

# JavaServiceWrapper

## Windows platform integration of Tanuki Software's Java Wrapper Service facility

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## 1. Overview

**JavaServiceWrapper:** *Windows platform integration of Tanuki Software's Java Wrapper Service facility*

This type manages the Tanuki Software Java Wrapper Service, and allows a dependent Service object to be automatically deployed.

A [JavaServiceWrapperZip](#) object should be added as a child dependency.

A Service object should also be added as a child dependency.

Appropriate [Settings](#) should be added to JavaServiceWrapper object to configure the appropriate Java based configuration to run the underlying Service.

An example of using JavaServiceWrapper for managing the [JBossServer](#) type is here: [Windows service example](#).

See: [Tanuki Software Ltd. - Java Service Wrapper](#).

## 2. Design

### Super Type Service

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>
Notification	<b>false</b>
Template Directory	
Data View	Children, proximity: <b>1</b>
Logger Name	

## 3. Constraints

### 3.1. Allowed Child Dependencies

- [JavaServiceWrapperAppParameters](#) 1
- [JavaServiceWrapperConsoleTitle](#) 1
- [JavaServiceWrapperJavaAdditional](#) 1
- [JavaServiceWrapperJavaClassPath](#) 1

- [JavaServiceWrapperJavaHome](#) 1
- [JavaServiceWrapperJavaInitMemory](#) 1
- [JavaServiceWrapperJavaMainClass](#) 1
- [JavaServiceWrapperJavaMaxMemory](#) 1
- [JavaServiceWrapperNtServiceDescription](#) 1
- [JavaServiceWrapperNtServiceDisplayName](#) 1
- [JavaServiceWrapperNtServiceInteractive](#) 1
- [JavaServiceWrapperNtServiceName](#) 1
- [JavaServiceWrapperNtServiceStartType](#) 1
- [JavaServiceWrapperZip](#) 1
- Service1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 3.2. Allowed Parent Dependencies

- Node
- Site

## 4. Attributes

### 4.1. Exported Attributes

Name	Property	Description
installRoot	deployment-install-root	The deployment-install-root is exported as the "installRoot" attribute. It is used to default the -installroot option in many commands.

### 4.2. Defaults for Imported Attributes

Name	Default
javaServiceWrapperConsoleTitle	Test Wrapper Sample Application
javaServiceWrapperJavaHome	\${env.JAVA_HOME}
javaServiceWrapperJavaInitMemory	3
javaServiceWrapperJavaMainClass	org.tanukisoftware.wrapper.WrapperSimpleApp
javaServiceWrapperJavaMaxMemory	64

javaServiceWrapperNtServiceDescriptio	Test Wrapper Sample Application Description
javaServiceWrapperNtServiceDisplayNam	Test Wrapper Sample Application
javaServiceWrapperNtServiceInteractiv	false
javaServiceWrapperNtServiceName	testwrapper
javaServiceWrapperNtServiceStartType	AUTO_START

## 5. Commands

### Note:

Commandline options displayed in square brackets "[ ]" are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

### 5.1. Deploy

*Run the service deployment cycle, stopping, unconfiguring, installing package dependencies, installing the dependent Service, and configuring and the starting the service. .*

This implementation overrides the default Deploy command to insert the [Service-Install](#) command after the Packages-Install command. This allows the JavaServiceWrapper object to perform selective parts of the normal Deploy workflow for its dependent Service child, without invoking the normal Start and Stop lifecycle commands for the Service.

The JavaServiceWrapper's Start and Stop commands invoke the Tanuki Software Java Service Wrapper start/stop commands, which invoke the Windows Service management operations to directly start or stop the underlying Java based Service software.

#### Usage

Deploy

#### 5.1.1. Workflow

1. Stop
2. [Remove](#)
3. Packages-Install
4. [Service-Install](#)
5. Configure
6. [Add](#)
7. Start

### 5.2. Add

*Add the Java Service Wrapper Windows service if it is not already installed.*

This workflow idempotently registers this object as a Windows service using the Tanuki Java Service Wrapper software.

### Usage

Add

#### 5.2.1. Workflow

1. [assertServiceIsInstalled](#)

#### 5.2.2. Error Handler

Command	<a href="#">addService</a>
---------	----------------------------

#### 5.3. Remove

*Remove the Java Service Wrapper Windows service if it is installed.*

This workflow idempotently de-registers this object as a Windows service using the Tanuki Java Service Wrapper software.

