OCS-Inventory NG

Version 1.2.2

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1. Introduction

OCS Inventory NG (Open Computer and Software Inventory Next Generation) is an open source software for automatic inventory of hardware and software components as well as entire networks. The software is available on the official website at http://www.ocsinventory-ng.org/ for various operating systems.

The OCS Inventory NG add-on offers an import interface to import both hardware and software objects from the OCS Inventory System directly into the i-doit CMDB.

2. System requirements

The current version of the OCS add-on requires at least i-doit version 1.19.
The interface is tested and supported for OCSInventory Server 2.6.x to 2.11.1.

> (**i**) Unless otherwise declared, this documentation refers to the current version (1.2.2) of the OCS Inventory NG add-on. The paths for opening the masks are based on min. i-doit 25 and may differ in older versions.

3. Installation

The installation of the OCS Inventory NG add-on follows the standard procedure for the installation of i-doit add-ons:

- Log in to the i-doit Admin Center.
- Go to the “Add-ons” tab
- Click on the “Install/update Add-on” button
- Select the ZIP package of the add-on
- Click the “Upload and install” button
- Ready

4. Rights

In order to be able to use the OCS import, the permissions for the OCS addon must be set under **Administration → User permissions → OCS-Inventory NG**

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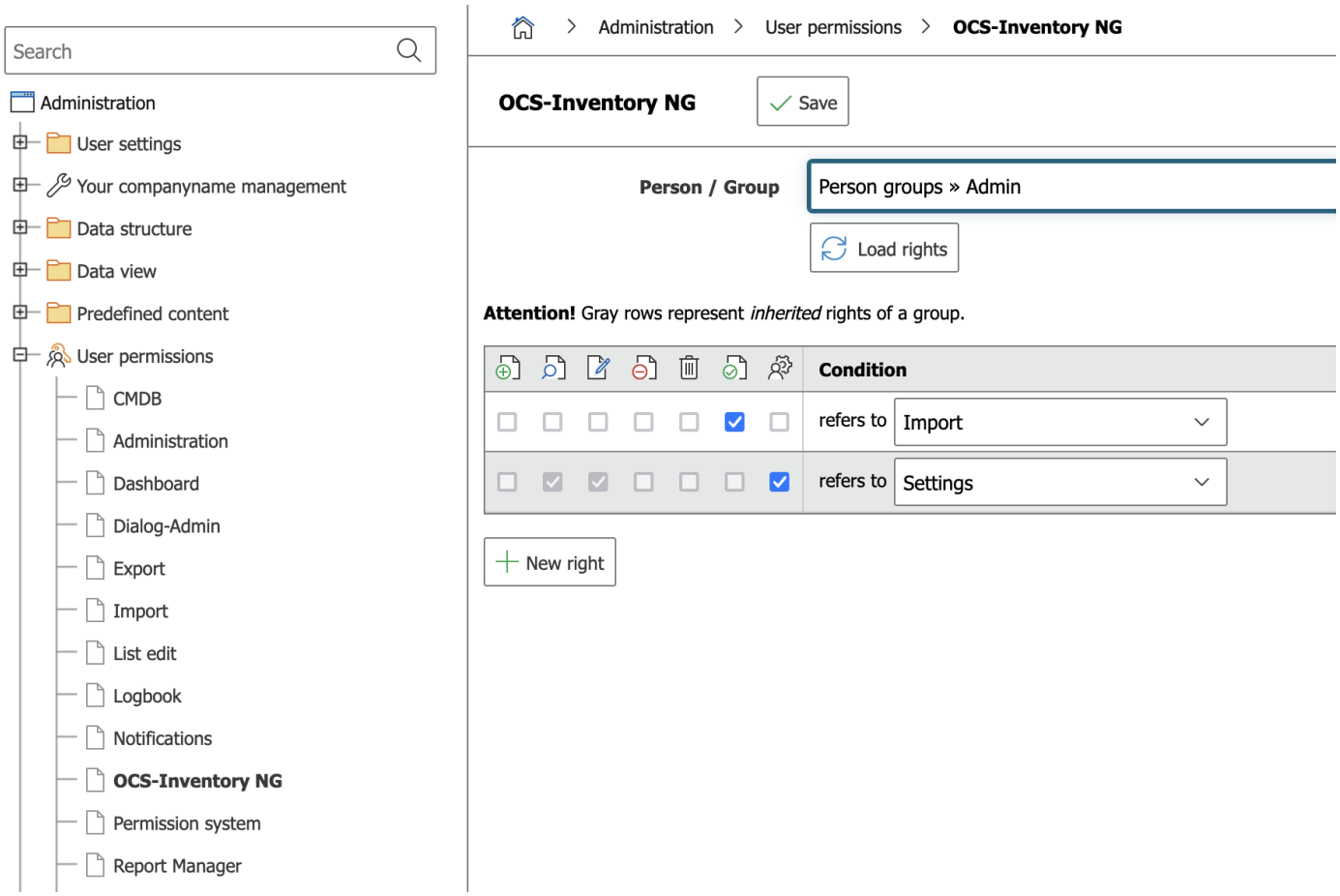
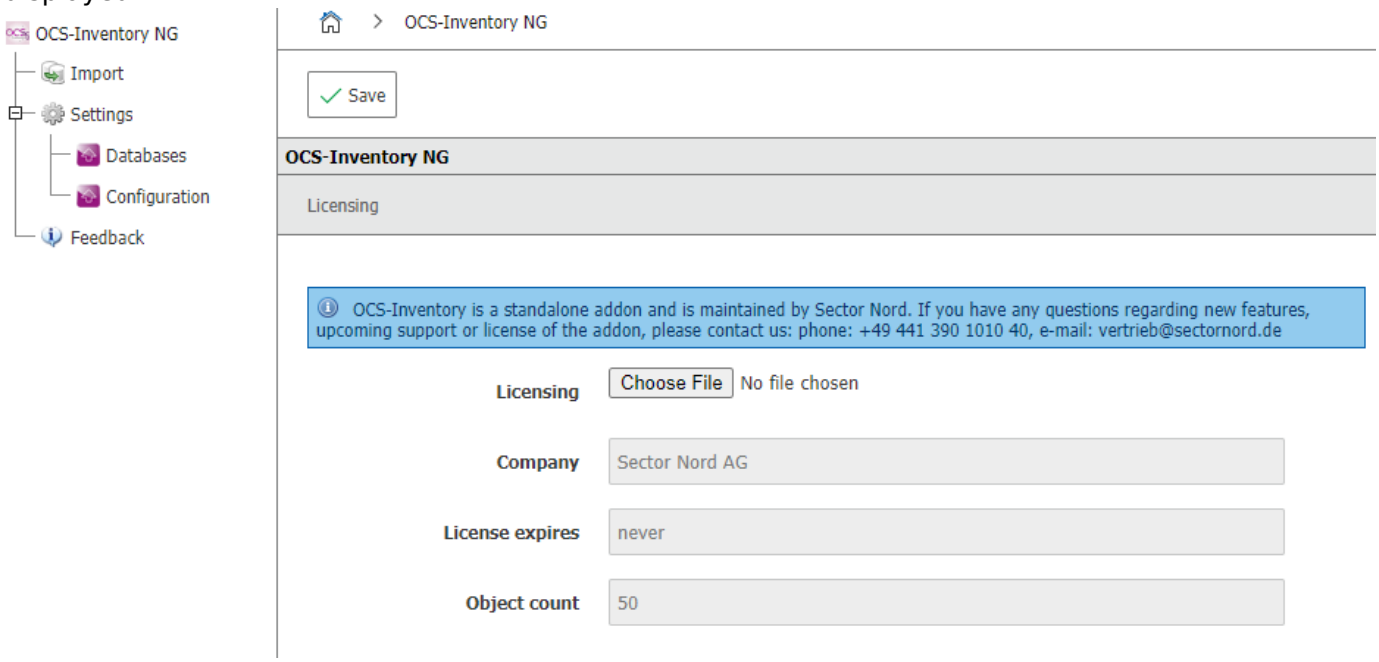


5. Setup

5.1. Licensing

The licensing of the module can be done under **Add-ons → OCS-Inventory NG → Settings → Licensing**. After importing the license file, the expiration date and the number of licensed objects are displayed.



