Edition 3.5.0



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1. About

AxoNet Plug-Ins for InstallAware is a Freeware Add-On package for InstallAware 6.0 - X 5. This software is provided as is, use on your own risk. Liability for any damage due to faulty software or data is impossible. The plug-ins have been developed with CodeGear RAD Studio 2007 (Delphi) and tested with InstallAware 18 and X4.

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2. Upgrade Code - Plug-In

This plug-in detects a product based on the upgrade code. It returns the product code if the upgrade code is found. This is useful if you upgraded from InstallShield Express to InstallAware. InstallShield Express requires a change of the product code for every new version of your product and keeps the upgrade code always the same.

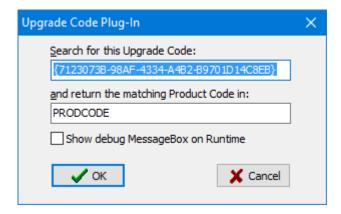
Example

Product 1.0 Product Code A, Upgrade Code U
Product 1.1 Product Code B, Upgrade Code U
Product 1.2 Product Code C, Upgrade Code U

InstallAware never changes the product code; instead the revision code is changed. If a new version is installed, a previous version is detected by the same product code and removed. If you have previously used InstallShield Express for your product, you do not know which product code is present on the target machine. Use this plug-in to detect and uninstall a previous version.

2.1. Usage

Go to the "Check Application Pre-Requisites" section. Define a variable which will store the product code. Add this plug-in and specify your InstallShield Express upgrade code (you may also use a variable which holds the GUID):



Check if a product code is returned and uninstall the old product:

```
[DEFINE REGION: Check Application Pre-Requisites]
...

Set Variable PRODCODE to

Get Product Code from Upgrade Code {7123073B-98AF-4334-A4B2-B9701D14C8EB} into PRODCODE if Variable PRODCODE not Equals
    Install/Remove MSI Package $PRODCODE$[REMOVE=ALL]
end
```



3. Volume Info - Plug-In

This plug-in retrieves information about a logical drive. You can specify a single drive letter, a root directory, a full path name or an UNC share name.

Examples

С

C:\

C:\path\file

\\server\share

The plug-in returns the volume name, serial number, file system type and the UNC path name.

The file system type is one of

FAT

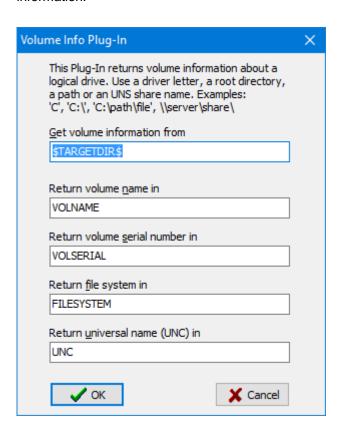
FAT32

NTFS

CDFS

3.1. Usage

Add the plug-in to your script where you need to retrieve volume information. Define variables to hold the retrieved information:





Set Variable VOLNAME to
Set Variable VOLSERIAL to
Set Variable FILESYSTEM to
Set Variable UNC to
Get Volume Information from '\$TARGETDIR\$'

3.2. Note

If the volume is not a network share, UNC is always empty.



4. Windows Firewall - Plug-In

This plug-in configures the Windows Firewall. You can add or delete a firewall exception based on an executable program or a port number and protocol.

