
idoitAPI

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idoitAPI is a Python Class to access the [i-doit JSON-RPC API](#).

Note: This project is work in progress.

INDICES AND TABLES

- `genindex`

IDOITAPI

```
class idoit.IdoitAPI(base_url, verify, language, username=None, password=None, apikey=None)
```

Python3 class to access i-doit JSON-RPC API

API methods - Namespace idoit:**Methods currently available in the i-doit JSON-RPC API**

- idoit.search - Implemented
- idoit.version - Implemented
- idoit.constants - Implemented
- idoit.login - Implemented
- idoit.logout - Implemented

API methods - Namespace cmdb:**Methods currently available in the i-doit JSON-RPC API**

- cmdb.object.create - Implemented
- cmdb.object.read - Implemented
- cmdb.object.update - Implemented
- cmdb.object.delete - Implemented
- cmdb.object.recycle - Implemented
- cmdb.object.archive - Not implemented
- cmdb.object.purge - Not implemented
- cmdb.object.markAsTemplate - Not implemented
- cmdb.object.markAsMassChangeTemplate - Not implemented
- cmdb.objects.read - Implemented
- cmdb.category.save - Implemented
- cmdb.category.create - Not Implemented
- cmdb.category.read - Implemented
- cmdb.category.update - Not implemented
- cmdb.category.delete - Not implemented
- cmdb.category.quickpurge - Implemented - UNTESTED FIXXXME
- cmdb.category.purge - Implemented

- `cmdb.category.recycle` - Not implemented
- `cmdb.category.archive` - Not implemented
- `cmdb.dialog.read` - Implemented
- `cmdb.dialog.create` - Not implemented
- `cmdb.dialog.update` - Not implemented
- `cmdb.dialog.delete` - Not implemented
- `cmdb.reports.read` - Implemented

Parameters

- **`base_url`** – str: Domain Name
- **`verify`** – bool: Verify SSL Connection?
- **`language`** – str: The Language your are using e.g. en or de
- **`username`** – str: your Username - can be left empty and set by environment variable `IDOIT_USERNAME`
- **`password`** – str: your Password - can be left empty and set by environment variable `IDOIT_PASSWORD`
- **`apikey`** – str: API Key for this i-doit instance - can be left empty and set by environment variable `IDOIT_APIKEY`

Raises

- **`requests.HTTPError`** – Raised by requests lib.
- **`ValueError`** – Raised when JSON-RPC PORT request returns not HTTP 200 statuscode.
- **`SystemError`** – Raised when credentials are missing (username, password or apikey).

`log_json_request`

bool: Set to *True* to log JSON requests send to i-doit.

`_api_login()`

Login into i-doit and set session ID for later use

- Uses: `idoit.login`

`api_logout()`

Terminate active session to i-doit

- Uses: `idoit.logout`

`copy_location(from_obj_id, to_obj_id)`

Copy location from one object to another

Parameters

- **`from_obj_id`** – int: Object ID of i-doit object to copy from
- **`to_obj_id`** – int: Object ID of i-doit object to copy to

Returns

Dict with keys 'title', 'id', 'location_path' or raise exception as returned by `get_location()`

create_object_by_type(*obj_type*, title='Default Title - CHANGEME', status=1, category=None, description=None, purpose=None, categories=None, batch_request=False)

Create a new Object of a certain type

- Uses: `cmdb.object.create`

Parameters

- **obj_type** – str: Object type constant to fetch.
- **title** – str: Descriptive title of object.
- **status_id** – int: CMDB status ID (planned, inoperative, etc.).
- **category** – str: **Category constant**.
- **description** – str: Description of object.
- **purpose** – str: Purpose (constant?) of object (production, test, dev, etc.).
- **categories** – dict: Categories to populate.

