalkApp1.BindingInfo.xml
CI-Type: biztalk.BindingsFile
CI-applicationName: BizTalkApp1

Name: BizTalkApp1.1.0.Vocabulary.xml
CI-Type: biztalk.VocabularyFile
CI-applicationName: All policies

Name: BizTalkApp1.Rule.1.0.xml
CI-Type: biztalk.RulesFile
CI-applicationName: All policies

```

Using the deployables and deployed

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

Deployable vs. Container table

Deployable	Container	Generated deployed
biztalk.ApplicationSpec	biztalk.Database	biztalk.Application
biztalk.AssemblyFile	biztalk.Database	biztalk.Assembly
biztalk.AssemblyFile	biztalk.Server	biztalk.InstalledAssembly
biztalk.BindingsFile	biztalk.Database	biztalk.Bindings
biztalk.BizTalkAssemblyFile	biztalk.Database	biztalk.BizTalkAssembly
biztalk.BizTalkAssemblyFile	biztalk.Server	biztalk.InstalledAssembly
biztalk.RulesFile	biztalk.Database	biztalk.Rules
biztalk.VocabularyFile	biztalk.Database	biztalk.Vocabulary

The following table describes the effect a deployed has on its container

Deployed Actions Table

Deployed	Actions performed for operations		
	Create	Destroy	Modify
biztalk.Application	56. Create BizTalk application 90. Start BizTalk application	10. Stop BizTalk application 44. Destroy BizTalk application	10. Stop BizTalk application 44. Destroy BizTalk application 56. Create BizTalk application 90. Start BizTalk application
biztalk.Assembly	58. Add plain assembly	42. Remove plain assembly	42. Remove plain assembly 58. Add plain assembly
biztalk.Bindings	60. Import BizTalk bindings		60. Import BizTalk bindings
biztalk.BizTalkAssembly	58. Add BizTalk assembly	42. Remove BizTalk assembly	42. Remove BizTalk assembly 58. Add BizTalk assembly
biztalk.InstalledAssembly	59. Install assembly into GAC		59. Install assembly into GAC
biztalk.Rules	60. Import and deploy BRE rules	40. Undeploy BRE rules	40. Undeploy BRE rules 60. Import and deploy BRE rules
biztalk.Vocabulary	58. Import BRE vocabulary		58. Import BRE vocabulary

Extending the BizTalk plugin

The BizTalk plugin has been written upon the foundations provided by the PowerShell plugin, which is a standard part of the Deployit server distribution. Please refer to the documentation of the PowerShell plugin for details on how to extend PowerShell-based plugins.

CI Reference

Configuration Item Overview

Deployables

CI	Description
biztalk.ApplicationSpec	Specification for a BizTalk application
biztalk.AssemblyFile	Assembly file (DLL)
biztalk.BaseAssemblyFile	Base class for (BizTalk) assembly file (DLL)
biztalk.BindingsFile	BizTalk bindings file (XML)
biztalk.BizTalkAssemblyFile	BizTalk assembly file (DLL)
biztalk.RulesFile	BizTalk BRE rules file (XML)
biztalk.VocabularyFile	BizTalk BRE vocabulary file (XML)

Deployeds

CI	Description
biztalk.Application	BizTalk application
biztalk.Assembly	Registered assembly
biztalk.BaseAssembly	Base class for registered (BizTalk) assembly
biztalk.Bindings	BizTalk bindings
biztalk.BizTalkAssembly	Registered BizTalk assembly
biztalk.InstalledAssembly	Installed (BizTalk) assembly
biztalk.Rules	BizTalk BRE rules
biztalk.Vocabulary	BizTalk BRE vocabulary

Containers

CI	Description
biztalk.Database	BizTalk database
biztalk.Server	BizTalk server

Other Configuration Items

CI	Description
biztalk.Application	BizTalk application
biztalk.ApplicationSpec	Specification for a BizTalk application
biztalk.Assembly	Registered assembly
biztalk.AssemblyFile	Assembly file (DLL)
biztalk.BaseAssembly	Base class for registered (BizTalk) assembly
biztalk.BaseAssemblyFile	Base class for (BizTalk) assembly file (DLL)
biztalk.Bindings	BizTalk bindings
biztalk.BindingsFile	BizTalk bindings file (XML)
biztalk.BizTalkAssembly	Registered BizTalk assembly
biztalk.BizTalkAssemblyFile	BizTalk assembly file (DLL)
biztalk.Database	BizTalk database
biztalk.InstalledAssembly	Installed (BizTalk) assembly
biztalk.Rules	BizTalk BRE rules
biztalk.RulesFile	BizTalk BRE rules file (XML)
biztalk.Server	BizTalk server
biztalk.Vocabulary	BizTalk BRE vocabulary
biztalk.VocabularyFile	BizTalk BRE vocabulary file (XML)

Configuration Item Details

biztalk.Application

Type Hierarchy powershell.ExtensiblePowerShellDeployed >>
 powershell.BaseExtensiblePowerShellDeployed >>
 powershell.BasePowerShellDeployed >> udm.BaseDeployed >>
 udm.BaseConfigurationItem

Interfaces udm.Deployed, udm.ConfigurationItem

BizTalk application

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
applicationName : <code>STRING</code>	Name of this application. Defaults to the name of the deployed if not specified
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
stopStartOnNoop : <code>BOOLEAN = false</code>	If set to true, this application is stopped and started when another component in the same package is deployed
Hidden Properties	
* createOrder : <code>INTEGER = 56</code>	Create Order
* createScript : <code>STRING = biztalk/create-application.ps1</code>	Create Script
* createVerb : <code>STRING = Create</code>	Verb that is used to prefix a step description for the create operation.