5.2. OCS databases

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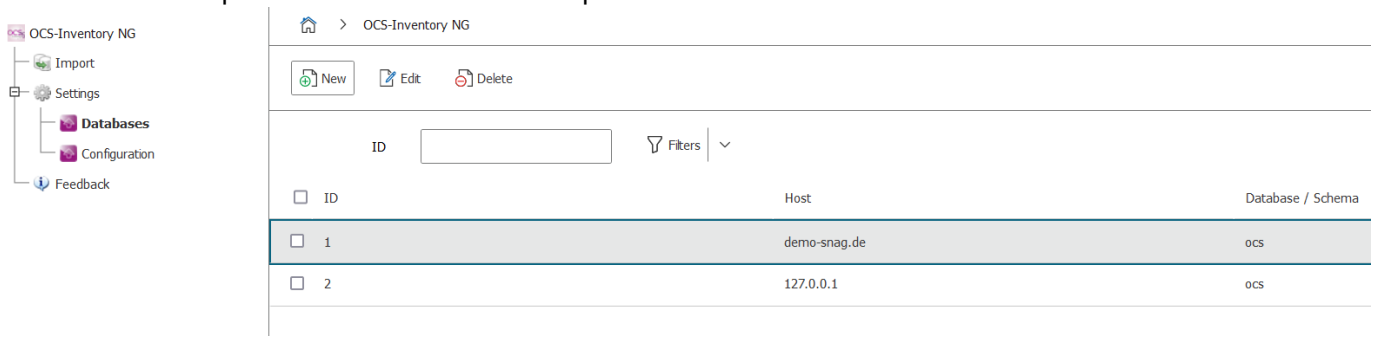
Access to the OCS databases can be configured under Add-ons → OCS-Inventory NG → Settings → Databases. Multiple OCS instances can be specified:



Create/edit a new database connection:

Database setting	Description	Example
Host	IP/DNS address of the OCS server	127.0.0.1
URL	Specifying the URL	https://ocs.example.com/ocsreports/
Port	Port to access the database	3306
Database / Schema	Name of the database	ocs
User	Database user with access rights to the OCS database	ocs
Password	User password	******

5.3. Configuration

Under **Add-ons → OCS-Inventory NG → Settings → Configuration** some parameters for the handling of objects during import can be set.

Setting	Description	Example
Default Database	Sets the database that will be used as the default for import in the user interface and console.	127.0.0.1 - ocs
Ignore object types for import (Blacklist)	Provides a dropdown where object types can be selected that should not be considered for import. The object type after the eventual redetermination is used for the calculation.	Printer, Client ...
Ignore inactive OCS objects (days)	Devices for which the last synchronization to OCS was longer ago than the specified time (days) are not imported. With no entry or a 0, no limit is set	0
Ignore objects with CMDB status	Provides a dropdown to select the CMDB states where a device should not be imported. Selection only accesses already existing objects	inoperative, defect
Default import object type	Sets the default object type if no object type is selected during import and/or none of the prefixes take effect.	Client

