



Micro Focus Security ArcSight Connectors

**SmartConnector for IBM Lotus Domino
Web Server File**

Configuration Guide

June, 2018

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Revision History

Date	Description
10/17/2017	Added encryption parameters to Global Parameters.
11/30/2016	Updated installation procedure for setting preferred IP address mode.
05/15/2012	Added new installation procedure.
09/24/2010	Updated supported versions.
02/11/2010	Added support for FIPS Suite B and CEF File transport.
06/30/2009	Global update to installation procedure for FIPS support.
02/14/2008	Added field mapping for Request Method.

SmartConnector for IBM Lotus Domino Web Server File

This guide provides information for installing the SmartConnector for IBM Lotus Domino Web Server File for log file event collection. This SmartConnector is supported for installation on Windows platforms. IBM Lotus Domino Web Server version 6.5 is supported.

Product Overview

The IBM Lotus Domino Web Server is an integrated Web application server that can host Web sites that both Internet and intranet clients can access, and can serve pages that are stored in the file system or in a Domino database. When a Web browser requests a page in a Domino database, Domino translates the document into HTML. When a Web browser requests a page in an HTML file, Domino reads the file directly from the file system. Then the Web server uses the HTTP protocol to transfer the information to the Web browser. Using Domino, any change made to a database is automatically reflected on the Web server.

Preparing for SmartConnector Installation

Installing Domino on Windows Systems

- 1 Before installing the Lotus Domino Server program files on a Windows system:
 - ◆ Make sure that the required hardware and software components are in place and working
 - ◆ Read the Release Notes for operating system and network protocol requirements and for any last-minute changes or additions to the documentation.
 - ◆ Temporarily disable any screen savers and turn off any virus-detection software.
 - ◆ Make sure that all other applications are closed. Otherwise, you could corrupt any shared files, and the installation program might not run properly.
 - ◆ If you are upgrading to Lotus Domino from a previous release, see IBM's Lotus Domino *Upgrade Guide*.
- 2 Run the install program **setup.exe**, which is on the installation CD.
- 3 Read the Welcome window and click **Next**. Then read the License Agreement and click **Yes**.
- 4 Enter the administrator's name and the company name.
- 5 Choose whether you want to install partitioned servers.

- 6 Select the program and data directory in which to copy the software; then click **Next**. If you are installing partitioned servers, select only a program directory.
- 7 Select the server type you acquired:
 - ◆ Domino Utility Server: Installs a Lotus Domino server that provides application services only, with support for Lotus Domino clusters. The Domino Utility Server is a new installation type for Lotus Domino 6 that removes client access license requirements. Note that it does **not** include support for messaging services.
 - ◆ Domino Messaging Server: Installs a Lotus Domino server that provides messaging services. Note that it does **not** include support for application services or Lotus Domino clusters.
 - ◆ Domino Enterprise Server: Installs a Lotus Domino server that provides both messaging and application services, with support for Lotus Domino clusters.

 All three types of installation support Lotus Domino partitioned servers. Only the Lotus Domino Enterprise Server supports a service provider (xSP) environment.

- 8 Click **Customize** to select which components to install, or click **Next** to accept all components.
- 9 If you are installing a partitioned server, specify a data directory for each partition.
- 10 Specify the program folder or accept Lotus Applications as a program folder that will contain the software.
- 11 Click **Finish** to complete the install program.
- 12 Select **Start -> All Programs -> Lotus Applications -> Lotus Domino Server** to start the Server Setup program.

Comprehensive installation instructions for IBM Lotus Domino Web Server can be found in IBM product documentation.

Installing and Setting Up the Lotus Domino Administrator

When you install and set up a Lotus Domino server, the Server Setup program does not install the Lotus Domino Administrator, which is the administration client. You must run the Lotus Domino Administrator client setup to install the Lotus Domino Administrator client.

 Do not install the Lotus Domino Administrator on the same system on which you installed the Lotus Domino server. Doing so compromises Lotus Domino's security and impairs server performance.

To set up the LotusDomino Administrator:

- 1 Make sure the Lotus Domino server is running.
- 2 Start the Louts Domino Administrator.
- 3 The first time you start the Lotus Domino Administrator, a setup wizard starts. After you answer the questions displayed by the setup wizard, the Lotus Domino Administrator client opens automatically.

