

# Configuration Guide

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## Logger SmartConnector™ for HP Network Node Manager i SNMP

October 12, 2012



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The network information used in the examples in this document (including IP addresses and hostnames) is for illustration purposes only.

This document is confidential.

## Revision History

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Date	Description
10/12/2012	First release of Logger SmartConnector documentation supporting Logger Downloadable Version.

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## Logger SmartConnector for HP Network Node Manager i SNMP

This guide provides information for installing the SmartConnector for HP NNMi SNMP and configuring the device for event collection. This connector supports HP Network Node Manager i versions 9.10 and 9.20. Third-party traps are supported for limited parsing, and you must choose "Both" to receive both Management events and Third Party traps. Refer to the *HP Network Node Manager i Software-HP ArcSight Logger Integration Guide* for details on forwarding third party SNMP Traps to another application. The supported SNMP traps are listed in "Supported SNMP Traps".

ArcSight Logger is a log management solution optimized for extremely high event throughput, efficient long-term storage, and rapid data analysis. This SmartConnector supports Logger 5.3 Downloadable Version.

### Product Overview

HP Network Node Manager i Software (NNMi) 9.10 and 9.20 and the HP NNMi Smart Plug-in modules let you minimize network downtime and maximize your revenues. By using continuous spiral discovery, you get fast, always-up-to-date network topology and root cause analysis (RCA), even in dynamically changing environments. In addition, multi-tenancy features, including tenant user-level map and incident security, let you manage more customers, departments, or sites from one console.

### Configure NNMi for SmartConnector Event Collection

See the *HP Network Node Manager i Software-HP ArcSight Logger Integration Guide* for details on forwarding SNMP traps.

### Using Zebedee with SNMP

ArcSight SNMP-based SmartConnectors support Zebedee, an open source UDP tunnel program that provides optional compression and encryption. To configure Zebedee, follow these steps:

- 1 Use Zebedee to create public and private keys on each of the devices. Create client and server `.zbd` configuration files as described in the Zebedee documentation to refer to the keys.
- 2 Install the SmartConnector. Start Zebedee in listen server mode on the SmartConnector host, with the command:

```
zebedee -U -f server.zbd -s
```

This prepares Zebedee to listen for connectionless UDP traffic.

- 3 The client machine is the host that is to send events to the SmartConnector. Run Zebedee on the client with the command:

```
zebedee -U -f client.zbd 162:agent_hostname:162
```

This prepares Zebedee to send UDP traffic to the SmartConnector host, `agent_hostname`.



Unless the device address is included in the SNMP trap, events do not record the host that actually sent the SNMP trap. Using Zebddee makes all SNMP traffic to the SmartConnector appear to come from `localhost`.

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## Install the SmartConnector



ArcSight and HP recommend the SmartConnector for HP Network Node Manager i SNMP be installed on the same system as NNMi.

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Before you install any SmartConnectors, make sure that the ArcSight Logger product with which the connectors will communicate has already been installed correctly.

For complete product information, read the *ArcSight Logger Administrator's Guide* before installing a new SmartConnector. If you are adding a connector to the Connector Appliance, see the *ArcSight Connector Appliance Administrator's Guide* for instructions, and start the installation procedure at step 3.

Before installing the SmartConnector, be sure the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

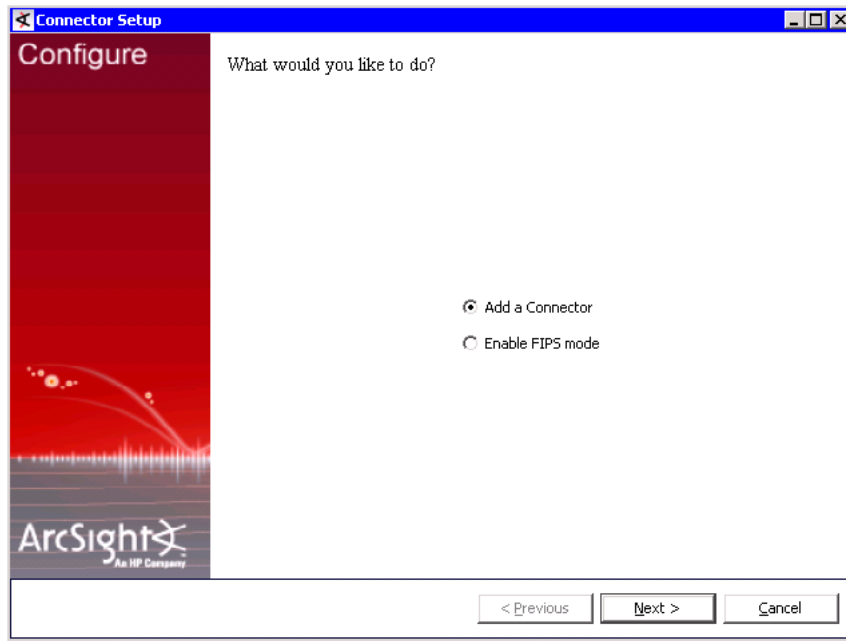
Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms; for the complete list, see the *SmartConnector Product and Platform Support* document, available from the HP SSO and Protect 724 sites.