### Usage

Remove

#### 5.3.1. Workflow

1. [assertServiceIsNotInstalled](#)

#### 5.3.2. Error Handler

Command	<a href="#">removeService</a>
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#### 5.4. Service-Install

*Install a dependent Service object without starting it directly*

This workflow command dispatches the necessary commands to the dependent Service object to install it: Install, Packages-Install, and Configure.

### Usage

Service-Install

#### 5.4.1. Workflow

1. [dispatchServiceInstall](#)
2. [dispatchServicePackagesInstall](#)
3. [dispatchServiceConfigure](#)

### 5.5. dispatchServiceInstall

*Dispatch the Install command to a dependent service object*

Dispatch the "Install" command to a dependent Service.

**Usage**

```
dispatchServiceInstall
```

### 5.6. dispatchServiceConfigure

*Dispatch the Configure command to a dependent service object*

Dispatch the "Configure" command to a dependent Service.

**Usage**

```
dispatchServiceConfigure
```

### 5.7. dispatchServicePackagesInstall

*Dispatch the Packages-Install command to a dependent service object.*

Dispatch the "Packages-Install" command to a dependent Service.

**Usage**

```
dispatchServicePackagesInstall
```

### 5.8. Docs-Generate

*Generate the server properties file*

Generates the wrapper.conf file based on the Settings and attribute defaults of this object.

**Usage**

```
Docs-Generate [-installroot <>] [-packagebase <>]
```

**Options**

Option	Description
installroot	Java wrapper service wrapper home directory
packagebase	Java wrapper service wrapper package installation directory

## 5.9. addService

*Add the Java Service Wrapper Windows service to the system*

Directly registers the Windows service using the Java Service Wrapper software.

### Usage

```
addService [-installroot <>] [-packagebase <>]
```

### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>

## 5.10. removeService

*Remove the Java Service Wrapper Windows service from the system*

Directly de-registers the Windows service using the Java Service Wrapper software.

### Usage

```
removeService [-installroot <>] [-packagebase <>]
```

### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>

## 5.11. assertServiceIsUp

*Check whether the Java Service Wrapper Windows service is up*

Queries the state of the Windows service using the Java Service Wrapper software, and fails if the state is not "running".

### Usage

```
assertServiceIsUp [-installroot <>] [-packagebase <>]
[-servicename <>]
```

### Options



Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service name</i>

### 5.12. assertServiceIsDown

*Check whether the Java Service Wrapper Windows service is down*

Queries the state of the Windows service using the Java Service Wrapper software, and fails if the state is "running".

#### Usage

```
assertServiceIsDown [-installroot <>] [-packagebase <>]
[-servicename <>]
```

#### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service name</i>

### 5.13. assertServiceIsInstalled

*Check whether the Java Service Wrapper Windows service is installed*

Queries the state of the Windows service using the Java Service Wrapper software, and fails if the state is not "installed".

#### Usage

```
assertServiceIsInstalled [-installroot <>] [-packagebase <>]
[-servicename <>]
```

#### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>

packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service name</i>

#### 5.14. assertServiceIsNotInstalled

*Check whether the Java Service Wrapper Windows service is not installed*

Queries the state of the Windows service using the Java Service Wrapper software, and fails if the state is "installed".

##### Usage

```
assertServiceIsNotInstalled [-installroot <>] [-packagebase <>] [-servicename <>]
```

##### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service name</i>

#### 5.15. startService

*Start the Java Service Wrapper Windows service*

Directly starts the Windows service using the Java Service Wrapper software.

##### Usage

```
startService [-installroot <>] [-packagebase <>] [-servicename <>]
```

##### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service</i>

	<i>name</i>
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## 5.16. stopService

*Stop the Java Service Wrapper Windows service*

Directly stops the Windows service using the Java Service Wrapper software.

### Usage

```
stopService [-installroot <>] [-packagebase <>]
[-servicename <>]
```

### Options

Option	Description
installroot	<i>Java wrapper service wrapper home directory</i>
packagebase	<i>Java wrapper service wrapper package installation directory</i>
servicename	<i>Java wrapper service wrapper Windows service name</i>

## 6. Related Types

The following types are defined for use with JavaServiceWrapper.

### 6.1. JavaServiceWrapperSetting

#### 6.1.1. Overview

**JavaServiceWrapperSetting:** *Java Service Wrapper configuration setting*

This abstract Setting subtype is the supertype for all JavaServiceWrapper Setting types.

