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SmartConnector for Microsoft IIS File

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SmartConnector for Microsoft IIS File

This guide provides information for installing the SmartConnector for Microsoft Internet Information Server (IIS) File and configuring the device for log file collection.

Product Overview

The SmartConnector for Microsoft IIS File lets you import activity and alarm events generated and stored in a log file by Microsoft IIS into the ArcSight ESM system.

The SmartConnector for Microsoft IIS File (this connector) retrieves logs from one web site per IIS server. File patterns are comma delimited and support different rotation patterns.

Supported IIS Versions

Microsoft Internet Information Server (IIS) versions 7.0, 7.5, 8.0, 8.5, and 10.0 are supported.

Configuration

Configure Logging

For complete configuration information, see the *Windows Server IIS 7 Operations Guide* under **Monitor Activity on a Web Server**, the “Configuring Logging in IIS 7” section, from which the information in this section has been derived.

To configure logging in IIS:

- 1 Open IIS Manager.

For Windows Server 2012, on the **Start** page click the **Server Manager** tile and then click **OK** in **Server Manager**. Click the **Tools** menu, and then click **Internet Information Services (IIS) Manager**.

For Windows 8, on the **Start** page type **Control Panel** and then click the **Control Panel** icon in the search results. On the **Control Panel** screen, click **System and Security**, click **Administrative Tools**, and then click **Internet Information Services (IIS) Manager**.

2 In the **Connections** tree view, select your website.

3 When configuring logging at the site level, in **Features View**, double-click **Logging**.

When configuring per site logging at the server level, on the **Logging** page under **One log file per site**, select **Site** from the drop-down list. By default, **Site** is selected.

When configuring per server logging at the server level, on the **Logging** page, under **One log file per site**, select **Server** from the drop-down list. By default, **Site** is selected.

4 On the **Logging** page, in the **Log file** section under **Format**, select the **W3C** log file format to use the centralized W3C log file format to log information about all sites on the server. Specify at least the following fields in the **W3C Logging Fields** dialog box by clicking **Select Fields** on the **Logging** page. Fields are separated by spaces and time is recorded in Coordinated Universal Time (UTC).

Date (date)
Time (time)
Client IP Address (c-ip)
User Name (cs-username)
Server Name (s-computername)
Server IP Address (s-ip)
Server Port (s-port)
Method (cs-method)
URI Stem (cs-uri-stem)
Protocol Status (sc-status)
Protocol Version (cs-version)
Host (cs-host)

5 Under **Directory**, specify the path where the log file should be stored. The default is <SystemDrive>\inetpub\logs\LogFiles. As a best practice, store log files, such as failed request trace logs, in a directory other than systemroot.

6 In the **Log File Rollover** section, select one of the following options:

Schedule: Select one of these values to determine when a new log file is to be created: **Hourly**, **Daily**, **Weekly**, or **Monthly**.

Maximum file size (in bytes): Select this to create a log file when the file reaches a certain size, in bytes. The minimum file size is 1048576 bytes. If this attribute is set to a value less than 1048576 bytes, the default value is implicitly assumed as 1048576 bytes.

Do not create a new log file: Select this for a single log file that continues to grow as information is logged.

7 Select **Use local time for file naming and rollover** to specify that log file naming and time for log file rollover uses the local server time. When this option is not selected, Coordinated Universal Time (UTC) is used. (Regardless of this setting, timestamps in the actual log file will use the time format for the log format that you select from the Format list. For example, W3C log file format uses UTC time format for timestamps.)

8 Click **Apply** in the **Actions** pane.

Remote Logging

You can write log data to a remote share over a network using a full Universal Naming Convention (UNC) path for centralized log file storage and backup.



Mapped drives cannot be used for remote logging; services run in a virtual network and cannot recognize mapped drives.

Be aware that remote logging can negatively affect performance because IIS writes the log file data over the network. In addition, if the network goes down and IIS cannot send events to the remote machine, IIS, not the SmartConnector, determines whether these events are recovered or lost.

In the remote share, IIS creates a unique directory for each Web site; for example **W3SVCX**, where *X* is a random number generated by IIS to represent the specific Web site. IIS also creates the log file with exclusive write access, so that multiple machines cannot write to the same log file. Be sure to specify the folder in which these files can be found; for example:

```
\\IIS\logfiles\W3SVCx...
```

The connector will look only for the following subdirectories:

```
W3SVx...  
FTPSVCx...  
SMTPSVCx...  
NNTPSVCx...
```



Microsoft highly recommends that you enable Internet Protocol security (IPSec) between your Web server running IIS and the remote server before configuring remote logging. If IPSec is not enabled between the server and remote server, data packets containing log data are potentially at risk of being intercepted by malicious individuals and wire-sniffing applications while the data packet travels through the network.

