i-doit pro NeDi Add-on

Version 2.0.0

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i-doit pro NeDi Add-on

The Nedi connector makes it possible to import data from Nedi into i-doit. To do this, the data is read from the Nedi database and imported into i-doit. The connector can be started from the command line as well as from the web interface.

Setup

License

A license is required to use the NeDi Connector. This can be obtained either directly from Sector Nord AG or via i-doit.

If the license was obtained from Sector Nord AG, the license key must **be uploaded under** Add-ons -> NeDi Import -> Licensing -> Edit.

Configuration of the NeDi database

At least one nedi database must first be stored in i-doit for the import to work.

To do this, select in i-doit under Add-ons -> NeDi -> Configuration

Import via web interface

- Add-ons -> NeDi -> Import NeDi Devices
- NeDi Select Database
- Select devices and select the correct object type if necessary
- Click on "Import"
- Select the categories to be filled

Note: The item "Import NeDi Modules" is intended for special switch modules and is not required in normal operation.

Import via console

To automate the import, the import can be started from the console:
The --db parameter specifies the ID of the Nedi database. A list of IDs is displayed when the console command is invoked without parameters. In addition, the ID can be viewed in the NeDi configuration in i-doit.

First, the --test parameter was to be used to test which devices would be imported.

```
php console.php nedi --user=admin --password=admin --db=1 --limit=50 --test
```

After that, the import can be started with the same command without a test option. - -limit can be used to limit the number of devices to be imported.

```
php console.php nedi --user=admin --password=admin --db=1 --limit=1
```

With various parameters, only individual devices can be imported.

- Name, IP address or location can be used as filters.
- In addition, regular expressions can be used.

- To try out the filters, it is recommended to first use the --test parameter.
- With the paramrter --debug, additional information about the import is output via the console, e.g. which objects are created.

Examples:

```
--device="My-Printer-001"          # Devices that contain the text "My-Printer-001" Included
--device="Printer$"                # Devices that start with "Printer" Ends
--device="(AP-EG1|AP-OG2)"         # Devices containing "AP-EG1" or "AP-OG2"

--location="^DE; OL;"              # Devices that are stored at the location
--location=".+"                    "DE; OL;..." are # devices that have a

--address="^192\.168\.16\."        # Devices that start with the IP address "192.168.16"
--address="^192\.168\.1[012]\."    # Devices that start with the IP addresses: "192.168.10.", "192.168.11." or "192.168.12."
```

The import takes into account the settings from the NeDi configuration in i-doit. This also includes the selection of categories or object types.

Import Configuration

In the settings, further parameters can be configured for the import.

NeDi Device Settings

Maximum age of the devices

Only devices whose last contact in Nedi is not older than the number of days specified here will be imported.

Object types that should not be imported

Multiple object types can be specified here that should not be imported. If you want to create or update a device with one of these object types during import, that device will be skipped.

Reset CMDB status of devices

If enabled, the CMDB status will be reset to "In Operation" on import if the device had manually been given a different CMDB status. This only applies to devices, not connected nodes. For nodes, there is a separate setting below.

Changing Object Types Mapping

NeDi provides a type code that is used to determine the object type in i-doit. The codes are documented here: https://www.nedi.ch/documentation/expand/index.html

If you click on the (i) button on a NeDi device in the import list, you will see extended information about the device, including the NeDi type code (e.g. "s2mg" for "Workgroup Switch (L2)") and the determined i-doit object type (e.g. "Switch").

The mapping can be adjusted in the configuration. It is recommended to use regular expressions, since e.g. all switches start with "s2" and "s3". The order can be used to control which entry is checked first. The first hit is used. If no entry fits,

the default mapping is used. NeDi

Nodes Settings Mode for

Importing Nodes

There are three options here: * Always import: If a device has nodes in NeDi, they will be imported. * Import only if hostname is recognized: Only if a hostname is stored in NeDi for the node, it will be imported. * Do not import: No nodes are imported.

Overwrite Node Titles

If enabled, the title of the nodes may be overwritten during import if the title has changed to NeDi. In contrast, the object type is never overwritten during import.

Object Type for Imported Nodes

Here you can specify the object type for the imported nodes. By default, this is Hosts.

Reset CMDB status of nodes

If enabled, the CMDB status will be reset to "In Operation" during import if the node had manually been given a different CMDB status.

Cabling of Nodes

The configuration of the cabling of nodes is done in the respective NeDi category. There are the following options:

For devices: * No wiring: Nodes are imported without a cable connection. * Cable Marked Node: Device is wired to the node marked in the NeDi category (see below). * Cable the latest node: Only the latest node is wired to the device, all other nodes are imported without a cable connection. (default)

For nodes: * Yes: The node is wired to the device when the "Cable Selected Node" option is selected. * No: The node is not wired to the device.