* destroyOrder : <code>INTEGER = 44</code>	Destroy Order
* destroyScript : <code>STRING = biztalk/destroy-application.ps1</code>	Destroy Script
* destroyVerb : <code>STRING = Destroy</code>	Verb that is used to prefix a step description for the destroy operation.
* modifyOrder : <code>INTEGER = 60</code>	Order in which a modify step will be executed.
* modifyVerb : <code>STRING = Modify</code>	Verb that is used to prefix a step description for the modify operation.
* noopOrder : <code>INTEGER = 50</code>	Order in which a noop step will be executed.
* noopVerb : <code>STRING = Noop</code>	Verb that is used to prefix a step description for the noop operation.
* startOrder : <code>INTEGER = 90</code>	Order in which a start step will be executed.
* startScript : <code>STRING = biztalk/start-application.ps1</code>	Start Script
* startVerb : <code>STRING = Start</code>	Verb that is used to prefix a step description for the start operation.
* stopOrder : <code>INTEGER = 10</code>	Order in which a synchronize after modify stop will be executed.
* stopScript : <code>STRING = biztalk/stop-application.ps1</code>	Stop Script
* stopVerb : <code>STRING = Stop</code>	Verb that is used to prefix a step description for the stop operation.
exposeDeployedApplication : <code>BOOLEAN = false</code>	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : <code>STRING</code>	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : <code>STRING</code>	PowerShell script invoked to noop an artifact or a resource on Windows.

biztalk.ApplicationSpec

Type Hierarchy powershell.BasePowerShellDeployable >> udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.Deployable, udm.ConfigurationItem

Specification for a BizTalk application

Public Properties	
applicationName :	STRING Name of this application. Defaults to the name of the deployed if not specified (string)
stopStartOnNoop :	STRING If set to true, this application is stopped and started when another component in the same package is deployed (boolean)
tags :	SET_OF_STRING If set, this deployable will only be mapped automatically to containers with the same tag.

biztalk.Assembly

Type Hierarchy	biztalk.BaseAssembly >> powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Registered assembly

Parent	
* container :	CI<udm.Container> The container on which this deployed runs.
Public Properties	
* applicationName :	STRING Application Name
* destinationPath :	STRING Destination Path
deployable :	CI<udm.Deployable> The deployable that this deployed is derived from.
gacOnAdd :	BOOLEAN Add to the global assembly cache on add resource (gacutil)
gacOnImport :	BOOLEAN Add to the global assembly cache on MSI file import (gacutil)
gacOnInstall :	BOOLEAN Add to the global assembly cache on MSI file install (gacutil)
overwrite :	BOOLEAN Overwrite
placeholders :	MAP_STRING_STRING A Map containing all the placeholders mapped to their values. Special values are or
regAsm :	BOOLEAN Make visible to COM components (regasm)
regSvcs :	BOOLEAN Register serviced components (regsvcs)
sourcePath :	STRING Source Path

Hidden Properties	
* assemblyType : STRING = System.BizTalk:Assembly	Assembly Type
* createOrder : INTEGER = 58	Create Order
* createScript : STRING = biztalk/add-assembly.ps1	Create Script
* createVerb : STRING = Add	Create Verb
* destroyOrder : INTEGER = 42	Destroy Order
* destroyScript : STRING = biztalk/remove-assembly.ps1	Destroy Script
* destroyVerb : STRING = Remove	Destroy Verb
* modifyOrder : INTEGER = 60	Order in which a modify step will be executed.
