com_lib

Python 3 implementation of an abstraction layer for the communication with a device through a (virtual) serial port.

Installation

Via git

Clone the official repository into your local workspace / project folder:

```
$git clone <repository_path> "your projects folder"/com_lib
```

Check the system requirements and dependencies:

```
$cd "your projects folder"/com_lib
$python3 ./check_dependencies.py
```

Install all missing requirements and re-check, untill all requirements are met.

For developers only

Initialize the UML templates submodule

```
$cd "your projects folder"/com_lib/Documentation/UML/Templates
$git submodule init
```

Download the content of the UML templates submodule

```
$git submodule update --recursive --remote
```

Via pip

You need a personal access token (with *api* scope), a deploy token (with *write_package_registry* scope) or a CI job token from GitLab. The installation command is:

```
pip install com_lib  --extra-index-url https://<token_name>:
<token_value>@gitlab.com/api/v4/projects/25522607/packages/pypi/simple
```

The *pip* package manager should be able to find and install all missing dependencies automatically. However, the documentation is not included, only the source code and the test modules.

Please, consider using virtual enviroment in order to not mess with the global Python installation.

System requirements

- Operational system: - any supported by the Python language developers (see tested_OS), e.g.
  - MS Windows (8, 10)
  - MacOS X
  - GNU Linux
- Python 3.6+ interpreter with the 'pip' installed
  - On POSIX systems (MacOS X, Linux) comes pre-installed
  - On MS Windows must be installed from Python website
- Other required Python libraries, developed at Diagnoptics (see dependencies) - added automatically if this library is installed via *pip*
  - Check-out via git or download from GitLab repository
  - Place them into the same project folder `"your projects folder"` side by side with this *com_lib* library

Documentation

- Design
- Requirements
- Tests
- User and API References

Library components