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Setting	Description	Example
Tag-Prefix Server Tag-Prefix Client Tag-Prefix Router Tag-Prefix Switch Tag-Prefix Printer	Prefixes can be set for the object types “Server”, “Client”, “Router”, “Switch” and “Printer”. During the import process, the system checks whether one of the set prefixes is present in the tags or in the name of the OCS object. If the prefix matches, the object is imported into the corresponding object type. Wildcards like “%” are allowed.	srv, server% clt, client% ….
Only import known applications	Specifies whether the imported objects should only be linked to applications that already exist in the i-doit environment. If this option is set to No, those applications that do not yet exist in the i-doit dataset will be newly created and linked to the corresponding object.	Yes/No
Remove existing application assignments	This option can be used to remove existing application assignments to software objects that have already been created. The assignment is cleaned up before the import and filled with the new application links. The application objects are not deleted in the process.	Yes/No
Default object type for imported applications	Provides a selection of object types with the specific category “Application” that can be used as the default import object type.	Application, Custom Application …
Regex to edit application name	Definition of regex strings, e.g. to remove the version number from the OCS application name. Multiple regex can be defined (One regex per line). **Caution:** see note under section 5.3.1	/(\d+.)+\d+/
Logbook active while importing	Activates entering all object changes in the logbook.	Yes/No
Object matching profile	The Object Matching Profile parameter specifies how already documented objects are to be identified. Identified objects are updated during data import.	Default
Do not overwrite Serial numbers with values	Definition of values that don’t overwrite serial numbers . Multiple values can be stored.	unknown,-
License expires	Shows the expiration date of the license. Provides a link to the licensing	2022-12-31

5.3.1 Configuration: RegEx for application names

The regular expression configuration always replaces the first group found. If there are multiple matches for the expression in the application name, only the first one is replaced in each case.

Here are some more examples of possible expressions for cleaning up application names:

RegEx	Application	Result
/(\d+.)+\d+/	MyApp 4.0.1	MyApp
/(v|V)(\d+.)+\d+/	MyApp V4.0.1	MyApp
/\d+/	MyApp 2019	MyApp

In the last filter of the examples, it should be remembered that this removes the first sequence of numbers from the name of each application name (this does not necessarily have to be the version number, e.g. in “Microsoft Office 365 Apps…”)!
Of course, these filters can also be used as a combined regex, so that, for example, the first and also the second filter would take effect, depending on which expression is found first. So the combined

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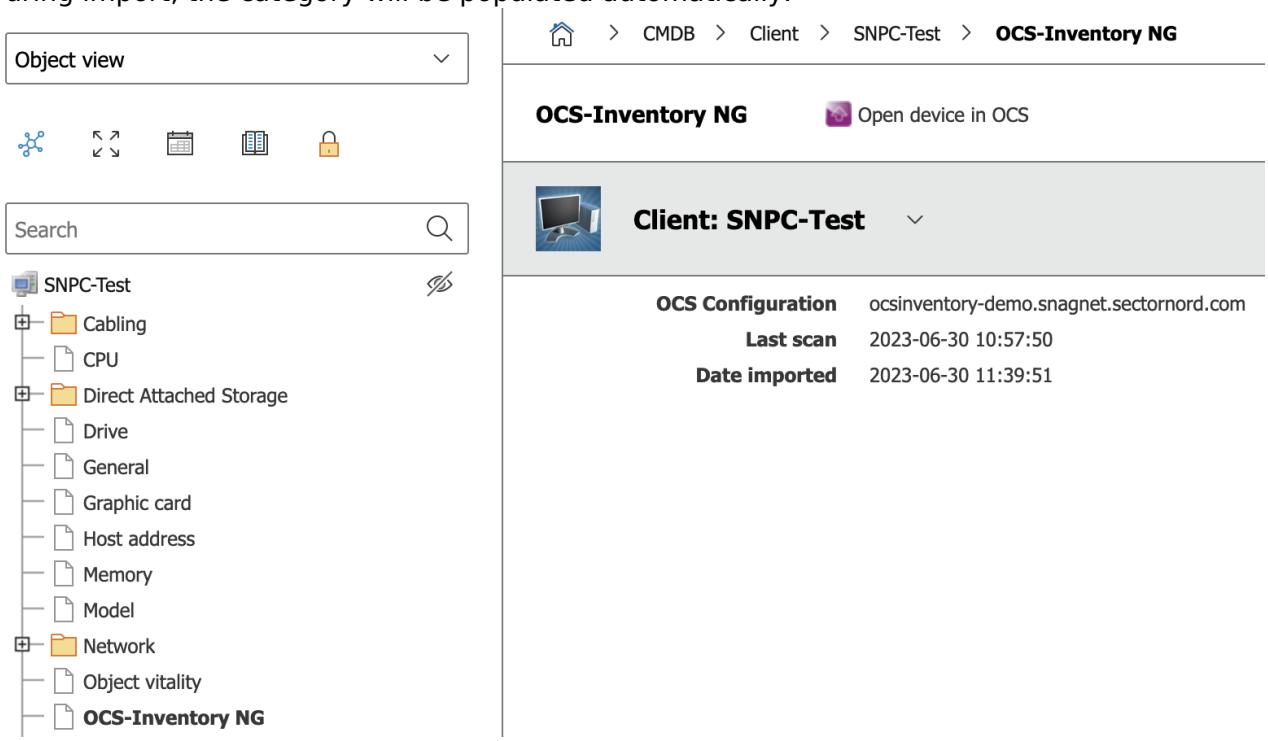
filter /((v|V)(\d+.)+\d+|(\d+.)+\d+)/ would convert both the string MyApp 4.0.1 and MyApp V4.0.1 to MyApp and create or assign this application.

