



# **Delft-FEWS Basic Configuration Course**



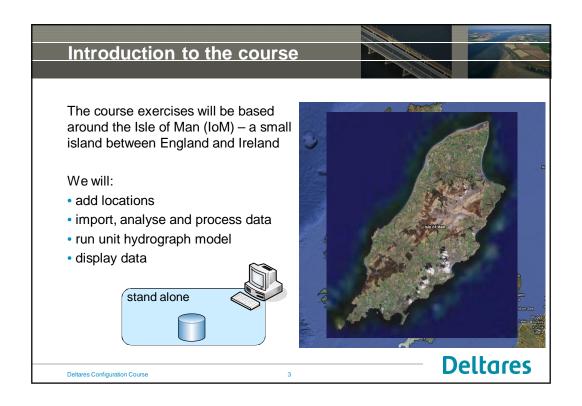
# **Basic Configuration Course**

#### Content

- Overview and basic configuration
- Tools
- Exercises
- Working with data imports, validation, thresholds
- Displays and workflows
- Interpolation and transformation
- Introduction to the general adapter

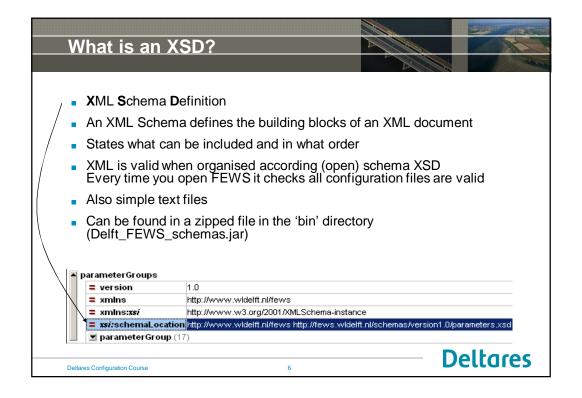
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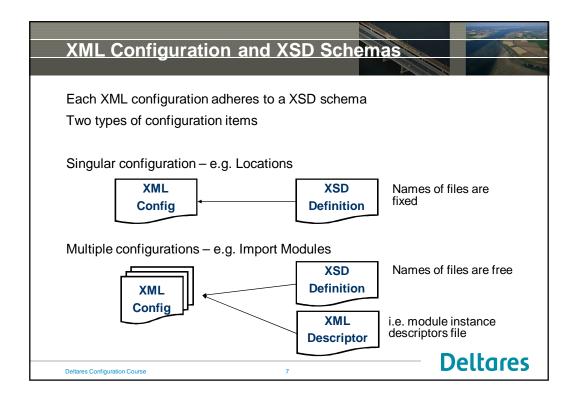
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## Firstly - what is XML anyway? All FEWS configuration files are written in XML format XML stands for EXtensible Markup Language – written in simple plain text XML tags are predefined by FEWS. Example: <note5 <to>Martin</to> </location> <from>Alex</from> <heading>Reminder</heading> <body>Don't forget support this weekend!</body> </note> </ComplexType > FEWS interprets the XML files using an XSD **Deltares** Deltares Configuration Course





# Naming Conventions & Version management

File naming convention – Singular configuration

Locations 1.00 default.xml

optional

Don't use this when you use a version system like subversion

Locations Fixed filename

1.00 Version number

default Flag indicating "active" configuration

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# Naming Conventions & Version management