Starting the Lotus Domino Administrator

To start Lotus Domino Administrator:

- 1 Make sure the Lotus Domino server is running.
- 2 Do one of the following:
 - ◆ From the Windows control panel, click **Start -> Programs -> Lotus Applications -> Lotus Domino Administrator**.
 - ◆ Click the **Lotus Domino Administrator** icon on the desktop.
 - ◆ From the Notes client, click the **Lotus Domino Administrator** bookmark button or select **File -> Tools -> Server Administration**.

Lotus Domino Web Logging

To set up logging on your Lotus Domino server, enable one of the logging methods in the HTTP section of the server document in the Lotus Domino Directory. (Because logging is very server-intensive, it is disabled by default.) When you enable logging to text files and specify a directory for the files, Lotus Domino automatically creates the access log and error log files.

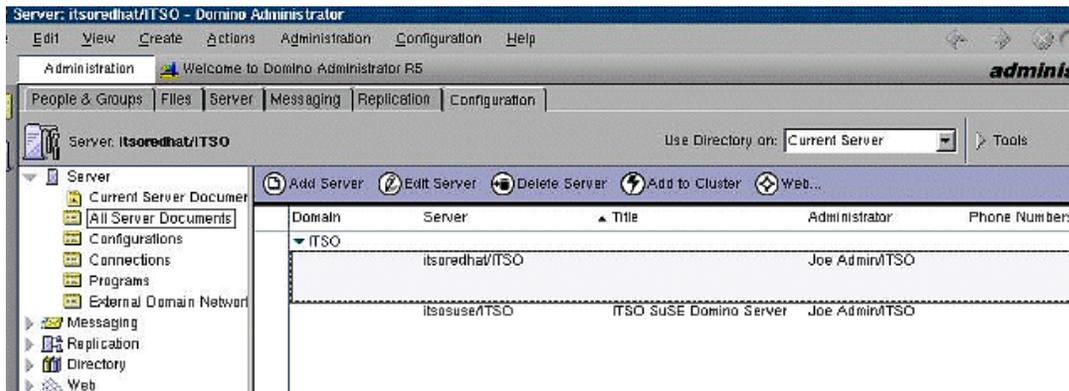
Notice that you can select the format for the access log files (Common or Extended Common) and the time format (LocalTime or GMT). The Common format records only access information. The Extended format tracks access, agent, and referred information in the access log file.

Changing Settings on the Lotus Domino Web Server

To change the settings of the Lotus Domino Web server:

- 1 Start the Lotus Domino Administrator.
- 2 Choose the server you want to reconfigure.
- 3 Choose the **Configuration** tab.
- 4 Choose **Server -> All Server Documents**.

- 5 Double-click on the name of the Lotus Domino server you want to change or select the server and click **Edit Server**.



- 6 To change the Lotus Domino Web server port, click **Ports -> Internet Ports** in the server document. The **Web** tab should be selected by default. It is best to use the default port 80 for a non-secure Web server and port 443 for a secure Web server.

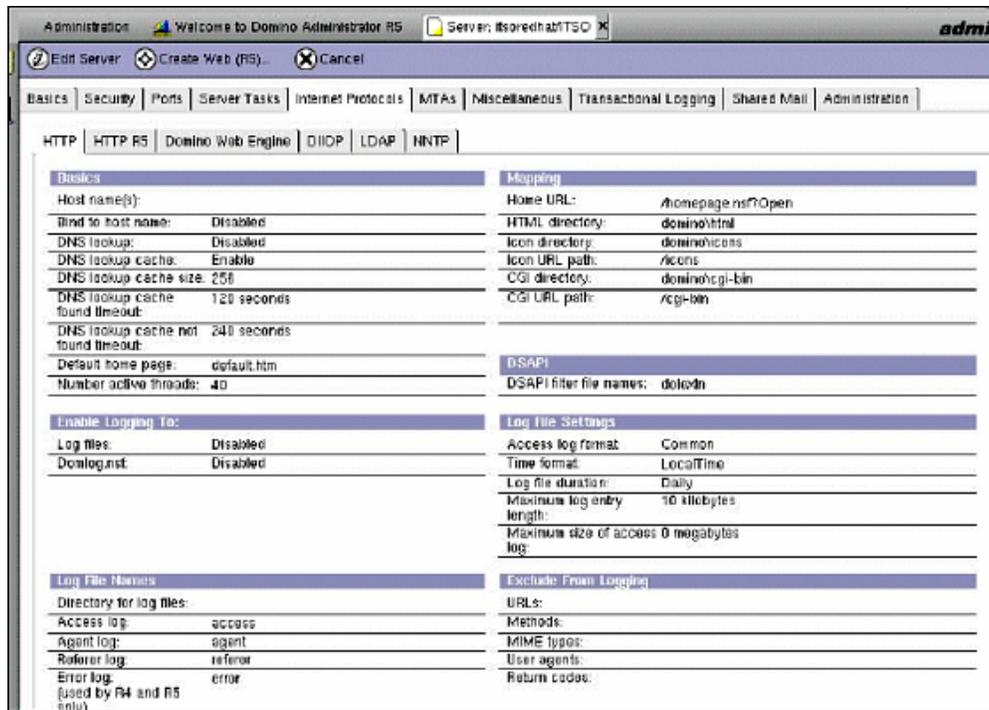
Here you also can select whether to allow name and password authentication for clients connecting over TCP/IP; the default is **Yes**. Also specify whether to allow anonymous connection over TCP/IP; again, the default is **Yes**. The same is true for the SSL protocol.