5.4 OCS category

For the overview of relevant data regarding the OCS import, the category “OCS-Inventory NG” can be activated for desired object types. The activation is done in the object type configuration or the Quick Configuration Wizard as standard.

During import, the category will be populated automatically.



Via the button “Open device in OCS” the device can then be opened directly in OCS. For this, the URL must be correctly set in the database configuration.

6. Import

Under **Add-ons → OCS-Inventory NG → Import** one or more objects can be imported from the OCS database into the i-doit CMDB. The list of displayed objects can be sorted alphabetically by clicking on the individual column headers.

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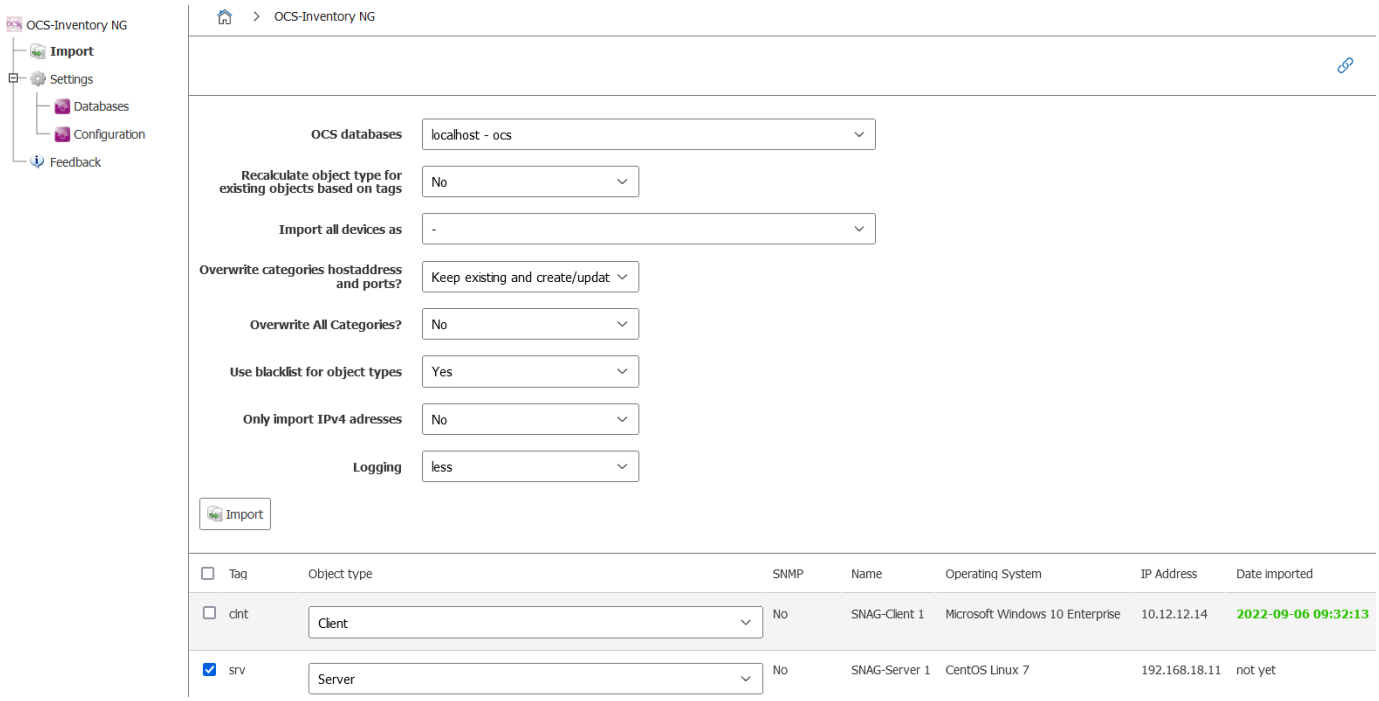
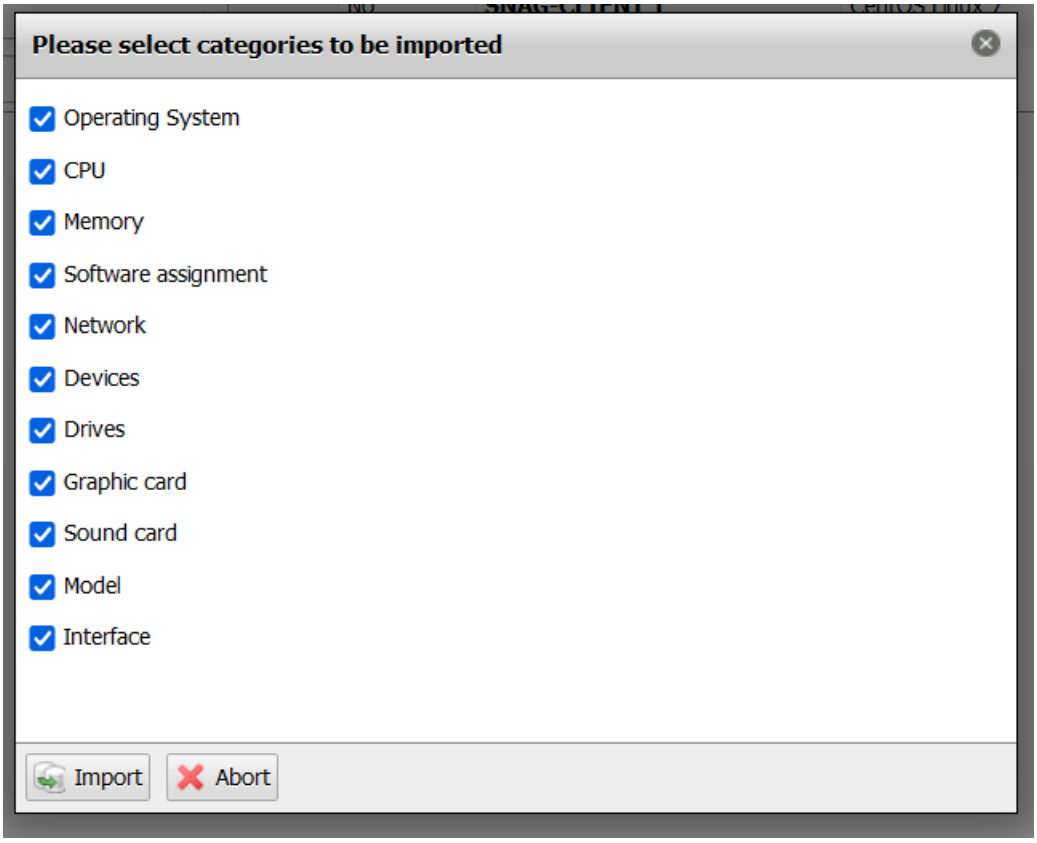