File naming convention – Multiple configuration

ImportRTS 1.00 default.xml

ImportRTS Filename for this instance of the ImportModule

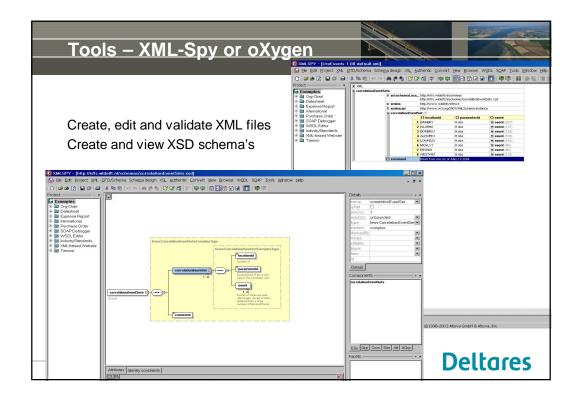
1.00 Version number

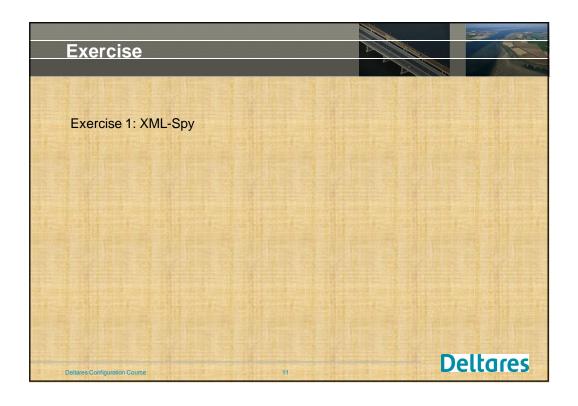
default Flag indicating "active" configuration

Each file must be "registered" in a descriptor file

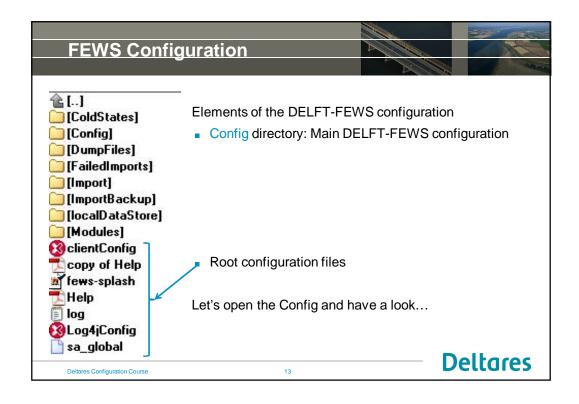
- Allowes for "readable" name
- . Identifies what configuration is

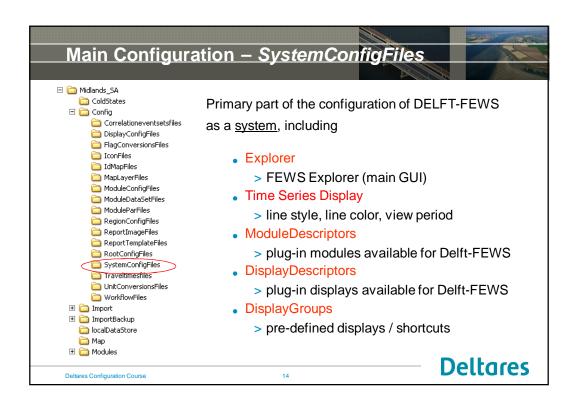
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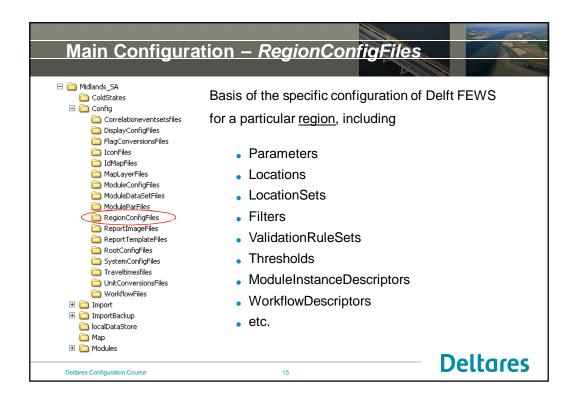