- 7 Next, select **Internet Protocols -> HTTP**. In this section, make at least the following changes:

- ◆ In the **Basic** section, enter a **hostname** and enable the **Bind to host name** option if you use a Lotus Domino partitioned environment. Also set the **Maximum request over a single connection** and **Number of active threads**, options.
- ◆ In the **Mapping** section, customize the **Home URL**. It should be either a Notes database or an HTML file.



The secure server will not run until you create a server certificate.



Setting up Lotus Domino Web Server Logging to Text Files

To set up logging the Lotus Domino Web Server to text files, you must enable logging (by default, logging is disabled). By default, Lotus Domino stores log files in the data directory. While the Web server is running, it creates new log files depending upon the log file duration settings. If the Web server is not running, it creates log files as needed when the Web server is started.

Some information may increase the size of the log file without providing meaningful information, such as requests for graphics or icons, so you may want to exclude that type of information from the log.

To enable logging to text files:

- 1 From the **Lotus Domino Administrator**, click the **Configuration** tab.
- 2 Open the Server document for the Web server.
- 3 Click the **Internet Protocols - HTTP** tab.
- 4 Under **Enable Logging To**, select the **Enable the Log Files** field.
- 5 Under **Log File Settings**, complete these fields:
 - ◆ Access Log format
 - ◆ Time format
 - ◆ Log file duration

- ◆ Maximum log entry length
 - ◆ Maximum size of access log
- 5 Under **Log File Names**, complete these fields:
- Directory for log files
the directory to store the log files; if this field is blank, Domino stores the log files in the data directory.
- Access log
the prefix to use when creating the Access log file. The default is access. Do not enter a file extension. For example, with the prefix set to **access**, an access log file name could be `access12072005.log`.
- 7 (Optional) Under **Exclude From Logging**, complete the fields as necessary to exclude certain types of information from the log file.
- 8 Save the document.

Install the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.

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-  Connector Appliance/ArcSight Management Center supports mounting for Network File System (NFS) and CIFS (Windows) shares. When you install this connector on one of these devices, establish a CIFS mount on the device before adding the connector. Provide this share name during connector configuration. For more information, see **Remote File Systems** in the Connector Appliance or ArcSight Management Center Administrator's Guide.
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Prepare to Install Connector

Before you install any SmartConnectors, make sure that the ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, read the *Administrator's Guide* as well as the *Installation and Configuration* guide for your ArcSight product before installing a new SmartConnector. If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* for instructions, and start the installation procedure at "Set Global Parameters (optional)" or "Select Connector and Add Parameter Information."

