

## Miradore connector for Microsoft WSUS

### Version information

Connector version: 2.3.2  
 Released in Miradore version: 5.1.0  
 Released: 6/2019

### Description

Connector for importing security update information from Microsoft WSUS or SCCM to Miradore.

### Supported target systems

Microsoft WSUS 3.0

### Software prerequisites

Minimum operation system version: Windows 7 or Windows Server 2008 R2  
 .NET Framework 4.7.2 or later

### Connector host computer

If current WSUS instance uses SQL Server as data storage, connector may be installed on any computer which can connect to both Miradore server and WSUS database server.  
 If WSUS uses Windows internal database, connector must be installed to WSUS server.  
 If SCCM is used as datasource, connector can be installed on any computer which can connect to SCCM database.

### Configuration changes made by the connector

Changes made by the installer:

#### Files

Creates a program folder (user configurable) and adds files

C:\Program Files\Miradore\Connectors\<<MiradoreInstance>\WSUS

Creates a log folder (user configurable)

C:\Program Files\Miradore\Connectors\<<MiradoreInstance>WSUS\Logs

#### Registry

Connector specific key

HKLM\Software\Miradore\Server\Connectors\WSUS

#### Scheduled tasks

Adds a scheduled task to run the connector (user configurable)

Changes made by the program itself

#### Files

Creates a log file into the log directory

#### Registry

Creates value(s) under the connector specific registry key

### Configuration

#### Common configuration

Miradore server, instance, port and SSL information is entered when installing the connector.

These values are saved to the wsus\_connector.ini file in the installation directory.

#### Connector specific configuration

Following connector specific configurations are entered when installing the connector:

Data Source (WSUS / SCCM)

WSUS computer group / SCCM collection

Scanned items (updates and/or computers)

Include replica downstream servers

Database connection settings

If multiple WSUS computer groups or SCCM collections must be configured, this must be done manually to wsus\_connector.ini file as described in the connector documentation. Connector can be configured to send data to multiple Miradore instances.

### Network connections

Between connector and Miradore server

HTTP(S) connection (port depends on Miradore server configuration, default is 80/443).

Between connector and WSUS database server

TCP connection to database or  
 Named pipe connection to Windows internal database (if WSUS instance uses it as data storage)  
 Between connector and SCCM database (if SCCM is used as data source)  
 TCP connection to database

## Authentication

Between connector and Miradore server  
 Standard Miradore connector authentication (must be authorized from the Miradore UI).  
 Between connector and WSUS or SCCM database server  
 Integrated Security (user account which run connector must have read access to database) or  
 SQL Server authentication

## Scheduling

Method  
 By default scheduled as a Windows scheduled task.  
 Interval  
 By default once a day.

## Principle of operation

Connect to WSUS/SCCM database  
 Read security update information from the database (if updates are configured to be reported)  
 Process each WSUS computer group or SCCM collection  
 Connect to Miradore server and check if it is authorized to run  
 Terminate if not authorized  
 Send start event to Miradore server if allowed to run  
 Get list of computers in current group and which has reported since last run  
 Process each computer  
 Get list of computer's security update statuses  
 Write data to output file  
 Send data to Miradore  
 Send stop event to Miradore server

## Data transferred to Miradore

Connector uses public WSUS database views or SCCM database tables to read the data.  
 If connector is configured to read security update information, it sends full report of available security updates on every time connector is run.  
 If connector is configured to read computer information, it sends report of computers reported since last run. To make sure that Miradore has correct information about computers, connector sends full report of computers every tenth run time.  
 Fields in the report are (WSUS database):  
 PUBLIC\_VIEWS.vUpdate:  
 DefaultTitle, SecurityBulletin, KnowledgebaseArticle, UpdateId, CreationDate, MsSrcSeverity  
 PUBLIC\_VIEWS.vUpdateApproval  
 Action  
 PUBLIC\_VIEWS.vComputerTarget  
 ComputerTargetId, Name, LastReportedStatusTime  
 PUBLIC\_VIEWS.vUpdateInstallationInfo  
 UpdateID, State

## Data transferred from Miradore to the target system

None.

## Debugging

Set value FileLogSeverity in wsus\_connector.ini to Debug or Verbose and check the log file.

## Version history

Miradore 5.1.0 / Connector 2.3.2  
 The connector was recompiled with .NET Framework 4.7.2 to ensure compatibility with TLS 1.2 and 1.3 protocols.  
 Miradore 4.0.0 / Connector 2.3.0

Improvement: Microsoft SCCM can be used as data source.

Miradore 3.6.4 / Connector 2.2.1

Bug fix: Connector failed to send large amounts of data to Miradore.

Miradore 3.4.0 / Connector 2.2.0

Unicode support

Miradore 3.2.0 / Connector 2.0.1

Proxy support

Changed to use HTTP POST with multipart/form-data

Miradore 2.9.1 / Connector 2.0.0

Support for multiple Miradore instances