Deltares

Enabling Delta Life

Delft-FEWS 2015.02 Release Notes

Deltares

Delft-FEWS 2015.02 Release Notes

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Contents

1 Introduction **1**

2 General Remarks **1**
2.1 The Delft-FEWS 2015.02 Release 1
2.1.1 Base Version 1
2.1.2 JRE Version 1
2.1.3 New Icon 1
2.1.4 Run clean-up script recommended 1
2.1.5 Check Attribute/CSV file Configuration at Startup (FEWS-14210) 2
2.1.6 Performance improvements, PostgreSQL upgrade recommended (FEWS-14206) 2
2.1.7 Firebird as default local data store format (FEWS-13737) 2
2.1.8 Compacting cache files (FEWS-13738) 2
2.1.9 DEBUG Log messages (FEWS-13425) 3
2.1.10 New Oracle Driver (FEWS-12661) 3
2.1.11 JDBC connection (FEWS-11096) 3
2.1.12 Multiple Runs on one FSS (FEWS-12782) 3
2.1.13 Schema fix for Transformation group (FEWS-13974) 3
2.1.14 Time stamp changes when copying files with General Adapter run (FEWS-13943) 3
2.1.15 Amalgamate improvement checking ‘orphan’ records (FEWS-14190) 4
2.2 Improvements with Configuration consequences 4
2.3 Install and upgrade procedure 4
2.3.1 Install pages 4
2.3.2 ActiveMQ as default JMS engine 4

3 Solved Bugs **4**

4 Implemented New Features **4**

1 Introduction

This document contains the Release Notes of Delft-FEWS version 2015.02.

The Release Notes consists of different aspects:
- General remarks about aspects of – the 2015.02 release
- Improvements with configuration consequences
- The installation/upgrade procedure
- A list of solved bugs
- A list of new features

Where possible/needed a reference is included to the
https://publicwiki.deltares.nl/display/FEWSDOC/Home

2 General Remarks

2.1 The Delft-FEWS 2015.02 Release

2.1.1 Base Version

The base version of Delft-FEWS 2015.02 Release is #57990

2.1.2 JRE Version

The required Java Runtime Environment (JRE) belonging to Delft-FEWS 2015.02 is java 1.8.45 (or higher)

2.1.3 New Icon

Delft-FEWS has a new icon (see image below). This icon is visible in the different displays/status bar and other panels like the about box. The java executable – Delft-FEWS.exe - (for Windows) has been provided with this same new icon.

Figure 2.1 The new Delft-FEWS icon

2.1.4 Run clean-up script recommended

In the /bin folder a clean-up script (*.bat, *.sh) is provided. It is strongly recommended that the /bin folder for both FSSs as well as OCs are cleaned with the corresponding/required option. This script removes unnecessary libraries and decreases the size of the /bin folder substantially. To prevent errors, please make sure that you only run this script once in this folder. If you made a mistake, delete the /bin folder and unpack the original Delft-FEWS binaries to start again.

The following options are available, see image below.

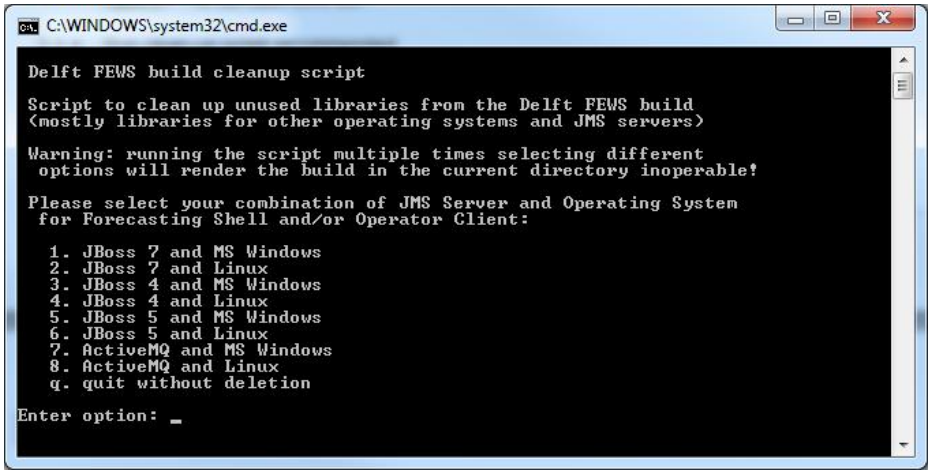


Figure 2.2 The options for running the clean_up script (in /bin folder)

2.1.5 Check Attribute/CSV file Configuration at Startup (FEWS-14210)

Numbers with decimal commas where silently skipped in csv files Every unparsable comma (“,”) was recognized as NaN. Only the text NaN and ‘empty string’ string are now recognized as NaN. The user gets a message if a decimal comma is detected (Config.Error)

2.1.6 Performance improvements, PostgreSQL upgrade recommended (FEWS-14206)

Since PostgreSQL 9.3 the blobs are no longer sent ‘as text’ over the network. This means that the (code) workaround which was implemented (the "base64" trick) has been removed. It is strongly recommended to upgrade this (or a higher) version of PostgreSQL if you use this as a central database. If not, the performance will drop. The network load reduces by (at least) 20% if the PostgreSQL version is 9.2 or higher.

For DDA systems using PostgreSQL it is strongly recommended to upgrade for the max connection check. Too many clients can else cause a shutdown of all MC and FSS due a lack of free connections.

2.1.7 Firebird as default local data store format (FEWS-13737)

The default database type has changed to Firebird. MS Access has become obsolete for Operator Clients (OC) and cannot be used anymore. Using Stand Alone (SA) MS Access can be used but must be configured in the global.properties

2.1.8 Compacting cache files (FEWS-13738)

The process of compacting cache files is redesigned. The process is now a background task that is no longer blocking data store access. All the cache files are now compressed saving up to 50% of disk space.

The compact process is now interruptible which means Delft-FEWS can be closed while compacting.

The compact cache files process is now separated from the compact MDB file (MS Access). Only MS Access requires a compact of the database. MS Access is no longer supported for live systems. In stand-alone mode MS access can still be used for existing mdb data stores.

With the F12-menu it is now possible to compact the cache files and compare and defrag the local data store separately. Items are moved to the database <F12> sub menu.

2.1.9 DEBUG Log messages (FEWS-13425)
Since debug logmessages are no longer logged to the database (only to file), some interesting log events of DEBUG level have now been promoted to the INFO level.

2.1.10 New Oracle Driver (FEWS-12661)
New Oracle ojdbc7.jar driver replaces ojdbc6.jar in order to solve databaseReplicator concurrency problem.

2.1.11 JDBC connection (FEWS-11096)
Oracle, Postgres and MSSQL connections are now annotated with the master-controller component, component-id, e.g. FSL, FSL.Listener, FSL.Trigger, OCL, OCL.Listener, OCL.Trigger, RemoteProxy.MC01, RemoteProxy.MC01.Trigger, Synch, Synch.Listener, Synch.Runner, Synch.RunnerMonitor, Synch.TaskListener, Synch.Trigger, Synch.TriggerTask, SysMon, SysMon.Heartbeat, SysMon.Listener, SysMon.LogCollectorService, SysMon.Monitor, SysMon.Trigger, TM, TM.Chaser, TM.Launcher, TM.LogProcessor so that they can be more easily monitored.

Admin Interface connections are not annotated.

The statements for the different database types are:
- PostgreSQL: select application_name from pg_stat_activity
- Oracle: select program from v$session
- MSSQL: select program_name from sys.dm_exec_sessions

2.1.12 Multiple Runs on one FSS (FEWS-12782)
When the mcproxy was stopped or a task was killed it could happen that the same FSS had multiple running tasks. This has now been addressed. Note that whenever the chaser grace time has too be high for some reason, it is highly recommended to specify a timeout in the workflowdescriptors for shorter running tasks, otherwise the task that gets stuck is not cleaned up any time soon without manually killing the task.

2.1.13 Schema fix for Transformation group (FEWS-13974)
Changed name of transformation type called:
ConversionRotateUVVectorsFromRotatedPoleToWgs1984 to
RotationUVVectorsFromRotatedPoleToWgs1984.

Changed transformation group "conversion" to "rotation", because "conversion" was not specific enough. All existing configurations that use this transformation must be updated (from release 2015.02 build number 57884 onwards).

2.1.14 Time stamp changes when copying files with General Adapter run (FEWS-13943)
When copying files within general adapter from ModuleDataSetFiles folder to a Modules folder, the time stamp is changed if the system time zone is different from the time zone of the local computer.

2.1.15 Amalgamate improvement checking 'orphan' records (FEWS-14190)
The detection of problems in the Amalgamate module has been improved. A check is built in that the import run meta-data does not expire sooner than the imported time series data. This is important because amalgamate is no longer possible when the metadata is gone. The import metadata is removed by the amalgamate module after amalgamate. There is no need for an expiry date for the import metadata when amalgamated. A second improvement is Import overlap detection. An import should normally not alter already imported values. The amalgamate module detects this now per time series instead of per blob. Blobs can overlap while the individual time series inside the blobs do not overlap.