Some Object Types

- ??: int: 'C__OBJTYPE__PATCH_PANEL'
- 35: int: 'C__OBJTYPE__OPERATING_SYSTEM'
- 7: int: 'C__OBJTYPE__ROUTER'
- 6: int: 'C__OBJTYPE__SWITCH'
- 5: int: 'C__OBJTYPE__SERVER'

CMDB status IDs

- 1: int: planned
- 2: int: ordered
- 3: int: delivered
- 4: int: assembled
- 5: int: tested
- 6: int: in operation - constant 'C__CMDB_STATUS__IN_OPERATION'
- 7: int: defect
- 8: int: under repair
- 9: int: delivered from repair
- 10: int: inoperative
- 11: int: stored - constant 'C__CMDB_STATUS__STORED'
- 12: int: scrapped
- 15: int: swapped

Returns

JSON object of response or raise exception.

delete_object(*obj_id*, move_to='C__RECORD_STATUS__ARCHIVED', batch_request=False)

Delete an object from CMDB, per default delete = archived

- Uses: `cmdb.object.delete`

Parameters

- **obj_id** – int: Object ID of i-doit object
- **move_to** – str: **Status constant** to move to

Returns

JSON object of response or raise exception.

Status constants

- “C__RECORD_STATUS__ARCHIVED”: str: Archived object
- “C__RECORD_STATUS__DELETED”: str: Mark object as deleted

extract_contract_assignment(*jsonrpc_response*)

Extract contract assignment from response of json-rpc call to ‘C__CATG__CONTRACT_ASSIGNMENT’
:param jsonrpc_response: str: json-rpc response object

Returns

Dict with contract ‘title’ and ‘id’ if contract is set, else None

extract_general(*jsonrpc_response*)

Extract title, id, category, cmdb_status, description, purpose, tags from response of json-rpc call to ‘C__CATG__GLOBAL’ => to be used with get_general() :param obj_id: str: json-rpc response object

Returns

‘title’, ‘id’, ‘category’, ‘cmdb_status’, ‘description’, ‘purpose’, ‘tag’

Return type

Dict with keys

extract_location(*jsonrpc_response*)

Extract title, location ID and path of location from response of json-rpc call to ‘C__CATG__LOCATION’
=> to be used with get_location()

Parameters

jsonrpc_response – str: json-rpc response object

Returns

‘title’, ‘id’, ‘location_path’ or raise exception

Return type

Dict with keys

extract_service_assignment(*jsonrpc_response*)

Extract service assignment from response of json-rpc call to ‘C__CATG__IT_SERVICE’ :param json-rpc_response: str: json-rpc response object

Returns

Dict with contract ‘title’ and ‘id’ if service is set, else None

find_host_ip_serial(*host=None, ip_addr=None, serial=None*)

Query i-doit for a set of hostname, IP address and serial number in a single call.

Parameters

- **host** – str: hostname to look for, might be empty
- **ip** – str: ip address to look for, might be empty
- **serial** – str: serial number to look for, might be empty

Returns

Dictionary with given host, IP, serial as keys and a list of object IDs with matching results as value. Only keys with search results will be present.

find_rack(*r_title*)

Query i-doit for an object type ‘enclosure’ with a given title :param r_title: str: Enclosure title

Returns

JSON object of response or raise exception.

get_all_firewalls()

Get a list of all devices in category Hardware->Firewall

- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_all_loadbalancers()

Get a list of all devices in category Hardware->Loadbalancer

- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_all_os()

Get a list of all available operating systems

- filter type 35 = OS
- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_all_routers()

Get a list of all devices in category Hardware->Routers

- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_all_servers()

Get a list of all devices in category Hardware->Servers

- filter type 5 = Server - constant 'C__OBJTYPE__SERVER'
- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_all_switches()

Get a list of all devices in category Hardware->Switches

- filter status 2 = Normal (not archived or deleted)

Returns

JSON object of response or raise exception.

get_category_from_object(obj_id, category, batch_request=False)

Read a certain category of an object

- Uses: `cmdb.category.read`

Parameters

- **obj_id** – int: Object ID of i-doit object.
- **category** – str: **Category constant**.