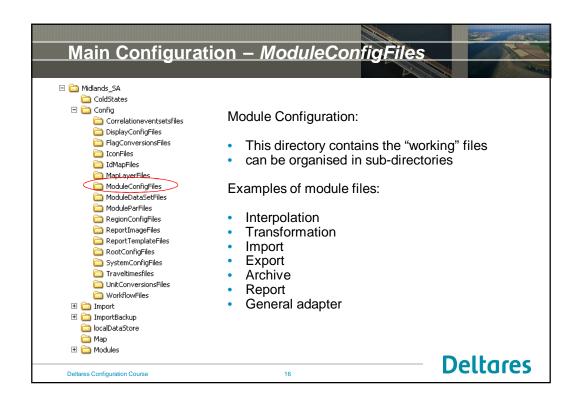


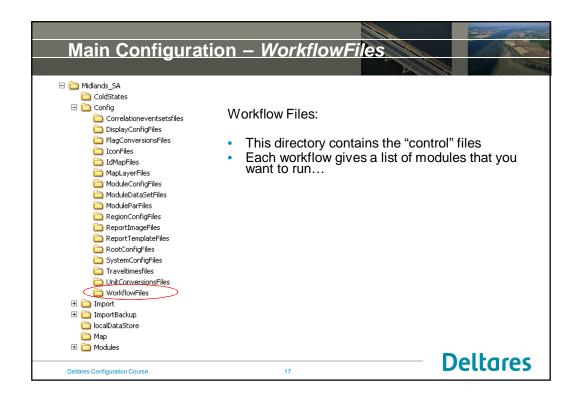


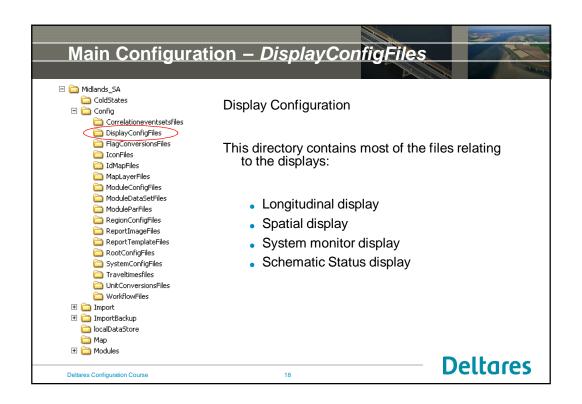


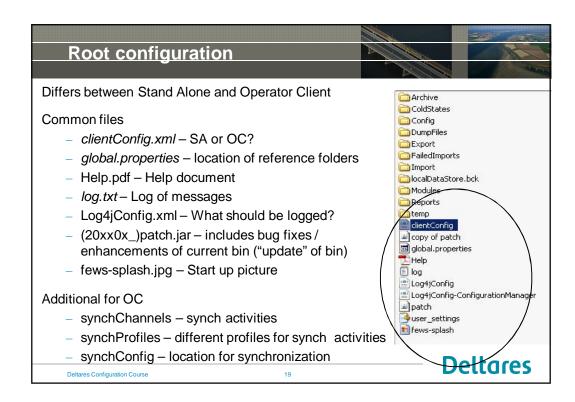












# **FEWS Configuration**

Where is the configuration?

- Primary Location (checked first): Local file system
- All files available as XML config file
- Naming convention described applies
- Secondary Location (synchronised): database
- Corresponding table for each section of configuration (e.g. Regional, System etc.)
- Associated default version table to identify active version

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# **FEWS Static Configuration Data**

#### Location data

- Locations
- Location Sets
- Location Icons

#### Parameters

- Parameters
- Time Series Display Configuration
- Parameter Unit Conversions

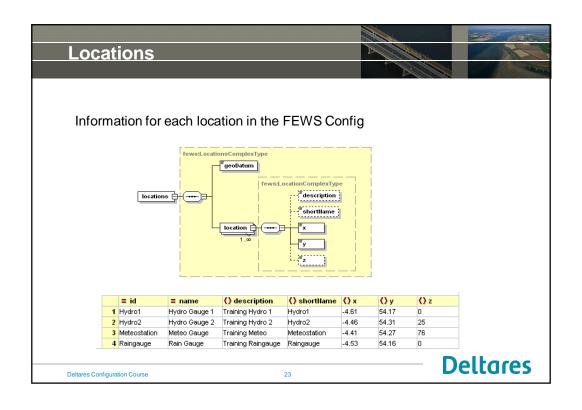
#### Maps and FewsExplorer

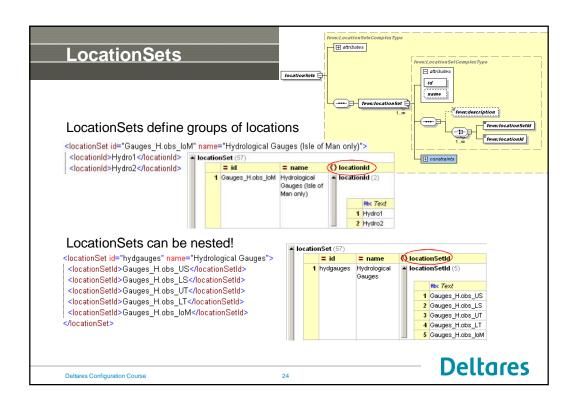
- OpenMap properties
- Grid Display
- FEWS Explorer

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#### Other Static Configurations