The import of the selected objects is started by clicking the “Import” button, which opens another window for selecting the categories:



> When the import is finished, you will receive a status message with information about the individual steps of the import.

The following additional settings are available for the import:

Import setting	Description	Example
OCS databases	A list selection with the configured databases is provided here	127.0.0.1 - ocs

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Import setting	Description	Example
Recalculate object type for existing objects based on tags	Determines whether the object type for existing objects should be redefined based on the tag and tag-prefix matching. The determination can be manually adjusted afterwards.	Yes/No
Import all devices as	Determines the object type with which all objects are to be imported. The determination can be adjusted manually afterwards.	Client
Overwrite categories hostaddress and ports?	Handling for the multivalue categories. Similar to the CSV import, there are 3 options to choose from: Add only and do not delete / Delete and refill / Fill empty categories only.	Keep existing and create/update any from OCS
Overwrite All Categories?	Purge all categories included by the import. A list of all categories can be viewed when running the import. Other categories, such as Accounting, are not deleted.	Yes/No
Use blacklist for object types	Decides whether the defined blacklist should be used for the import	Yes/No
Only import IPv4 adresses	Defines if Ipv6 addresses should be ignored during import.	Yes/No
Logging	Sets the log level for the created log files. Less: Does not create a log file. Detailed: Writes a log file with import information to /i-doit-PATH/log/ . Detailed+Debug: Adds debug info to logging	less detailed (slower) detailed+debug (very slow & memory intensive)

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7. Automatic import

Using the i-doit console, the import can be executed automatically, for example via a cronjob. The responsible command is called **import-ocs** . The –help parameter can be used to display the following options:

Parameter (short version)	Parameter (long version)	Example
	--ipPortOverwrite= IPPORTOVERWRITE	Determines if hostaddresses and ports should be deleted first for each imported device: 0 = Keep existing and create/update any from OCS (Default); 1 = Delete existing and create from OCS; 2 = Keep existing and don’t update any from OCS
	--allCatsOverwrite= ALLCATSOVERWRITE	Determines if all cats selected for import should be purged before new import. 1 = Active; 0 = Inactive (Default)
	--databaseSchema= DATABASESCHEMA	Selection of the database schema used for the import
	--onlyIPv4=ONLYIPV4	Imports IPv4 addresses only. 1 = Active; 0 Inactive (default)
	--useBlacklist= USEBLACKLIST	Determines if the configured blacklist of object types should be used (1) or ignored (0)
	--objectType=OBJECTTYPE	Default objecttype constant from the object type configuration. This objecttype will be used if no objecttype can be determined.
	--recalculateObjectType= RECALCULATEOBJECTTYPE	Recalculation of object types for already existing objects based on tags. [default: false]
	--file=FILE	Option for a source file which contains hostnames which will be imported/updated.
	--hosts=HOSTS	Comma separated list of Hostnames which will be imported/updated.
	--snmpDevices= SNMPDEVICES	Switch if snmp device should be imported.
	--categories=CATEGORIES	Comma separated list of categories to import. Possible Values: drive, ui, sound, application, memory, model, graphic, net, stor, operating_system, cpu, last_login_user
	--logging=LOGGING	Activate file logging. Possible log levels: 1 = Normal Log; 2 = Debug Log
	--listObjectTypes	Lists all possible object types
	--listCategories	Lists all possible categories
	--usage	Show more helping information
	--hardwareID=HARDWAREID	Import only by hardware/snmp ID from the ocs database.
-u	--user=USER	User who is authorized to execute
-p	--password=PASSWORD	Password to authenticate the specified user
-i	--tenantId=TENANTID	Client ID of the client to be used (default: 1)
-c	--config=CONFIG-FILE	Specification of the path to the configuration file
-h	--help	Help message for displaying further information