2.2 Improvements with Configuration consequences

none

2.3 Install and upgrade procedure

2.3.1 Install pages

https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Client-Server+System+Installation+Guide
https://publicwiki.deltares.nl/display/FEWSDOC/05+Delft-FEWS+Upgrade

2.3.2 ActiveMQ as default JMS engine
For new systems, Delft-FEWS Product Management recommends to install ActiveMQ as JMS engine. For existing systems it is up to the Client to decide (knowing that JBoss4 is end of life) to migrate to ActiveMQ or not. Delft-FEWS 2015.02 runs with JBoss4, 5 and ActiveMQ.

Relevant installation/migration information can be found here:
https://publicwiki.deltares.nl/display/FEWSDOC/Upgrade+JMS+Application+Server

3 Solved Bugs

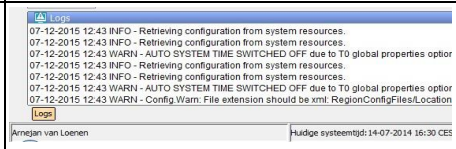
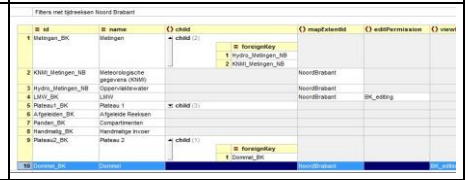
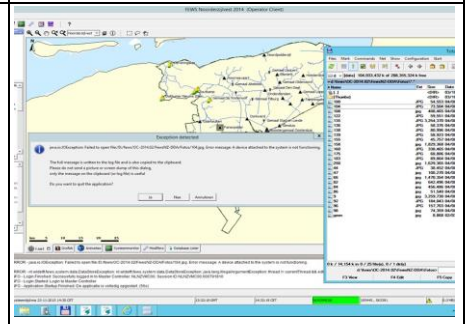
In Appendix A, most important solved bugs in Delft-FEWS 2015.02 can be found.

4 Implemented New Features

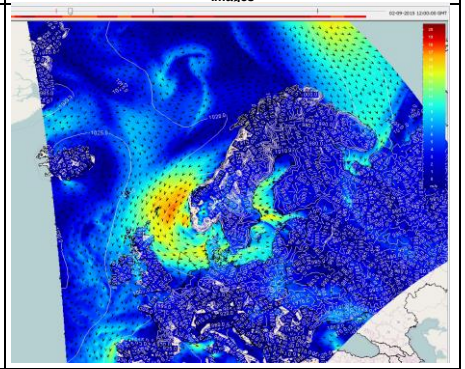
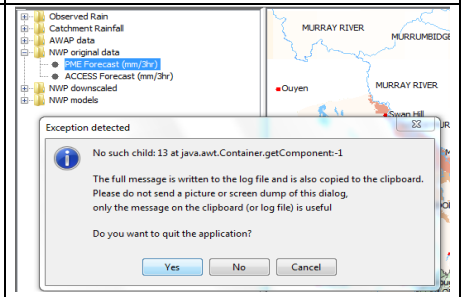
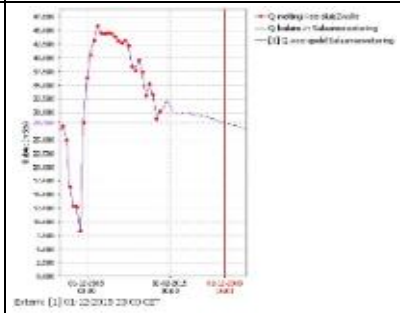
In Appendix B, all new features of Delft-FEWS 2015.02 can be found

A Solved Bugs Delft-FEWS 2015.02

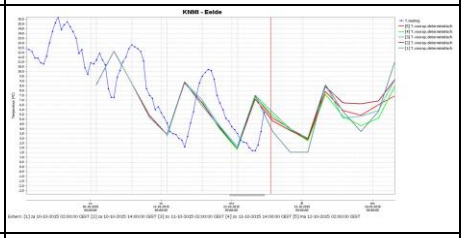
Delft-FEWS 2015.02 - Solved Bugs

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Delft-FEWS	FEWS-13247	Bug as subtask	FEWS-12909 Values shown in SSD do not coincide with values in timeseries				
App - Operator Client Gui (Explorer)	FEWS-14130	Bug as subtask	FEWS-13857 User group is not shown next to user name				
App - Operator Client Gui (Explorer)	FEWS-14051	Bug	Viewpermission not working for filters at second level				
App - Operator Client Gui (Explorer)	FEWS-13451	Bug	No qualifiers visible in qualifierpanel for filters based on time series sets				
App - Operator Client Gui (Explorer)	FEWS-13671	Bug	panelsizes for Filters in Explorer does not change after adjustment				
App - Operator Client Gui (Explorer)	FEWS-14007	Bug	On opening URL from location tooltip, you get this error.				
App - Operator Client Gui (Explorer)	FEWS-13456	Bug as subtask	FEWS-10073 On-the-fly summation ignores undefined ('empty') qualifiers				
Configuration	FEWS-13438	Bug	Add support for DBF FoxPro format and skip column type (M)EMO				
Configuration	FEWS-13153	Bug as subtask	FEWS-12909 text attributes are interpreted as number in idmapping				
Database	FEWS-13542	Bug	Compact cache files is never started on OC with DDA				
Database	FEWS-14335	Bug as subtask	FEWS-9556 M160103720 RWsoS Meren: FSS instabiliteiten	A critical bug that only occurs with direct database access in combination with the use of reports table has been fixed. This bug would cause the forecasting shell to intermittently hang.	Only happens with DDA in combination with big reports table. Typical logging that occurs: {code} INFO - ForecastingShell.init - .. seconds used to read all xx warm state record ids INFO - ForecastingShell$WaitForInputAndTimeOutThread.run - Received an MCProxy signal to terminate the forecasting shell after running 0s. ERROR - DefaultExtendedConnection.logErrorsForUnclosedStatements - JDBC Statement is not closed SELECT reportId, taskRunId, moduleInstanceId, creationTime, blob, subDirName, expiryTime FROM Reports WHERE localAvailableTime >= ? {code}		
Plugin - Gui - Forecast Manager	FEWS-13812	Bug	Nullpointer (experienced by HKV)				
Plugin - Gui - Grid Display	FEWS-13307	Bug as subtask	FEWS-10487 Seqwater: ERROR when accumulating NWP grids in the spatial display				

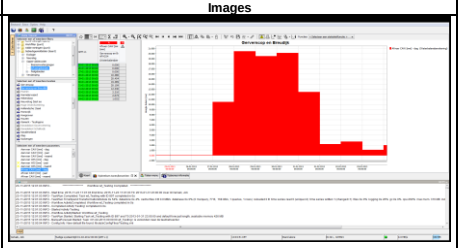
Delft-FEWS 2015.02 - Solved Bugs

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Grid Display	FEWS-13492	Bug as subtask	FEWS-12363 Spatial display: contour lines are not displayed properly				
Plugin - GUI - IFD - Forecasts	FEWS-13113	Bug as subtask	FEWS-12993 Missing arrows in topology view				
Plugin - GUI - IFD - Forecasts	FEWS-13928	Bug as subtask	FEWS-11581 GMW: Error Exception detected for PME data				
Plugin - GUI - Sample Viewer	FEWS-13413	Bug	Conversion for old samples to make them compatible with sample viewer				
Plugin - Gui - Schematic Status Display	FEWS-14109	Bug	TSD opened from SSD shows location ID's instead of names	shortname should be configured with name instead of id.	shortName is used to display location name in TSD. Since the IWP config uses <shortName>%id%</shortName>, the id is displayed. By using <shortName>%NAAM%</shortName>, the name is displayed.	<locationSet id="Hydro_Twentekanalen"> <csvFile> <file>Twentekanalen_locaties.csv</file> <geoDatum>Rijks Driehoekstelsel</geoDatum> <id>%id%</id> <name>%NAAM%</name> <description>%BRON%</description> <shortName>%id%</shortName> <toolTip>%NOTITIES%</toolTip> <parentLocationId>%PARENTID%</parentLocationId> <x>%X%</x> <y>%Y%</y>	
Plugin - Gui - Schematic Status Display	FEWS-13160	Bug	OutOfMemoryError when opening SSD panel				
Plugin - Gui - Schematic Status Display	FEWS-14157	Bug as subtask	FEWS-13857 SSD: select view period does not go back to the original setting				
Plugin - Gui - Time Series	FEWS-14021	Bug	TimeseriesDisplay: Button 'zoom out to whole period' BROKEN				
Plugin - Gui - Time Series	FEWS-13374	Bug as subtask	FEWS-13369 201501_NFFS_23: ERROR when opening Time series graph: ERROR - ErrorDisplayer.lambda$static$3 - 23 at nl.wldelft.fews.system.data.config.region.TimeSeriesFilters.get:69 java.lang.ArrayIndexOutOfBoundsException				