- Grids
- Branches





## LocationSets - the meta data approach

- XML was the basis for FEWS for many years ...but
- Location meta data often managed in other systems (e.g. GIS)
- Location coordinates in shape (.shp), associated attributes in tabular form (.dbf)
- Introduced to FEWS in 2007/2008
- Since 2013 also in .csv files
- easier to maintain locations
- Location attributes can be used to:
  - · compose location sets with similar characteristics
  - define idmaps (translation tables for importing/export data)
  - · define threshold crossing values
  - define range values for validation rules
  - define coefficients for calculations

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# Xml and CSV - the meta data approach

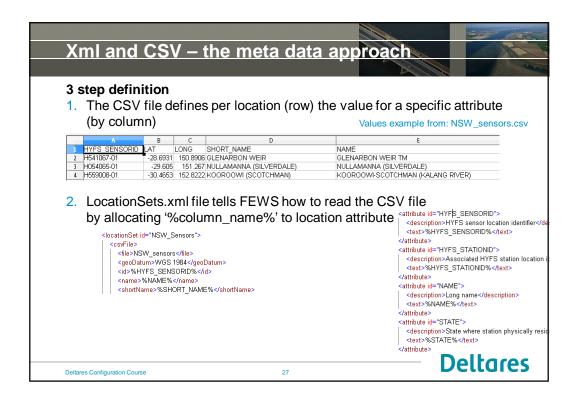
#### 3 step definition

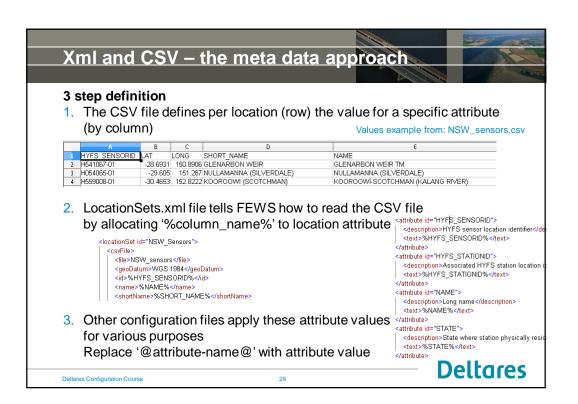
 The CSV file defines per location (row) the value for a specific attribute (by column)
 Values example from: NSW\_sensors.csv

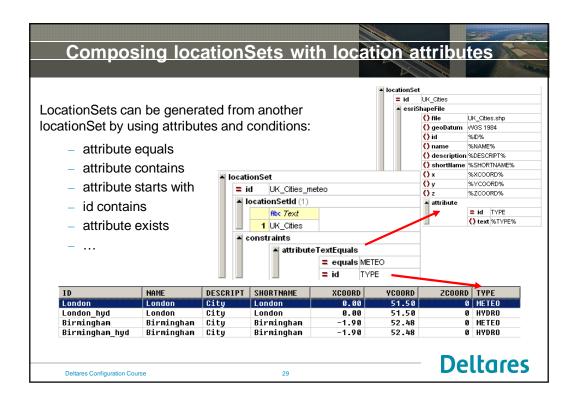
	A	В	С	D	E
1	HYFS SENSORID	LAT	LONG	SHORT_NAME	NAME
2	H541067-01	-28.6931	150.8906	GLENARBON WEIR	GLENARBON WEIR TM
3	H054065-01	-29.605	151.267	NULLAMANNA (SILVERDALE)	NULLAMANNA (SILVERDALE)
4	H559008-01	-30.4653	152.8222	KOOROOWI (SCOTCHMAN)	KOOROOWI-SCOTCHMAN (KALANG RIVER)