* modifyVerb : STRING = Modify	Verb that is used to prefix a step description for the modify operation.
* noopOrder : INTEGER = 50	Order in which a noop step will be executed.
* noopVerb : STRING = Noop	Verb that is used to prefix a step description for the noop operation.
* startOrder : INTEGER = 90	Order in which a start step will be executed.
* startVerb : STRING = Start	Verb that is used to prefix a step description for the start operation.
* stopOrder : INTEGER = 10	Order in which a synchronize after modify stop will be executed.
* stopVerb : STRING = Stop	Verb that is used to prefix a step description for the stop operation.
exposeDeployedApplication : BOOLEAN = false	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : STRING	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : STRING	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : STRING	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : STRING	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : BOOLEAN = false	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.AssemblyFile

Type Hierarchy [biztalk.BaseAssemblyFile](#) >>
 powershell.BasePowerShellDeployableFileArtifact >>
 udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >>
 udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces [udm.Taggable](#), [udm.Deployable](#), [udm.SourceArtifact](#), [udm.Artifact](#),
[udm.DeployableArtifact](#), [udm.ConfigurationItem](#), [udm.FileArtifact](#)

Assembly file (DLL)

Public Properties	
applicationName :	STRING Application Name (string)
destinationPath :	STRING Destination Path (string)
excludeFileNamesRegex :	STRING Regular expression that matches file names that must be excluded from scanning
gacOnAdd :	STRING Add to the global assembly cache on add resource (gacutil) (boolean)
gacOnImport :	STRING Add to the global assembly cache on MSI file import (gacutil) (boolean)
gacOnInstall :	STRING Add to the global assembly cache on MSI file install (gacutil) (boolean)
overwrite :	STRING Overwrite (boolean)
placeholders :	SET_OF_STRING Placeholders detected in this artifact
regAsm :	STRING Make visible to COM components (regasm) (boolean)
regSvcs :	STRING Register serviced components (regsvcs) (boolean)
scanPlaceholders :	BOOLEAN = true Whether to scan this artifact for placeholders when it is imported
sourcePath :	STRING Source Path (string)
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

biztalk.BaseAssembly

Virtual Type

Type Hierarchy	powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Base class for registered (BizTalk) assembly

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

Public Properties	
* applicationName : STRING	Application Name
* destinationPath : STRING	Destination Path
deployable : CI<udm.Deployable>	The deployable that this deployed is derived from.
gacOnAdd : BOOLEAN	Add to the global assembly cache on add resource (gacutil)
gacOnImport : BOOLEAN	Add to the global assembly cache on MSI file import (gacutil)
gacOnInstall : BOOLEAN	Add to the global assembly cache on MSI file install (gacutil)
overwrite : BOOLEAN	Overwrite
placeholders : MAP_STRING_STRING	A Map containing all the placeholders mapped to their values. Special values are or
sourcePath : STRING	Source Path

Hidden Properties	
* createOrder : INTEGER = 58	Create Order
* createScript : STRING = biztalk/add-assembly.ps1	Create Script
* createVerb : STRING = Add	Create Verb
* destroyOrder : INTEGER = 42	Destroy Order
* destroyScript : STRING = biztalk/remove-assembly.ps1	Destroy Script
* destroyVerb : STRING = Remove	Destroy Verb
* modifyOrder : INTEGER = 60	Order in which a modify step will be executed.
* modifyVerb : STRING = Modify	Verb that is used to prefix a step description for the modify operation.
* noopOrder : INTEGER = 50	Order in which a noop step will be executed.
* noopVerb : STRING = Noop	Verb that is used to prefix a step description for the noop operation.
* startOrder : INTEGER = 90	Order in which a start step will be executed.
* startVerb : STRING = Start	Verb that is used to prefix a step description for the start operation.
* stopOrder : INTEGER = 10	Order in which a synchronize after modify stop will be executed.