Example MSI code for adding exception rules

To successfully add a program to the firewall list, the program must exist! Therefore you should always place the "Configure Windows Firewall" plug-in after the Apply Install command in your MSI code:

```
if Variable ADVERTISE Equals TRUE
   Apply Advertised (get result into variable SUCCESS)
   else
   Apply Install (get result into variable SUCCESS)
end

Configure Windows Firewall - add allowed program $TARGETDIR$\NOTEPAD.EXE
Configure Windows Firewall - add port opening 1234 Both
[compiler end]
Set Variable PROGRESS to 100
```

Example MSI code for deleting exception rules

This is typically done on uninstall. Place the "Configure Windows Firewall" plug-in after the TO-DO comment.

```
Comment: Modify Target System

[DEFINE REGION: Perform Uninstallation]

if Variable REMOVE Equals TRUE

Comment: Uninstall product

Comment: TO-DO: Insert any additional uninstall commands here

Configure Windows Firewall - delete allowed program $TARGETDIR$\NOTEPAD.EXE

Configure Windows Firewall - delete port opening 1234 Both
```

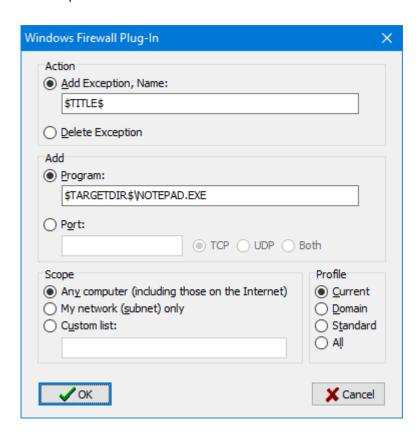
```
Apply Uninstall (get result into variable SUCCESS) Set Variable PROGRESS to 100
```



4.1. Usage

4.1.1. Adding a program

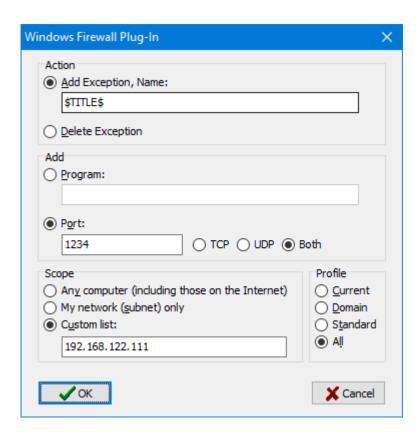
To add a program, enter an exception name and the full program path. You can use variables for both fields. The exception name is displayed in the Windows Firewall applet after installation. Optionally you may modify the scope and the profile:





4.1.2. Adding a port and protocol

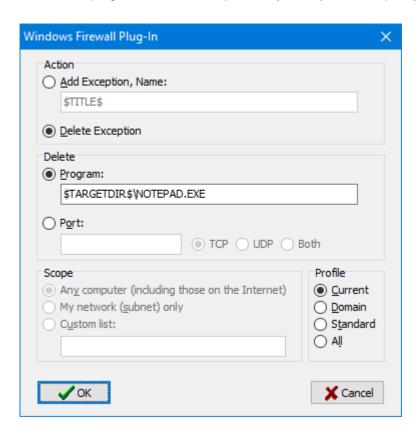
To add a port number and protocol you have to enter an exception name, the port number and the protocol. If you select "Both", two entries are created, one for UDP and one for TCP:





4.1.3. Deleting a program

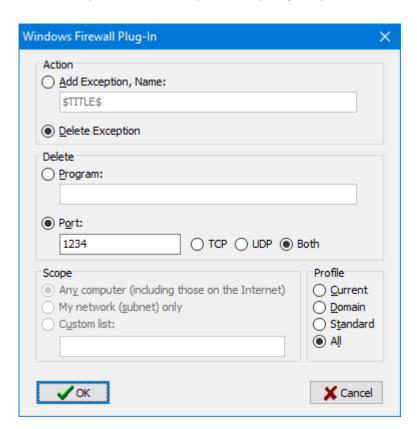
To delete a program from the exception list you only need to specify the full program path:





4.1.4. Deleting a port

To delete a port from the exception list, specify the port number and protocol:





4.2. Requirements

This plug-in requires Windows XP SP2 or later.

4.3. Release notes

On Windows Vista and Windows 7, opening a port exception may not work. Server 2008 and 2008 R2 and Windows 8/10 are not affected.

