15 Scenario Module

Scenario Module Configuration

The scenarios module from Delft FEWS is used for generating scenario time series sets in a running forecast. These scenario time series sets are used to transform model input and output time series sets.

In stand alone forecasting system a forecaster may want to run scenarios, or alternative forecast, by using simple transformations on time series. The parameters used in the transformations are time series sets generated from coefficients inserted in the scenarios display.

When available as configuration on the file system, the name of the XML file for configuring an instance of the scenarios module called for example Makescenarios may be:

Makescenarios 1.00 default.xml

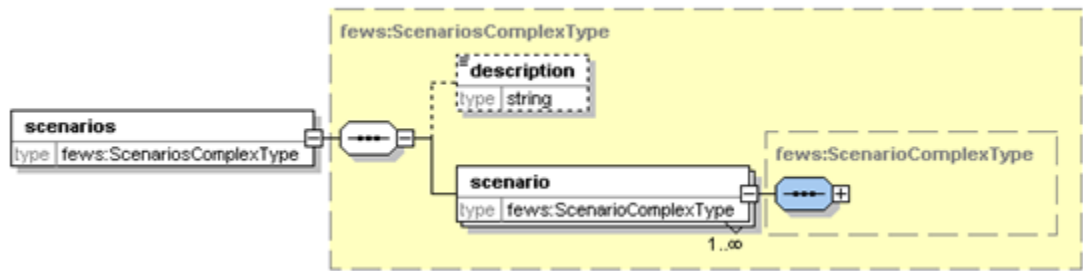| Makescenarios	File name for the Makescenarios configuration.
1.00	Version number
default	Flag to indicate the version is the default configuration (otherwise omitted).

Figure 140 Root element of the scenarios module.

Scenario

Root element for the definition of a scenario. Multiple entries may exist.

Attributes;

- **Id** : id of the scenario defined. Used for reference purposes only. This Id will be included in log messages generated.
- **Name** : name of the scenario defined. Used to show in the scenario display.
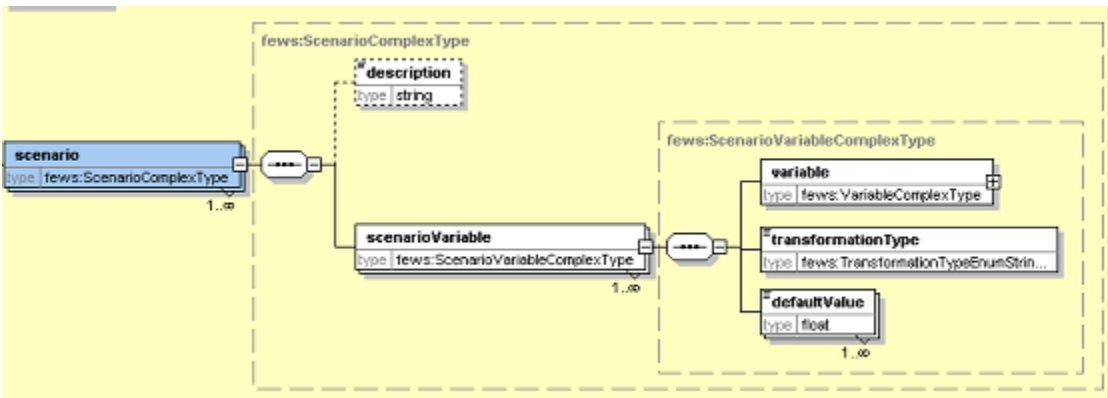

Figure 141 Elements of the scenarios configuration.

description

The description is only used to give some background information on the scenario.,

scenarioVariable

Main element in the definition of a scenario. Multiple entries may exist.

variable

Definition of a variable in the scenario variable. Multiple entries may exist. The variable has a variableid as attribute and includes a time series set.

TimeSeriesSets

TimeSeriesSet defining the data to be generated from the variable values and transformation type.

transformationType

The transformationType is an enumeration of transformation functions that can be used in the scenario.

- Equal
- Linearwithstartvalueandendvalue
- Linearwithstartvalueandincrement

defaultValue
The value used in the transformation function. For some of the transformation types multiple default value entries may exist.