

## Miradore connector for 3 Step IT Asset Management

### Version information

Connector version: 2.9.0  
 Released in Miradore version: 4.3.0  
 Release date: 31.03.2016

### Description

Connector for importing and exporting asset data between 3 Step IT Asset Management system and Miradore.

### Supported target systems

3 Step IT Asset Management NG

### Software prerequisites

Windows XP or later  
 .NET Framework 2.0 or later

### Connector host computer

May be installed on any computer which can connect to both Miradore server and 3 Step IT Asset Management

### Configuration changes made by the connector

Changes made by the installer:

#### Files

Creates a program folder (user configurable) and adds files

Default is C:\Program Files (x86)\Miradore\Connectors\<<MiradoreInstance>\3StepIT

Creates a log folder (user configurable)

Default is C:\Program Files (x86)\Miradore\Connectors\<<MiradoreInstance>\Logs\3StepIT\

#### Registry

Common key for all connectors

HKLM\Software\Miradore\Server

Connector specific key

HKLM\Software\Miradore\Server\Connectors\3StepIT

#### 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

Connector specific configuration is done in the Miradore UI (Administration > System settings > Connectors >

3 Step IT > host computer). Following values can be configured:

Url: 3 Step IT Asset Management system url (eg. <https://asset-3stepit.com/asset/assetwebservice>)

Use proxy: Connect through proxy server (Yes/No)

Proxy url: Proxy server's url

Proxy user: User name to be used to authenticate with the proxy server.

Proxy password: Password to be used to authenticate with the proxy server.

Customer Id: Customer id assigned to you by 3 Step IT

Password: Password assigned to you by 3 Step IT

#### Import settings:

Import owned assets (Yes/No): Defines whether the connector also imports asset data of owned assets from 3 Step IT

Update Enabled (Yes/No): Select if attributes in Miradore are updated from 3 Step IT data

Updated attributes: If update is enabled, select which data gets inserted to Miradore

- Lease contracts: Creates missing contracts based on the imported asset's contract data and also adds contract number when creating a missing financial transaction
- Asset contract start and end date: Adds contract's start and end date when creating a missing financial transaction
- Item price for assets: Adds price when creating a missing financial transaction
- OrderReference: Adds order reference number(s) when creating a missing financial transaction
- Pickup location: Defines a pickup location when creating or updating financial transaction
- Ending option: Defines an ending-option for a financial transaction.
- Import filters for contract starting and ending dates to restrict the query used when importing.
  - Contract started days ago: Contract's minimum starting date expressed in days from current date.
  - Contract ended days ago: Contract's minimum ending date expressed in days from current date.

**Export settings:**

- Export enabled (Yes/No): Enable/disable exporting attributes to 3 Step IT
- Export owned assets (Yes/No): Defines whether the connector also exports asset data of owned assets from Miradore to 3 Step IT
- Exported attributes: If export is enabled, add source/target attribute pairs to be included in the export
  - It is up to you to decide which Miradore attribute goes to which 3 step IT attribute
  - Custom names for fields named 'Extra ...' are shown in the selection popup only after first import

**Network connections**

- Between connector and Miradore server
  - HTTP(S) connection (port depends on Miradore server configuration, default is 80/443).
- Between connector and 3 Step IT Asset Management server
  - HTTPS connection (port 443).

**Authentication**

- Between connector and Miradore server
  - Standard Miradore connector authentication (must be authorized from the Miradore UI).
- Between connector and 3 Step IT Asset Management
  - Customer Id and password which are entered in the connector settings in Miradore UI.

**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
- Connects Miradore server and reads connector configuration
- Connects 3 Step IT Asset Management and exports all assets according to configured contract date filters
- Converts data to Miradore internal format
- Sends data to Miradore server
- Miradore server saves data into internal database table and matches assets with serial number
- If update is enabled:
  - Miradore server updates attributes in asset according to what is configured for the import
- If export is enabled:
  - Contact Miradore server and requests changed assets to be exported to 3 Step IT Asset Management
  - Miradore server compares data in internal import table and asset table for configured attribute pairs and includes update request for every changed asset and attribute and sends export request to connector
  - Send request to 3 Step IT Asset Management to update assets and logs result
- Send custom field names to the Miradore server to be saved into the connector settings
- Send stop event to Miradore server

**Data transferred to Miradore**

- All available attributes from 3 Step IT Asset Management are imported to Miradore database. Following

attributes will be shown in asset inventory:

Id number, Contract number, Product group, Serial number, Cost center, Device rent, Lease length, Lease start date, Lease end date, Order reference, Ending option, Ending option info, Location, Pickup location, User name, Device model, Hard disk, Memory, Processor, Extra info, Other, Change date

#### Data transferred from Miradore to the target system

Transferred attributes are configurable through connector settings.