We recommend to use the new Windows Advanced Firewall Plug-In for Windows Vista and later!



5. Windows Advanced Firewall - Plug-In (New in 3.0)

Apply Advertised (get result into variable SUCCESS)

This plug-in configures the Windows Advanced Firewall in Windows Vista/Server 2008 and later. You can add or delete a firewall exception based on an executable program, a port number or a protocol.

Example MSI code for adding exception rules

if Variable ADVERTISE Equals TRUE

To successfully add a program to the firewall list, the program must exist! Therefore, you should always place the "Configure Windows Advanced Firewall" plug-in after the Apply Install command in your MSI code:

```
else
Apply Install (get result into variable SUCCESS)
end

Configure Windows Advanced Firewall - add rule name="Block Outbound Port 80" direction=out action=block localport=80 protocol=tcp
Configure Windows Advanced Firewall - add rule name="Block WINS" direction=in action=block remoteip=wins
Configure Windows Advanced Firewall - add rule name="Allow Messenger" direction=in
```

Set Variable PROGRESS to 100

endl

Example MSI code for deleting exception rules

This is typically done on uninstall. Place the "Configure Windows Firewall" plug-in after the TO-DO comment.

action=allow program="c:\program files\messenger\msmsgs.exe" remoteip=localsubnet

```
Comment: Modify Target System

[DEFINE REGION: Perform Uninstallation]

if Variable REMOVE Equals TRUE

Comment: Uninstall product

Comment: TO-DO: Insert any additional uninstall commands here

Configure Windows Advanced Firewall - delete rule name="Block Outbound Port 80" direction=out localport=80 protocol=tcp

Configure Windows Advanced Firewall - delete rule name="Block WINS" direction=in remoteip=wins

Configure Windows Advanced Firewall - delete rule name="Allow Messenger" direction=in
```

```
Apply Uninstall (get result into variable SUCCESS) Set Variable PROGRESS to 100
```

program="c:\program files\messenger\msmsgs.exe" remoteip=localsubnet



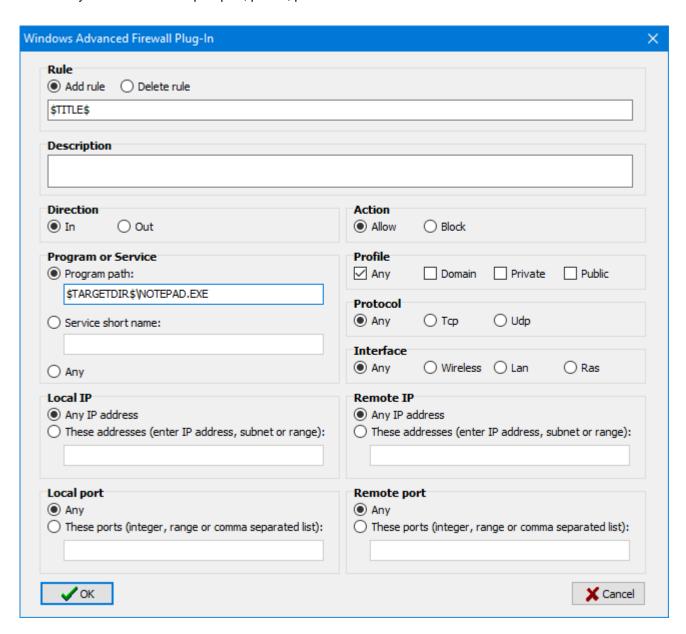
5.1. Usage

5.2. Adding rules

Every rule requires a name. The name should be unique, and must not be "all" if you add a new rule.

