

# FireDaemonService

## Service integration of FireDaemon Technologie's Windows Service wrapper

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## 1. Overview

**FireDaemonService:** *Service integration of FireDaemon Technologie's Windows Service wrapper*

### 1.1. Intent

Provide windows service lifecycle management for a windows application using the [FireDaemon](#) Service Manager.

- Override standard Service commands and integrate them with the FireDaemon command line UI.
- The following Service commands are overridden:
  - Stop: Stops Windows Service if the exe exists as a running service.
  - Configure: Configures the exe as a FireDamon/Windows Service via FireDaemon UI.
  - Start: Starts the Windows Serevice if the exe exists as a running service.
- The following Service commands are added to the Deploy sequence:
  - Remove: Removes the exe integrated Windows Service if it exists via FireDaemon UI
  - Add: Adds the exe as a Windows Service if it does not exist via FireDaemon UI

### 1.2. Problem

FireDaemon provides the ability to run any windows exe as a windows service in the case where an application may have been built without windows service support. This module simplifies the requirement of integrating the exe into FireDaemon by abstracting and automating the windows service lifecycle operations with respect to the ControlTier Service layer. Thus the burden of this integration is then reduced to the command line requirements to run the exe and FireDaemon and ControlTier do the rest.

### 1.3. Discussion

Since [FireDaemon](#) is a commercial product, the licensing of FireDaemon is required on the windows machine(s) where this automation will occur. This module is agnostic to this licensing and is left as a platform responsibility.

### 1.4. Example

### 1.5. Check List

1. See [FireDaemon](#) regarding licensing.

## 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

- [FireDaemonExecutable](#) 1
- [FireDaemonServiceAccountName](#) 1
- [FireDaemonServiceAccountPassword](#) 1
- [FireDaemonServiceDescription](#) 1
- [FireDaemonServiceDisplayName](#) 1
- [FireDaemonServiceExecutable](#) 1
- [FireDaemonServiceName](#) 1
- [FireDaemonServiceParameters](#) 1

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

these dependencies are all FireDaemon related types.

### 3.2. Allowed Parent Dependencies

- Node
- Site

typical service which will allow Node and Site referrers.

## 4. Attributes

## 4.1. Exported Attributes

Name	Property	Description
installRoot	deployment-install-root	Installation root of the FireDaemon Service Manager, typically "C:\Program Files\FireDaemon".
workingDir	deployment-basedir	Working directory for the integrated FireDaemon service. This is typically the directory where the application exe resides.

## 4.2. Defaults for Imported Attributes

Name	Default	Description
fireDaemonExecutable	C:\Program Files\FireDaemon\FireDaemon.e	full path to the FireDaemon commandline exe, see installRoot regarding containing directory.
fireDaemonServiceExecutable		full path name the exe file to execute as a windows service (required).
fireDaemonServiceParameters		command line parameters to the fireDaemonServiceExecutable (optional).

## 5. Commands

View the available commands in the [User Reference](#).

## 6. Related Types

The following types are defined for use with FireDaemonService.

### 6.1. FireDaemonExecutable

#### 6.1.1. Overview

**FireDaemonExecutable:** *Location of the FireDaemon command-line executable*

#### 6.1.1.1. Intent

FireDaemonServiceSetting subtype to represent the fully qualified windows path to the FireDaemon.exe executable. When FireDaemon is installed, the default installation places the FireDaemon.exe in "C:\Program Files\FireDaemon"

#### 6.1.2. Design

##### Super Type

[FireDaemonServiceSetting](#)

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

#### 6.1.3. Constraints

##### 6.1.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

#### 6.1.4. Attributes

##### 6.1.4.1. Exported Attributes

Name	Property	Description
fireDaemonExecutable	settingValue	attribute to represent the full path to the FireDaemon.exe program.

## 6.2. FireDaemonServiceAccountName

### 6.2.1. Overview

**FireDaemonServiceAccountName:** *Account name to use with the FireDaemon Windows service.*

#### 6.2.1.1. Intent

FireDaemonServiceSetting subtype to represent the windows account to run the service as.

### 6.2.2. Design

#### Super Type

[FireDaemonServiceSetting](#)

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

### 6.2.3. Constraints

#### 6.2.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

### 6.2.4. Attributes

#### 6.2.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceAccount	settingValue	attribute to represent the effective windows user to run the service as.