Returns

JSON object of response or raise exception.

get_category_hostaddress(*batch_request=False*)

get structure of category host address

Returns

JSON object of response or raise exception.

get_constants(*batch_request=False*)

Fetch defined constants from i-doit

- Uses: `idoit.constants`

Returns

JSON object of response or raise exception.

get_contact(*obj_id*)

Get category contact :param obj_id: int: Object ID of i-doit object to get contacts from

Returns

json rpc response

get_contract_assignment(*obj_id, batch_request=False*)

Get contract assignment from an object

Parameters

obj_id – int: Object ID of i-doit object

Returns

Dict with contract ‘title’ and ‘id’ if not batch_request

get_custom_category_info(*cat_c_id, batch_request=False*)

get structure of a certain custom category

Parameters

cat_c_id – str: Custom category constant

Returns

JSON object of response or raise exception.

get_dropdown_values(*category, property_name, batch_request=False*)

get values from drop down menus like manufacturer, model, CPU type etc. Use `get_global_category_info(<category>)` to find the property_name

get_filtered_objects(*filter_dict, categories=None, batch_request=False*)

Fetch a list of objects filtered by values in filter_dict and/or categories list

- Uses: `cmdb.objects.read`

Parameters

- **filter_dict** – dict: Dictionary with keys to filter request
- **categories** – str: List of **Category constant(s)**.

Returns

JSON object of response or raise exception.

get_general(*obj_id, batch_request=False*)

Get title, category, cmdb_status, description, purpose, tags from general ;param *obj_id*: int: Object ID of i-doit object to get general information from

Returns

dict

get_global_category_info(*cat_g_id, batch_request=False*)

get structure of a certain global category

Parameters

cat_g_id – str: Global category constant

Returns

JSON object of response or raise exception.

get_idoit_version(*batch_request=False*)

Fetch information about i-doit and the current user

- Uses: `idoit.version`

Returns

JSON object of response or raise exception.

get_ipv4_address(*obj_id, primary=True, fqdn=False*)

Fetch IPv4 Address from object. Per default the ‘primary_hostaddress’ will be returned.

Parameters

- **obj_id** – int: Object ID of i-doit object
- **primary** – bool: When primary=False first match for ‘hostaddress’ will be returned.
- **fqdn** – str: If fqdn is true a tuple (ip,fqdn) will be returned. **fqdn might be ‘None’!**

Returns

‘ip’ and maybe ‘hostname’

Return type

Dictionary with keys

get_location(*obj_id, batch_request=False*)

Get title, location ID and path of location from an object

Parameters

obj_id – int: Object ID of i-doit object

Returns

Dict with keys title, id, location_path or raise exception

get_object(*obj_id, batch_request=False*)

Read general informations of an object specified by it’s ID

- Uses: `cmdb.object.read`

Parameters

obj_id – int: Object ID of i-doit object

Returns

JSON object of response or raise exception.

get_object_type_categories_by_obj_type(*obj_type*, *batch_request=False*)

Fetch all categories that belong to a certain object

Parameters

obj_type – str: Object type constant to fetch

Returns

JSON object of response or raise exception.

get_objects_by_type(*obj_type*, *status=2*, *title=None*, *limit=None*, *batch_request=False*)

Fetch a list of objects filtered by obj_type, title, limit

- Uses: `cmdb.objects.read`

Parameters

- **obj_type** – int / str: Number or constant of object type
- **status** – int default 2 = Normal (not archived or deleted)
- **title** – str: Title of object
- **limit** – int / str: default no limit, can be fixed or with offset

limit:

- 1000: int: get 1000 objects
- '1000, 1000': str: with offset, here *get the next thousand object*

Returns

JSON object of response or raise exception.

get_report(*rep_id*)

Get the results of a predefined report

Parameters

rep_id – int: ID of the predefined report

Returns

JSON object of response or raise exception.

get_service_assignment(*obj_id*, *batch_request=False*)

Get service assignment from an object

Parameters

obj_id – int: Object ID of i-doit object

Returns

Dict with contract 'title' and 'id' if not batch_request

get_specific_category_info(*cat_s_id*, *batch_request=False*)

get structure of a certain specific category

Parameters

cat_s_id – str: Specific category constant

Returns

JSON object of response or raise exception.

get_version()

Get version of this class

purge_object(obj_id, category, entry, batch_request=False)

Purge category entry of an object from CMDB, for example ip entries from category host address