Delft-FEWS 2015.02 - Solved Bugs

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Time Series	FEWS-14244	Bug	Only 3 decimals displayed when no precision is configured				
Plugin - Gui - Time Series	FEWS-14368	Bug	Column Statistics & Year Columns both have shortcut "Ctrl + Alt + Y"				
Plugin - Module - Amalgamate	FEWS-14366	Bug	Precision loss in time series values in some rare cases during amalgamate				
Plugin - Module - Data Export	FEWS-13499	Bug as subtask	FEWS-12993 Error message by exporting gridded data to archive				
Plugin - Module - Data Import	FEWS-13780	Bug	Incorrect timestamp by KNMI eps import. Should be 1 timestep shifted				
Plugin - Module - Data Import	FEWS-13849	Bug	Irrelevant check on invalid geometry				
Plugin - Module - Data Import	FEWS-13303	Bug	GLOWASIS:Error reading response from hilltopserver.horizons.govt.nz				
Plugin - Module - Data Import	FEWS-13196	Bug	Error with GMW Aquarius webservice import				
Plugin - Module - Data Import	FEWS-13429	Bug as subtask	FEWS-13369 201501_NFFS_66: import data are missing in SW				
Plugin - Module - General Adapter	FEWS-14061	Bug	NullPointer on purge in GA				
Plugin - Module - General Adapter	FEWS-13662	Bug as subtask	FEWS-11753 GA: nullpointer when reading empty file				
Plugin - Module - Performance Indicators	FEWS-13649	Bug	LeadTimeAccuracyIndicator bugs				
Plugin - Module - Reports	FEWS-13782	Bug	Report column parameter using topFormat with {0} {1} not resolved.	topFormat with parameter column resolves {0} and {1} into parameter name and unit.	topFormat with parameter column resolves {0} and {1} into parameter name and unit. This also works when using a # for multiple columns. See also: https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-Declarationssection		
Plugin - Module - Reports	FEWS-14207	Bug	Report Export: zipping function is not working	Zipping function is not working for exportSystemStatusReports	Zipping function is not working for exportSystemStatusReports in case exportSystemStatusSubDir didn't contain a .zip extension.	<exportSystemStatusReports> <exportSystemStatusSubDir>reports</exportSystemStatusSubDir> <zipReports>true</zipReports> <includeModuleInstanceId>Report_Overall</includeModuleInstanceId> </exportSystemStatusReports>	
Plugin - Module - Secondary Validation	FEWS-13680	Bug	Secondary validation expression evaluation appears imprecise				
Plugin - Module - Transformation	FEWS-14073	Bug	No output data needs to be generated if input data is absent				

Delft-FEWS 2015.02 - Solved Bugs

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Transformation	FEWS-14006	Bug	Error in Statistics Related Locations (Sum, Mean)				
Plugin - Module - Transformation	FEWS-13395	Bug	weeklyTimeStep thursday broken (?)				
Plugin - Module - Transformation	FEWS-13562	Bug	Transformation on timeseries with weekly timesteps does not work for Tuesdays				
System - PI Service	FEWS-13960	Bug	PIService: filter by creation time error				
System - PI Service, System - Synchronisation	FEWS-13896	Bug as subtask	FEWS-9584 WPM: Fews-Pi_Service: Compacting cache files results in exception:timeSeriesGroup.getSingularGroupIndex (timeSeriesGroup) == -1				
System - Synchronisation	FEWS-13739	Bug	Default synchProfiles.xml for OC downloads all moduleDatasetFiles not just synchLevel 11				
	FEWS-13644	Bug as subtask	FEWS-13369 201501_NFFS_95: Coastal Forecast run data missing (East_Coast_Lookup, Trowlock_Ditton_Matrix and Lower_Crane_Extra modules) missing from the short cut displays				

B New Features Delft-FEWS 2015.02

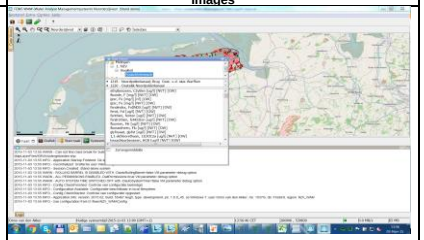
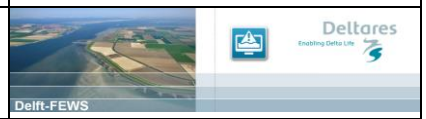
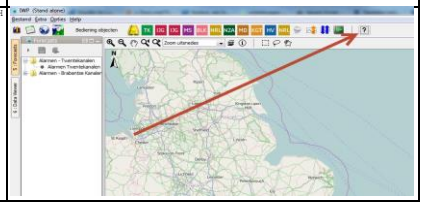
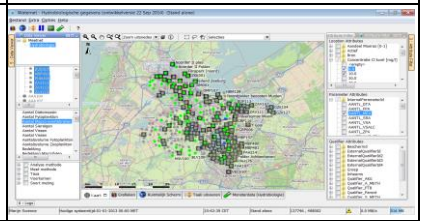
JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Admin Web User Interface	FEWS-12944	Improvement	Adding option for selection of Range of FSS for options such as "any-one"	FSS Groups can be created and used in workfow mappings from the Admin Interface	FSS Groups can be created and used in workfow mappings from the Admin Interface. See for documentation: https://publicwiki.deltares.nl/display/FEWSDOC/Admin+Interface+-+Workflows+and+FSSs		
App - Admin Web User Interface	FEWS-12272	Improvement as subtask	FEWS-12271 Ability to delete an Action-Configuration from the Admin Interface	AI now has ability to delete actionConfigurations.	When browsing to a ActionConfigration version in the AdminInterface, a new delete button allows the user to delete an actionConfiguration.		
App - Archive, Plugin - Module - Archive	FEWS-13973	Improvement	Add task to remove orphan records in geonetwork				
App - Archive	FEWS-13495	Improvement as subtask	FEWS-10616 TVA. archive. Change the FEWS "get from archive" button so that it can pull an entire timeseries when zoomed out to 40+ years, rather than having to scroll many times in the plot				
App - Archive	FEWS-12935	New Feature	Amalgamate function for observed data in archive				
App - Archive	FEWS-13147	Improvement as subtask	FEWS-10053 Related workflows for export forecast				
App - Archive	FEWS-13136	Improvement as subtask	FEWS-13168 add metadata updater task to the archive admin tool				
App - Archive	FEWS-13042	Improvement as subtask	FEWS-13168 Develop a new catalogue for the open archive				
App - Archive	FEWS-13163	Improvement as subtask	FEWS-13168 Several small improvements for Archive Admin Console				
App - Archive	FEWS-13162	Improvement as subtask	FEWS-13168 Make Archive Admin Console usuable in non scripting environment				
App - Configuration Manager Gui	FEWS-14301	New Feature	ConfigManager: add *.nc file upload in MapLayerFiles	Config manager supports .nc files for MapLayerFiles	Config manager supports .nc files in de MapLayerFiles directory.		
App - Data Import Module (DIM)	FEWS-13283	Improvement	Serializers and parsers should be in own library	Parsers and Serializers are now in the Delft_ParserAndSerializers.jar	Parsers and Serializers are now in the Delft_ParserAndSerializers.jar. This library only has a dependency on Delft_Util.jar.		
App - Delft-FEWS	FEWS-14365	Improvement	Additional translations for Spanish	For several components Spanish translations have been added.			
App - Master Controller Server	FEWS-13673	Improvement as subtask	FEWS-13262 NWS: FB1856 Remove Global Writeable Permission Bit from FEWS Generated Files				

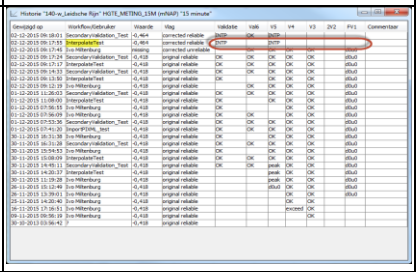
App - Master Controller Server, Database	FEWS-11096	Improvement	Oracle connections at MC should also set application name property in jdbc connection for monitoring	MC sets applicationname in jdbc connection.	Oracle, Postgres and MSSQL connections are now annotated with the master-controller component component id,
					e.g. FSL, FSL.Listener, FSL.Trigger, OCL, OCL.Listener, OCL.Trigger, RemoteProxy.MC01, RemoteProxy.MC01.Trigger, Synch, Synch.Listener, Synch.Runner, Synch.RunnerMonitor, Synch.TaskListener, Synch.Trigger, Synch.TriggerTask, SysMon, SysMon.Heartbeat, SysMon.Listener, SysMon.LogCollectorService, SysMon.Monitor, SysMon.Trigger, TM, TM.Chaser, TM.Launcher, TM.LogProcessor so that they can be more easily monitored. Admin Interface connections are not annotated.
					
