Miradore connector for Microsoft SCCM

Version information

Connector version: 1.3.1

Released in Miradore version: 4.2.0

Release date: 15.09.2015

Description

Connector for importing asset information from Microsoft SCCM to Miradore.

Supported target systems

Microsoft SCCM 2007 or 2012

Software prerequisites

Windows XP or newer

.NET Framework 3.5 or later

Connector host computer

May be installed on any computer which can connect to both Miradore server and SCCM database server.

Configuration changes made by the connector

Changes made by the installer:

Files

Creates a program folder (user configurable) and adds files

C:\Program Files (x86)\Miradore\Connectors\<MiradoreInstance>\SCCM

Creates a log folder (user configurable)

C:\Program Files (x86)\Miradore\Connectors\<MiradoreInstance>SCCM\Logs

Registry

Common key for all connectors

HKLM\Software\(Wow6432Node\)Miradore\Server

Connector specific key

HKLM\Software\(Wow6432Node\)Miradore\Server\Connectors\SCCM

Scheduled tasks

Adds a Windows 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 and modifies 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 in the registry under the common key for connectors.

Connector specific configuration

Connector specific configuration is done in the Miradore UI

Administration > System settings > Connectors > Microsoft SCCM > host computer

Following values can be configured:

Database server: SCCM database server hostname or IP address

Database name: SCCM database name

Use Windows account for database connection: Does connector use Windows or SQL Server authentication

to connect database

Database user: SQL user account used for database connection

Database password: SQL user account's passwords

SCCM collections: List of SCCM collections used to filter queried computers

Include subcollections: Are subcollections included to query

Network connections

Between connector and Miradore server

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

Between connector and SCCM database server

TCP connection to database

Authentication

Between connector and Miradore server

Standard Miradore connector authentication (must be authorized from the Miradore UI).

Between connector SCCM database

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 Miradore server and checks if it is authorized to run

Terminate if not authorized

Send start event to Miradore server if allowed to run

Connect Miradore server and reads connector configuration

Connect SCCM database and reads computer inventory information

Convert report data to Miradore internal format

Send data to Miradore

Send stop event to Miradore server

Data transferred to Miradore

Inventory data about computers which belong to defined SCCM collections.

Miradore uses following identifiers to identify devices:

Devicename

Serial number

MAC addresses of physical ethernet adapters. Each address is count as a separate identifier

DNS domain

Following logic is used to identify devices:

If there is 3 or less identifiers in Miradore database, all existing identifiers must match

If there is more than 3 identifiers in Miradore database, at least 3 identifiers must match

If device can't be mathced to existing asset with these rules, new asset is created. In a typical case, device has at least four of those

identifiers and for example device name can be changed and it is still identified as same device in Miradore.

Data is read from following SCCM database views:

v_R_System

Name0, SMBIOS_GUID0

v_GS_PC_BIOS

Name0, Manufactuer0, SerialNumber0, ReleaseDate0, SMBIOSBIOSVersion0, SoftwareElementID0, Version0

v_GS_COMPUTER_SYSTEM

Name0, Domain0, Manufacturer0, Model0, SystemType0, UserName0

v_GS_OPERATING_SYSTEM

Caption0, CSDVersion0, Locale0, OSLanguage0, RegisteredUser0, InstallDate0, LastBootUpTime0,

WindowsDirectory0, CSDVersion0, Version0

v_GS_DEVICE_DISPLAY

VerticalResolution0, HorizontalResolution0

v_GS_KEYBOARD_DEVICE

Layout0

v_GS_LOGICAL_DISK

Name0, FreeSpace0, Size0, Description0, DriveType0

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v_GS_NETWORK_ADAPTER

DeviceID0, MACAddress0, Name0 , PNPDeviceID0

v_GS_NETWORK_ADAPTER_CONFIGUR

Index0, DefaultIPGateway0, DHCPEnabled0, DHCPServer0, DNSDomain0, IPAddress0, IPEnabled0, IPSubnet0

v_GS_DISK

Description0, InterfaceType0, Index0, Model0, Name0, Partitions0, Size0

v_GS_PHYSICAL_MEMORY

Capacity0, DataWidth0, Description0, DeviceLocator0, FormFactor0, Manufacturer0, PartNumber0,

SerialNumber0, Speed0, TotalWidth0

v_GS_PROCESSOR

CurrentClockSpeed0, DataWidth0, Version0, Manufacturer0, MaxClockSpeed0, Name0

v_GS_VIDEO_CONTROLLER

AdapterRAM0, CurrentBitsPerPixel0, CurrentHorizontalResolution0, CurrentNumberOfColors0,

CurrentRefreshRate0, CurrentVerticalResolution0, Description0, DriverDate0, DriverVersion0, Name0

v_GS_DESKTOP_MONITOR

DeviceID0, Description0

v_GS_PNP_DEVICE_DRIVER

ClassGuid0, DeviceID0, Manufacturer0, Name0

Data transferred from Miradore to the target system

None.

Debugging

Set a registry value FileLogSeverity to Debug or Verbose in HKLM\Software\(Wow6432Node\)Miradore\Server\Connectors\SCCM

and check the log file.

Version history

Miradore 3.3.1 / Connector 1.0.1

Initial release

Miradore 3.4.0 / Connector 1.1.0

Hardware scan output file format changed as XML

Bug fix: PnP device scan does not handle returned NULL DateTime values correctly

Miradore 4.0.0 / Connector 1.2.0

Fixed: Add/Remove programs data was stored in wrong fields in Miradore.

Fixed: Inventory import crashed when connector tried to read Add/Remove programs data that didn't contain program names.
After this fix, such data is skipped in the import.

Miradore 4.1.1 / Connector 1.3.0

Miradore and the connector were changed to support the management of multiple devices with equal host names. Therefore,

Miradore 4.1.1 requires at least connector version 1.3.0 and it doesn't support the earlier connector versions.

Miradore 4.2.0 / Connector 1.3.1

Fixed: The connector failed if there was multiple rows with the same ResourceID in SCCM database.

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