- Uses: `cmdb.category.purge`

Parameters

- **obj_id** – int: Object ID of i-doit object
- **category** – str: Category constant
- **entry** – int: Entry identifier

Returns

JSON object of response or raise exception.

quickpurge_object(obj_id, category, cat_e_id, batch_request=False)

UNTESTED FIXXXME - Purge category entry of an object from CMDB - if quickpurge is active

- Uses: `cmdb.category.quickpurge`

Parameters

- **obj_id** – int: Object ID of i-doit object
- **category** – str: Category constant
- **cat_e_id** – int: Entry identifier

Returns

JSON object of response or raise exception.

recycle_object(obj_id, batch_request=False)

Move object from archived or deleted back to normal

- Uses: `cmdb.object.recycle`

Parameters

obj_id – int: Object ID of i-doit object

Returns

JSON object of response or raise exception.

remove_all_ip_addresses(obj_id)

remove all ip entrys from object :param obj_id: int: Object ID of i-doit object to remove IPs from

Returns

‘entry_id’, ‘ip’, ‘hostname’, ‘domain’, ‘is_primary’

Return type

List of dicts with keys

remove_ip_entry(obj_id, ip_address)

remove given ip entry from object :param obj_id: int: Object ID of i-doit object to remove IPs from :param ip_address: str: IP to remove

Returns

json rpc response

search_text(*text*, *batch_request=False*)

Simple search - like in i-doit top right

- Uses: `idoit.search`

Parameters

text – str: Text to search for.

Returns

JSON object of response or raise exception.

send_batch()

Submit the currently queued requests and clear the list of queued requests.

Returns

Tuple with result of batch request, batch list that has been send and dictionary with keys = JSON-RPC request ID.

send_rpc(*method*, *params_dict*, *header=None*, *batch_request=False*)

Generic method to send json-rpc call to server. Only set method and method specific params. Parameters like **apikey** and **language** etc will be added.

Parameters

- **method** – dict: JSON-RPC method to use
- **params_dict** – dict: Method specific parameters.
- **header** – dict: Header if other than default needs to be used.

Returns

JSON object of response or raise exception.

send_rpc_d(*data*, *batch=False*)

Generic method to send json-rpc call to server

Parameters

- **data** – dict: supply your own data dictionary
- **batch** – bool: RPC call is batch request.

Returns

JSON object of response or raise exception or when batch is True dictionary with object IDs as keys.

set_contract_assignment(*obj_id*, *contract_id*, *batch_request=False*)

Set contract assignment from an object

Parameters

- **obj_id** – int: Object ID of i-doit object
- **contract_id** – int: Contract ID of contract to assign

Returns

Dict with contract 'title' and 'id' if not batch_request

set_general(*obj_id*, *g_dict*, *batch_request=False*)

Set 'title', 'category', 'cmdb_status', 'description', 'purpose', 'tags' from dict in general

Parameters

- **obj_id** – int: Object ID of i-doit object to get contacts from

- **g_dict** – dict: Dictionary with vales to set, purpose and tags might be empty ‘category’, ‘purpose’ and ‘tags’ are not set if None

Purpose IDs

- ‘1’: int: Produktion
- ‘2’: int: Integration

CMDB status IDs

- 1: int: planned
- 6: int: in operation
- 10: int: inoperative
- 11: int: stored

Returns

json rpc response

set_ipv4_address(*obj_id, dev_ip, is_primary=False, hostname=None, fqdn=None, batch_request=False*)

Set IPv4 address and / or hostname, fqdn

Parameters

- **obj_id** – int: Object ID of i-doit object to get contacts from
- **dev_ip** – str: IP address to set
- **is_primary** – bool: set to True if this is the primary address / hostname
- **hostname** – str: hostname to set
- **fqdn** – str: fqdn to set

Returns

json rpc response

set_location(*obj_id, location_id, batch_request=False*)

Set location path of an object

Parameters

- **obj_id** – int: Object ID of i-doit object
- **location_id** – int: Location ID from extract_location()[1]

Returns

json rpc response

set_service_assignment(*obj_id, service_id, batch_request=False*)

Set service assignment from an object

Parameters

- **obj_id** – int: Object ID of i-doit object
- **service_id** – int: Service ID of service to assign

Returns

json rpc response

update_cmdb_status(*obj_id, status_id, batch_request=False*)

Update CMDB Status of an Object - status IDs are listed in create_object_by_type()

Parameters

- **obj_id** – int: Object ID of i-doit object.