5.2.1. Adding a program

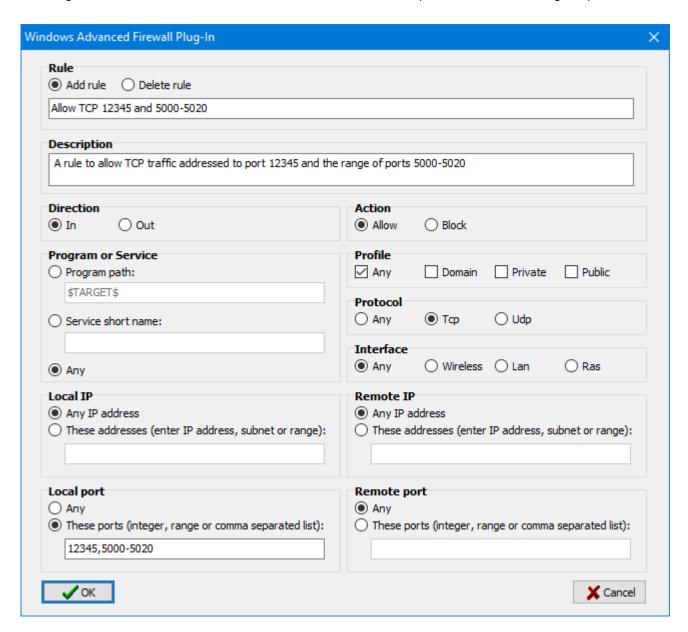
To add a program, enter an exception name and the full program path. You can use variables for both fields. The exception name is displayed in the Windows Firewall applet after installation. Optionally you may add a description and modify local and remote ip or port, profile, protocol and interface:





5.2.2. Adding a port and protocol

To add a port number and protocol you have to enter an exception name, the port number and the protocol. The following command creates a rule to allow TCP traffic addressed to port 12345 and the range of ports 5000-5020:

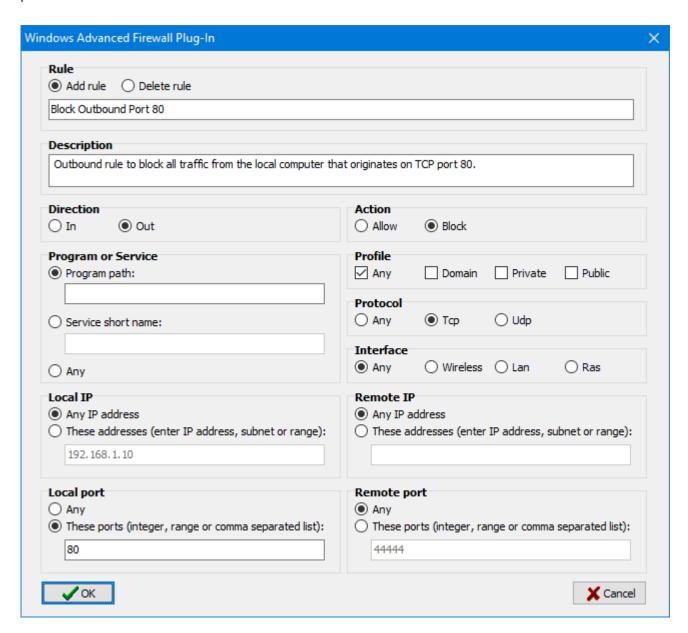


Note: a local or remote port requires protocol TCP or UDP, you can't use any here!