* stopVerb : STRING = Stop	Verb that is used to prefix a step description for the stop operation.
exposeDeployedApplication : BOOLEAN = false	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : STRING	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : STRING	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : STRING	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : STRING	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : BOOLEAN = false	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.BaseAssemblyFile

Type Hierarchy powershell.BasePowerShellDeployableFileArtifact >>
 udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >>
 udm.BaseDeployable >> udm.BaseConfigurationItem

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

Base class for (BizTalk) assembly file (DLL)

Public Properties	
applicationName :	STRING Application Name (string)
destinationPath :	STRING Destination Path (string)
excludeFileNamesRegex :	STRING Regular expression that matches file names that must be excluded from scanning
gacOnAdd :	STRING Add to the global assembly cache on add resource (gacutil) (boolean)
gacOnImport :	STRING Add to the global assembly cache on MSI file import (gacutil) (boolean)
gacOnInstall :	STRING Add to the global assembly cache on MSI file install (gacutil) (boolean)
overwrite :	STRING Overwrite (boolean)
placeholders :	SET_OF_STRING Placeholders detected in this artifact
scanPlaceholders :	BOOLEAN = true Whether to scan this artifact for placeholders when it is imported
sourcePath :	STRING Source Path (string)
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

biztalk.Bindings

Type Hierarchy	powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

BizTalk bindings

Parent	
* container :	CI<udm.Container> The container on which this deployed runs.
Public Properties	
* applicationName :	STRING Application Name
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 or

Hidden Properties	
* createOrder : INTEGER = 60	Order in which a create step will be executed.
* createScript : STRING = biztalk/import-bindings.ps1	Create Script
* createVerb : STRING = Import	Create Verb
* destroyOrder : INTEGER = 40	Order in which a destroy step will be executed.
* destroyVerb : STRING = Destroy	Verb that is used to prefix a step description for the destroy operation.
* modifyOrder : INTEGER = 60	Order in which a modify step will be executed.
* modifyVerb : STRING = Modify	Verb that is used to prefix a step description for the modify operation.
* noopOrder : INTEGER = 50	Order in which a noop step will be executed.
* noopVerb : STRING = Noop	Verb that is used to prefix a step description for the noop operation.
* startOrder : INTEGER = 90	Order in which a start step will be executed.
* startVerb : STRING = Start	Verb that is used to prefix a step description for the start operation.
* stopOrder : INTEGER = 10	Order in which a synchronize after modify stop will be executed.
* stopVerb : STRING = Stop	Verb that is used to prefix a step description for the stop operation.
destroyScript : STRING	PowerShell script invoked to undeploy an artifact or a resource on Windows.
exposeDeployedApplication : BOOLEAN = false	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : STRING	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : STRING	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : STRING	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : STRING	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : BOOLEAN = false	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.BindingsFile

Type Hierarchy	powershell.BasePowerShellDeployableFileArtifact >> udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem
Interfaces	udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FileArtifact

BizTalk bindings file (XML)

Public Properties	
applicationName :	STRING Application Name (string)
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

biztalk.BizTalkAssembly

Type Hierarchy	biztalk.BaseAssembly >> powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Registered BizTalk assembly

Parent	
* container :	CI<udm.Container> The container on which this deployed runs.
Public Properties	
* applicationName :	STRING Application Name
* destinationPath :	STRING Destination Path
deployable :	CI<udm.Deployable> The deployable that this deployed is derived from.
gacOnAdd :	BOOLEAN Add to the global assembly cache on add resource (gacutil)
gacOnImport :	BOOLEAN Add to the global assembly cache on MSI file import (gacutil)
gacOnInstall :	BOOLEAN Add to the global assembly cache on MSI file install (gacutil)
overwrite :	BOOLEAN Overwrite
placeholders :	MAP_STRING_STRING A Map containing all the placeholders mapped to their values. Special values are or
sourcePath :	STRING Source Path

Hidden Properties	
* assemblyType : STRING = System.BizTalk:BizTalkAssembly	Assembly Type
* createOrder : INTEGER = 58	Create Order
* createScript : STRING = biztalk/add-assembly.ps1	Create Script
* createVerb : STRING = Add	Create Verb
* destroyOrder : INTEGER = 42	Destroy Order
* destroyScript : STRING = biztalk/remove-assembly.ps1	Destroy Script
* destroyVerb : STRING = Remove	Destroy Verb
* modifyOrder : INTEGER = 60	Order in which a modify step will be executed.
* modifyVerb : STRING = Modify	Verb that is used to prefix a step description for the modify operation.
* noopOrder : INTEGER = 50	Order in which a noop step will be executed.
* noopVerb : STRING = Noop	Verb that is used to prefix a step description for the noop operation.
* startOrder : INTEGER = 90	Order in which a start step will be executed.
* startVerb : STRING = Start	Verb that is used to prefix a step description for the start operation.
* stopOrder : INTEGER = 10	Order in which a synchronize after modify step will be executed.