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

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

Install Core Software

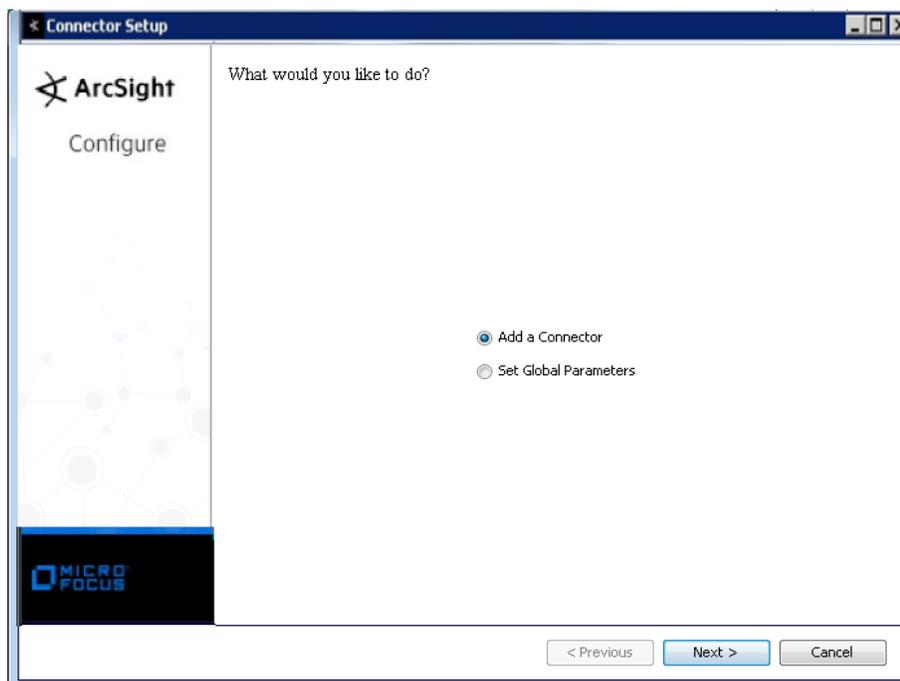
Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms; for the complete list, see the *SmartConnector Product and Platform Support* document, available from the Micro Focus SSO and Protect 724 sites.

- 1 Download the SmartConnector executable for your operating system from the Micro Focus SSO site.
- 2 Start the SmartConnector installation and configuration wizard by running the executable.

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

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

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



Set Global Parameters (optional)

If you choose to perform any of the operations shown in the following table, do so before adding your connector. You can set the following parameters:

Parameter	Setting
FIPS mode	Select 'Enabled' to enable FIPS compliant mode. To enable FIPS Suite B Mode, see the SmartConnector User Guide under "Modifying Connector Parameters" for instructions. Initially, this value is set to 'Disabled'.
Remote Management	Select 'Enabled' to enable remote management from ArcSight Management Center. When queried by the remote management device, the values you specify here for enabling remote management and the port number will be used. Initially, this value is set to 'Disabled'.
Remote Management Listener Port	The remote management device will listen to the port specified in this field. The default port number is 9001.
Preferred IP Version	When both IPv4 and IPv6 IP addresses are available for the local host (the machine on which the connector is installed), you can choose which version is preferred. Otherwise, you will see only one selection. The initial setting is IPv4.

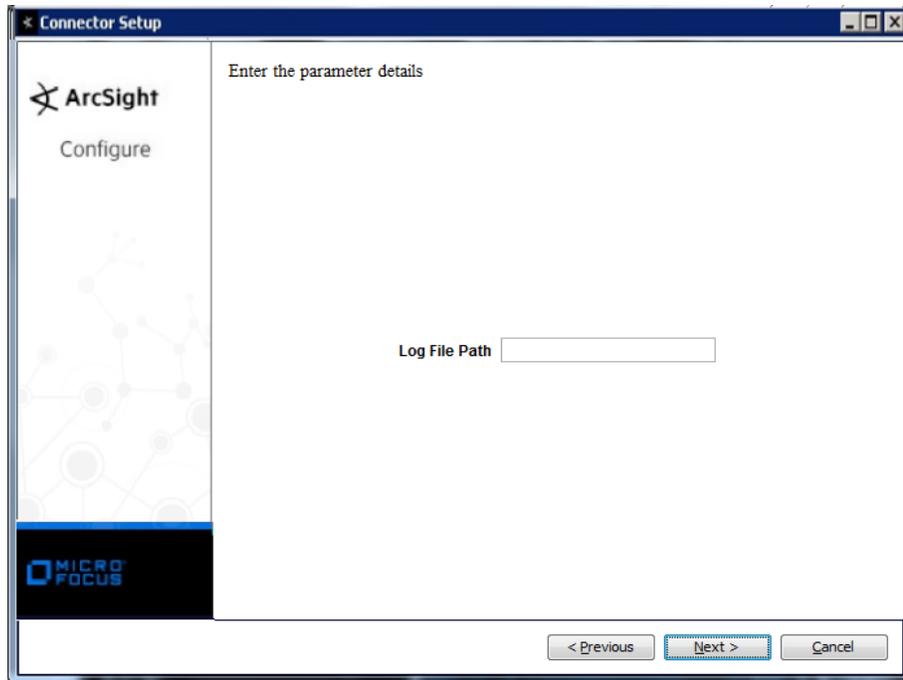
The following parameters should be configured only if you are using Micro Focus SecureData solutions to provide encryption. See the *Micro Focus SecureData Architecture Guide* for more information.