5.2.3. Blocking outbound traffic on port 80

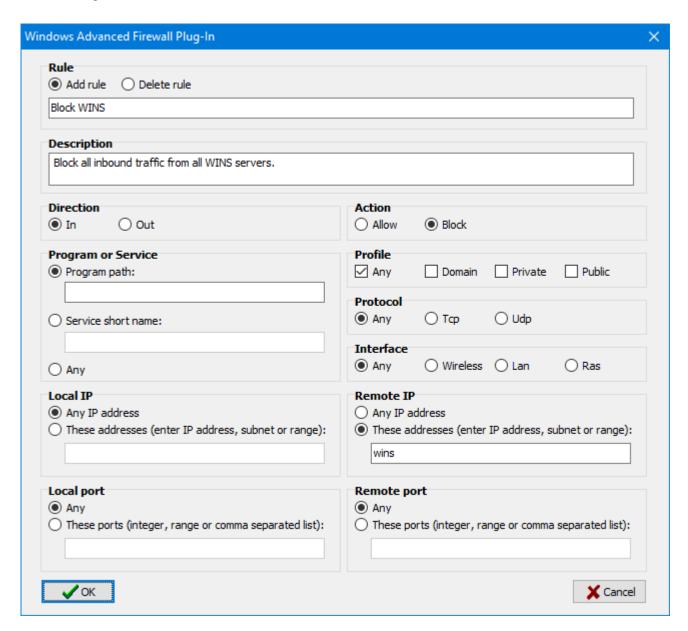
The following command creates an outbound rule to block all traffic from the local computer that originates on TCP port 80:





5.2.4. Block inbound traffic from all WINS servers

The following command creates a rule that blocks all inbound traffic from all WINS servers:



5.2.5. Remote IP magic names

You can use some magic names for remote IP:

- any: Matches any IP address.
- localsubnet: Matches any IP address that is on the same IP subnet as the local computer.
- **dns|dhcp|wins|defaultgateway:** Matches the IP address of any computer that is configured as the identified server type on the local computer.

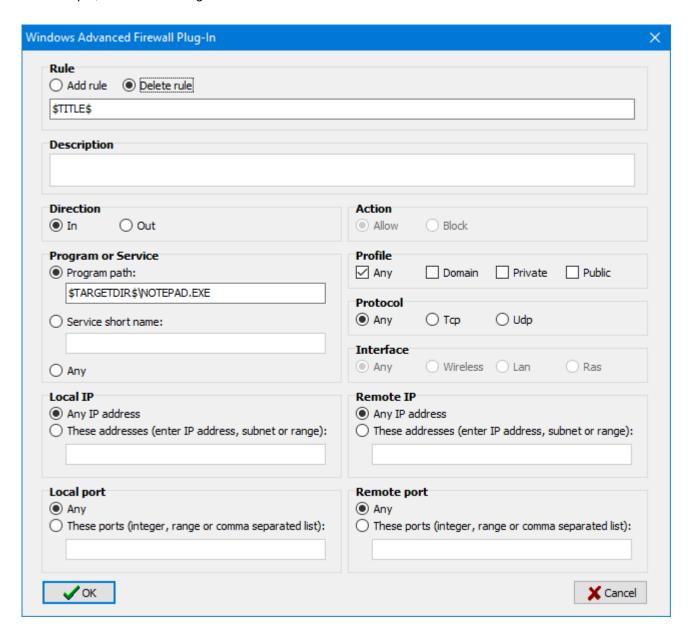


5.3. Deleting rules

If you delete a rule, you can use the name "all" to specifies that all rules matching the criteria in the other parameters are deleted. If no other parameters are included, **then all connection security rules are deleted!**

5.3.1. Deleting a program

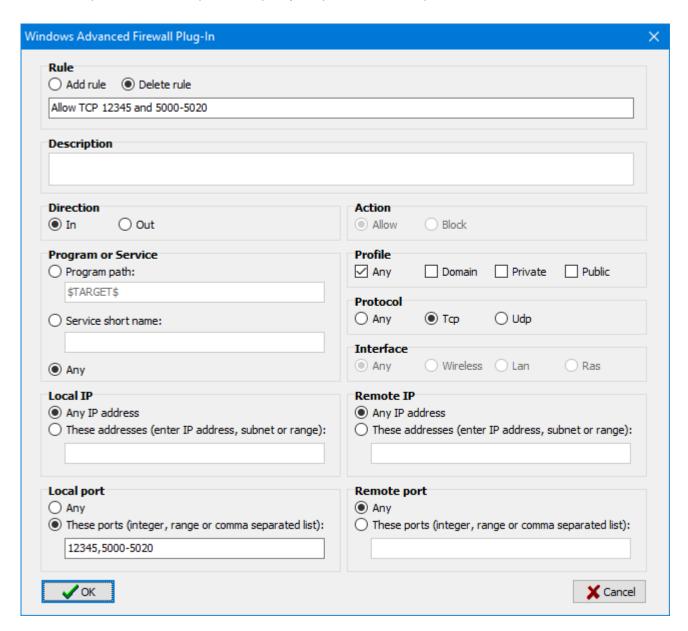
To delete a program from the exception list, copy the rule and change 'add' to 'delete'. To remove the program from our example, use these settings:





5.3.2. Deleting a port

To delete a port from the exception list, specify the port number and protocol:





On delete, you can use the special rule name "all" to remove all rules matching the criteria in the other parameters:

Add rule Delete rule	
escription	
irection	Action
In Out	Allow Block
rogram or Service	Profile Control Control
Program path:	Any Domain Private Public
\$TARGET\$	Protocol
Service short name:	O Any ● Tcp O Udp
	Interface
) Any	Any Wireless Lan Ras
ocal IP	Remote IP
Any IP address	Any IP address
These addresses (enter IP address, subnet or range):	These addresses (enter IP address, subnet or range):
ocal port	Remote port
Any	Any
These ports (integer, range or comma separated list):	These ports (integer, range or comma separated list):
12345,5000-5020	



5.4. Requirements

This plug-in requires Windows Vista or Server 2008 and later. You should wrap the "Configure Windows Advanced Firewall" plug-in command in an "if ... end" section if you create setups for older operating systems.

5.5. Release notes

The add command is cumulative. You can add multiple rules with the same name! Any existing rule is not updated, instead an additional rule is created. This may create unwanted results if you uninstall a previous version but do not remove the existing rules.

To prevent rule duplication, place a delete rule command in the uninstall section

```
Comment: Modify Target System

[DEFINE REGION: Perform Uninstallation]

if Variable REMOVE Equals TRUE

Comment: Uninstall product

Comment: TO-DO: Insert any additional uninstall commands here

Configure Windows Advanced Firewall - delete rule name="Block Outbound Port 80" direction=out localport=80 protocol=tcp

Configure Windows Advanced Firewall - delete rule name="Block WINS" direction=in remoteip=wins

Configure Windows Advanced Firewall - delete rule name="Allow Messenger" direction=in program="c:\program files\messenger\msmsgs.exe" remoteip=localsubnet

Apply Uninstall (get result into variable SUCCESS)
```

and in the Pre-Requisites section before Install/Remove of your old package:

```
[compiler if Variable BUILDMODE not Equals PATCH]
if Variable NEEDSUPGRADE Equals TRUE
   Set Variable REMOVEOLD to
   Set Variable ERROROLD to
```

Set Variable PROGRESS to 100

```
Configure Windows Advanced Firewall - delete rule name="Block Outbound Port 80" direction=out localport=80 protocol=tcp

Configure Windows Advanced Firewall - delete rule name="Block WINS" direction=in remoteip=wins

Configure Windows Advanced Firewall - delete rule name="Allow Messenger" direction=in program="c:\program files\messenger\msmsgs.exe" remoteip=localsubnet
```

Install/Remove MSI Package \$PRODUCTCODE\$[REMOVE=ALL] (get result into variable REMOVEOLD)



6. Disk Technology - Plug-In

This plug-in retrieves information about a disk drive. You can specify a drive letter or a directory or a variable like \$TARGETDIR\$

Examples

C:\

C:\path\file

\$TARGETDIR\$

The plug-in returns the disk technology. This is one of

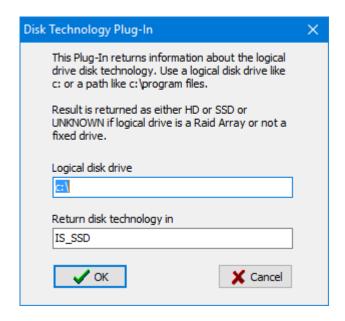
HD if disk is a hard disk SSD if disk is a solid-state disk