					Postgres: select application_name from pg_stat_activity
					Oracle: select program from v$session
					MSSQL: select program_name from sys.dm_exec_sessions
						`Postgres and Oracle connection monitoring has been enabled by adding some grants. For SQLServer this could not be handled by the data_update script. In order to enable Sql server connection monitoring from within the Operator client, the dba can choose to execute the following statements.`
						`USE master`
						`GRANT VIEW SERVER STATE to %username%`
						`where %username% is the username of the master-controller database.`
						
						`The sql statements that should return the application name from the active connections are the following.`
						`Postgres: select application_name from pg_stat_activity`
						`Oracle: select program from v$session`
						`MSSQL: select program_name from sys.dm_exec_sessions`	

App - Operator Client Gui (Explorer)	FEWS-13976	Improvement	Add New FEWS icon to Java Executable		New FEWS icon in Delft-FEWS Executable		

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Operator Client Gui (Explorer)	FEWS-13884	Improvement	Improve Statusbar Icon in Dockable Concept				
App - Operator Client Gui (Explorer)	FEWS-13875	Improvement	Implement new FEWS logo/icon				
App - Operator Client Gui (Explorer)	FEWS-13816	New Feature as subtask	FEWS-13916 RWSOS Meren: Export screen dumps to clipboard		Added right mouse click "Copy to Clipboard" functionality to Central Map and Spatial Display		
App - Operator Client Gui (Explorer)	FEWS-13815	Improvement as subtask	FEWS-11816 ForecasterNotes: configure expiry time	Expiry time of forecaster notes	All forecaster notes get by default the same expiry time, usual 5 or 10 days. To hold some specific forecaster notes in the database for a longer or shorter period, configure expiry time per event code.	<?xml version="1.0" encoding="UTF-8"?> <!-- edited with XMLSpy v2011 rel. 3 (http://www.altova.com) by FOC (Queensland Bulk Water Supply Authority) --> <forecasterNotesDisplay xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/forecasterNotesDisplay.xsd "> <title>Forecaster Notes</title> <msgTemplate id="Phone Call"> <message>Phone call with </message> </msgTemplate> <msgTemplate id="Model run"> <message>Model run for</message> </msgTemplate> <eventCode id="General.info"/> <eventCode id="Dam.info"> <expiryTime unit="day" multiplier="300"/> </eventCode> <eventCode id="System.maintenance"> <expiryTime unit="hour" multiplier="12"/> </eventCode> </forecasterNotesDisplay>	
App - Operator Client Gui (Explorer)	FEWS-13155	New Feature as subtask	FEWS-12539 More options for the use of constraints in Filters				
App - Operator Client Gui (Explorer)	FEWS-12922	Improvement as subtask	FEWS-9559 Help button can link to URL		On pressing "F1" or the help button the <systemHelpUrl> from Explorer.xml will be opened in the browser and the topic will be appended to it without whitespaces. For example on pressing "F1" in the spatial display the next Url will be opened in the browser: https://publicwiki.deltares.nl/display/FEWSDOC/WIKI+Help+test#WIKIHelptest-SpatialDisplay When the same thing is done in Fews Explorer: https://publicwiki.deltares.nl/display/FEWSDO	<systemHelpUrl>https://publicwiki.deltares.nl/display/FEWSDOC/WIKI+Help+test#WIKIHelptest-</systemHelpUrl>	
App - Operator Client Gui (Explorer)	FEWS-11730	New Feature as subtask	FEWS-13016 move F12 select option for location attributes to Explorer window	Attribute filtering for locations, parameters and qualifiers in extra tab	Attribute filtering for locations, parameters and qualifiers now possible in new explorer plugin.	<explorerTask name="Attribute Filter"> <predefinedDisplay>attribute filter</predefinedDisplay> <toolbarTask>false</toolbarTask> <menubarTask>false</menubarTask> <toolWindow>true</toolWindow> <loadAtStartup>true</loadAtStartup> </explorerTask>	
App - Operator Client Gui (Explorer)	FEWS-13056	Improvement as subtask	FEWS-12846 WaterCoach - Include WaterCoach Language Files				
Configuration	FEWS-13512	New Feature as subtask	FEWS-10616 TVA: Ability to template a module with a "null" qualifier when working with timeseries with many qualifiers.				
Configuration	FEWS-12996	Improvement as subtask	FEWS-12993 Option to not run IFD tasks if dependencies are not met				
Configuration	FEWS-12994	Improvement as subtask	FEWS-12993 Fixing the T0 for a workflow				

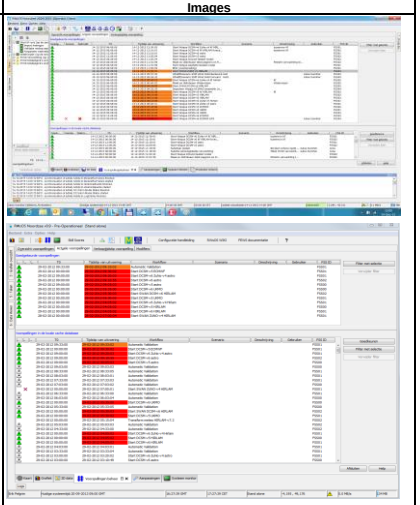
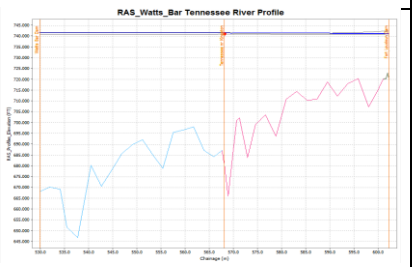
Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Configuration	FEWS-14210	Improvement	Log config error when number in csv file can not be parsed		Numbers with decimal commas where silently skipped in csv files Every unparsable was recognized as NaN. Only the text nan, NaN, and emptry string string are now recognized as NaN		
Configuration - ValidationStatus	FEWS-13597	New Feature as subtask	FEWS-13328 ValidationStatus as condition - flagSourceColumnCheck				
Configuration - ValidationStatus	FEWS-13598	New Feature as subtask	FEWS-13328 Assign ValidationStatus per Module - UseFlagSourceColumn			<workflow xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/workflow.xsd" version="1.1"> <activity> <runIndependent>true</runIndependent> <moduleInstanceId>ImportPIXML_test</moduleInstanceId> </activity> <activity> <runIndependent>true</runIndependent> <defaultFlagSource>OK</defaultFlagSource> <flagSourceColumnId>V6</flagSourceColumnId> <moduleInstanceId>SecondaryValidation_Test</moduleInstanceId> </activity> </workflow>	
Configuration - ValidationStatus	FEWS-13595	New Feature as subtask	FEWS-13328 Introduction flagSourceColumns - Save regular flagSource (OK) to flagSourceColumn				
Configuration - ValidationStatus	FEWS-13594	New Feature as subtask	FEWS-13328 Introduction flagSourceColumns - Introduction FlagSourceColumns configuration file				
Configuration - ValidationStatus, Plugin - Gui - Time Series	FEWS-13599	New Feature as subtask	FEWS-13328 Interface Developments ValidationStatus - FlagsourceColumns visible in TSD as additional columns				
Database	FEWS-13790	Improvement	OC/FS should check essential database indexes are available				
Database	FEWS-13785	New Feature	Health checks on FEWS Central Database				
Database	FEWS-14206	Improvement	Reduce networkload with 20% for PostgreSql 9.2 and DDA				
Database	FEWS-13737	Improvement	Make Firebird the default LDS format and only allow MS-Access for SA	Default database type changed to Firebird	The default database type has changed to Firebird. MS Access has become obsolete for Operator Clients (OC) and can not be used anymore. Using Stand Alone (SA) MS Access can be used but must be configured in the global.properties	No configuration needed. When not specified in the global.properties Firebird will be the default database type	
Database	FEWS-13738	Improvement	Split code: Compact Cache files and Compact MS Access database	Split code: Compact Cache files and Compact MS Access database	Code of compacting the MS Access database and corresponding cache files is complex due it handles many different situations. Direct Database Access (DDA) // firebird and MS Access and pauzing synchronization for MS Access. Now MS Accessis no longer allowed for an OC we can have isolated this code. Compacting cache files is now handled by the explorer environment (ExplorerDataStoreRepairAndDefrag) With the F12 menu it is now possible to compact the cache file and compare and defrag the lds separately. Items are moved to the database F12 sub menu.		
Configuration - ValidationStatus, Database	FEWS-13607	New Feature as subtask	FEWS-13328 Introduction flagSourceColumns - Check on used flagSourceColumns				
Configuration - ValidationStatus, Database	FEWS-13593	New Feature as subtask	FEWS-13328 Introduction flagSourceColumns - Save flagSourceColumns				
Database	FEWS-13672	Improvement as subtask	FEWS-13262 NWS: FB1602 FEWS to work with PostgreSQL 9.3.9				
Database	FEWS-13646	Improvement	Improve Query/Execution Plan for DDA query: remove (max) localIntId				

Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Database	FEWS-13175	New Feature as subtask	FEWS-12915 Calculating disaggregation periods		See FEWS-13174		
Database	FEWS-11562	Improvement as subtask	FEWS-11753 Unclear and Short Error Message accessing external Attributes Table ZZL_SA				
Database	FEWS-13843	Improvement	Reduce memory usage and concurrency datastore				
Debug Tool - Workflow Navigator	FEWS-13752	Improvement as subtask	FEWS-13916 RWSoS: enable show gridded series in Workflow Navigator	WFN - showing grids, longitudinal profiles and scalar maps	To view grid, longitudinal profile and scalar map series, use context menu items "Show grids", "Show longitudinal profiles" and "Show scalar maps". These menu items are only enabled when the selected WFN tree items do have one of the mentioned series types. When there are several gridded series available, a dialog popups where a singe series should be selected first, and then the spatial display will be opened with the selected series.		
Module Adapter - All	FEWS-12901	New Feature as subtask	FEWS-10616 model adapter for waterquality model ADYN-ROUAL		TVA specific model adapter for Adyn and Rqual water quality models		
Module Adapter - Delft3D	FEWS-13385	Improvement	Delft3D Adapter: Improve pre-adapter to use .bcw file in Wave simulations	Time series as used by Delft3D-WAVE via the .bcw are now supported	Time series as used by Delft3D-WAVE via the .bcw are now supported by the adapter. The keyword WAVEFLOW_TIMESERIES has been introduced to make sure the input is written in the right form. This keyword must be followed by the names of the time series to be used, for instance: $(WAVEFLOW_TIMESERIES: Wave.forecast.total.height/BND.wave.north, ...} The name of the file in which the time series are filled in is recognised from the keyword TSERIESFILE in the .mdw file.	.mdw file: [General] ... TSeriesFile = myarea.bcw myarea.bcw: location 'North' time-function 'non-equidistant' reference-time 20140811 time-unit 'minutes' interpolation 'linear' parameter 'time' unit '[min]' parameter 'WaveHeight' unit '[m]' parameter 'Period' unit '[s]' parameter 'Direction' unit '[N^o]' parameter 'DirSpreading' unit '[-]' $(WAVEFLOW_TIMESERIES: Wave.forecast.total.height,...other series...}	
Module Adapter - Delft3D	FEWS-12093	New Feature	Add extra functionality to the Delft3D-Part adapter				
Plugin - Gui - Archive Display	FEWS-13502	Improvement as subtask	FEWS-10053 Feature to configure which data types should be listed in the Archive search dialog		Data types listed in the Archive search dialog are now configurable	<searchDataTypes> <type>config</type> <type>externalForecast</type> <type>observed</type> <type>simulated</type> <type>snapshot</type> </searchDataTypes> </archiveModuleDisplay>	
Plugin - Gui - Archive Display, Plugin - Module - Archive	FEWS-12997	Improvement as subtask	FEWS-12993 Archive - Extend metadata options with custom properties				
Debug Tool - Database Viewer, Plugin - Gui - Forecast Manager	FEWS-13363	Improvement	Extra columns in databaseviewer and forecast management display	ForecastManager: column with Forecasting Shell Id	Column 'FSS ID' is visible in all tabs of the ForecastManager and contains Forecasting Shell Id of the task run or is empty in case of local runs. Column 'FSS ID' has become visible also in other plugins that show task run list : database viewer, ThresholdOverviewDisplay (flow matrix) and ModuleRunTableDisplay		

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Forecast Manager	FEWS-13213	New Feature as subtask	FEWS-13916 Age dependent background color for dispatch time in Forecast Management		Background color for current forecasts in Forecast Management can be configured according to their age and id	Explorer.xml <displayConfigFileName>ForecastManagement</displayConfigFileName> ForecastManagement.xml <forecastManagement xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/forecastManagement.xsd"> <defaultDispatchTimeThreshold> <timeThreshold> <periodLength value="100" unit="day"/> <color>red</color> </timeThreshold> </defaultDispatchTimeThreshold> <extraDispatchTimeThreshold> <workflowId>workflowX</workflowId> <workflowId>other_workflow</workflowId> <workflowIdPattern>*Validation</workflowIdPattern> <workflowIdPattern>*DC?M*</workflowIdPattern> <timeThreshold> <periodLength value="70" unit="day"/> <color>green</color> </timeThreshold> <timeThreshold> <periodLength value="80" unit="day"/> <color>orange</color> </timeThreshold> </extraDispatchTimeThreshold> <extraDispatchTimeThreshold> <workflowId>another_workflow</workflowId> <workflowIdPattern>Automatic*</workflowIdPattern> <timeThreshold> <periodLength value="70" unit="day"/> <color>green</color> </timeThreshold> <timeThreshold> <periodLength value="80" unit="day"/> <color>orange</color> </timeThreshold> </extraDispatchTimeThreshold> </forecastManagement>	
Plugin - GUI - IFD - Forecasts	FEWS-13135	Improvement as subtask	FEWS-12993 Add the option to select number of FSS's to IFD workflow options window				
Plugin - Gui - Longitudinal Profiles	FEWS-13298	New Feature as subtask	FEWS-10616 TVA: toggle on/off bed elevation (z-coordinate) in profile plots	TimeSeriesDisplay : chart option 'Longitudinal profile characteristics'	This menu option is available in the chart drop down menu in TimeseriesDisplay. Use this options to hide or show the longitudinal profile characteristics (river bed, left bank level) in the longitudinal profile plots. The longitudinal profile characteristics are configured in Braches.xml . This menu option is only visible if there is at least one longitudinal profile marker (riverBedLevel, leftBankLevel, rightBankLevel,….) configured in TimeSeriesDisplay.xml		
Plugin - Gui - Schematic Status Display	FEWS-13791	New Feature	Schematic Staus Diplay, t0 looking at the last timestep		Time step of Scada Display is now set to closest time step before system time		
Plugin - Gui - Schematic Status Display	FEWS-13667	Improvement as subtask	FEWS-9559 Ability to open a SSD panel in another SSD display		Possibility to switch to different scada display by configuring its displayInstanceDescriptor. The scada display should be configured as an explorerTask in Explorer.xml with the displayInstanceDescriptor as argument, the displayInstanceDescriptor can be found in DisplayInstanceDescriptors.xml. When this element is not present the scada display configured in this config file will be used.	<switchToScadaPanel> <scadaDisplayInstanceDescriptor>ScadaKanaalGentTerneuzen</scadaDisplayInstanceDescriptor> <scadaPanelId>KGT_Overzicht_all</scadaPanelId> </switchToScadaPanel>	

JIRA Delft-FEWS 2015.02 - New Features

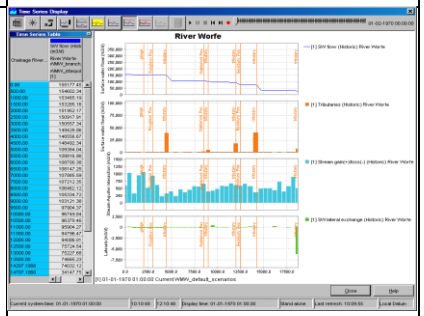
Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images

Plugin - Gui - Schematic Status Display	FEWS-12965	Improvement as subtask	FEWS-10053 RelativeViewPeriod of the SSD scroll bar should be automatically derived from the times series RVPs	Configure the relative view period using the timeNavigatorRelativePeriodVariables element.	Instead of the timeNavigatorRelativePeriod element, it is also possible to configure the relative view period using the timeNavigatorRelativePeriodVariables element.
					Using this element a list of variableId's have to be specified that refer to variables defined in the scada display configuration. For each specified variable the relative view period of the timeseriesset is determined and will be joined together into a relative view period that includes all previous periods. The resulting calculated period will be used for the time navigator toolbar. This period is always relative to the current system time, similar to the timeNavigatorRelativePeriod.
					
					https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-15SchematicStatusDisplay(formerlyScadaDisplay)-timeNavigatorRelativePeriodVariables
						`<showTimeNavigatorToolbar>`
						`<timeNavigatorRelativePeriodVariables>`
						`<variableId>variable1</variableId>`
						`<variableId>variable2</variableId>`
						`</timeNavigatorRelativePeriodVariables>`
						`<timeNavigatorTimeStep unit="hour" multiplier="1"/>`
						`<movieFrameDurationMillis>500</movieFrameDurationMillis>`
						`</showTimeNavigatorToolbar>`	

Plugin - Gui - Schematic Status Display	FEWS-13281	Improvement as subtask	FEWS-10053 Refactoring of waitForInitialRefresh for time navigator in ScadaDisplay	Refactoring of waitForInitialRefresh for time navigator in ScadaDisplay.	Refactoring of waitForInitialRefresh for time navigator in ScadaDisplay. Load navigator after initialRefreshCompleted. This only happens in case the timeNavigatorRelativePeriodVariables have been configured, because the time navigator needs all timeseries to determine the view period.		

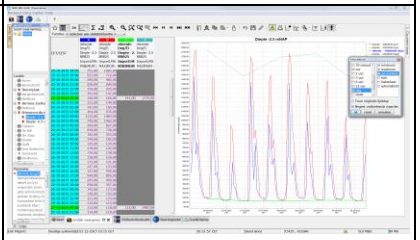
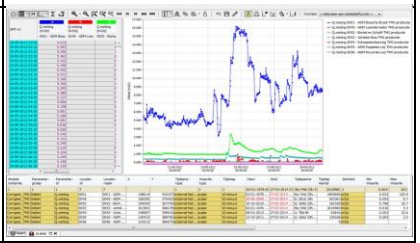
Plugin - Gui - Schematic Status Display	FEWS-9863	Improvement as subtask	FEWS-9559 In Schematic Status Display configure time step for each panel separately	Option to configure different slider time steps for different panels in Schematic Status Display	In Schematic Status Display added option overrulingTimeNavigatorTimeStep to schema. This can be used to configure a different time step for each panel within a Schematic Status Display.	`<scadaPanel id="NZK_ARK_uur" name="Overzicht NZK-ARK (uur)">`
						`...`
						`<overrulingTimeNavigatorTimeStep unit="hour" multiplier="1"/>`
						`...`	

Plugin - Gui - System Monitor	FEWS-13032	Improvement as subtask	FEWS-13031 System Monitor not supposed to be green when import files have failed	SystemMonitor - ImportStatus Tab improvements	ImportStatus Tab updates last import time only if at least one file has been successfully imported The cell in the column 'Fails Failed' gets red color if there are one or more files failed.		