- 1 Download the SmartConnector executable for your operating system from the HP SSO site.
- 2 Start the SmartConnector Installer by running the executable.

Follow the installation wizard through the following folder selection tasks and installation of the core connector software:

Introduction  
Choose Install Folder  
Choose Install Set  
Choose Shortcut Folder  
Pre-Installation Summary  
Installing...

- 3 When the installation of SmartConnector core component software is finished, the following window is displayed.



4 Select **Add a Connector** and click **Next**.

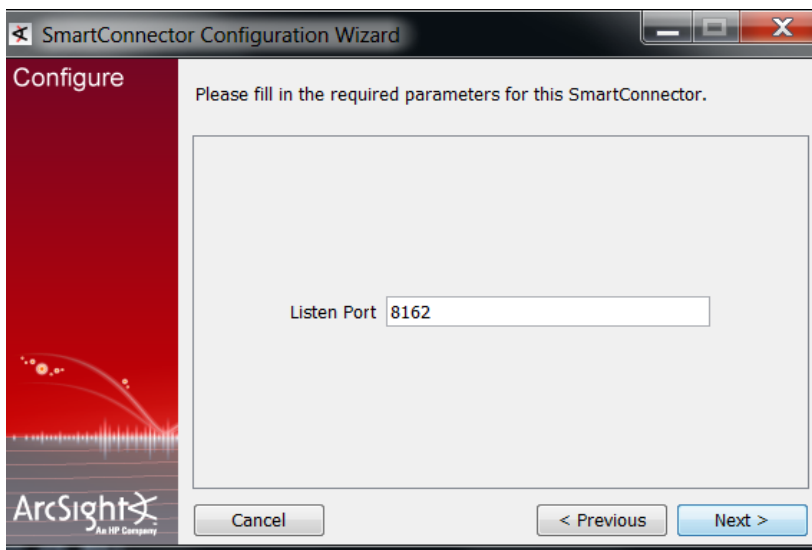
5 Select **HP Network Node Manager i SNMP** and click **Next**.

Depending upon your platform, choose between the required connector types.

For **Windows** platforms, **Syslog Daemon** is the only available option.

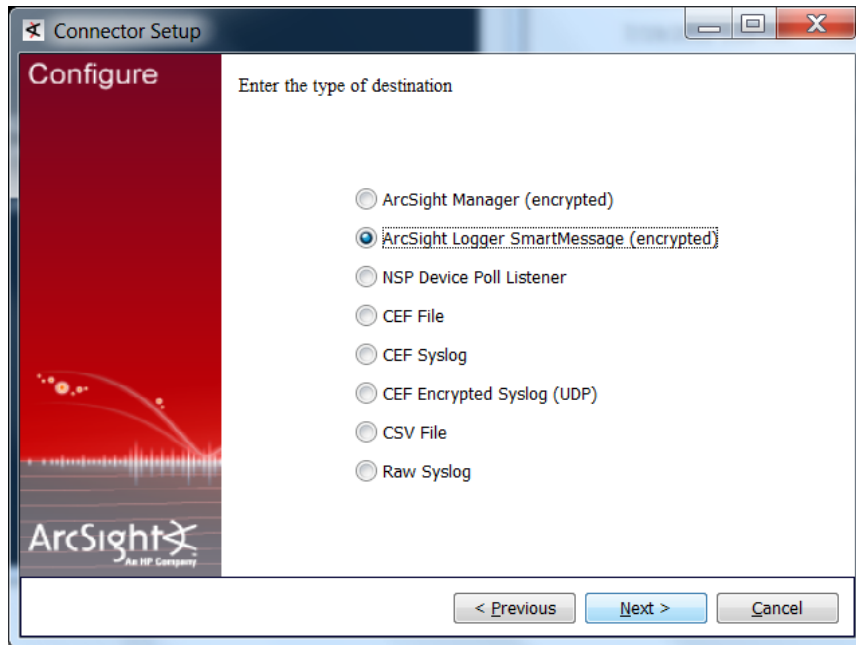
For **Linux** platforms, select **Syslog Daemon**, **Syslog File**, or **Syslog Pipe**.