Configure IIS to Log Data on a Remote Share

To log Web site data on a remote share:

- 1 Create a log file directory on a remote server in the same domain as your Web server running IIS.
- 2 Change the directory properties so the directory is a share and assign the **Everyone** group **Full Control** permissions.
- 3 Ensure that your server running IIS has **Full Control** access permission on the remote share and read and write permissions on the remote log file directory. For more information, see "Configure Permissions for Remote Logging."
- 4 In IIS Manager, expand the local computer, right-click the **Web Sites** folder, and click **Properties**.
- 5 On the **Web Site** tab, ensure that the **Enable logging** check box is selected.
- 6 In the **Active log format** list box, select a log file format.
- 7 Click **Properties**.
- 8 Click the **General** tab, and in the **Log file directory** box, enter the full UNC path. For example, enter `\\servername\LogFiles` where *servername* represents the name of the remote server and *LogFiles* represents the name of the share where the log files are stored.
- 9 Click **Apply** and then click **OK**. All Web sites within the directory begin logging data to the remote share.



Logging to a UNC share is not supported by IIS FTP. You must configure the FTP log files location to a path on the local machine.

Configure Permissions for Remote Logging

IIS can store log files on a remote share as long as the remote computer allows IIS to create log files and write the data to the remote share.

To configure permissions for remote logging:

- 1** On the remote computer, navigate to *systemroot\System32*, right-click the **LogFiles** folder, and click **Sharing and Security**.
- 2** On the **Sharing** tab, click **Share this folder** and then click **Permissions**.
- 3** Click **Add**.
- 4** Click **Object Types**.
- 5** Select the **Computers** check box and click **OK**. You can deselect all other options.
- 6** In the **Enter the object name to select** box, enter the object name in the form *Domain\WebServer* object and click **OK**.
- 7** In the **Group or user names** list, select the *Domain\WebServer* object and, in the **Permissions** section, select the **Allow** check box next to **Full Control**.
- 8** In the **Group or user names** list, select **Everyone**.
- 9** In the **Permissions** section, clear all permissions and click **OK**. The remote computer now has the appropriate access permissions.
- 10** To set the appropriate file permissions, click the **Security** tab.
- 11** Select the *Domain\WebServer* object and, in the **Permissions** section, select the **Allow** check box next to **Full Control**.
- 12** Click **Apply**. Then click **OK**.

Save Log Files

By default, IIS creates a new log file for each Web site in the *systemroot\System32\LogFiles* directory. However, you can specify the directory into which log files are saved and you can determine when new log files are started. To protect logged data, set appropriate Access Control with IIS on the log file directory.

To set options for saving log files:

- 1 In IIS Manager, expand the local computer, expand the Web or FTP Sites directory, right-click the Web or FTP site, and click **Properties**.
- 2 On the **Web Site** or **FTP SITE** tab, click **Properties** next to the **Active log format** list box.
- 3 Select the log schedule to use when starting a new log file.



"Midnight" is midnight local time for all log file formats except the W3C Extended format. For W3C Extended log file format, "midnight" is midnight Greenwich Mean Time (GMT) by default, but can be changed to midnight local time. To open new W3C Extended logs using local time, select the **Use local time for file naming and rollover** check box. The new log starts at midnight local time, but the time recorded in the log files is still GMT.

- 4 Under **Log file directory**, enter the directory where log files should be saved. For information about saving log files on a remote share, see "Remote Logging."
- 5 Click **Apply** and then click **OK** twice.

Install the SmartConnector

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



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.

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:

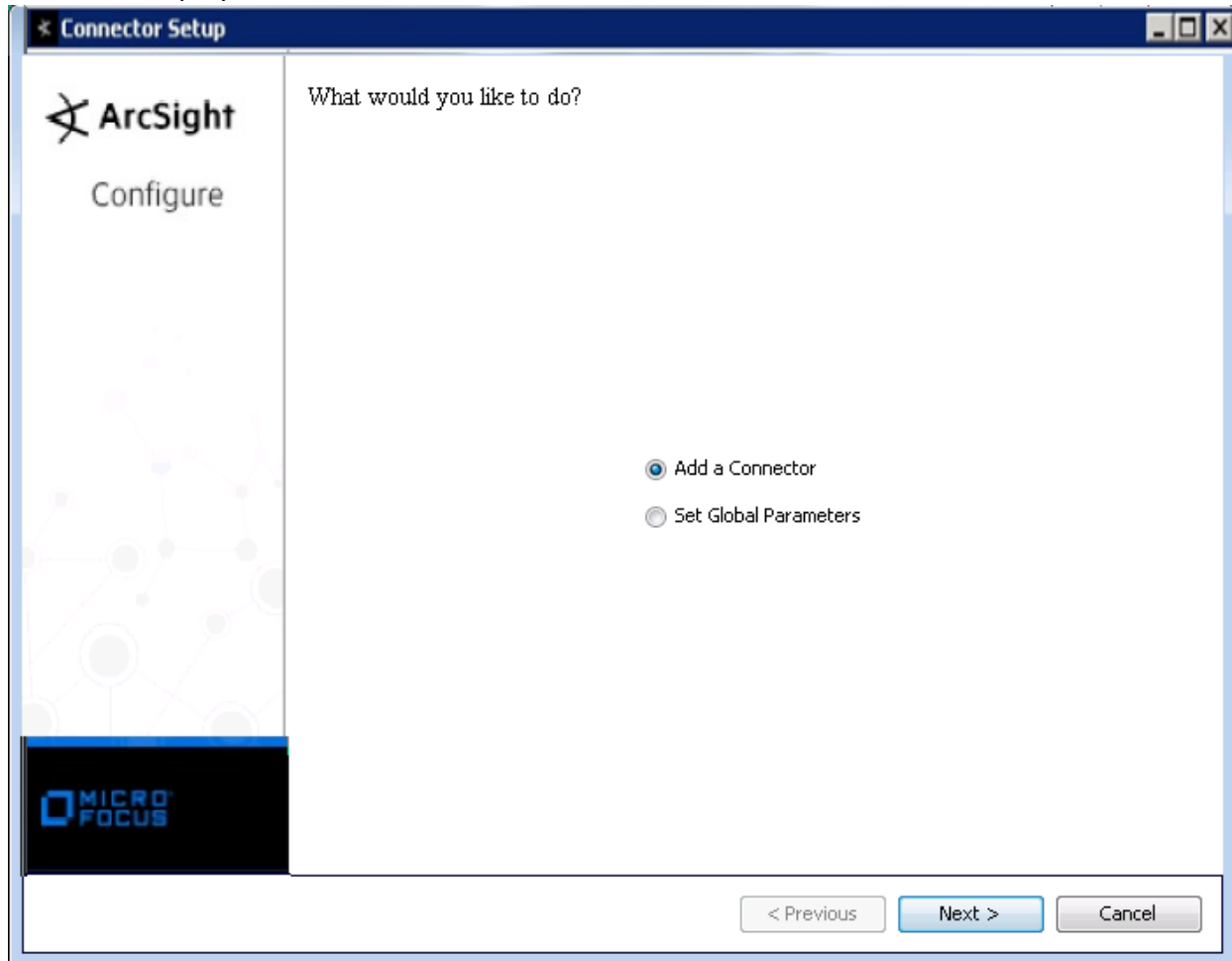
Introduction

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 **Microsoft IIS File** and click **Next**.
- 3 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

The screenshot shows the 'Connector Setup' window for ArcSight. The window has a title bar with the text 'Connector Setup' and standard window controls. On the left side, there is a sidebar with the ArcSight logo and the word 'Configure'. The main area of the window is titled 'Enter the parameter details'. It contains two fields: 'Log Folder' with a text input field containing 'C:\WINNT\System32\LogFiles\W3SVC1', and 'New Log Time Period' with a dropdown menu set to 'Daily'. At the bottom of the window, there are three buttons: '< Previous', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

Parameter	Description
Log Folder	Enter the value of 'Log file directory' from the General Properties page of the IIS Extended Logging Properties window. To log accounting information to a remote server, specify the log file name by entering a Universal Naming Convention (UNC) name, such as '\\MyLogServer\LogShare'. If you do not supply a full path statement in 'Log File Directory,' the default path is used. For example, if you enter 'IISLogFile' in 'Log File Directory,' the file is located at 'systemroot\System32\IISLogFile.'
	Users can modify it if they would like to change the log file directory for further configuration. This parameter is located in the agent.properties file at:
	- If the remote server log file is at: \\MyLogServer\LogShare\W3SVC1, then set agents [0].logfilehome=\\\\MyLogServer\\LogShare\\W3SVC1
	- If the local log file is at: C:\inetpub\logs\LogFiles\W3SVC1, then set agents [0].logfilehome =C:\\inetpub\\logs\\LogFiles\\W3SVC1
New Log Time Period	From the drop-down menu, choose the time period you selected in the Extended Logging Properties window. Selections supported by the connector include 'Hourly', 'Daily', 'Weekly', 'Monthly', or 'Unlimited file size'. The 'When file size reaches:' selection is not supported. See "Specify File Name Suffix" for more information.

Choose the SmartConnector for Microsoft IIS Multiple Site File if your Web Server hosts multiple sites.

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*.

