



ArcSight SmartConnectors

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Configuration Guide for Symantec Data Center Security DB SmartConnector

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Contact Information

Phone	A list of phone numbers is available on the Technical Support Page: https://softwaresupport.softwaregrp.com/support-contact-information
Support Web Site	https://softwaresupport.softwaregrp.com/
ArcSight Product Documentation	https://www.microfocus.com/documentation/arcsight/

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Configuration Guide for Symantec Data Center Security DB SmartConnector

This guide provides information for installing the SmartConnector for Symantec Data Center Security DB and configuring the device for event collection.

Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight software and its environment.

Additional Documentation

The ArcSight SmartConnector documentation library includes the following resources:

- [Technical Requirements Guide for SmartConnector](#), which provides information about operating system, appliance, browser, and other support details for SmartConnector.
- [Installation and User Guide for SmartConnectors](#), which provides detailed information about installing SmartConnectors.
- [Configuration Guides for ArcSight SmartConnectors](#), which provides information about configuring SmartConnectors to collect events from different sources.
- [Configuration Guide for SmartConnector Load Balancer](#), which provides detailed information about installing Load Balancer.

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors](#).

Contact Information

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Product Overview

Symantec Data Center Security continuously monitors your infrastructure for unexpected changes to files, configurations, and settings, and identifies policy violations and suspicious activity on your critical servers.

Prerequisites

Downloading the JDBC Driver

The SmartConnector installation requires JDBC driver to be present. During the installation process, you will be directed to leave the wizard and copy the JDBC driver file you downloaded to a SmartConnector folder.



Note: Different versions of the JDBC driver are required for different SQL Server database versions. The name of the jar file may be different for some JDBC driver versions. Make sure that you use the correct driver for your database version

Refer to the following information to download the correct jar file depending on the JRE version used by the SmartConnector:

- SmartConnector Version 8.3.0 uses JRE 1.8.0_312 and supports jar files from version mssql-jdbc-6.4.0.jre8.jar ([Download Microsoft JDBC Driver 6.4 for SQL Server](#)) to mssql-jdbc-9.4.0.jre8.jar ([Download Microsoft JDBC Driver 9.4.0 for SQL Server](#)).
- SmartConnector Version 7.2.1 and later use JRE 1.8 and require sqljdbc42.jar ([Download Microsoft JDBC Driver 6.0 for SQL Server](#)).
- SmartConnector Version 7.1.2 and later use JRE 1.7 and require sqljdbc41.jar ([Download Microsoft JDBC Driver 6.0 for SQL Server](#)).
- Earlier versions of SmartConnector run JRE 1.6 and require sqljdbc4.jar (available with Microsoft JDBC Driver 4.0 for SQL Server).

Installing the SmartConnector

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

ArcSight recommends that you do not install database connectors on the database server or any mission critical servers as this might cause performance issues.

Preparing to Install the SmartConnector

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

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on [ArcSight Documentation](#).

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on [ArcSight Documentation](#) for instructions.

Before installing the SmartConnector, make sure that the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords
- Minimum DB privileges - OpenText recommends the following minimum permissions to access the database:
 - Explicit CONNECT permission
 - Explicit SELECT permission
 - Public role
 - db_datareader_role

For more information about any specific permission, see the documentation of the specific database.

Installing and Configuring the SmartConnector

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Exit the installation wizard.
4. Copy the jar file associated with the version of the driver that you downloaded earlier to `$ARCSIGHT_HOME/current/user/agent/lib`
5. To use JDBC driver with SmartConnectors to connect to Microsoft SQL Servers by using Windows authentication, copy the `sqljdbc_auth.dll` file from the JDBC driver download to the `$ARCSIGHT_HOME\jre\bin` directory.

An example of The JDBC driver download path for SQL JDBC driver is:

- For version 4.0 for 32-bit environment is `sqljdbc_4.0\enu\auth\x86\sqljdbc_auth.dll`
- For 64-bit environment, `sqljdbc_4.0\enu\auth\x64\sqljdbc_auth.dll`

To use the latest version of SQL JDBC Driver such as 9.4:

- Copy the `mssql-jdbc-9.4.0.jre8.jar` file associated with the version of the driver that you downloaded earlier to `$ARCSIGHT_HOME/current/user/agent/lib`
- Copy the `mssql-jdbc_auth-9.4.0.x64.dll` file from the JDBC driver download to the `$ARCSIGHT_HOME\jre\bin` directory.



Note: If you are upgrading the SmartConnector, you must copy the authentication file to `$ARCSIGHT_HOME\jre\bin` again after update, as the upgrade process overwrites the `$ARCSIGHT_HOME\jre\bin` directory.

6. Copy certificate and JDBC files to SmartConnector folders as follows:
 - Copy the `jssecacerts` certificate that you installed during the device configuration to the SmartConnector installation folder `$ARCSIGHT_HOME/current/jre/lib/security`.






Note: You must copy this file again to the installation folder after upgrading the SmartConnector as this file gets overwritten during the upgrade process.