6 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

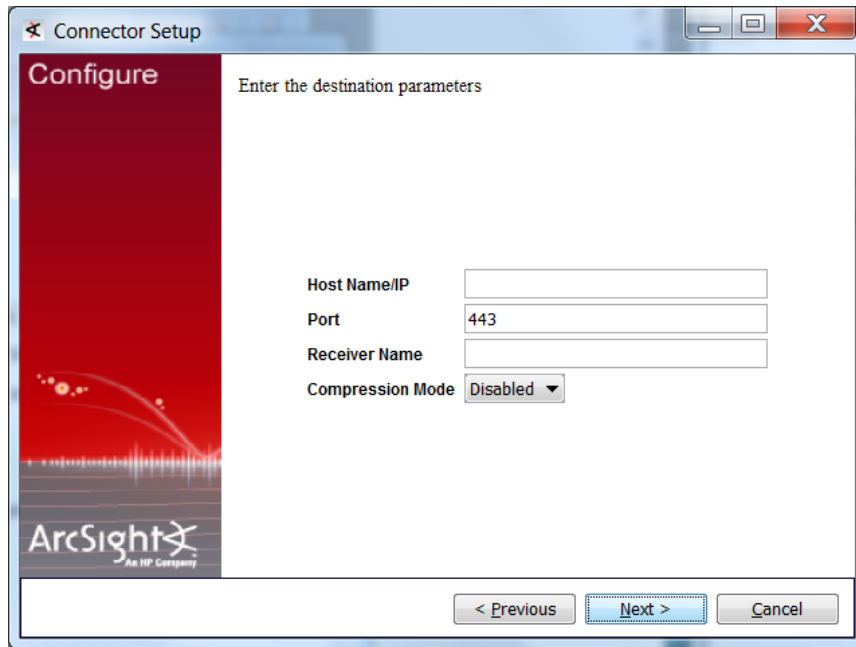


Parameter	Description
Listen Port	The port to which the connector listens for SNMP traps.

- 7 When the destination window is displayed, make sure **ArcSight Logger SmartMessage (encrypted)** is selected and click **Next**. For information about the other destinations listed, see the *ArcSight SmartConnector User's Guide* as well as the Administrator's Guide for your ArcSight product.