Parameter	Setting
Format Preserving Encryption	Data leaving the connector machine to a specified destination can be encrypted by selecting 'Enabled' to encrypt the fields identified in 'Event Fields to Encrypt' before forwarding events. If encryption is enabled, it cannot be disabled. Changing any of the encryption parameters again will require a fresh installation of the connector.
Format Preserving Policy URL	Enter the URL where the Micro Focus SecureData Server is installed.
Proxy Server (https)	Enter the proxy host for https connection if any proxy is enabled for this machine.
Proxy Port	Enter the proxy port for https connection if any proxy is enabled for this machine.
Format Preserving Identity	The Micro Focus SecureData client software allows client applications to protect and access data based on key names. This key name is referred to as the identity. Enter the user identity configured for Micro Focus SecureData.
Format Preserving Secret	Enter the secret configured for Micro Focus SecureData to use for encryption.
Event Fields to Encrypt	Recommended fields for encryption are listed; delete any fields you do not want encrypted and add any string or numeric fields you want encrypted. Encrypting more fields can affect performance, with 20 fields being the maximum recommended. Also, because encryption changes the value, rules or categorization could also be affected. Once encryption is enabled, the list of event fields cannot be edited.

After making your selections, click **Next**. A summary screen is displayed. Review the summary of your selections and click **Next**. Click **Continue** to return to proceed with "Add a Connector" window. Continue the installation procedure with "Select Connector and Add Parameter Information."

Select Connector and Add Parameter Information

- 1 Select **Add a Connector** and click **Next**. If applicable, you can enable FIPS mode and enable remote management later in the wizard after SmartConnector configuration.
- 2 Select **IBM Lotus Domino Web Server File** and click **Next**.
- 3 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.



Parameter	Description
Log File	Full path to the log file.

Select a Destination

- 1 The next window asks for the destination type; select a destination and click **Next**. For information about the destinations listed, see the *ArcSight SmartConnector User Guide*.
- 2 Enter values for the destination. For the ArcSight Manager destination, the values you enter for **User** and **Password** should be the same ArcSight user name and password you created during the ArcSight Manager installation. Click **Next**.
- 3 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.

- 4 If you have selected ArcSight Manager as the destination, the certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination** and click **Next**. (If you select **Do not import the certificate to connector from destination**, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.

Complete Installation and Configuration

- 1 Review the **Add Connector Summary** and click **Next**. If the summary is incorrect, click **Previous** to make changes.
- 2 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, select **Leave as a standalone application**, click **Next**, and continue with step 5.
- 3 If you chose to run the connector as a service, with **Install as a service** selected, click **Next**. The wizard prompts you to define service parameters. Enter values for **Service Internal Name** and **Service Display Name** and select **Yes** or **No** for **Start the service automatically**. The **Install Service Summary** window is displayed when you click **Next**.
- 4 Click **Next** on the summary window.
- 5 To complete the installation, choose **Exit** and Click **Next**.

For instructions about upgrading the connector or modifying parameters, see the *SmartConnector User Guide*.

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 *ArcSight SmartConnector User 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.

Device Event Mapping to ArcSight Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

IBM Lotus Domino Web Server Field Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	Service plus Service Version
Bytes Out	Bytes
Destination Address	Dst Address
Destination UserID	Auth User
Device Custom String 1	EIapse Time (ms)
Device Custom String 2	Translated URL
Device Custom String 3	Referring URL
Device Event Class Id	Return Code
Device Product	Domino Web Server
Device Receipt Time	Date
Device Severity	Return Code
Device Vendor	IBM
Name	Domino Web Access
Request Client Application	User Agent
Request Cookies	Cookie
Request Method	Method
Request URL	Request
Source Address	Src Address
Transport Protocol	TCP