#### 6.1.2. Design

##### Super Type Setting

Role	<b>Abstract.</b> (Objects cannot be created.)
Instance Names	<b>Unique</b>

### 6.2. JavaServiceWrapperJavaHome

### 6.2.1. Overview

**JavaServiceWrapperJavaHome:** *Value of JAVA\_HOME for the Java Service Wrapper*

### 6.2.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.2.3. Constraints

#### 6.2.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.2.4. Attributes

#### 6.2.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaHome	settingValue

## 6.3. JavaServiceWrapperJavaMainClass

### 6.3.1. Overview

**JavaServiceWrapperJavaMainClass:** *Class implementing the Java Service Wrapper WrapperListener interface*

The main class to set with this Setting is most often one provided by the Tanuki software, such as "org.tanukisoftware.wrapper.WrapperSimpleApp", unless target Java software to manage has its own implementation.

See: [Java Service Wrapper - Integration Methods](#).

### 6.3.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.3.3. Constraints

#### 6.3.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.3.4. Attributes

#### 6.3.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaMainClass	settingValue

## 6.4. JavaServiceWrapperJavaClassPath

### 6.4.1. Overview

**JavaServiceWrapperJavaClassPath:** *A list of additional CLASSPATH elements for the Java Service Wrapper, comma separated*

The comma-separated java class paths for this Setting will be added to a default set which includes the necessary jars for the Tanuki service wrapper software.

### 6.4.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.4.3. Constraints

#### 6.4.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

## 6.4.4. Attributes

### 6.4.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaClassPath	settingValue

## 6.5. JavaServiceWrapperJavaAdditional

### 6.5.1. Overview

**JavaServiceWrapperJavaAdditional:** *A list of additional JAVA\_OPTS for the Java Service Wrapper, space separated*

The values are split at the space characters and generated into the wrapper.conf file as separate numbered properties.

See: [wrapper.java.additional<n> Property](#).

### 6.5.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.5.3. Constraints

#### 6.5.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

## 6.5.4. Attributes

### 6.5.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaAdditional	settingValue

## 6.6. JavaServiceWrapperJavaInitMemory

### 6.6.1. Overview

**JavaServiceWrapperJavaInitMemory:** *Initial Java heap size in MB for the Java Service Wrapper*

Used in the wrapper.conf configuration file.

See: [wrapper.java.initmemory Property](#).

### 6.6.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.6.3. Constraints

#### 6.6.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.6.4. Attributes

#### 6.6.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaInitMemory	settingValue

## 6.7. JavaServiceWrapperJavaMaxMemory

### 6.7.1. Overview

**JavaServiceWrapperJavaMaxMemory:** *Maximum Java heap size in MB for the Java Service Wrapper*

Used in the wrapper.conf configuration file.

See: [wrapper.java.maxmemory Property](#).

## 6.7.2. Design

### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

## 6.7.3. Constraints

### 6.7.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

## 6.7.4. Attributes

### 6.7.4.1. Exported Attributes

Name	Property
javaServiceWrapperJavaMaxMemory	settingValue

## 6.8. JavaServiceWrapperAppParameters

### 6.8.1. Overview

**JavaServiceWrapperAppParameters:** *Application commandline parameters for the Java Service Wrapper, space separated.*

The value should be a space separated list of parameters to pass to the main class defined with a [JavaServiceWrapperJavaMainClass](#) Setting object.

When the JavaServiceWrapperMainClass value is "org.tanukisoftware.wrapper.WrapperSimpleApp", then the value of this setting should be the Main class name of the target Java application, followed by the commandline parameters separated by spaces.

For example:

```
org.myapp.Main -param value
```

See: [Java Service Wrapper - Integration Methods](#).



See: [wrapper.java.mainclass Property](#).

## 6.8.2. Design

### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

## 6.8.3. Constraints

### 6.8.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

## 6.8.4. Attributes

### 6.8.4.1. Exported Attributes

Name	Property
javaServiceWrapperAppParameters	settingValue

## 6.9. JavaServiceWrapperConsoleTitle

### 6.9.1. Overview

**JavaServiceWrapperConsoleTitle:** *Title to use when running the Java Service Wrapper as a console*

If configured to run in a console window, this will be the title given to the window.

See: [wrapper.console.title Property](#).

