



ArcSight SmartConnectors

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Configuration Guide for Trend Micro Apex Central Multiple DB SmartConnector

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Open Text Corporation

275 Frank Tompa Drive, Waterloo, Ontario, Canada, N2L 0A1

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Configuration Guide for Trend Micro Apex Central Multiple DB SmartConnector

This guide provides information to install the SmartConnector for Trend Micro Apex Central Multiple DB and configure the device for database event collection. For supported devices and versions, see [Technical Requirements](#).

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

Trend Micro Apex Central Database is a software management solution that lets other Trend Micro products report security events to a central SQL Server database. The SmartConnector for Trend Micro Apex Central DB lets you import Virus Log, Security Log, Web Security Log, and Office Scan Antivirus Log activity and alarm events (generated and stored in the SQL Server database by Trend Micro Apex Central) into the ArcSight system.

The following products are supported with Trend Micro Apex Central versions 6.0 and 6.0 SP1:

- **OfficeScan Client/Server Edition:** OfficeScan Client/Server Edition versions 10.6, 10.0, 8.0, 8.4
It protects enterprise networks from viruses, Trojans, worms, hackers, and network viruses, plus spyware and mixed threat attacks.
- **InterScan Messaging Security Suite:** InterScan Messaging Security Suite version 7.
It integrates high-performance antivirus and content filtering security plus the optional Trend Micro Spam Prevention Solution with anti-spam and anti-phishing, all in a single platform at the Internet messaging gateway.
- **ScanMail for Lotus Domino:** ScanMail for Lotus Domino 5.5
It offers comprehensive virus protection and content security for the Lotus/Domino environments, providing real-time scanning for viruses, adware, and spyware hidden within email attachments and databases. It prevents viruses and other malicious code from entering your Domino environment.

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 to mssql-jdbc-9.4.0.jre8.jar.
- SmartConnector Version 7.2.1 and later use JRE 1.8 and require sqljdbc42.jar (available with Microsoft JDBC Driver 6.0 for SQL Server)
- SmartConnector Version 7.1.2 and later use JRE 1.7 and require sqljdbc41.jar (available with 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)

Only Microsoft Type 4 JDBC drivers (versions 4.0 or later) support integrated authentication. Download one of these drivers to integrate Windows Authentication.

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



Note: The JDBC driver does not provide function to supply Windows authentication credentials such as user name and password. In such cases, 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.

Installing the SmartConnector

Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms.

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. From the **Type** drop-down list, select **Trend Micro Apex Central Multiple DB** as the type of connector, then click **Next**.
10. Specify values for the following parameters , then click **Next**:

Parameter	Description
JDBC/ODBC Driver	Select the <code>com.microsoft.sqlserver.jdbc.SQLServerDriver</code> driver.
URL	<p>Enter <code>jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name></code>. substituting actual values for <code><MS SQL Server Host Name or IP Address></code> and <code><MS SQL Server Database Name></code>.</p> <p>The default Trend Micro database name is <code>db_ControlManager</code>.</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>
User	Enter the login name of the database user with database privilege.
Password	Enter the password for the authorized database user.

11. Select a [destination and configure parameters](#).
12. Specify a name for the connector.
13. (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.

14. Select whether you want to install the connector as a service or in the standalone mode.

15. Complete the installation.

16. [Run the SmartConnector.](#)

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



Note: When using Windows authentication, after completing the connector installation, if running on a Windows Server, change the service account to use the Windows account that should log in to the database. The connector will use the account used to start the service, regardless of the account value setting entered in the connector setup process.

Adding a JDBC Driver to 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.

Apex Central 6.0, and 6.0 SP1 OfficeScan Log Mappings

ArcSight ESM Field	Device-Specific Field
Base Event Count	AggregatedCount
Connector Severity	Very High = Critical; Medium = Error or Warning; Low = Unknown or Information
Destination Host Name	TrendMicroHostName (VLF_InfectionDestination)
Destination User Name	TrendMicroUser (One of (VLF_InfectionDestination, FVL_LoginUser))
Device Action	VLF_FirstAction (0 = Unknown, 1 = NA, 2 = Clean, 3 = Delete, 4 = Move, 5 = Rename, 6 = Pass, 7 = Strip, 8 = Drop, 9 = Quarantine, 10 = Replace, 11 = Archive, 12 = Stamp)
Device Custom Date 1	CLF_LogGenerationTime
Device Custom Number 1	VLF_PatternNumber
Device Custom Number 2	VLF_SecondAction
Device Custom String 1	VLF_Virus Name
Device Custom String 2	VLF_EngineVersion
Device Custom String 3	CLF_ProductVersion
Device Custom String 4	CLF_ReasonCode
Device Custom String 5	VLF_FirstActionResult
Device Custom String 6	VLF_SecondActionResult
Device Event Category	CLF_MsgLogType
Device Event Class ID	Both ("AV", VLF_FirstAction)
Device Host Name	CLF_ComputerName
Device Product	One of ("ScanMail for Lotus Domino", "Apex Central")

