



ArcSight SmartConnectors

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Configuration Guide for Dell InTrust for Windows DB SmartConnector

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ArcSight Product Documentation	https://www.microfocus.com/documentation/arcsight/

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Configuration Guide for Dell InTrust for Windows DB SmartConnector

This guide provides information for installing the SmartConnector for Dell InTrust 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

Dell InTrust securely collects, stores and reports on heterogeneous event data to meet the needs of external regulations, internal policies, and security best practices.

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).

For more information related to the Microsoft JDBC driver, refer to this [Microsoft Documentation](#).

Installing and configuring the SmartConnector

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

ArcSight recommends that you do not install the 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`

For using 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.

7. Browse to `$ARCSIGHT_HOME/current/bin`, then double-click `runagentsetup` file to start the SmartConnector Configuration Wizard.

8. Specify the relevant Global Parameters, when prompted.
9. Select **Microsoft Systems Center Configuration Manager DB** from the Type drop-down, then click **Next**.
10. Select the following parameter details to configure the SmartConnector, then click **Next**.
11. Select the following device details to configure the SmartConnector, then click **Next**.

Parameter	Description
JDBC/ODBC Driver	Select the 'com.microsoft.sqlserver.jdbc.SQLServerDriver' driver.
Database URL	Enter: 'jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name>', substituting actual values for <MS SQL Server Host Name or IP Address> and <MS SQL Server Database Name>.
Database User	Enter the login name of the user you created on the DC machine in "Create a New Database User for Microsoft SQL Server."
Database Password	Enter the password assigned to the DC SQL Server user.

12. Select a destination and configure parameters.
13. Specify a name for the connector.
14. 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.
15. Select whether you want to run the connector as a service or in the standalone mode.
16. Complete the installation.
17. Run the SmartConnector.
18. For instructions about upgrading the connector or modifying parameters, see [Installation and User Guide for SmartConnector](#).
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Adding the JDBC driver through the Connector Appliance or ArcMc

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.

Dell InTrust event mappings to ArcSight ESM fields

ArcSight ESM Field	Device-Specific Field
Additional data	All of (Platform (PlatformID 500 = Windows, 610 = Solaris, 620 = HP-UX, 630 = LINUX), 'V', VersionMajor, '.', VersionMinor)
Agent (Connector) Severity	Very High = Failure_Audit; High = Error; Medium = Warning; Low = Unknown, Information, Success_Audit
Device Action	MSEventAction
Device Custom String 2	Category
Device Custom String 3	EventSource
Device Custom String 4	MSEventsReason
Device Custom String 6	SessionID
Device Event Category	MainEventLog
Device Event Class ID	Both (EventSource, EventID)
Device Host Name	GatheringComputer
Device Product	'InTrust'
Device Receipt Time	Time (local + GMT)
Device Severity	0=Unknown, 1=Error, 2=Warning, 4=Information, 8=Success_Audit, 16=Failure_Audit
Device Vendor	'Dell'
External ID	RecordNumber
Name	One of (EventName, MSEventReason, SyslogEvent, both (EventSource, EventID))
Source Domain	UserDomain
Source User Name	UserName

Troubleshooting

"What do I do when the driver could not establish a secure connection to SQL Server by using Secure Sockets Layer (SSL) encryption. The error is, Error: "Server chose TLSv1, but that protocol version is not enabled or not supported by the client?"

Go to folder `ArcSightSmartConnectors/current/jre/lib/security`.

In the file `java.security`, find option `jdk.tls.disabledAlgorithms`. Either disable or delete `TLSv1`.

"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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We appreciate your feedback!