List of Miradore attributes that can be exported:

- Asset notice
- Asset tag
- Company name
- Cost center
- Cost center (full name)
- Cost center 2
- Cost center 2 (full name)
- Detailed location
- Device name
- Device role
- Ending option
- Hardware category
- Hardware model
- Location
- Location (full name)
- Logged on user (Firstname+Middle+Lastname)
- Logged on user (Lastname+Firstname+Middle)
- Organisation
- Organisation (full name)
- Pickup location
- Responsible person (Firstname+Middle+Lastname)
- Responsible person (Lastname+Firstname+Middle)
- Responsible person's email
- Responsible person's employee ID
- Static text: 'Miradore'

List of 3 Step IT attributes that can be updated in the export:

- Company product group
- Cost center
- Cost center 2
- Ending option
- Extra info
- Extra info 1
- Extra info 2
- Extra info 3
- Extra info 4
- Extra info 5
- Extra number 1
- Extra number 2
- Extra number 3
- Extra number 4
- Extra number 5
- Extra text 1
- Extra text 2
- Extra text 3

Extra text 4  
 Extra text 5  
 Id number  
 Location  
 PickupLocation  
 Project  
 Username  
 Version

### Debugging

Set a registry value FileLogSeverity to Debug or Verbose in HKLM\Software\Miradore\Server\Connectors\3StepIT and check the log file.

These command line switches can be used when debugging the connector:

/savetofile Saves request and response and output send to Miradore into files  
     request 3StepIT-Export-Request.xml  
     response 3StepIT-Export-Response.xml  
     output output.xml  
  
 /readfromfile Reads export request from file (3StepIT-Export-Request.xml) instead of generating it  
 /in <filename> Read data to be imported from file instead of exporting it from 3 Step IT  
 /noimport Skips importing data from 3 Step IT to Miradore  
 /noexport Skips importing data from Miradore to 3 Step IT  
 /deviceid Filter importing to only this device (use 3 Step IT's device id)  
 /contract Filter importing to only this contract (use 3 Step IT's contract number)

### Version history

#### Miradore Management Suite 4.3.0 / Connector 2.9.0

New connector configuration options "Import owned assets" and "Export owned assets" were added for enabling the import and export of asset data between Miradore and 3 Step IT for assets which are owned, instead of leased.

Miradore Management Suite was also changed to support multiple 3 Step IT connectors. Earlier it was possible to configure only one connector.

#### Miradore Management Suite 4.2.0 / Connector 2.8.0

A new attribute "EndingOptionInfo" was added to the list of attributes that are imported to Miradore from 3 Step IT. The ending option info attribute displays additional information regarding the contract ending. In Miradore, the information imported from 3 Step IT can be found from "Asset configuration item > Inventory report > Financial information".

#### Miradore 3.8.0 / Connector 2.7.0

Additional restrictions to the export from 3 Step IT can be configured in the registry by adding string values FilterxColumn, FilterxOperator, FilterxValue under key HKML\SOFTWARE\Miradore\Server\Connectors\3StepIT where x is a number starting from 1. Several filters can be defined this way.

#### Miradore 3.6.4 / Connector 2.6.0

Support for exporting full cost center names from Miradore.

Timeout for a web request to the 3 Step IT server incremented to 30 min and can be configured in the registry.

#### Miradore 3.6.3 / Connector 2.5.0

Support for exporting Responsible person's employee ID from Miradore.

Timeout for a web request to the Miradore server incremented to 30 min and can be configured in the registry.

#### Miradore 3.6.1 / Connector 2.4.0

Support for PickupLocation was added to Miradore 3.6.1. This update does not require updating of the 3StepIT connectors.

#### Miradore 3.5.0 / Connector 2.4.0

Improvements in lease ending option synchronization

Connector reports its version to Miradore server

#### Miradore 3.2.0 / Connector 2.3.0

Client/server protocol changed

#### Miradore 2.9.2 / Connector 2.1.0

Proxy support

Encoding bug fixed

Miradore 2.8.0 / Connector 2.0.0

Export from Miradore to 3 Step IT