ArcSight ESM Field	Device-Specific Field
Device Receipt Time	CLF_LogReceivedTime
Device Severity	CLF_Severity Code (0 = Unknown, 1 = Information, 2 = Warning, 3 = Error, 4 = Critical)
Device Vendor	'Trend Micro'
Device Version	One of (Product_Version,"5.0/5.5/6.0 SP1")
External ID	ID
File Name	VLF_FileName
File Path	VLF_FilePath
Message	VLF_FileNameInCompressedFile
Name	VLF_VirusName
Source Host Name	TrendMicroHostName (VLF_InfectionSource)
Source User Name	TrendMicroUser (VLF_InfectionSource)

Apex Central 6.0, and 6.0 SP1 Spyware Event Mappings

ArcSight ESM Field	Device-Specific Field
Base Event Count	AggregatedCount
Connector Severity	Very High = Critical; Medium = Error, Warning; Low = Unknown, Information
Destination Host Name	InfectionDestination
Device Custom Date 1	LogGenLocalDatetime
Device Custom Number 1	PatternType
Device Custom String 1	VirusName
Device Custom String 2	EngineVersion
Device Custom String 5	ActionResult
Device Custom String 6	PatternVersion
Device Event Category	MsgLogType
Device Event Class ID	'Spyware Detected'
Device Host Name	ComputerName

ArcSight ESM Field	Device-Specific Field
Device Product	'Apex Central'
Device Receipt Time	LogReceived Time
Device Vendor	'Trend Micro'
Device Version	'5.0'
External ID	ID
File Name	FileName
File Path	FileName
Name	'Spyware Detected'

Apex Central 6.0, and 6.0 SP1 Web Security Event Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	SLF_Protocol
Base Event Count	AggregatedCount
Connector Severity	Very High = Critical; Medium = Error or Warning; Low = Unknown or Information
Destination Address	SLF_ServerIP
Destination Port	SLF_ServerPort
Device Action	SLF_Action (0=Unknown, 1=Pass, 2=Block)
Device Custom Date 1	CLF_LogGenerationTime
Device Custom IPv6 Address 2	Source IPv6 Address
Device Custom IPv6 Address 3	Destination IPv6 Address
Device Custom String 1	SLF_PolicyName
Device Custom String 4	CLF_ReasonCode
Device Custom String 5	CLF_ReasonCodeSource
Device Direction	SLF_Direction
Device Event Category	SLF_BlockingType
Device Event Class ID	Both("WB", SLF_BlockingType)
Device Host Name	CLF_ComputerName

ArcSight ESM Field	Device-Specific Field
Device Product	'Apex Central'
Device Receipt Time	CLF_LogReceivedTime
Device Severity	CLF_SeverityCode (0=Unknown, 1=Information, 2=Warning, 3=Error, 4=Critical)
Device Vendor	'Trend Micro'
Device Version	'5.0'
External ID	ID
File Name	SLF_FileName
Name	One of (SLF_BlockingRule, SLF_BlockingType)
Request URL	SLF_ObjectNameURL
Source Address	SLF_ClientIP

Apex Central 6.0, and 6.0 SP1 Security Log Mappings

ArcSight ESM Field	Device-Specific Field
Base Event Count	AggregatedCount
Connector Severity	Very High = Critical; Medium = Error or Warning; Low = Information
Destination Host Name	TrendMicroHostName (SL_Recipient)
Destination User Name	One of (Extracted from SL_Recipient , TrendMicroUser (SL_Recipient))
Device Action	SL_FilterAction (0=Unknown, 1=NA, 2=Deliver, 3=Delete, 4=Quarantine, 5=Postpone, 6=Forward, 7=Replace, 8=Archive, 100=Strip, 101=Pass)
Device Custom Date 1	CLF_LogGenerationTime
Device Custom String 1	SL_PolicyContent
Device Custom String 2	CLF_ProductVersion
Device Custom String 3	SL_FilterType (0=Unknown, 1=ContentFilter, 2=AttachmentFilter, 3=StandardFilter, 4=SizeFilter, 5=DisclaimerMgr, 6=SpamFilter, 7=OPP, 8=ImportFilter, 9=PhishingFilter, 10=UrlReputationFilter)
Device Custom String 4	CLF_ReasonCode
Device Custom String 5	CLF_ReasonCodeSource
Device Custom String 6	SL_MessageAction (0=Unknown, 1=NA, 2=Deliver, 3=Delete, 4=Quarantine, 5=Postpone, 6=Forward, 7=Replace, 8=Archive, 100=Strip, 101=Pass)

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Device Event Mapping to ArcSight Fields

ArcSight ESM Field	Device-Specific Field
Device Event Category	CLF_MsgLogType
Device Event Class ID	Both("MS", SL_FilterAction)
Device Host Name	CLF_ComputerName
Device Product	'Apex Central'
Device Receipt Time	CLF_LogReceivedTime
Device Severity	CLF_ServerityCode (0=Unknown, 1=Information, 2=Warning, 3=Error, 4=Critical)
Device Vendor	'Trend Micro'
Device Version	'5.0'
External ID	ID
File Name	SL_FileName
Message	One of (SL_ViolationDescription, SL_Subject)
Name	SL_PolicyName
Source Host Name	TrendMicroHostName (SL_Sender)
Source User Name	One of (Extracted from SL_Sender , TrendMicroUser (SL_Sender))