## 6.9.2. Design

### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.9.3. Constraints

#### 6.9.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.9.4. Attributes

#### 6.9.4.1. Exported Attributes

Name	Property
javaServiceWrapperConsoleTitle	settingValue

## 6.10. JavaServiceWrapperNtServiceName

### 6.10.1. Overview

**JavaServiceWrapperNtServiceName:** *Identifying Name of the Java Service Wrapper Windows service*

This is the identifier used by Windows, and should be unique among all Windows Service. Make sure that all JavaServiceWrapper objects have different values for this setting.

See: [wrapper.ntservice.name Property](#).

### 6.10.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.10.3. Constraints

#### 6.10.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.10.4. Attributes

### 6.10.4.1. Exported Attributes

Name	Property	Description
javaServiceWrapperNtServ	settingValue	This attribute is used by the lifecycle commands of <a href="#">JavaServiceWrapper</a> to uniquely identify the Windows Service that is being managed.

## 6.11. JavaServiceWrapperNtServiceDisplayName

### 6.11.1. Overview

**JavaServiceWrapperNtServiceDisplayName:** *Displayed name of the Java Service Wrapper Windows service*

See: [wrapper.ntservice.displayname Property](#).

### 6.11.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.11.3. Constraints

#### 6.11.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.11.4. Attributes

#### 6.11.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServiceDisplayName	settingValue

## 6.12. JavaServiceWrapperNtServiceDescription

### 6.12.1. Overview

**JavaServiceWrapperNtServiceDescription:** *Description of the Java Service Wrapper Windows service*

See: [wrapper.ntservice.description Property](#).

### 6.12.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.12.3. Constraints

#### 6.12.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.12.4. Attributes

#### 6.12.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServiceDescription	settingValue

## 6.13. JavaServiceWrapperNtServiceStartType

### 6.13.1. Overview

**JavaServiceWrapperNtServiceStartType:** *Mode in which the Java Service Wrapper Windows service is installed. AUTO\_START or DEMAND\_START.*

See: [wrapper.ntservice.starttype Property](#).

### 6.13.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
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Instance Names	<b>Unique</b>
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### 6.13.3. Constraints

#### 6.13.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

#### 6.13.3.2. Allowed Property Values

Property	Allowed Values	Default	Enforced
settingValue	<ul style="list-style-type: none"> <li>• AUTO_START</li> <li>• DEMAND_START</li> </ul>	<ul style="list-style-type: none"> <li>• AUTO_START</li> </ul>	true

### 6.13.4. Attributes

#### 6.13.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServiceStartType	settingValue

## 6.14. JavaServiceWrapperNtServiceInteractive

### 6.14.1. Overview

**JavaServiceWrapperNtServiceInteractive:** *Whether or not to allow the Java Service Wrapper Windows service to interact with the desktop. (true/false)*

See: [wrapper.ntservice.interactive Property](#).

### 6.14.2. Design

#### Super Type

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.14.3. Constraints

### 6.14.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.14.3.2. Allowed Property Values

Property	Allowed Values	Default	Enforced
settingValue	<ul style="list-style-type: none"> <li>• false</li> <li>• true</li> </ul>	<ul style="list-style-type: none"> <li>• true</li> </ul>	true

### 6.14.4. Attributes

#### 6.14.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServiceInteractiv	settingValue

## 6.15. JavaServiceWrapperNtServiceAccount

### 6.15.1. Overview

**JavaServiceWrapperNtServiceAccount:** *Account to use with the Java Service Wrapper Windows service.*

**Note:**

The usage of this setting is not currently enabled in this implementation.

See: [wrapper.ntservice.account Property](#).

### 6.15.2. Design

**Super Type**

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.15.3. Constraints

### 6.15.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.15.4. Attributes

#### 6.15.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServiceAccount	settingValue

## 6.16. JavaServiceWrapperNtServicePassword

### 6.16.1. Overview

**JavaServiceWrapperNtServicePassword:** *Password to use with the Java Service Wrapper Windows service.*

**Note:**

The usage of this setting is not currently enabled in this implementation.

See: [wrapper.ntservice.password Property](#).

### 6.16.2. Design

**Super Type**

[JavaServiceWrapperSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.16.3. Constraints

#### 6.16.3.1. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

### 6.16.4. Attributes

#### 6.16.4.1. Exported Attributes

Name	Property
javaServiceWrapperNtServicePassword	settingValue