- Copy the `vjdbc.jar` and `commons-logging-1.1.jar` files to the SmartConnector installation folder `$ARCSIGHT_HOME/current/user/agent/lib`. These files are located in the lib

directory that was created when you downloaded the JDBC driver and unzipped the package.

7. Browse to `$ARCSIGHT_HOME/current/bin`, then double-click `runagentsetup.bat` file to start the SmartConnector Configuration Wizard.
8. Specify the relevant Global Parameters, when prompted.
9. Select **Symantec Data Center Security DB** from the Type drop-down, then click **Next**.
10. Enter the following parameters to configure the SmartConnector, then click **Next**:

11.	<table><tr><th>Parameter</th><th>Description</th></tr><tr><td>JDBC Driver</td><td>Select the <code>com.microsoft.sqlserver.jdbc.SQLServerDriver</code> driver.</td></tr><tr><td>Database URL</td><td><p>Enter: <code>jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name></code>. Replace with the actual values for <MS SQL Server Host Name or IP Address> and <MS SQL Server Database Name>.</p><p>To configure JDBC Driver and Windows Authentication, add <code>;integratedSecurity=true</code> to the JDBC URL entry for the connection to your database.</p><div> Note: The name or instance of the database configured at installation or audit time must be used. For example, <code>jdbc:sqlserver://mysqlserver:1433;DatabaseName=mydatabase;integratedSecurity=true</code></div></td></tr><tr><td>Database User</td><td>Enter the login name of the database user with database audit privilege.</td></tr><tr><td>Database Password</td><td>Enter the password for the Symantec Data Center Security Database.</td></tr><tr><td>Frequency</td><td>Specify, in seconds, the frequency at which the SmartConnector is to query the database.</td></tr></table>	Parameter	Description	JDBC Driver	Select the <code>com.microsoft.sqlserver.jdbc.SQLServerDriver</code> driver.	Database URL	<p>Enter: <code>jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name></code>. Replace with the actual values for <MS SQL Server Host Name or IP Address> and <MS SQL Server Database Name>.</p> <p>To configure JDBC Driver and Windows Authentication, add <code>;integratedSecurity=true</code> to the JDBC URL entry for the connection to your database.</p> <div> Note: The name or instance of the database configured at installation or audit time must be used. For example, <code>jdbc:sqlserver://mysqlserver:1433;DatabaseName=mydatabase;integratedSecurity=true</code></div>	Database User	Enter the login name of the database user with database audit privilege.	Database Password	Enter the password for the Symantec Data Center Security Database.	Frequency	Specify, in seconds, the frequency at which the SmartConnector is to query the database.
Parameter	Description												
JDBC Driver	Select the <code>com.microsoft.sqlserver.jdbc.SQLServerDriver</code> driver.												
Database URL	<p>Enter: <code>jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name></code>. Replace with the actual values for <MS SQL Server Host Name or IP Address> and <MS SQL Server Database Name>.</p> <p>To configure JDBC Driver and Windows Authentication, add <code>;integratedSecurity=true</code> to the JDBC URL entry for the connection to your database.</p> <div> Note: The name or instance of the database configured at installation or audit time must be used. For example, <code>jdbc:sqlserver://mysqlserver:1433;DatabaseName=mydatabase;integratedSecurity=true</code></div>												
Database User	Enter the login name of the database user with database audit privilege.												
Database Password	Enter the password for the Symantec Data Center Security Database.												
Frequency	Specify, in seconds, the frequency at which the SmartConnector is to query the database.												

12. Select a [destination and configure parameters](#).
13. Specify a name for the connector.
14. (Conditional) 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 then click **Next**. The certificate is imported and the **Add connector Summary** window is displayed.



Note: If you select Do not import the certificate to connector from destination, the connector installation will end.

15. Select whether you want to install the connector as a service or in the standalone mode.
16. Complete the installation.
17. [Run the SmartConnector.](#)

For instructions about upgrading the connector or modifying parameters, see [Installation and User Guide for SmartConnector.](#)

Adding JDBC Driver to the Connector Appliance/ArcSight Management Center

After downloading and extracting the JDBC driver, upload the driver into the repository and apply it to the required containers, as follows:

1. From the Connector Appliance/ArcSight Management Center, select **Setup > Repositories.**
2. Select **JDBC Drivers** from the left pane and click the **JDBC Drivers** tab.
3. Click **Upload to Repository.**
4. From the **Repository File Creation Wizard**, select **Individual Files**, then click **Next.**
5. Retain the default selection and click **Next.**
6. Click **Upload** and locate and select the .jar file you downloaded.
7. Click **Submit** to add the specified file to the repository and click **Next** to continue.
8. After adding all the files you require, click **Next.**
9. In the **Name** field, enter a descriptive name for the zip file (for example, JDBCdriver). Click **Next.**
10. Click **Done** to complete the process. The newly added file is displayed in the **Name** field under **Add Connector JDBC Driver File.**
11. To apply the driver file, select the driver .zip file and click the up arrow to invoke the **Upload Container Files** wizard. Click **Next.**
12. Select one or more containers into which you want to upload the driver, then click **Next.**
13. Click **Done** to complete the process.