Web Security Log Blocking Types

0	Unknown	1	Filename	2	WebMailSite
3	WebServer	4	UrlPattern	5	JavaVbScript
6	TrueFiletype	7	UserDefine	8	ServerDefine
9	WebPolicy	11	PhishPhish	12	PhishSpyware
13	PhishVirusAccomplice	14	PhishForgedSignature	15	PhishDiseaseVector
16	PhishMalApplet	17	PhishRepetition	20	PolicyIpTranslate
21	PolicyJavaScan	22	PolicyMmc	31	Pharming
32	UrlBlocking	33	UrlFiltering	34	ClientIpBlocking
35	DestinationPortBlocking	36	WebReputation	41	UnsupportedFileType
42	ExceedFileCountLimit	43	ExceedFileSizeLimit	44	ExceedDecompressLayerLimit
45	ExceedDecompressTimeLimit	46	ExceedCompressionRatioLimit	47	PasswordProtectedFile
48	RestrictedSpywareType	60	StringPattern	-1	VirusMalware
-2	SpywareGrayware	-3	NetworkVirus	-4	Intellitrapp
-5	SuspiciousVirusMalware	-6	SuspiciousSpywareGrayware	-7	Fraud
-8	SuspiciousBehavior				

Web Security Log Protocols

0	UNKNOWN	1	SMTP	2	POP3
3	IRC	4	DNS	5	HTTP
6	FTP	7	TFTP	8	SMB
9	MSN	10	AIM	11	YMSG
12	GMAIL	13	YAHOO_MAIL	14	HOTMAIL
15	RDP	16	DHCP	17	TELNET
18	LDAP	19	FILE_TRANSFER	20	SSH
21	DAMEWARE	22	VNC	23	CISCO_TELNET
24	KERBEROS	25	DCE_RPC	26	SQL
27	PCANYWHERE	28	ICMP	29	SNMP
30	VIRUS_PATTERN_TCP	31	VIRUS_PATTERN_UDP	32	HTTPS
256	BITTORRENT	257	KAZAA	258	LIMEWARE
259	BEARSHARE	260	BLUBSTER	261	EDONKEY_EMULE
262	EDONKEY2000	263	FILEZILLA	264	GNUCLEUS
265	GNUTELLA	266	WINNYLLA	268	MORPHEUS
269	NAPTER	270	SHAREAZA	271	WINMX
272	MLDONKEY	273	DIRECT_CONNECT	274	SOULSEEK
275	OPENNAP	276	KURO	277	IMESH
278	SKYPE	279	GOOGLE_TALK	10001	IP
10002	ARP	10003	TCP	10004	UDP
10005	IGMP				

Security Event Reason Codes

-1	EMPTY	0	UNKNOWN
1	VSAPI_SCAN_ENGINE	2	VSAPI_SCAN_ENGINE_SECOND
3	VSAPI_SCAN_PATTERN	4	VSAPI_SCAN_PATTERN_SECOND
5	MTA	6	SMTP_SERVER
7	HTTP_SERVER	8	FTP_SERVER
9	SCAN_MODULE	10	TVCS_AGENT
11	FIREWALL_MODULE	12	FIREWALL_PATTERN
13	ANTISPAM_FILTER	14	CONTENT_FILTER
15	ATTACHMENT_FILTER	16	DISCLAIMER_FILTER
17	ACTIVEUPDATE	18	HOOK_MODULE
19	NOTIFICATION_MODULE	20	LOG_MODULE
21	POLICY_MODULE	22	VSAPI2_SCAN_ENGINE
23	VSAPI2_SCAN_ENGINE_SECOND	24	VSAPI2_SCAN_PATTERN
25	VSAPI2_SCAN_PATTERN_SECOND	26	CAV_LITE_SCAN_PATTERN
27	CAV_LITE_SCAN_PATTERN_SECOND	28	TSC_SCAN_ENGINE
29	TSC_SCAN_PATTERN	30	PRODUCT_REGISTRY_MODULE
31	DAMAGE_CLEANUP_ENGINE	32	DAMAGE_CLEANUP_TEMPLATE
33	VA_PATTERN	34	VA_ENGINE
35	ASPY_PATTERN	36	ASPY_ENGINE
37	SSAPI_ENGINE	38	SSAPI_PATTERN
39	UFE_ENGINE	40	UFEF_PATTERN
41	UFEP_PATTERN	42	FPGA_ENGINE
43	NCIT_ENGINE	44	VSAPI_PLUS_ENGINE

Troubleshooting

Issue: Unable to 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.

Workaround: Restart the connector to resolve this issue.

Issue: 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.

Issue: Connection to SQL Server fails/hangs

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.

Workaround: 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.

Issue: The user is not associated with a trusted SQL Server connection. Receives error message: Login failed for user 'sqluser'

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.

Issue: The connector gets clogged with events after shut down

Workaround: 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`.

Send Documentation Feedback

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