Location Import Settings

Creating and linking locations as objects

If activated, the locations from the string from NeDi are created as objects in i-doit and linked to the corresponding devices.

Example: DE -> OL -> EWLS -> 1 -> DRUCKER7

More information: * If this option is disabled, the location category will still be populated and the objects of existing locations will be mapped if available. * Existing location objects are searched using the SNMP location string. * Existing location objects may therefore be unnamed as long as the SNMP location string matches. * New location objects are always created as a "Location Generic" object type. * The NeDi location string is not written to the category of the device because it is already stored in the linked location object and would otherwise be assigned twice.

Default value: disabled

Object type for new locations

Defines the type of object that will be used for the new locations when the "Create and Link Locations as Objects" option is activated. By default, this is "Location Generic". This

However, object type is hidden by default in i-doit and must therefore be shown in a roundabout way. If you want to use the "Location Generic" object type:

- To do this, open the newly imported object that has been created as an object type "Location Generic"
- Copy the object ID from the URL (e.g. objTypeID=30)
- Go to Administration -> Data Structure -> Object Types and open any object type
- Paste the copied object ID into the URL (e.g. objTypeID=30)
- Click Edit and select a group under "Object Type Group"

Link locations by title

If the location cannot be found from NeDi using the SNMP location string, you can also try to link the location by the title. Only objects whose object type is considered a location are taken into account. This can be looked up in the object type configuration of i-doit. Caution: If there are multiple locations with the same title, incorrect locations may be linked.
Default value: disabled

Separators for locations

Here you can specify the separator for the location hierarchy. By default, this is ";".

Example: DE; Orienteering; EWLS; 1; DRUCKER7

Object ID of the root location

Here you can specify an object ID that is used as the root location for the created locations. It is a good idea to use the default root location with the object ID 1. If no object ID is specified, no root location is used.

This option can be useful if the SNMP location string does not contain the root location and the devices from an import should be classified in a meaningful way.

Categories

> Note on the Contact Assignment category
>
> An assignment can be made via three attributes: object title, e-mail address or login. Contacts found are given the role "NeDi". In the event of changes, the existing "NeDi contact" will be replaced by the new one.

Pre-selected categories for import

Here you can select the categories that should be imported by default. * Via the interface: These categories are then pre-selected in the mask for import. * From the console: Only these categories will be imported. If no categories are selected, all available categories are imported.

Ignore host addresses from unknown Layer 3 networks

If enabled, host addresses from Layer 3 networks that are not known in i-doit (other than the Global Network) will not be imported. This can be particularly useful for addresses from the DHCP area.

Keep old host addresses during import

If enabled, old host addresses are not deleted during import. By default, all host addresses that do not exist in NeDi are removed.

Permissions

In the i-doit settings (Administration -> Permissions -> NeDi), different parts of the package can be activated or locked for different users or groups.

- Run: The user is allowed to import Nedi devices.
- Edit: The user is allowed to create and edit NeDi sources in the NeDi configuration.
- Delete: The user may remove stored NeDi sources.

Changelog

2.0.0

- Added config parameter to db settings (#10)
- Added option to define an object type blacklist for import
- Added option to configure own nedi objecttype mapping (#42)
- Added title to database configs, added button to duplicate config
- Added filter for location & address
- Improved location creation handling based on syslocation string (#44)
- Added config option to delete old host addresses (#7)
- Added config option to skip host address for unknown layer-3-nets (#7)
- Add contact assignment to categories (#38)
- Added more options to control location import (#2)
- Added option to define location object type for import
- Added licence and permission checks
- Added config to preselect categories
- Enable Nedi category for specific object types on install
- Added config option to define default node object type
- Added button to test database connection
- Added option to set default nedi db
- Updated icons to new i-doit style
- Added nedi raw device information to import dialog
- Fixed import of nodes, added config option (#4)
- Refactoring Javascript Integration, Command Modules, Dao Objects
- Removed unused code
- Renamed nedi to sectornord_nedi
- Added documentation

0.4.2

- Refactoring modules import for i-doit 34
- Fixed memory error during import
- Removed API module requirement

0.4.1

- Fixed permission check during config creation
- Bug Fixing

0.4.0

- Updated package base with new i-doit features
- Added i-doit category to package
- Fixed import timestamp in list
- Fixed overwriting title on import
- Added more options to manage permissions
- Added option to import specific device from console
- Bugfixing & refactoring

0.3.9

- Fixed automatic net assignments by ip range
- Fixed passive cables during import
- Cables are no longer replaced by default cables during import
- Write logbook entries during import
- Fixed multiple connected vlans to ports

0.3.8

- Added support for i-doit 27
- Fixed some bugs