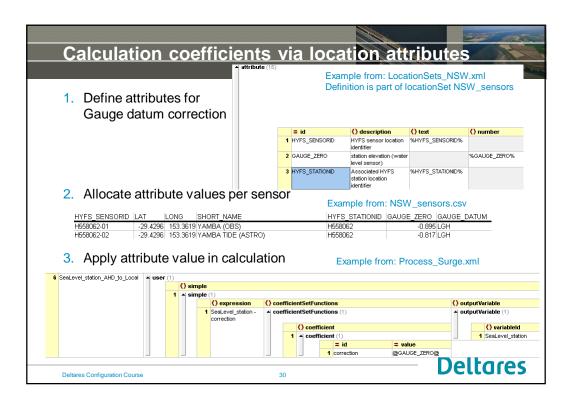
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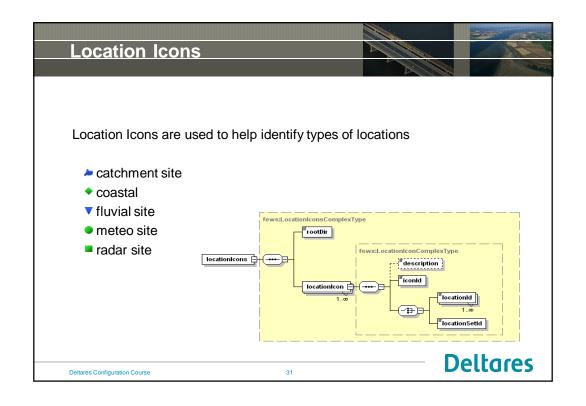
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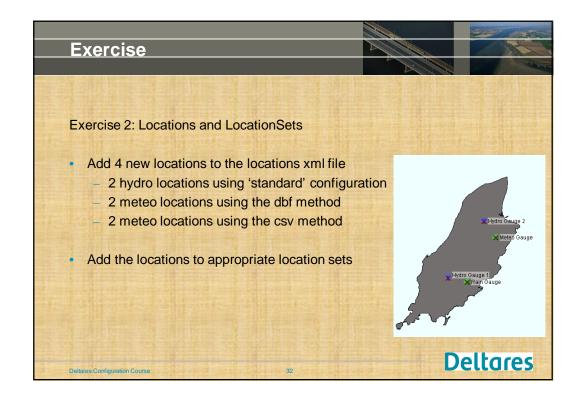


