

Miradore connector for Microsoft Active Directory

Version information

Connector version: 2.8.0
 Released in Miradore version: 4.3.1
 Release date (estimated): 15.06.2016

Description

Connector for importing Microsoft Active Directory computers, users, and groups.

Supported target systems

Microsoft Active Directory on Microsoft Windows Server 2003 or later

Software prerequisites

Windows XP or later

Connector host computer

Must be installed on a computer that has connection to Active Directory domain controller.

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>\AD

Creates a log folder (user configurable)

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

Registry

Common key for all connectors

HKLM\Software\Miradore\Server

Connector specific key

HKLM\Software\Miradore\Server\Connectors\AD_Connector

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 in the registry under the common key for connectors.

Connector specific configuration

Domain, domain controller(s) and user account must be configured in Miradore UI. LDAP path filters can be also defined

there to limit the reading of items. In Miradore, it's also possible to configure which objects (users, computers, groups) are included in import.

Also the retrieved AD attributes can be configured in Miradore UI.

Network connections

Between connector and Miradore server

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

Between connector and domain controller

Connector uses Active Directory Service Interfaces (ADSI) to read data from domain controller

Authentication

Between connector and Miradore server

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

Between connector and domain controller

Connector uses user accounts configured to Miradore UI to read data from domain controller. Accounts require only read access to Active Directory objects.

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

Read group information from Active Directory

Read user information from Active Directory

Read computer information from Active Directory

Send data to Miradore

Send stop event to Miradore server

Data transferred to Miradore

Connector sends full report on every run. Items in report can be limited by defining one more LDAP paths where from groups, users or computers are read.

Fields in the report are:

Groups:

DistinguishedName, SAMAccountName, Email, GroupType, Description, MemberOf

Users:

DistinguishedName, SAMAccountName, Description, UserAccountControl, WhenCreated, WhenChanged,

GivenName, Initials, Sn, DisplayName, ScriptPath, LogonCount, PwdLastSet, Department, Manager,

Mail, TelephoneNumber, AccountExpires, MemberOf, LastLogonTimeStamp, EmployeeID

Notice: User attributes can be customized from system settings in Miradore UI.

Computers:

DistinguishedName, MemberOf, SAMAccountName, Description, WhenCreated, WhenChanged,

OperatingSystem, OperatingSystemServicepack, OperatingSystemVersion, Location, LastLogonTimestamp

Data transferred from Miradore to the target system

None.

Debugging

Set a registry value FileLogSeverity to Debug or Verbose in HKLM\Software\Miradore\Server\Connectors\AD_Connector and check the log file.

Version history
Miradore 4.3.1 / Connector 2.8.0

- Starting from Miradore Management Suite 4.3.1 and Microsoft Active Directory connector 2.8.0, it is possible to configure multiple domain controllers for the connector configuration item in Miradore Management Suite. Multiple domain controllers can be defined for the AD connector item by listing the domain controllers with ; (semicolon) delimiter in the "Domain controller" field. When the connector attempts to connect to the domain controller, it first tries the leftmost option and then moves on to the next option if the connection doesn't succeed.
- If domain controller is not specified when configuring connector in Miradore Management Suite, the connector uses the domain information from "Base DN scope" field to detect the domain controller automatically.
- Earlier Miradore Active Directory connector always imported all user, computer and group objects from Active Directory to Miradore Management Suite, but Miradore Management Suite 4.3.1 and connector version 2.8.0 add the possibility to configure which objects are included in the data import.
- A new utility ("ad_connector_configurator.exe") was created for Miradore Active Directory connector. The connector configurator comes with the connector starting from version 2.8.0, and it can be found after the connector installation from the connector's installation folder. The connector configurator can be used to add multiple Active Directory connector configurations on one computer. Earlier, all Miradore Active Directory connectors had to be installed on separate computers. For instructions, refer to product guide.

Bug fix: User and computer import from Microsoft Active Directory failed if cost center identification string included illegal XML characters. The problem was solved by adding filtering for invalid characters.

Bug fix: User and computer import from Microsoft Active Directory failed if Active Directory data didn't contain timestamps for CreateDate, ModifyDate or PasswordLastChanged because the fields were required to define. The problem was solved by changing the fields as optional.

Miradore 4.1.1 / Connector 2.7.2

Added a functionality for reading cost center identification attribute(s) from Microsoft Active Directory. Miradore uses the information to update the Asset configuration items' cost center information. If an AD cost center is missing from Miradore, and the auto-generation of cost centers is enabled on Miradore, the corresponding cost center items are automatically generated to Miradore.

Miradore 3.6.4 / Connector 2.7.0

This is an update to Miradore AD connector logic. The connector itself has not been updated.
Configurable attributes can be used for user's cost center identification.

Miradore 3.6.3 / Connector 2.7.0

Support for excluding scopes
User's attributes can be customized/substituted
Configurable attributes can be used for user's organisation and location identification

Miradore 3.6.2 / Connector 2.6.2

Data Execution Prevention (DEP) and Address Space Layout Randomization (ASLR) security features were enabled for the connector executable.

Miradore 3.5.2 / Connector 2.6.1

Support for multiple instances
Global Catalog support
Removal of output files by default
Possibility to run connector without sending output to server

Miradore 3.2.0 / Connector 2.5.2

Proxy support
Changed to use HTTP POST with multipart/form-data

Miradore 3.1.0 / Connector 2.5.1

Bug fix: LDAP path filters cannot contain non-ASCII characters

Miradore 2.9.2 / Connector 2.5.0

Group data export

Changed to use ADSI interface instead of Idifde.exe and dsquery.exe

Output files are encoded with UTF-16