

Configuring Delft-FEWS - Configuration Guide

Introduction

The Delft-FEWS configuration guide provides the advanced user of Delft-FEWS with the information required to set-up and maintain a configuration of Delft-FEWS. The objective of the guide is to be used both as a reference manual during the development and maintenance of an implementation of Delft-FEWS, as well as to provide some of the background philosophy on how to go about setting up a forecasting system. It is expected that the reader of this guide has a basic understanding of Delft-FEWS and its structure. If not, the ["tips & tricks page for new configurators"](#) might be useful to visit first.

To understand how to configure Delft-FEWS, a good understanding of the structure of the configuration is required, see the following table:

section	description	Topics
01 Structure of a Delft-FEWS Configuration	Introduction to different parts of the Delft-FEWS configuration.	Elements of the configuration, naming conventions, XML Schemas and schema validation.
02 Data Handling in Delft-FEWS	Concepts used for handling data in Delft-FEWS.	Types of Time Series, Time Series Sets, Manual data edits
03 System Configuration	Configuration of system components.	E.g. Display settings, Few Explorer, Logging, Permissions, Color schemes
04 Regional Configuration	Various regional configuration components which relate to a specific regional FEWS systems (e.g. monitoring locations).	E.g. Locations, LocationSets, ModuleInstances, WorkflowDescriptors, Branches, Parameters, Grids, Filters, TimeSteps, Qualifiers, Polygons, Topologies, Thresholds, Historical Events.
05 Module Configuration	Configuration of available Modules, e.g. 'module instances'	E.g. interpolation of data or how to configure an external model such as ISIS (using the General Adapter Module) including how these can be configured to achieve the required functionality.
06 Workflow Configuration	Concepts for linking configured modules into logical tasks through configuration of workflows.	
07 Display Configuration	Configuration of user displays.	
08 Mapping Id's flags and units	Mapping information from external data sources.	
09 Module datasets and Module Parameters	Handling of static module data.	
10 Setting up an operational system	Elements for configuring Delft-FEWS as an operational system.	

11 Setting up a forecasting system	A brief introduction is on how to set-up a forecasting system.	Approaches for more advanced setup possibilities.
12 Configuration management Tool	A brief guide in the use of the configuration management module to support configuration.	
13 Additional Modules	Additional functionality available in additional modules available through Delft-FEWS.	
15 Connect external modules with a model adapter	Link third party models.	
17 Launcher Configuration	Optional configurable launch application for accessing Operator Client / ConfigManager / Admin Interface.	
18 FEWS data exchange interfaces	Webservices for data exchange, Fews Jdbc Server	
19 Parallel running of ensemble loops and activities on one forecasting shell instance	Advanced options for running workflows in parallel.	
20 Delft-FEWS as Command Line Runnable : Data Conversion Module - DCM	Generic application for filebased exchange / transformation / conversion of timeseries.	
21 Time Dependent Locations	Support for time dependent locations within Water Information System (WIS).	
Appendices	Colour names, GeoDatum, Time Zones, Units, Data quality flags, Synchronisation Levels	

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