Additional Configuration

Change Log File Name Prefix

With IIS version 7, the default log file encoding scheme is switched to UTF-8. Therefore, the log file name has been changed accordingly to start with u_ex. For prior IIS versions, the default log file encoding scheme was ANSI, and the log file name started with ex. To address this issue, in support of IIS 7 events, a new advanced parameter has been added that lets you set the log file name prefix.

After SmartConnector installation, you can change the connector's advanced parameters by editing the agent.properties file located at \$ARCSIGHT_HOME\current\user\agent. For logfile.name.prefix change the value to u_ex for UTF-8 file name scheme; change the value to ex for the ANSI log file name scheme. Save the file and restart the connector for your changes to take effect.

Specify File Name Suffix

For the connector to detect the log file, the log file name suffix must be consistent with the current day and type of log. The format of the name suffix must be as shown in the following

table.

Time Period	Suffix Format	Example
Hourly	Prefix + Year + Month + Day + Hour	If current date is 08/07/2015 at 12:00, name is u_ex15080712 or ex15080712
Daily	Prefix + Year + Month + Day	If current date is 08/072015, name is u_ex150807 or ex150807
Weekly	Prefix + Year + Month + Week (Week is the week of the month)	If current date is 08/07/2015, name is u_ex150802 or ex150802
Monthly	Prefix + Year + Month	If current date is 08/07/2015, name is u_ex1508 or ex1508
Unlimited	Prefix + 'tend1'	Name is u_extend1 or extend1

Specify the Locale Used for Determining the Current Date for File Names

An advanced parameter named `localeforfilename` has been added to specify the locale used for determining the current date for file names. If not specified, the default locale will be used, which normally works unless the default locale is Thailand, which numbers years differently. For Thailand, the parameter should be set to `en_US`.

To set advanced parameters for your SmartConnector, after connector installation, edit the `agent.properties` file located at `$ARCSIGHT_HOME\current\user\agent`. Locate the `localeforfilename` parameter and set its value to `en_US`. Restart the connector for your changes to take effect.

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.

IIS Event Mappings

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	400..599 = High; 300..399 = Medium; 0, 100..299 = Low
Bytes In	sc-bytes
Bytes Out	cs-bytes
Destination Address	s-ip
Destination Host Name	s-computername
Destination Port	One of (s-port, cs-host)
Device Custom IPv6 Address 1	cs-host (Device IPv6 Address)
Device Custom IPv6 Address 2	c-ip (Source IPv6 Address)
Device Custom IPv6 Address 3	s-ip (Destination IPv6 Address)
Device Custom Number 1	s-siteid
Device Custom String 1	cs(Referer)
Device Custom String 2	time-taken
Device Custom String 3	sc-win32-status
Device Custom String 4	s-queueName
Device Event Class ID	One of (cs-version, '(HTTP http.*)'), 'HTTP', one of (sc-status, '-', cs-method, sc-status), one of (cs-version, one of (cs-method, '(GET PUT HEAD TRACK TRACE POST SEARCH PROPFIND OPTIONS)'), sc-status, all of (cs-method, ':', sc-status)), (sc-status, '-', s-reason, all of (cs-version, ':', sc-status)))
Device Host Name	cs-host
Device Process Name	s-sitename
Device Product	'Internet Information Server'
Device Receipt Time	date, time
Device Severity	sc-status
Device Vendor	'Microsoft'

ArcSight ESM Field	Device-Specific Field
Name	'IIS action'
Protocol	cs-version
Reason	s-reason
Request Client Application	cs(User-Agent)
Request Cookies	cs(Cookie)
Request Method	cs-method
Request URL	cs-uri
Request URL File Name	cs-uri-stem
Request URL Query	cs-uri-query
Source Address	c-ip
Source Port	c-port
Source User Name	cs-username

Troubleshooting

I want to install the ArcSight connector in a separate machine. What are the steps for me to set up a share on the IIS machine so the ArcSight connector can read the logs from that share?

This works only for IIS 6.0 or later. If your IIS version is 6.0 or later, you can run the ArcSight connector service with a domain admin user:

- Use the domain admin user as the Logon User in the ArcSight connector service.
- Create a share on the log file directory on the remote machine (where IIS is located).
- During connector setup, use the UNC name rather than the drive letter to point to the share.

To run the ArcSight connector service with a user other than domain admin:

- Use the domain user as the Logon User in the ArcSight connector service.
- Create a share on the log file directory on the remote machine (where IIS is located).
- Grant privileges to the domain user on the share on the IIS machine.
- During connector setup, use the UNC name rather than the drive letter to point to the share.
- Add the domain user to the Local Admin group so the service can be started by the domain user.

please confirm that when customer used MySQL JDBC driver 5.1.38, they had issue to receive events. And the workaround is to apply older driver 5.0.8, after that connector is able to received events.

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