
RTC-Tools Water Allocation Documentation

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1.1 Getting Started

This package builds on top of [RTC-Tools 2](#), and also relies heavily on the [ChannelFlow](#) library.

1.1.1 Installation

Installation of the RTC-Tools Water Allocation library is as simple as:

```
pip install rtc-tools-water-allocation
```

1.1.2 Introduction

RTC-Tools Water Allocation consists of a bunch of mixins, classes, and helper routines. The overall structure is as follows:

1. `WaterAllocationMixin` Lowest level class, where you are required to specify all goals yourself. It provides additional methods for forcing goals and range goals, which are then automatically translated into the correct goal formulation.
2. `GoalGeneratorMixin` Middle-level class. You can specify certain so-called `GoalDefinition` objects, which are translated into goals when the corresponding timeseries exist.
3. `ConfigGoalGeneratorMixin` High-level class. You can specify the goal definitions in text files instead of Python.

In addition to this layered approach, there are also some helper functions:

1. `pattern_to_timeseries()` Generate Timeseries objects based on a (repeating) datetime pattern specification.
2. `csv_pattern_to_timeseries()` You can specify the patterns with CSV files instead of Python.

1.1.3 Contribute

You can contribute to this code through Pull Request on [GitLab](#). Please, make sure that your code is coming with unit tests to ensure full coverage and continuous integration in the API.

1.2 Support

Raise any issue on [GitLab](#) such that we can address your problem.

1.3 Python API

1.3.1 Water Allocation

1.3.2 Goal Generators

1.3.3 Goals

1.3.4 Helper modules

1.4 Examples

Sorry, no examples to show yet.

CHAPTER 2

Indices and tables

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- `modindex`
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