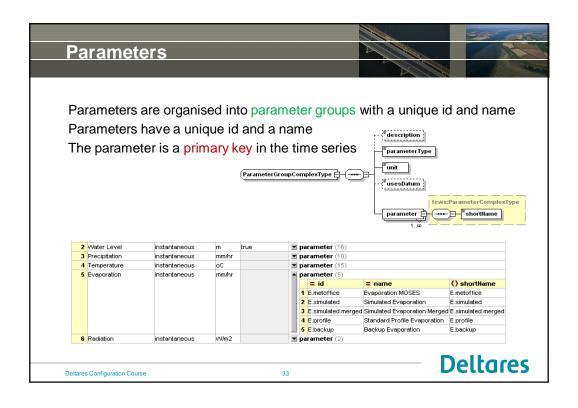


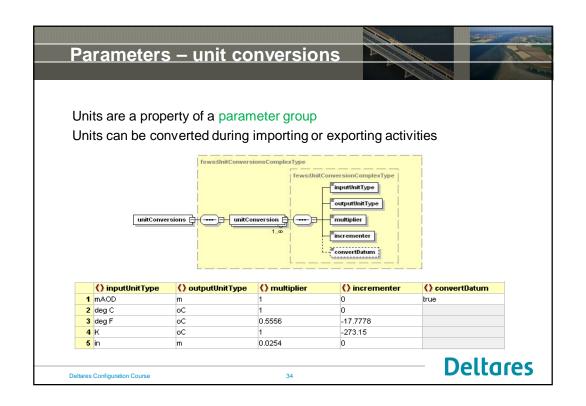


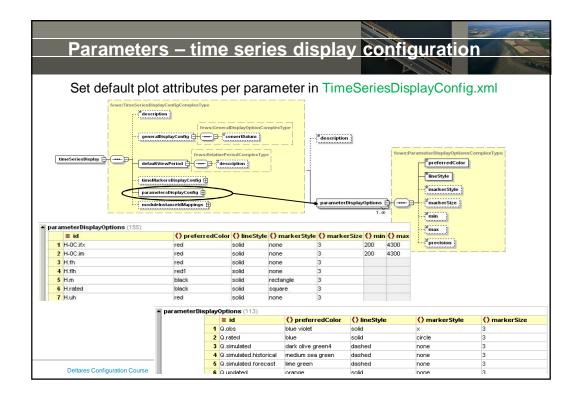


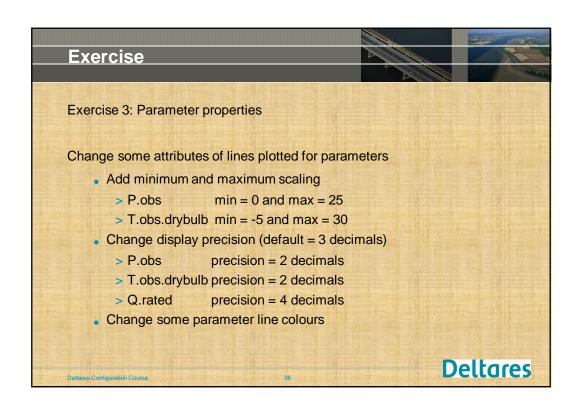


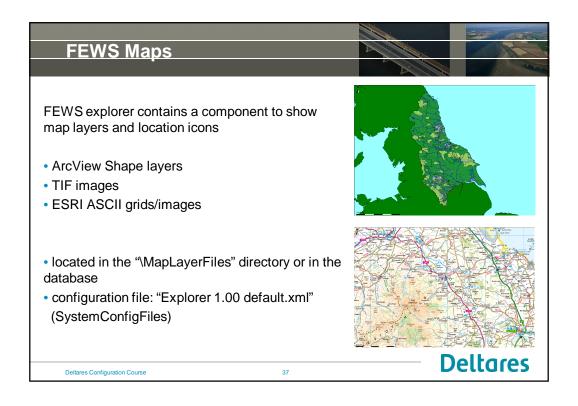


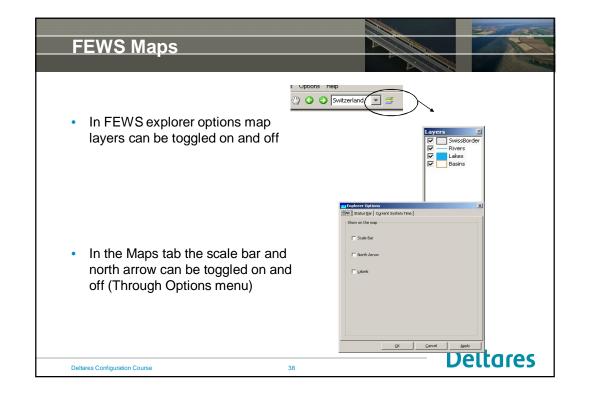


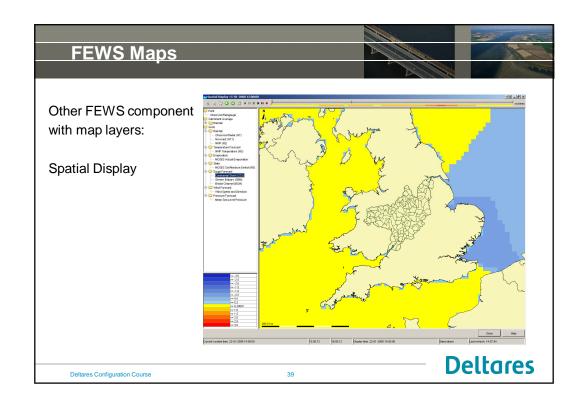


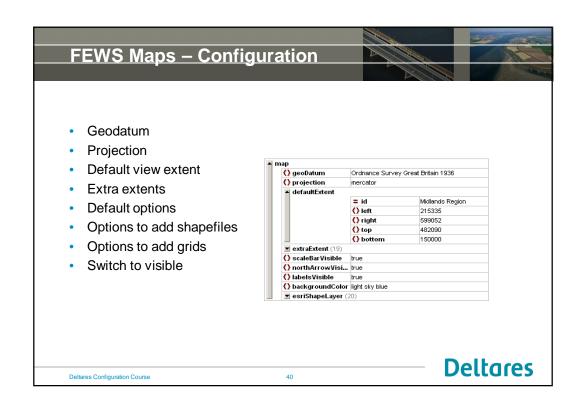


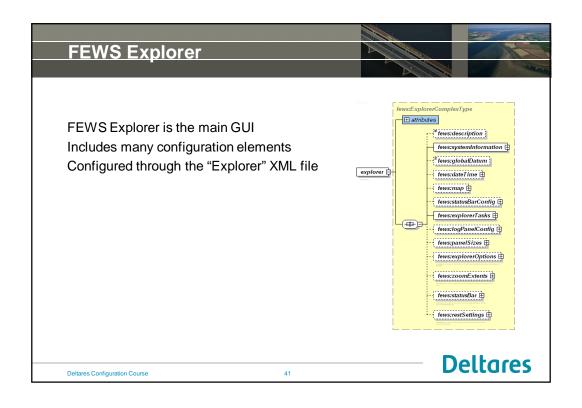


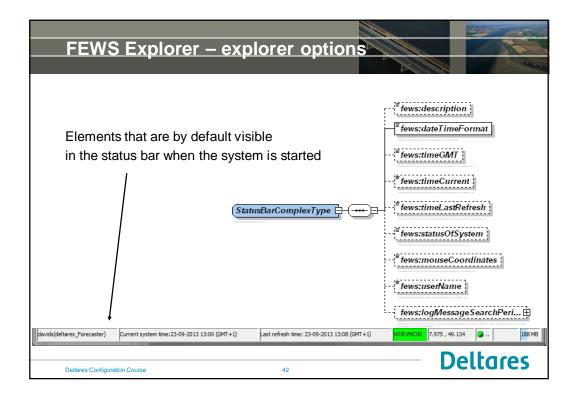


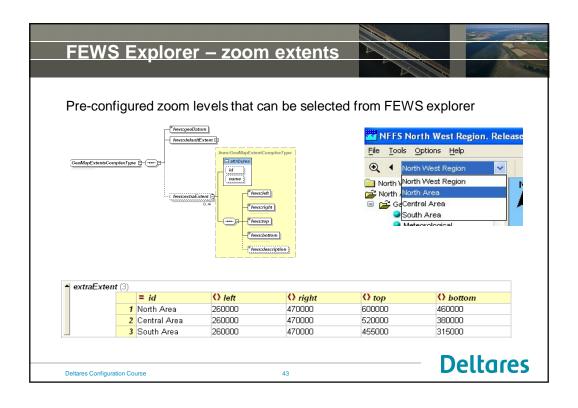