Plugin - Gui - Time Series, Plugin - Module - Reports	FEWS-13929	Improvement	margin of bar chart should be configurable	TimeSeriesDisplay chart - configurable bar margin	Use option 'barMarginPercentage' to create space between the bars in the charts. 'barMarginPercentage' is a percentage of the bar width by which the bar width should be reduced.	Example from TimeSeriesDisplayConfig.xml :
						
						`<generalDisplayConfig>`
						
						`<barMarginPercentage>50</barMarginPercentage>`
						
						`</generalDisplayConfig>`
							

Configuration - ValidationStatus, Plugin - Gui - Time Series	FEWS-13606	New Feature as subtask	FEWS-13328 Validation using the GUI - ValidationStatus ('Mark') Context Menu Options	Validation status can be assigned from popup menu	Validation status can be assigned from popup menu after changing into edit mode (using the pencil button). Once in edit mode,the validation status button will be active. Clicking this button will show a Validation status pop-up where flags, validation step and validation source can be applied to selected time series.		
Configuration - ValidationStatus, Plugin - Gui - Time Series	FEWS-13601	New Feature as subtask	FEWS-13328 Interface developments ValidationStatus - Validation step color chart bar indicates progress				
Configuration - ValidationStatus, Plugin - Gui - Time Series	FEWS-13600	New Feature as subtask	FEWS-13328 Interface Developments ValidationStatus - Meaning of FlagsourceColumn must be configurable				
Plugin - Gui - Time Series	FEWS-13586	Improvement as subtask	FEWS-10616 Plot Overview "zoom to thresholds"				
Plugin - Gui - Time Series	FEWS-13308	Improvement as subtask	FEWS-10053 horizontal gridlines should meet scaleUnit and precision				
Plugin - Gui - Time Series	FEWS-13674	Improvement as subtask	FEWS-9861 NWS: FB 1880 Automatic "temporary" timeseries setting in FEWS				

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Time Series	FEWS-13509	Improvement as subtask	FEWS-10616 TVA. Central moving average statistical method doesn't work for non-equidistant timeseries				
Database, Plugin - Gui - Time Series	FEWS-13179	New Feature as subtask	FEWS-12915 Automatically select aggregation method according to parameter type		See FEWS-13174		
Database, Plugin - Gui - Time Series	FEWS-13178	New Feature as subtask	FEWS-12915 Option to ignore unreliables in aggregation intervals		See FEWS-13174		
Plugin - Gui - Time Series	FEWS-13041	New Feature as subtask	FEWS-10616 TVA: add tooltip for threshold lines in TSD	TimeSeriesDisplay : tooltips for threshold lines in the plots	Configure tooltips using element <tooltip> within <levelThresholdValue> Tooltip can contain simple text, function or Html text. See examples.	<levelThresholdValue> <levelThresholdId>MinorPeil</levelThresholdId> <valueFunction>@MINOR_PEIL_VALUE@</valueFunction> <label>Minor Peil</label> <toolTip>Minor Peil Tooltip</toolTip> </levelThresholdValue> <levelThresholdValue> <levelThresholdId>MajorPeil</levelThresholdId> <valueFunction>@MAJOR_PEIL_VALUE@</valueFunction> <label>Major Peil</label> <toolTip>@MAJOR_PEIL_INFO@</toolTip> <!-- also possible <toolTip>any text @MAJOR_PEIL_INFO@ any text</toolTip> --> </levelThresholdValue> <levelThresholdValue> <levelThresholdId>AlarmPeil</levelThresholdId> <valueFunction>@ALARM_PEIL_VALUE@</valueFunction> <label>Alarm Peil</label> <toolTip><![CDATA[<html>Spill Warning for any spill or change in spill Major floods can be generated from catchments downstream of the dams Barkley Operator (270-362-4636) KY Division of Water (502-564-2150 ext. 3381 or 800-928-2380 or 270-564-2380) LMRFC NWS (985-641-4343)</html>]]> </toolTip> <!-- Html tooltip may also contain function for example @ALARM_PEIL_INFO@ --> </levelThresholdValue>	
Plugin - Gui - Time Series	FEWS-12999	Improvement	Improve labels on graph time axis	Time labels on x-axis will be truncated with larger ranges	-When the range on the x-axis exceeds 1 hour, seconds will no longer be displayed. -When the range on the x-axis exceeds 1 month, hours and minutes (and seconds) will no longer be displayed.		
Plugin - Gui - Time Series	FEWS-13174	New Feature as subtask	FEWS-12915 GUI screen to choose aggregation intervals and aggregation methods		GUI screen to choose resampling time step and resampling method. For all combinations of chosen time steps and resampling methods new time series will be added to the Time Series Dialog for all time series originally present. The newly added time series are only available within the functionalities of the Time Series Dialog and will not be added to the datastore. There are checkbox options to choose wheter missing values should be ignored and whether the original time series should be visible. WIKI: https://publicwiki.deltares.nl/display/FEWSDOC/27+Resampling+Dialog		
Plugin - Gui - Time Series	FEWS-11194	New Feature as subtask	FEWS-11062 Add all statistic options from DB lister in the TSD statistical functions				
Plugin - Gui - Time Series Modifier	FEWS-13666	Improvement as subtask	FEWS-9559 size Modifier list in configuration				
Plugin - Gui - Time Series Modifier	FEWS-13035	New Feature as subtask	FEWS-10616 TVA: Filter options and sort columns in Modifier Display Summary				
Plugin - Gui - Time Series Modifier	FEWS-11629	New Feature as subtask	FEWS-11235 BCHydro: enhancement to set defaultTime 'start run' for timeseries modifiers to allow singleValues mods				
Plugin - Gui - Time Series Modifier, Plugin - Module - Modifiers (ModuleParameters)	FEWS-10023	New Feature as subtask	FEWS-10053 New modifier type that allows to order a list of stations to define their priorities.	priorityModifier	ToDo Marijn		
Plugin - Gui - Time Series Modifier	FEWS-13335	Improvement as subtask	FEWS-9861 NWS: FB1831. Mod refreshes while editing				

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images

Plugin - Gui - What-if Scenario	FEWS-13609	New Feature as subtask	FEWS-13916 What-if: Change string property values in what-if scenario's	New feature to overrule string property values in what-if scenario's.	In imported what-if scenario's or what-if scenario's created in the WhatIfScenarioDialog, it is now possible to add overruling values for properties in a what-if scenario. This only supports properties that can be referenced in nested workflow files and module config files between $ signs (e.g. key). For a workflow run with an active what-if scenario, the values of these properties will be overruled by the values specified in the what-if scenario. The property $MODULE_INSTANCE_ID$ is added automatically and should not be replaced in a what-if scenario.
					
					To configure the properties and their values that can be selected in the WhatIfScenarioDialog GUI, it is now possible to add a properties section and an enumerations section in the whatIfScenarioFilters xml config file. Enumerations can be configured to define lists of string values. An enumeration can be used for one or more properties to indicate the values that the user is allowed to select for those properties in the WhatIfScenarioDialog GUI. This only supports properties of type string.
					
					Note:
					The WhatIfScenarioDialog GUI only supports properties of type string. Therefore, for what-if
						Config example of a what-if scenario with properties in an xml file that can be imported.
						
						`<whatifScenario version="1.1" id="copy7" name="copy 7">`
						`...`
						`<properties>`
						`<string key="key 1" value="string 1"/>`
						`<string key="very long key" value="very long string property"/>`
						`<string key="decision module file name" value="ScenarioAllGatesClosed"/>`
						`</properties>`
						`...`
						`</whatifScenario>`
						
						Config example of a what-if scenario filters xml file with properties and enumerations:
						`...`
						`<enumerations>`
						`<stringEnumeration id="enumeration1">`
						`<string>string 1</string>`
						`<string>string 2</string>`
						`<string>string 3</string>`
						`<string>yet another string</string>`
						`</stringEnumeration>`
						`<stringEnumeration id="decisionModuleFileNameEnumeration">`
						`<string>ScenarioAllGatesClosed</string>`
						`<string>ScenarioAllGatesOpen</string>`
						`<string>ScenarioSomeGatesClosed</string>`
						`</stringEnumeration>`
						`</enumerations>`
						`<properties>`
						`<property key="key 1">`
						`<!-- selectable values for this property -->`
						`<enumerationId>enumeration1</enumerationId>`
						`</property>`
						`<property key="very long key">`
						`<!-- selectable values for this property -->`
						`<enumerationId>enumeration1</enumerationId>`
						`</property>`
						`<property key="decision module file name">`
						`<!-- selectable values for this property -->`
						`<enumerationId>decisionModuleFileNameEnumeration</enumerationId>`	

Plugin - Module - Archive, System - PI Service	FEWS-14145	Improvement as subtask	FEWS-10616 archive webservice: Output "times" from defined timeSteps in returned XML				
Plugin - Module - Archive	FEWS-13955	Improvement	Only 1 forecast for a workflow should be exported to the archive				
Plugin - Module - Archive, System - PI Service	FEWS-14237	Improvement as subtask	FEWS-10616 archive webservice: Merging metadata.xml in Archive				