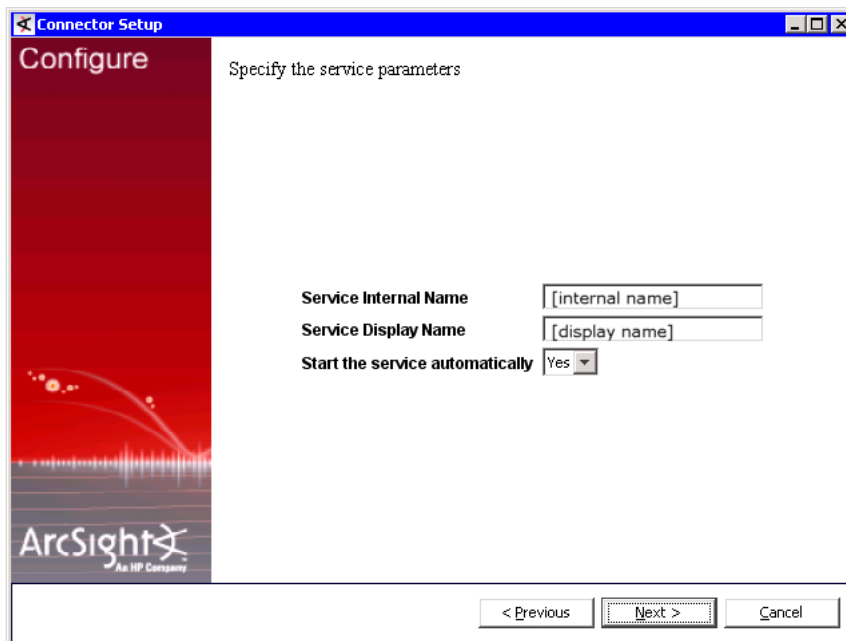


- 8 Before proceeding with step 9, set up the **SmartMessage Receiver** from Logger (see the *ArcSight Logger Administrator's Guide* for detailed instructions).
- 9 From the Configuration Wizard, enter the Logger **Host Name/IP** and **Port**. Make sure the port number is the same that you used to set up your Logger. For the **Receiver Name**, enter the Receiver name you created in the previous step so that Logger can listen to events from this SmartConnector. Click **Next**.



The image shows a Windows-style window titled "Connector Setup" with a "Configure" tab. The window has a red sidebar on the left with the ArcSight logo and the text "An HP Company". The main area is titled "Enter the destination parameters" and contains four fields: "Host Name/IP" (empty), "Port" (443), "Receiver Name" (empty), and "Compression Mode" (a dropdown menu set to "Disabled"). At the bottom, there are three buttons: "< Previous", "Next >", and "Cancel".

- 10 Enter a name for the SmartConnector and provide other information identifying the connector's use in your environment. Click **Next**; the connector starts the registration process.
- 11 The **Add connector Summary** is displayed; review and click **Next**. If the summary is incorrect, click **Previous** to make changes.
- 12 The wizard now prompts you to choose whether you want to run the SmartConnector as a stand-alone process or as a service. If you choose to run the connector as a stand-alone process, skip step 12. If you choose to run the connector as a service, the wizard prompts you to define service parameters.



The image shows a Windows-style window titled "Connector Setup" with a "Configure" tab. The window has a red sidebar on the left with the ArcSight logo and the text "An HP Company". The main area is titled "Specify the service parameters" and contains three fields: "Service Internal Name" (with placeholder text "[internal name]"), "Service Display Name" (with placeholder text "[display name]"), and "Start the service automatically" (a dropdown menu set to "Yes"). At the bottom, there are three buttons: "< Previous", "Next >", and "Cancel".

**13** Enter the service parameters and click **Next**. The **Install Service Summary** window is displayed.

**14** Click **Next**.

To complete the installation, choose **Exit** and click **Next**.

For some SmartConnectors, a system restart is required before the configuration settings you made take effect. If a **System Restart** window is displayed, read the information and initiate the system restart operation.



Save any work on your computer or desktop and shut down any other running applications (including the ArcSight Console, if it is running), then shut down the system.

## Supported SNMP Traps

The HP Northbound MIB is auto-loaded into NNMI. This release of the SmartConnector supports management events forwarded from NNMI.

The following is a list of SNMPv2 traps supported:

- nnmiMgmtEvAddressNotResponding
- nnmiMgmtEvAggregatorDegraded
- nnmiMgmtEvAggregatorDown
- nnmiMgmtEvAggregatorLinkDegraded
- nnmiMgmtEvAggregatorLinkDown
- nnmiMgmtEvBufferOutOfRangeOrMalfunctioning
- nnmiMgmtEvConnectionDown
- nnmiMgmtEvConnectionPartiallyUnresponsive
- nnmiMgmtEvCpuOutOfRangeOrMalfunctioning
- nnmiMgmtEvCustomPollCritical
- nnmiMgmtEvCustomPollMajor
- nnmiMgmtEvCustomPollMinor
- nnmiMgmtEvCustomPollWarning
- nnmiMgmtEvDuplicateCorrelation
- nnmiMgmtEvFanOutOfRangeOrMalfunctioning
- nnmiMgmtEvImportantNodeOrConnectionDown
- nnmiMgmtEvImportantNodeUnmanageable
- nnmiMgmtEvInterfaceDisabled
- nnmiMgmtEvInterfaceDown
- nnmiMgmtEvInterfacePerformanceCritical
- nnmiMgmtEvInterfacePerformanceWarning
- nnmiMgmtEvIslandGroupDown
- nnmiMgmtEvLicenseExpired
- nnmiMgmtEvLicenseMismatch
- nnmiMgmtEvLicenseNodeCountExceeded
- nnmiMgmtEvMemoryOutOfRangeOrMalfunctioning
- nnmiMgmtEvModifiedConnectionDown
- nnmiMgmtEvNnmClusterFailover
- nnmiMgmtEvNnmClusterLostStandby
- nnmiMgmtEvNnmClusterStartup
- nnmiMgmtEvNnmClusterTransfer
- nnmiMgmtEvNodeDown



