



IO Template Documentation

Manual

IO-Aero Team

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Introduction

TODO

Requirements

The required software is listed below. Regarding the corresponding software versions, you will find the detailed information in the [Release Notes](#).

- Operating System

Continuous delivery / integration (CD/CI) runs on **Ubuntu** and development is done with **Windows 10**. For the Windows operating systems, only additional the functionality of the ``make`` tool must be made available, e.g. via [Make for Windows](#).

- [Python](#)

Because of the use of the new typing features, at least version 3.10 is required.

- [GDAL](#)

GDAL is an open source MIT licensed translator library for raster and vector geospatial data formats.

- [Rasterio](#)

Geographic information systems use GeoTIFF and other formats to organize and store gridded, or raster, datasets. Rasterio reads and writes these formats and provides a Python API based on N-D arrays.

Installation

TODO

Configuration

4.1 settings.io_autonomy.toml

This file controls the behaviour of the **IO-TEMPLATE** library.

The customisable entries are:

Parameter	Default	Description
is_verbose	true	Display progress messages for processing.

The configuration parameters can be set differently for the individual environments (`dev`, `prod` and `test`).

Examples:

```
[default]
is_verbose = true
[dev]
[prod]
[test]
is_verbose = true
...
```

First Steps

TODO

Advanced Usage

TODO

iotemplate package

7.1 Submodules

7.2 iotemplate.io_config module

Managing the application configuration parameters.

7.3 iotemplate.io_glob module

Global constants and variables.

7.4 iotemplate.io_utils module

Miscellaneous helper functions.

`iotemplate.io_utils.initialise_logger () → None`
Initialise the root logging functionality.

`iotemplate.io_utils.progress_msg (is_verbose: bool, msg: str) → None`
Create a progress message.

Parameters

- **is_verbose** (*bool*) – If true, processing results are reported.
- **msg** (*str*) – Progress message.

`iotemplate.io_utils.progress_msg_core (msg: str) → None`
Create a progress message.

Parameters **msg** (*str*) – Progress message.

`iotemplate.io_utils.terminate_fatal (error_msg: str) → None`
Terminate the application immediately.

Parameters **error_msg** (*str*) – Error message.

7.5 Module contents

IO-TEMPLATE.

Release Notes

8.1 Version 1.0.0

Release Date: dd.mm.2023

8.1.1 1 New Features

- TODO

8.1.2 2 Modified Features

- TODO

8.1.3 3 Deleted Features

- TODO

8.1.4 4 Applied Software

TODO

Component	Version	Remark	Status
xxx	9.9.9	xxx	xxx

Windows-specific Software

Component	Version	Remark	Status
xxx	9.9.9	xxx	xxx

8.1.5 5 Open Issues

- TODO

8.2 Detailed Open Issues

- TODO

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