Configuration - ValidationStatus, Plugin - Module - Data Export	FEWS-13603	New Feature as subtask	FEWS-13328 ValidationStatus Import/Export - Export ValidationStatus to General-CSV / PI-XML format	TimeSeriesExport Activity supports validation status for PI XML and GeneralCSV	TimeSeriesExport Activity supports validation status for PI XML and GeneralCSV.
					For PI XMl the export type should be set to:
					<exportType>pi 1.19</exportType>
					
					For general CSV the flagSourceColumns should be specified that have to be exported. See the config example.
						`<?xml version="1.0" encoding="UTF-8"?>`
						`<timeSeriesExportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesExportRun.xsd">`
						`<export>`
						`<general>`
						`<exportType>generalCsv</exportType>`
						`<folder>../junit_test_output/nl/wldelft/fews/system/plugin/dataexport/TimeSeriesExportTest/exportGeneralCsv/export</folder>`
						`<exportFileName>`
						`<name>ExportGeneralCsv.csv</name>`
						`</exportFileName>`
						`<table>`
						`<dateTimeColumn name="DateTime" pattern="yyyy-MM-dd HH:mm"/>`
						`<locationColumn name="Location"/>`
						`<parameterColumn name="Parameter"/>`
						`<qualifierColumn name="QualifierId" prefix="CAL_"/>`
						`<qualifierColumn name="QualifierId" prefix="ILC_"/>`
						`<attributeColumn name="QualifierName" id="qualifierName" />`
						`<attributeColumn name="Type" id="type"/>`
						`<attributeColumn name="Groep" id="groep"/>`
						`<propertyColumn name="StringProperty" key="stringKey"/>`
						`<propertyColumn name="SecondStringProperty" key="secondStringKey"/>`
						`<flagSourceColumn name="A" id="A"/>`
						`<flagSourceColumn name="B" id="B" />`
						`<flagSourceColumn name="C" id="C"/>`
						`<flagSourceColumn name="D" id="D"/>`
						`<flagSourceColumn name="E" id="E"/>`
						`<valueColumn name="Value"/>`
						`<unitColumn name="Unit" />`
						`</table>`
						`<idMapId>GeneralCsv</idMapId>`
						`<exportMissingValueString>-9999.0</exportMissingValueString>`
						`</general>`
						`<timeSeriesSet>`
						`<moduleInstanceId>ExportRunMultipleTimeSeries</moduleInstanceId>`
						`<valueType>scalar</valueType>`
						`<parameterId>H.m</parameterId>`
						`<qualifierId>CAL_CALLFRAU</qualifierId>`
						`<qualifierId>ILC_ILCOCIMC</qualifierId>`
						`<locationId>Ha2020</locationId>`	

Plugin - Module - Data Export	FEWS-13636	Improvement	Add additional check to export observed				

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Data Export	FEWS-12985	New Feature as subtask	FEWS-10616 TVA: export data via UDP Socket		The UDPTimeSeriesSerializer is developed for TVA and writes the last none missing value of the timeseries in a TimeSeriesContent object to a UDPSocket. It is possible to configure two parameters: prefix: this value is used at the start of the message (default=SMTVA) packageSize: Size of packages that are to be sent. Messages larger than this value are cut up and sent through multiple calls. (default=1024). For the packageSize it is important that the value is equal to or less than the buffer size of the receiving UDP serer	<fews:timeSeriesExportRun xmlns:fews="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesExportRun.xsd" > <fews:export> <fews:general> <fews:serializerClassName>nl.wldelft.timeseriesserializers.UDPTimeSeriesSerializer</fews:serializerClassName> <fews:serverUrl>http://udpserver:4445/path</fews:serverUrl> <fews:connectionTimeOutMillis>1000</fews:connectionTimeOutMillis> <fews:user>you</fews:user> <fews:password>secret</fews:password> </fews:general> <!--Optional:--> <fews:properties> <!--First value to appear in message. Defaults to SMTVB--> <fews:string key="prefix" value="SMTVB"/> <!-- Maximum size of package to be sent. If message is greater than this value then serializer will loop over message until all is sent. It is very important to know that if this value is greater than the max package size of the receiving service then messages will be truncated! --> <fews:int key="packageSize" value="1024"/> </fews:properties> <!--Zero or more repetitions:--> <fews:timeSeriesSet> <fews:moduleInstanceId>string</fews:moduleInstanceId> <fews:valueType>scalar</fews:valueType> <fews:parameterId>not used</fews:parameterId> <!-- The locationIds are used as character code in message. Character code must consist of three character values --> <fews:locationId>COD</fews:locationId> <!-- <fews:locationSetId>locationSet</fews:locationSetId> --> <fews:timeSeriesType>external historical</fews:timeSeriesType> <fews:timeStep id="hour" multiplier="6"/> <!-- For each timeseries only the last none missing value is added to the message --> <fews:relativeViewPeriod unit="hour" start="-1" end="0" startOverrulable="true" endOverrulable="false"/>	
Plugin - Module - Data Import	FEWS-13949	Improvement as subtask	FEWS-13016 automatic import of limitsymbols (>, <) when in seperate column from valueColumn			<table> <dateTimeColumn name="DATE_SMP" pattern="dd-MM-yy HH:mm"/> <locationColumn name="LOC_CODE"/> <unitColumn name="Eenheid"/> <parameterColumn name="PARAMETER_ID"/> <qualifierColumn name="PAR_REF" prefix="PAR_REF_"/> <qualifierColumn name="PROD_CODE" prefix="PROD_CODE_"/> <sampleIdColumn name="SMP_CODE"/> <propertyColumn name="COST_CODE" key="COST_CODE"/> <limitSymbolColumn name="IND_MEAS"/> <valueColumn name="Waarde"/> </table> {code}	
Configuration - ValidationStatus, Plugin - Module - Data Import	FEWS-13602	New Feature as subtask	FEWS-13328 ValidationStatus Import/Export - Import ValidationStatus from General-CSV / PI-XML format	Validation status can be imported with generalCSV and PI XML	Validation status can be imported with generalCSV and PI XML (since version 1.19). With importType PI XML all flag source columns will be imported if the pi version is at least version 1.119. With the generalCSV importType the flagSourceColumns to be imported have to be configured within the table element. See the configuration example.	<?xml version="1.0" encoding="UTF-8"?> <timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <import> <general> <importType>generalCSV</importType> <folder>../junit_test_output/nl/wldelft/fews/system/plugin/dataImport/TimeSeriesImportTestData/import/generalcsv</folder> <table> <dateTimeColumn name="DATE" pattern="dd-MM-yy HH:mm"/> <locationColumn name="LOC"/> <unitColumn name="UNIT"/> <parameterColumn name="PARAM"/> <flagSourceColumn id="A" name="FS_A"/> <!-- column with name fs a will be mapped to the flag source column with identifier A --> <flagSourceColumn id="B" name="FS_B"/> <flagSourceColumn id="C" name="FS_C"/> <flagSourceColumn id="D" name="FS_D"/> <flagSourceColumn id="E" name="FS_E"/> <valueColumn name="VALUE"/> </table> <logWarningsForUnmappableLocations>true</logWarningsForUnmappableLocations> <logWarningsForUnmappableParameters>true</logWarningsForUnmappableParameters> <logWarningsForUnmappableQualifiers>true</logWarningsForUnmappableQualifiers> <maxLogWarnings>1000</maxLogWarnings> <missingValue>-999</missingValue> <importTimeZone> <timeZoneOffset>+01:00</timeZoneOffset> </importTimeZone> <dataFeedId>generalCSV</dataFeedId> </general> </import> </timeSeriesImportRun> En een voorbeeld csv: DATE;LOC;VALUE;UNIT;PARAM;FS_A;FS_B;FS_C;FS_D;FS_E 01-01-81 00:00:00+2001:2 3:m:P m:OK:OK:OK:OK:OK	