* stopVerb : STRING = Stop	Verb that is used to prefix a step description for the stop operation.
exposeDeployedApplication : BOOLEAN = false	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : STRING	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : STRING	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : STRING	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : STRING	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : BOOLEAN = false	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.BizTalkAssemblyFile

Type Hierarchy [biztalk.BaseAssemblyFile](#) >>
 powershell.BasePowerShellDeployableFileArtifact >>
 udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >>
 udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces [udm.Taggable](#), [udm.Deployable](#), [udm.SourceArtifact](#), [udm.Artifact](#),
[udm.DeployableArtifact](#), [udm.ConfigurationItem](#), [udm.FileArtifact](#)

BizTalk assembly file (DLL)

Public Properties	
applicationName :	STRING Application Name (string)
destinationPath :	STRING Destination Path (string)
excludeFileNamesRegex :	STRING Regular expression that matches file names that must be excluded from scanning
gacOnAdd :	STRING Add to the global assembly cache on add resource (gacutil) (boolean)
gacOnImport :	STRING Add to the global assembly cache on MSI file import (gacutil) (boolean)
gacOnInstall :	STRING Add to the global assembly cache on MSI file install (gacutil) (boolean)
overwrite :	STRING Overwrite (boolean)
placeholders :	SET_OF_STRING Placeholders detected in this artifact
scanPlaceholders :	BOOLEAN = true Whether to scan this artifact for placeholders when it is imported
sourcePath :	STRING Source Path (string)
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

biztalk.Database

Type Hierarchy	powershell.BasePowerShellContainer >> udm.BaseContainer >> udm.BaseConfigurationItem
Interfaces	udm.Taggable, powershell.PowerShellContainer, udm.ConfigurationItem, udm.Container, overthere.HostContainer

BizTalk database

Parent	
* host :	CI<overthere.Host> Host upon which the container resides
Public Properties	
* databaseName :	STRING = BizTalkMgmtDb Database Name
* instanceName :	STRING Instance Name
tags :	SET_OF_STRING If set, only deployables with the same tag will be automatically mapped to this container.
Hidden Properties	
* powerShellPath :	STRING = C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe Power Shell Path
* runtimePath :	STRING = biztalk/runtime Runtime Path

biztalk.InstalledAssembly

Type Hierarchy	powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

Installed (BizTalk) assembly

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are or
Hidden Properties	
* createOrder : <code>INTEGER = 59</code>	Create Order
* createScript : <code>STRING = biztalk/install-assembly.ps1</code>	Create Script
* createVerb : <code>STRING = Install</code>	Create Verb
* destroyOrder : <code>INTEGER = 40</code>	Order in which a destroy step will be executed.
* destroyVerb : <code>STRING = Destroy</code>	Verb that is used to prefix a step description for the destroy operation.
* modifyOrder : <code>INTEGER = 60</code>	Order in which a modify step will be executed.
* modifyVerb : <code>STRING = Modify</code>	Verb that is used to prefix a step description for the modify operation.
* noopOrder : <code>INTEGER = 50</code>	Order in which a noop step will be executed.
* noopVerb : <code>STRING = Noop</code>	Verb that is used to prefix a step description for the noop operation.
* startOrder : <code>INTEGER = 90</code>	Order in which a start step will be executed.
* startVerb : <code>STRING = Start</code>	Verb that is used to prefix a step description for the start operation.
* stopOrder : <code>INTEGER = 10</code>	Order in which a synchronize after modify stop will be executed.
* stopVerb : <code>STRING = Stop</code>	Verb that is used to prefix a step description for the stop operation.
destroyScript : <code>STRING</code>	PowerShell script invoked to undeploy an artifact or a resource on Windows.
exposeDeployedApplication : <code>BOOLEAN = false</code>	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : <code>STRING</code>	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : <code>STRING</code>	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : <code>STRING</code>	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : <code>STRING</code>	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : <code>BOOLEAN = false</code>	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.Rules

Type Hierarchy	<p>powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem</p>
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

BizTalk BRE rules

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
* applicationName : <code>STRING</code>	Application Name
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are or
Hidden Properties	
* createOrder : <code>INTEGER = 60</code>	Order in which a create step will be executed.
* createScript : <code>STRING = biztalk/import-and-deploy-rules.ps1</code>	Create Script
* createVerb : <code>STRING = Import and deploy</code>	Create Verb
* destroyOrder : <code>INTEGER = 40</code>	Order in which a destroy step will be executed.