14. Add the connector through the Connector Appliance/ArcSight Management Center interface. For more information, see the *Connector Appliance/ArcSight Management Center Online Help*.

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.

Symantec Data Center Security Event Mappings to ArcSight ESM Fields

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	Critical = High; Error, Major, Warning = Medium; Information, Notice = Low
Base Event Count	EVENT_CNT
Destination Address	HOSTADDR
Destination NT Domain	One of (DOMAIN_NAME, USER_NAME)
Destination Process Name	One of (PROCESS_PATH, PROCESS_NAME)
Destination User Name	USER_NAME
Device Action	DISPOSITION_D (Allow Denied)
Device Address	HOSTADDR
Device Custom Date 1	POST_DT (Event Post Date)
Device Custom IPv6 Address 2	Source IPv6 Address
Device Custom IPv6 Address 3	Destination IPv6 Address
Device Custom Number 1	POLICYRID (Policy Reference ID)
Device Custom String 1	RULE_NAME (Rule Name)
Device Custom String 2	POLICY_NAME (Policy Name)
Device Custom String 3	USER_TEXT (Additional Information)
Device Custom String 4	VALUE10 (Additional Data)
Device Custom String 5	RULE_ID (Rule ID)
Device Custom String 6	BINARYDATA (Binary Data)
Device Event Category	EVENT_CATEGORY_D
Device Event Class ID	EVENT_TYPE

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Device Event Mapping to ArcSight Fields

ArcSight ESM Field	Device-Specific Field
Device Host Name	HOSTNAME
Device Product	'Data Center Security'
Device Receipt Time	EVENT_DT
Device Severity	device_Severity
Device Vendor	'Symantec'
Device Version	AGENT_VERSION
Event Outcome	DISPOSITION_D (Success Failure)
External ID	EVENT_ID
File Hash	GUEST_VM_IP
File Name	VCENTER_VERSION
File Type	NSX_VERSION
Message	DESCRIPTION
Name	event_name
Old File Hash	NSX_IP
Old File Type	VCENTER_IP
Source Host Name	AGENTNAME
Transport Protocol	RESOURCE_NAME (UDP TCP)

Troubleshooting

"What do I do when the connector can't reconnect to the MS SQL Server database?"

In some cases, connectors using MS SQL Server databases are unable to reconnect to the database after losing and reacquiring network connection. Restarting the connector will resolve this problem.

"How do I deploy SQL Server Native Client?"

When deploying an application that is dependent on SQL Server Native Client, you will need to redistribute SQL Server Native Client with your application. Unlike Microsoft Data Access Components (MDAC), which is now a component of the operating system, SQL Server Native Client is a component of SQL Server. Therefore, it is important to install SQL Server Native Client in your development environment and redistribute SQL Server Native Client with your application.

The SQL Server Native Client redistributable installation program, named sqlncli.msi, is available on the SQL Server installation media and is available as one of the SQL Server Feature Pack components on the Microsoft Download site. For more information about deploying SQL Server Native Client with your application, see "Deploying Applications with SQL Server Native Client" available from Microsoft.

"Why does my connection to SQL Server fail/hang?"

Oracle has released Java 6 update 30 (6u30) that behaves differently from JRE 6u29, causing possible database connection problems for SQL Server database connectors using JDBC connection. These connection problems can occur with JRE 1.6.0_29 (6u29) and later versions.

Microsoft recommends using JRE 6u30 (and above) instead of JRE 6u29. Apply the "SQL Server 2008 R2 Service Pack 1 Cumulative Update 6" patch to the SQL server if you are experiencing connection failures or hangs.

"Why am I receiving the message 'Login failed for user 'sqluser'. The user is not associated with a trusted SQL Server connection.'"

Only Microsoft JDBC driver v4 or later support integrated authentication. The driver also does not provide function to supply Windows authentication credentials such as user name and password. In such cases, the applications must use SQL Server Authentication. When installing the connector on a non-Windows platform, configure the Microsoft SQL Server for Mixed Mode Authentication or SQL Server Authentication.

"How can I keep the connector from becoming clogged with events after being shut down for awhile?"

If the connector is shut down for some time on an active database, a lot of events can accumulate that can clog the connector on restart. The `preservestate` parameter can be used to avoid this situation. This parameter is enabled (true) by default. Setting `preservestate` to disabled (false) in the `agent.properties` file allows the connector to skip the old events and start from real time. The `agent.properties` file is located in the `$ARCSIGHT_HOME\current\user\agent` folder. Restart the connector for your change to take effect.

"What do I do when I receive "Connector parameters did not pass the verification with error ..." message?"

You may not have the correct version of jar file. When you download the JDBC driver, the version of the jar file depends on the version of JRE the connector uses. Versions 7.2.1 and later use JRE 1.8 and require `sqljdbc42.jar`. Versions 7.1.2 and later use JRE 1.7 and require `sqljdbc41.jar`. Prior versions of the connector that run JRE 1.6 require `sqljdbc4.jar`.

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Feedback on Configuration Guide for Symantec Data Center Security DB SmartConnector (SmartConnectors CE 24.4)

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