## 6.3. FireDaemonServiceAccountPassword

### 6.3.1. Overview

**FireDaemonServiceAccountPassword:** *Account password to use with the FireDaemon Windows service.*

#### 6.3.1.1. Intent

FireDaemonServiceSetting subtype to represent the password of the windows account to run the service as.

### 6.3.2. Design

#### Super Type

### [FireDaemonServiceSetting](#)

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

#### 6.3.3. Constraints

##### 6.3.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

#### 6.3.4. Attributes

##### 6.3.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceAccount	settingValue	attribute to represent the password of the effective windows user to run the service.

### 6.4. FireDaemonServiceDescription

#### 6.4.1. Overview

**FireDaemonServiceDescription:** *Description of the FireDaemon Windows service*

##### 6.4.1.1. Intent

FireDaemonServiceSetting subtype to represent the description of the FireDaemon service that will show in the windows services management console.

#### 6.4.2. Design

##### Super Type

[FireDaemonServiceSetting](#)

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

### 6.4.3. Constraints

#### 6.4.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

### 6.4.4. Attributes

#### 6.4.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceDescrip	settingValue	attribute to represent the description of the integrated FireDaemon service.

## 6.5. FireDaemonServiceDisplayName

### 6.5.1. Overview

**FireDaemonServiceDisplayName:** *Displayed name of the FireDaemon Windows service*

#### 6.5.1.1. Intent

FireDaemonServiceSetting subtype to represent the display name of the FireDaemon service that will show in the windows services management console.

### 6.5.2. Design

#### Super Type

[FireDaemonServiceSetting](#)

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

### 6.5.3. Constraints

#### 6.5.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)



Restrict setting objects of this type to be referred to by a FireDaemonService object.

## 6.5.4. Attributes

### 6.5.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceDisplay	settingValue	attribute to represent the display name of the integrated FireDaemon service.

## 6.6. FireDaemonServiceExecutable

### 6.6.1. Overview

**FireDaemonServiceExecutable:** *Executable for FireDaemon to run as a Windows service*

#### 6.6.1.1. Intent

FireDaemonServiceSetting subtype to represent the fully qualified path to the FireDaemon command line executable (FireDaemon.exe). Typically, this would be in "\Program Files\FireDaemon" directory.

### 6.6.2. Design

#### Super Type

[FireDaemonServiceSetting](#)

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

### 6.6.3. Constraints

#### 6.6.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

### 6.6.4. Attributes

#### 6.6.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceExecuta	settingValue	attribute to represent the fully qualified path to the integrated FireDaemon service (exe file).

### 6.7. FireDaemonServiceName

#### 6.7.1. Overview

**FireDaemonServiceName:** *Name of the FireDaemon Windows service*

##### 6.7.1.1. Intent

FireDaemonServiceSetting subtype to represent the name of the FireDaemon service that will show in the windows services management console.

##### 6.7.2. Design

###### Super Type

[FireDaemonServiceSetting](#)

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

##### 6.7.3. Constraints

###### 6.7.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

#### 6.7.4. Attributes

##### 6.7.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceName	settingValue	attribute to represent the name of the integrated FireDaemon service.

## 6.8. FireDaemonServiceParameters

### 6.8.1. Overview

**FireDaemonServiceParameters:** *Parameters for the windows service via FireDaemon*

#### 6.8.1.1. Intent

FireDaemonServiceSetting subtype to represent optional parameters passed to the service executable.

### 6.8.2. Design

#### Super Type

[FireDaemonServiceSetting](#)

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

### 6.8.3. Constraints

#### 6.8.3.1. Allowed Parent Dependencies

- [FireDaemonService](#)

Restrict setting objects of this type to be referred to by a FireDaemonService object.

### 6.8.4. Attributes

#### 6.8.4.1. Exported Attributes

Name	Property	Description
fireDaemonServiceParamet	settingValue	attribute to represent the parameters passed to the service executable.

## 6.9. FireDaemonServiceSetting

### 6.9.1. Overview

**FireDaemonServiceSetting:** *FireDaemon configuration setting*

### 6.9.1.1. Intent

Supertype to encapsulate related subtypes to the support of FireDaemon.

### 6.9.2. Design

#### Super Type Setting

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