nnmiMgmtEvNodeOrConnectionDown  
nnmiMgmtEvNonSNMPNodeUnresponsive  
nnmiMgmtEvPowerSupplyOutOfRangeOrMalfunctioning  
nnmiMgmtEvRateCorrelation  
nnmiMgmtEvRrgDegraded  
nnmiMgmtEvRrgFailover  
nnmiMgmtEvRrgMultiplePrimary  
nnmiMgmtEvRrgMultipleSecondary  
nnmiMgmtEvRrgNoPrimary  
nnmiMgmtEvRrgNoSecondary  
nnmiMgmtEvRrgSecondaryChanged  
nnmiMgmtEvSnmpTrapLimitCritical  
nnmiMgmtEvSnmpTrapLimitMajor  
nnmiMgmtEvSnmpTrapLimitWarning  
nnmiMgmtEvTemperatureOutOfRangeOrMalfunctioning  
nnmiMgmtEvTrapStorm  
nnmiMgmtEvVoltageOutOfRangeOrMalfunctioning  
nnmiMgmtEvMessageQueueIncidentRateExceeded  
nnmiMgmtEvMessageQueueSizeExceeded  
nnmiMgmtEvPipelineQueueSizeExceeded  
nnmiMgmtEvCardDown  
nnmiMgmtEvCardRemoved  
nnmiMgmtEvCardDisabled  
nnmiMgmtEvCrgNoPrimary  
nnmiMgmtEvCrgMultiplePrimary  
nnmiMgmtEvCrgNoSecondary  
nnmiMgmtEvCrgFailover  
nnmiMgmtEvLicensePointCountNearCapacity  
nnmiMgmtEvLicenseCapacityCountExceeded  
nnmiMgmtEvCardInserted  
nnmiMgmtEvNnmHealthOverallStatus  
nnmiMgmtEvCardUndeterminedState  
nnmiMgmtEvDiskOutOfRangeOrMalfunctioning  
nnmiMgmtEvBackplaneOutOfRangeOrMalfunctioning  
nnmiMgmtEvIpSubnetContainsIpWithNewMac  
nnmiMgmtEvSNMPAgentNotResponding  
nnmiMgmtEvCpuAbnormal  
nnmiMgmtEvMemoryAbnormal  
nnmiMgmtEvBufferAbnormal  
nnmiMgmtEvBackplaneAbnormal  
nnmiMgmtEvDiskAbnormal  
nnmiMgmtEvGenericIncident  
nnmiEvClosed  
nnmiEvLifecycleStateChanged  
nnmiEvCorrelationDedup  
nnmiEvCorrelationImpact  
nnmiEvCorrelationPairwise  
nnmiEvCorrelationRate  
nnmiEvCorrelationApa  
nnmiEvCorrelationCustom  
nnmiEvCorrelationGrpDedup  
nnmiEvCorrelationGrpImpact  
nnmiEvCorrelationGrpPairwise  
nnmiEvCorrelationGrpRate

nnmiEvCorrelationGrpApa  
nnmiEvCorrelationGrpCustom  
nnmiEvDeleted

## Run the SmartConnector

SmartConnectors can be installed and run in stand-alone mode, on Windows platforms as a Windows service, or on UNIX platforms as a UNIX daemon, depending upon the platform supported. On Windows platforms, SmartConnectors also can be run using shortcuts and optional Start menu entries.

If the connector is installed in stand-alone mode, it must be started manually and is not automatically active when a host is restarted. If installed as a service or daemon, the connector runs automatically when the host is restarted. For information about connectors running as services or daemons, see the *HP ArcSight SmartConnector User's Guide*.

To run all SmartConnectors installed in stand-alone mode on a particular host, open a command window, go to `$ARCSIGHT_HOME\current\bin` and run: `arcsight connectors`

To view the SmartConnector log, read the file `$ARCSIGHT_HOME\current\logs\agent.log`; to stop all SmartConnectors, enter `Ctrl+C` in the command window.