- **status_id** – int: CMDB status ID (planned, inoperative, etc.).

Returns

JSON object of response or raise exception.

update_object_category(*obj_id, category, data_dict, batch_request=False*)

Update some entries of an object in a certain category.

- Uses: `cmdb.category.save`

Parameters

- **obj_id** – int: Object ID of i-doit object.
- **category** – str: **Category constant**.
- **data_dict** – dict: Dict with entries to update.

Returns

JSON object of response or raise exception.

update_object_category_entry(*obj_id, category, entry_id, data_dict, batch_request=False*)

Update an entry in a category of an object.

- Uses: `cmdb.category.save`

Parameters

- **obj_id** – int: Object ID of i-doit object.
- **category** – str: **Category constant**.
- **entry_id** – int: ID of entry to be updated.
- **data_dict** – dict: Dict with entries to update.

Returns

JSON object of response or raise exception.

update_object_title(*obj_id, title, batch_request=False*)

Update the title of a certain object

- Uses: `cmdb.object.update`

Parameters

- **obj_id** – int: Object ID of i-doit object.
- **title** – str: Descriptive title of object.

Returns

JSON object of response or raise exception.

MODULES

3.1 idoitSettings

A dict which should be named **settings** as configuration file for a specific i-doit instance. Pass it as **parameter** when creating a new object from this class.

```
username ``str``  
    your Username  
password ``str``  
    your Password  
apikey ``str``  
    API Key for this i-doit instance  
base_url ``str``  
    Domain Name  
verify ``bool``  
    Verify SSL Connection?  
language ``str``  
    The Language your are using e.g. en or de
```


EXAMPLES

4.1 Example_add_new_switch.py

Example-Script for i-doit API class - add a new switch to idoit / create new switch object

4.2 Example_connect_ports.py

Example-Script for i-doit API class - Connecting and / or creating ports

4.3 Example_Constants.py

Example-Script for i-doit API class - Display all available constants from idoit (Method cmdb.constants)

- show structure of one of the global categories (Method cmdb.category_info)
- show structure of one of the specific categories (Method cmdb.category_info)
- show structure of one of the custom categories (Method cmdb.category_info)
- show a certain category of an specific object (Method cmdb.category.read)

4.4 Example_create_panel_1ru_24x_rj45.py

Example-Script for i-doit API class - Create 19' Patchpanel with height 1RU and 24x RJ45 Ports

```
examples.Example_create_panel_1ru_24x_rj45.create_panel_1ru_24x_rj45_new(pan_title, prefix_in,  
                                                                           in_start_nr,  
                                                                           prefix_out,  
                                                                           out_start_nr)
```

Create 19' Patchpanel with height 1RU and 24x RJ45 Ports

Parameters

- **pan_title** – str: Name of patchpanel
- **prefix_in** – str: Prefix of input port
- **in_start_nr** – int: Number of first input port
- **prefix_out** – str: Prefix of output port

- **out_start_nr** – int: Number of first output port

Returns

Object ID of new panel.

4.5 Example_find_name_ip_serial.py

Example-Script for i-doit API class - Demo usage of method find_host_ip_serial()

4.6 Example_List_Switch_Info.py

Example-Script for i-doit API class - Demo usage of method get_all_switches()

- get all switches which are in operation ('cmdb_status_title': 'In Betrieb', 'cmdb_status': 6)
- list: Title, ObjID, Hostname, Domain and IP (address informations from category C__CATG__IP)

4.7 Example_read_CMDB_status_of_device.py

Example-Script for i-doit API class - Query CMDDB status of a device

4.8 Example_Request_grouping.py

Example-Script for i-doit API class - group multiple JSON requests in one HTTP call - batch requests

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