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Parameter (short version)	Parameter (long version)	Example
-q	--quiet	Quiet mode to disable the return
-V	--version	Output of the i-doit Console version
	--ansi	Forces output in ANSI format
	--no-ansi	Disables the output in ANSI format
-n	--no-interaction	Disables all interaction questions of the i-doit Console
-v / -vv / -vvv	--verbose	Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

7.1. Example

```
sudo -u apache php console.php import-ocs --user admin --password admin --tenantId 1 --databaseSchema ocs --hosts=device1,device2 --logging=2 --objectType C__OBJTYPE__CLIENT --categories=cpu,memory,net
```

Explanation:
--databaseSchema: Retrieves the OCS configuration from i-doit via schema name which will be used as import source.
--hosts: Comma separated list of hosts which will be searched and imported from the OCS database.
--logging: Specifies the log level of the import.
--objectType: All newly imported devices which could not be automatically identified are being created with the specified object type. Default from the configuration will be used if not specified.
--categories: Comma separated list of categories which will be imported.

> When importing, only one OCS database can be imported at a time.

8. Contact & Support

Sector Nord AG
Edewechter Landstr. 123
26131 Oldenburg

Software maintenance includes support via phone (+49 441 39010 42), fax (+49 441 39010 11), remote (via Teamviewer and MS-Teams) and e-mail (service@sectornord.de) from monday - friday, 9:00h -17:00h, (4 hours response time - except on public holidays in the federal state of Lower Saxony).

Current information like prices for the subscription or current release notes around our OCS-AddOn for i-doit can be found at https://www.sectornord.de/en/ocs-inventory.html.

All information about support contracts can be found at:
https://www.sectornord.de/de/supportvertraege.html. (GERMAN)

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Changelog

1.0.0

- Moved OCS from idoit core to an own package

1.0.1

- Added sortable import table (#1)
- Bugfix: Import filter with specific categories does work correctly now (#2)
- Bugfix: Added error message again if the connection settings are incorrect (#3)
- Bugfix: Fixed link to database configuration in error message (#9)
- Optimized column-width of import table (#1)
- Added Feedback link (#5)
- Resized popup to select categories (#4)
- Added licensing (#6)

1.0.2

- Improved import button position (#17)
- Added page for licensing key (#27)

1.1.0

- Added option to change software name during import via Regular Expression (#33)
- Added option to prevent updating existing host addresses (#19)
- Added option to set object types that should not be imported (#7)
- Added option to set object cmdb states that should not be updated (e.g. scrapped) (#29)
- Added option to prevent importing IPv4 addresses (#31)
- Added free and used space for disks (#28)
- Fixed several bugs that caused too many logbook entries to be created (#26)
- Fixed bug with wildcards for tags to define the category (#13)
- Added support for i-doit 1.19 and php8 (#35, #39)
- More small improvements for better user experience (#34, #36)

1.1.1

- Added option to prevent updating existing serial numbers

1.2.0

- Added OCS category to identify i-doit objects imported from OCS
- Display new object type in dropdown if selecting 'recalculate object type'
- Import category 'Last logged user' from OCS
- Option to use custom software object types
- Fixed bug with cutting version number from software name
- Fixed bug when importing clients with loopback address
- Fixed bug if OCS delivers incorrect CPU speed
- Fixed layout issue if object has multiple IP addresses

1.2.1

- Bugfix: Changed type of category to improve settings
- Improved documentation

1.2.2

- Added support for i-doit 25

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