* destroyScript : <code>STRING = biztalk/undeploy-rules.ps1</code>	Destroy Script
* destroyVerb : <code>STRING = Undeploy</code>	Destroy Verb
* modifyOrder : <code>INTEGER = 60</code>	Order in which a modify step will be executed.
* modifyVerb : <code>STRING = Modify</code>	Verb that is used to prefix a step description for the modify operation.
* noopOrder : <code>INTEGER = 50</code>	Order in which a noop step will be executed.
* noopVerb : <code>STRING = Noop</code>	Verb that is used to prefix a step description for the noop operation.
* startOrder : <code>INTEGER = 90</code>	Order in which a start step will be executed.
* startVerb : <code>STRING = Start</code>	Verb that is used to prefix a step description for the start operation.
* stopOrder : <code>INTEGER = 10</code>	Order in which a synchronize after modify stop will be executed.
* stopVerb : <code>STRING = Stop</code>	Verb that is used to prefix a step description for the stop operation.
exposeDeployedApplication : <code>BOOLEAN = false</code>	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : <code>STRING</code>	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : <code>STRING</code>	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : <code>STRING</code>	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : <code>STRING</code>	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : <code>BOOLEAN = false</code>	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.RulesFile

Type Hierarchy	powershell.BasePowerShellDeployableFileArtifact >> udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem
Interfaces	udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FileArtifact

BizTalk BRE rules file (XML)

Public Properties	
applicationName :	STRING Application Name (string)
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

biztalk.Server

Type Hierarchy	powershell.BasePowerShellContainer >> udm.BaseContainer >> udm.BaseConfigurationItem
Interfaces	udm.Taggable, powershell.PowerShellContainer, udm.ConfigurationItem, udm.Container, overthere.HostContainer

BizTalk server

Parent	
* host :	CI<overthere.Host> Host upon which the container resides
Public Properties	
tags :	SET_OF_STRING If set, only deployables with the same tag will be automatically mapped to this container.
Hidden Properties	
* powerShellPath :	STRING = C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe Power Shell Path
runtimePath :	STRING Runtime path for this container

biztalk.Vocabulary

Type Hierarchy	powershell.ExtensiblePowerShellDeployedArtifact >> powershell.BaseExtensiblePowerShellDeployed >> powershell.BasePowerShellDeployed >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.Artifact, udm.Deployed, udm.ConfigurationItem, udm.DerivedArtifact

BizTalk BRE vocabulary

Parent	
* container :	CI<udm.Container> The container on which this deployed runs.
Public Properties	
* applicationName :	STRING Application Name
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 or

Hidden Properties	
* createOrder : INTEGER = 58	Create Order
* createScript : STRING = biztalk/import-vocabulary.ps1	Create Script
* createVerb : STRING = Import	Create Verb
* destroyOrder : INTEGER = 40	Order in which a destroy step will be executed.
* destroyVerb : STRING = Destroy	Verb that is used to prefix a step description for the destroy operation.
* modifyOrder : INTEGER = 60	Order in which a modify step will be executed.
* modifyVerb : STRING = Modify	Verb that is used to prefix a step description for the modify operation.
* noopOrder : INTEGER = 50	Order in which a noop step will be executed.
* noopVerb : STRING = Noop	Verb that is used to prefix a step description for the noop operation.
* startOrder : INTEGER = 90	Order in which a start step will be executed.
* startVerb : STRING = Start	Verb that is used to prefix a step description for the start operation.
* stopOrder : INTEGER = 10	Order in which a synchronize after modify stop will be executed.
* stopVerb : STRING = Stop	Verb that is used to prefix a step description for the stop operation.
destroyScript : STRING	PowerShell script invoked to undeploy an artifact or a resource on Windows.
exposeDeployedApplication : BOOLEAN = false	If set to true, the deployed application CI is exposed to the PowerShell script.
modifyScript : STRING	PowerShell script invoked to upgrade an artifact or a resource on Windows.
noopScript : STRING	PowerShell script invoked to noop an artifact or a resource on Windows.
startScript : STRING	PowerShell script invoked to start an artifact or resource on Windows.
stopScript : STRING	PowerShell script invoked to stop an artifact or resource on Windows.
stopStartOnNoop : BOOLEAN = false	If set to true, the stop and start operations will be executed for the noop operation.

biztalk.VocabularyFile

Type Hierarchy	powershell.BasePowerShellDeployableFileArtifact >> udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem
Interfaces	udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FileArtifact

BizTalk BRE vocabulary file (XML)

Public Properties	
applicationName :	STRING Application Name (string)
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