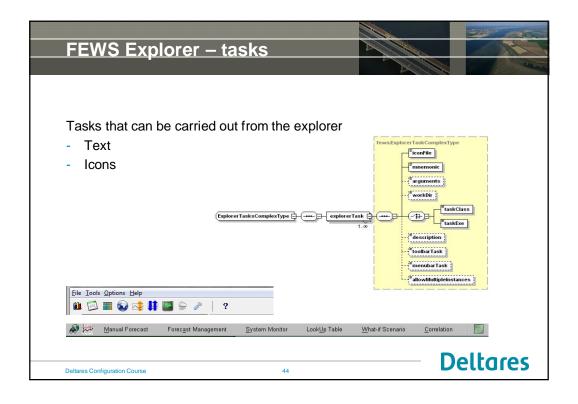


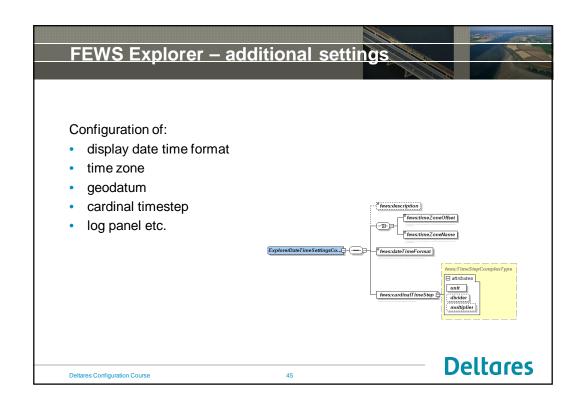


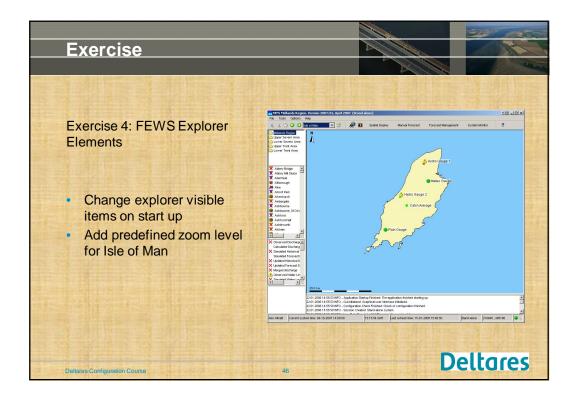












# Profile time series are one dimensional time series A location is required in the locations XML file Branches configuration file contains the time series In the configuration of the contains the time series Profile time series are one dimensional time series In the contains the time series

