



EMC® Watch4net®

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Smarts Event Listener Administration Guide

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EMC²

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Preface

Purpose

The *EMC SMARTS Event Listener* is a *Processing Element* designed to register with the *EMC SMARTS SAM* in order to be notified whenever new notifications are received. It is fully compatible with versions 6.x, 7.x and 8.x versions of the *EMC SMARTS SAM*.

Intended Audience

This guide is intended for advanced *APG* Administrators that have a good knowledge of the *APG Event Processing* framework.

Prerequisites

The *EMC SMARTS Event Listener* can only be used within an instance of *Event Processing Manager*. Thus, to be able to use this *Processing Element*, you must have a working *Event Processing Manager* ready.

The *EMC SMARTS Event Listener* is designed to work hand in hand with the *Active Cache*. You will need a working *Active Cache* installation in order for the *EMC SMARTS Event Listener* to work

properly. Please refer to the *Active Cache* documentation for more information on this *Processing Element*.

Document Organization

1. <i>Event Processing Manager Configuration</i>	How to configure the <i>Event Processing Manager</i> to include a <i>EMC SMARTS Event Listener</i> .
2. <i>EMC SMARTS Event Listener Configuration</i>	How to configure the <i>EMC SMARTS Event Listener</i> itself.

Where to get help

EMC support, product, and licensing information can be obtained as follows:

PRODUCT INFORMATION - For documentation, release notes, software updates, or information about EMC products, go to EMC Online Support at:

<https://support.emc.com>

TECHNICAL SUPPORT - Go to EMC Online Support and click Service Center. You will see several options for contacting EMC Technical Support. Note that to open a service request, you must have a valid support agreement. Contact your EMC sales representative for details about obtaining a valid support agreement or with questions about your account.

1

Event Processing Manager Configuration

To use a *EMC SMARTS Event Listener* instance, please follow this *Event Processing Manager* configuration file example:

```
<!-- a database writer -->
<processing-element name="DW-L" config="..." command="AC" data="AC[command]" />

<!-- the active cache -->
<processing-element name="AC" config="..." data="DW-L" command="DW-L" />

<!-- the EMC SMARTS Event Listener -->
<processing-element name="EMC-SMARTS"
config="EMC-Smarts-Listener/Default/conf/smarts-listener.xml" data="AC" />
```

The *EMC SMARTS Event Listener* usually forwards events to an *Active Cache* which, in turns, sends these events to one or more *database writers*. Since it exclusively listens to events coming from the *EMC SMARTS SAM*, it accepts no input streams. The following output stream is supported:

- `data (out)`: this is the event output, where the *EMC SMARTS Event Listener* sends the events (usually connected to the *Active Cache*'s input data stream).

2

EMC SMARTS Event Listener Configuration

The following example is the default *EMC SMARTS Event Listener* configuration:

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration xmlns="http://www.watch4net.com/Events/SmartsEventListener"
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
               xsi:schemaLocation="http://www.watch4net.com/Events/SmartsEventListener_smarts-
listener.xsd">

  <resync-period>12h</resync-period>
  <connection-check-period>30s</connection-check-period>
  <connection-timeout>60s</connection-timeout>
  <idle-timeout>5m</idle-timeout>
  <source id="INCHARGE-SA">
    <primary id="primary">
      <!-- Use the 4 following tags (broker-*) if you are connecting to the broker as your
entry point -->
      <broker-hostname>localhost</broker-hostname>
      <broker-port>426</broker-port>
```

```
<!-- Uncomment these lines if broker authentication is required -->
<!-- <broker-username></broker-username> -->
<!-- <broker-password></broker-password> -->

<!-- Use the following 2 tags if you are directly connecting to the domain as your entry
point -->
<!-- <hostname>localhost</hostname> -->
<!-- <port>426</port> -->

<domain-name>INCHARGE-SA</domain-name>
<username>admin</username>
<password>changeme</password>
<notification-list>ICS_NL-Default</notification-list>
</primary>
<!--
<failover id="failover1">
  <broker-hostname>localhost</broker-hostname>
  <broker-port>426</broker-port>
  <domain-name>INCHARGE-SA</domain-name>
  <username>admin</username>
  <password>changeme</password>
</failover>
-->
</source>
</configuration>
```

- **resync-period** Period at which the *EMC SMARTS Event Listener* will initiate a resync with the *EMC SMARTS SAM*. A resync operation synchronizes data between the *EMC SMARTS Event Listener* and the notifications that are currently displayed in the *EMC SMARTS SAM* console. Setting this value to 0 will disable automatic resynchronization.
- **connection-check-period** Period at which the *EMC SMARTS Event Listener* will check to make sure that its connection with the *EMC SMARTS SAM* is still valid.
- **connection-timeout** Timeout value when trying to establish a connection with the *EMC SMARTS SAM*.
- **idle-timeout** If no new notification is received from the *EMC SMARTS SAM* after that amount of time, the *EMC SMARTS Event Listener* will disconnect then reconnect to the *EMC SMARTS*

SAM. This checkup is performed at the same time as the connection check. Therefore, the value of this parameter should always be equal or greater than the connection-check-period.

- **source** A source represents a *EMC SMARTS SAM* instance to monitor. Each source can be composed of a primary source and multiple failover sources, if needed. This is useful for specifying backup *EMC SMARTS SAMs* in case the primary is down.
 - **primary/failover** Determines if the source is the primary source or just a failover source.
 - * **broker-hostname** The broker hostname of the *EMC SMARTS SAM* if connecting to the broker as your entry point.
 - * **broker-port** The port on which the *EMC SMARTS SAM's* broker is accepting connections.
 - * **broker-username** (optional) The username to use to establish the connection with the broker. This password can be in the encrypted form, generated by the crypt-password script. If no authentication is required, omit this element.
 - * **broker-password** (optional) The password to use to establish the connection with the broker. This password can be in the encrypted form, generated by the crypt-password script. If no authentication is required, omit this element.
 - * **hostname** The hostname of the *EMC SMARTS SAM* if you need to directly connect to the manager.
 - * **port** The port on which the *EMC SMARTS SAM* is accepting connections.
 - * **domain-name** The name of the domain from which notifications will be fetched.
 - * **username** The username used to connect to the domain manager.
 - * **password** The password used to connect to the domain manager. This password can be in the encrypted form, generated by the crypt-password script.
 - * **notification-list** This tag can be repeated as many times as necessary (one line per monitored notification list). It must be present at least once for primary sources, but it is optional for failover sources. If it is omitted for a failover source, the notification lists of the corresponding primary source will be used instead.

Multiple Sources The *EMC SMARTS Event Listener* can be configured to listen to many sources simultaneously. This is done by adding more *source* tags in the configuration file. Each source must have its primary source and can have one or more failover sources (see example below).

```
...
<source id="Source-1">
```

```
<primary>
...
</primary>
<failover>
...
</failover>
</source>
<source id="Source-2">
  <primary>
    ...
  </primary>
  <failover>
    ...
  </failover>
  <failover>
    ...
  </failover>
</source>
...
```