UNKNOWN if disk is a virtual disk, a raid array or a storage pool, a mapped network drive, a flash drive

or if detection is simply not possible

6.1. Usage

Add the plug-in to your script where you need to retrieve disk technology. Define a variable to hold the retrieved information:



Set Variable IS_SSD to
Detect Disk Technology from 'c:\' (get result into variable IS SSD)

6.2. Requirements

This plug-in requires elevation (admin rights) and Windows Vista and later.

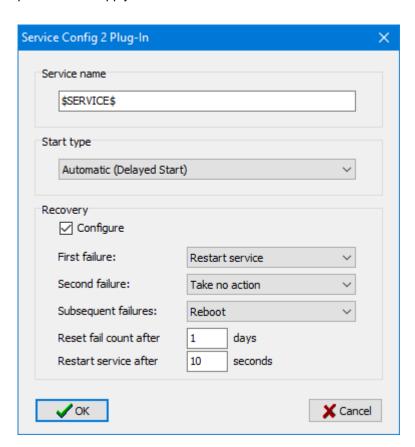


7. Service Config 2 – Plug-In

This plug-in configures the start type and recovery options of an already installed Windows Service.

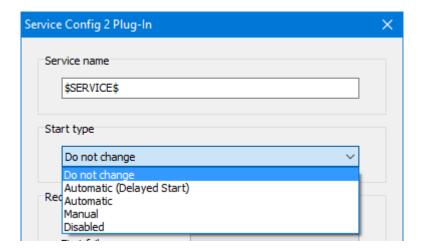
7.1. Usage

Add the plug-in to your script where you need to configure your service. The service must already exist, so a good place is after Apply Install.



7.2. Start type

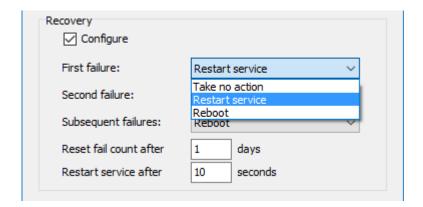
Select one of the four possible settings or keep the current setting:





7.3. Service Recovery

Enable "Configure" to set recovery actions for your service. You can set an action for the first, second and all subsequent failures:



Possible actions are: No action, service restart or reboot of the machine.

7.4. Example

You can configure the start mode depending on the disk technology. On a traditional, slow hard disk, you may want to start the service with a delay:

```
if Variable IS_SSD Equals SSD
   Configure Windows Service - LightsOut2Svc, Start type = Automatic
else
   Configure Windows Service - LightsOut2Svc, Start type = Automatic (Delayed Start)
end
```

To restart a failed service, configure a restart:

```
Set Variable SERVICE to LightsOut2Svc

Configure Windows Service - $SERVICE$, First Failure = Restart service, Second Failure = Restart service, Subsequent Failures = Restart service, Restart after 10 seconds, Reset failures after 1 days
```

7.5. Requirements

This plug-in requires elevation (admin rights) and Windows Vista and later.



8. Revision history

Version 3.5.0:

- Added Disk Technology Plug-In
- Added Service Config 2 Plug-In

Version 3.0.1

• Allow variables in rule name for Advanced Firewall – Plug-In

Version 3.0

- Added new Windows Advanced Firewall Plug-In
- Fixed an uninstall bug in Windows Firewall Plug-In

Version 2.2

• Fixed UNC path problem in Firewall – Plug-In

Version 2.1

- Added UNC path to Volume Info Plug-In
- Fixed x64 problem in Upgrade Code Plug-In

Version 2.0

• Added Windows Firewall - Plug-In

Version 1.0

• First public release