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Data Import	FEWS-13537	New Feature as subtask	FEWS-12929 Import Module: Import data from Aqualarm	Aqualarm importer: http://www.aqualarm.nl/	The Aqualarm importer can import chloride measures for Libith and Eijsden. Details on how to configure this service can be found at: https://publicwiki.deltares.nl/display/FEWSDOC/Aqualarm	<timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <import> <general> <importType>Aqualarm</importType> <serverUrl>http://www.aqualarm.nl</serverUrl> <connectionTimeOutMillis>20000</connectionTimeOutMillis> <relativeViewPeriod unit="day" start="-10" end="0" startOverrulable="true" endOverrulable="true"/> <idMapId>IdAqualarm</idMapId> <importTimeZone> <timeZoneName>GMT+2</timeZoneName> </importTimeZone> </general> <timeSeriesSet> <moduleInstanceId>ImportAqualarm</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.observed</parameterId> <locationId>Lobith</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> <timeSeriesSet> <moduleInstanceId>ImportAqualarm</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.observed</parameterId> <locationId>Eijsden</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </import> </timeSeriesImportRun> {code}	
Plugin - Module - Data Import	FEWS-13535	New Feature	FEWS Suir-AFFS	Import from Office of Public Works API	Imports sensor data from the OPW API. Data can be retrieved for the following periods; day, week or month.	<?xml version="1.0" encoding="UTF-8"?> <timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <!-- This is an example import configuration file for importing timeseries data from the OPW server --> <import> <general> <parserClassName>nl.wldelft.timeseriesparsers.OpwTimeSeriesServerPar ser</parserClassName> <!-- The format for an OPW data request is as follows: http://waterlevel.ie/data/<period>/<station_num>_<sensor_num>.csv where: period = day, week or month. These values are fixed. If the period is added to the serverUrl then the value of the relativeViewPeriod will be ignored. If the period is not added to the serverUrl then the value of the relativeViewPeriod will be converted to either; day, week, or month. station_num = Station identifier. This corresponds to the Location Id. This is a 5 digit number. sensor_num = Sensor identifier. This corresponds to the Parameter Id. This is either a 4 digit number or case sensitive e.g. OD --> <serverUrl>http://waterlevel.ie/data/</serverUrl> <!-- The relative view period will always be converted to one of the following values; day, week or month.--> <relativeViewPeriod unit="hour" start="-5" end="0" startOverrulable="true" endOverrulable="true"/> <idMapId>IdImportOpc</idMapId> <!-- Time zone of OPW server is always in UTC. --> <importTimeZone> <timeZoneOffset>00:00</timeZoneOffset> </importTimeZone> </general> <properties> <!-- Optional: This is a folder to which to OPW response messages will be written. Use this option for debugging purposes. --> <string key="RequestOutputDirectory" value="DOC"/>	
Plugin - Module - Data Import	FEWS-13479	Improvement as subtask	FEWS-10053 Do not add datafeed id status (for system monitor import status) in case dataFeedId is empty string.	TimeSeriesImport: disabling import status of a particular data feed with a option disableDataFeedInfo	By default the import status of a data feed is stored in database (table ImportStatus) and displayed in SystemMonitor. Use option disableDataFeedInfo in TimeSeriesImport configuration file if the info for a particular data feed should be not stored and not shown.	<import> <general> <importType>PI</importType> <folder>$REGION_HOME$/import/external</folder> <disableDataFeedInfo/> </general> <timeSeriesSet> <moduleInstanceId>Import</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.m</parameterId> <locationSetId>ReportLocations</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </import> {code}	

Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Data Import	FEWS-12962	Improvement as subtask	FEWS-12539 2 improvements for generalCSV import: alfanumerical values and enumerations		The general csv parser now strips of < and > when in front of value and sets out of detection range flag accordingly. It can also import enumerations by their label.	parameters.xml: <enumerations> <enumeration id="Gate"> <value code="0" label="Closed"> <description>Gate is closed</description> </value> <value code="1" label="Half Open"> <description>Gate half open</description> </value> <value code="2" label="Open"> <description>Gate is open</description> </value> </enumeration> </enumerations> <parameterGroups> <parameterGroup id="Gate"> <enumerationId>Gate</enumerationId> <parameter id="Gate" name="Gate"> <shortName>Gate</shortName> </parameter> </parameterGroup> timeSeriesImportRun: see ImportEnumerations.xml Example import file: see enumeration.csv	
Plugin - Module - Data Import, Plugin - Module - General Adapter	FEWS-12927	New Feature as subtask	FEWS-10616 TVA: new pi_tables.xsd time series format	PiTableParser	IMPORT type "pi_tables" reads PiTables.xml and stores the content of the tables as 1D spectra series. Parameter in the column 'a' represents domain parameter in Fews. Parameters in the columns from 'b' to 'z' correspond to a separate time series set. The series imported from PiTable.xml can be shown in TimeSeriesDisplay, in a plot similar to the longitudinal profile plot EXPORT type "pi_tables" Writes PiTables.xml. The series with the same domain parameter, location and (optionally) qualifier are exported as one table. The parameter values are writen in the table columns 'b' - 'z'. Usage in GA To export and import PiTable series in GA, you can presently use export- and importCustomFormatTimeSeriesActivity. Configuration examples can be found in attached PiTablesConfigExamples.zip		
Plugin - Module - Data Import	FEWS-13108	New Feature as subtask	FEWS-9563 FOEN-DEV: New import format EEX for electricity price data	EEX import function for time series of an EEX data stream	The EEX import function (<importType>EEX</importType>) imports time series of an EEX data stream (transformed electricity rates time series; https://www.eex.com/en/). See: https://publicwiki.deltares.nl/display/FEWSDOC/EEX	<?xml version="1.0" encoding="UTF-8"?> <timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <import> <general> <importType>EEX</importType> <folder>$IMPORT_FOLDER$/eex</folder> <idMapId>eexMapId</idMapId> </general> <timeSeriesSet> <moduleInstanceId>ImportEEX</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.observed</parameterId> <locationId>Swissix</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <relativeViewPeriod unit="hour" start="0" end="24"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </import> </timeSeriesImportRun> {code}	

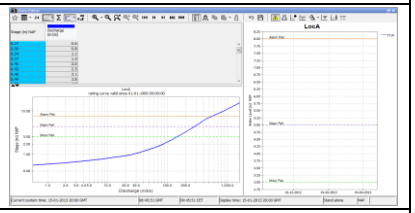
Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Data Export, Plugin - Module - Data Import	FEWS-12677	New Feature as subtask	FEWS-9930 Add support for irregular (unstructured) grids to NetCDF import and export	Delft-FEWS can now import and export unstructured grid/flexible mesh data.	Delft-FEWS can now import and export unstructured grid/flexible mesh data. To import/export unstructured grid/flexible mesh data in Delft-FEWS, use a timeSeriesImport/ExportRun with type "NETCDF-CF_GRID" or use a generalAdapter import/exportNetcdfActivity. For this you need to add an irregular grid definition to the grids.xml file. The easiest way to do this is by using the new option "netcdfFile" that refers to a NetCDF file that contains a UGRID mesh topology (and no data). This currently only supports UGRID mesh topologies with 2D coordinates. This can be 1D network, 2D triangular, 2D flexible or 3D layered mesh topologies. For more information see https://github.com/ugrid-conventions/ugrid-conventions	example in grids.xml: <irregular locationId="meshLocation"> <netcdfFile> <file>simplebox_hex7_map_corrected.nc</file> <meshTopologyVariableName>mesh2d</meshTopologyVariableName> <staggerLocation>face</staggerLocation> </netcdfFile> </irregular> {code}	
Plugin - Module - Data Import	FEWS-12529	Improvement as subtask	FEWS-12539 Option in Sample Import to merge with existing sample data		Option in timeSeriesImportRun, <mergeWithExistingSampleData>, to merge newly imported sample data with previously imported data for the same sample	<dataFeedId>generalCSV</dataFeedId> <mergeWithExistingSampleData>true</mergeWithExistingSampleData> </general> {code}	
Plugin - Module - Data Import	FEWS-12000	New Feature as subtask	FEWS-10616 TVA: new webservice import parser for DataWare data	DataWare REST service parser	DataWare REST service parser. For documentation see: https://publicwiki.deltares.nl/display/FEWSDOC/DataWare	<import> <general> <importType>DataWare</importType> <serverUrl>http://server:port/rest/read/data/</serverUrl> <relativeViewPeriod unit="day" start="-1" end="0" startOverrulable="true" endOverrulable="true"/> <idMapId>IdImportDataWare</idMapId> <flagConversionsId>ImportFlagConversions</flagConversionsId> <importTimeZone> <timeZoneName>GMT-5</timeZoneName> </importTimeZone> </general> {code}	
Plugin - Module - Data Import	FEWS-14127	Improvement	Improve HVZ-LILA import to check on Station if Stationsnummer does not exist				
Plugin - Module - General Adapter	FEWS-13795	Improvement as subtask	FEWS-10616 TVA: add timezoneId to pi output when GA runs in daylight saving timezone				
Plugin - Module - General Adapter	FEWS-13443	Improvement	GA: Shutdownactivities - Allow for purgeActivity prior to zipActivity				
Plugin - Module - General Adapter	FEWS-13365	New Feature as subtask	FEWS-9563 Add z values to NetCDF files when data exported from General Adapter				
Plugin - Module - General Adapter	FEWS-13044	New Feature	Export dataset activity: coldStateDataSetName. Special dataset name when cold state was exported		In the general adapter a specific dataset name can be configured, <coldStateDataSetName>, for when cold state was exported	<exportDataSetActivity> <description>Export data set</description> <moduleInstanceId>ExportStateActivity</moduleInstanceId> <coldStateDataSetName>ExportActivityColdState</coldStateDataSetName> </exportDataSetActivity> {code}	
Plugin - Module - General Adapter	FEWS-13475	New Feature	GA WPS Activity: DensityChart				

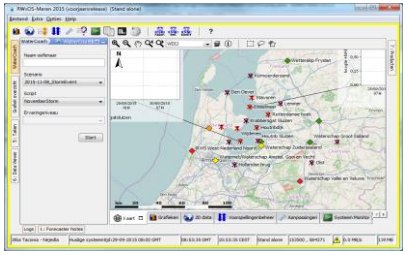
JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Configuration - ValidationStatus, Plugin - Module - Interpolation	FEWS-13596	New Feature as subtask	FEWS-13328 Introduction flagSourceColumns - Option to specify flagSource for an Interpolation	Transformation interpolationSerial linear can write a custom flag source to the flagSource for interpolated values	Transformation interpolationSerial linear can write a custom flag source to the flagSource for interpolated values. With the outputFlagSource element, the custom flag source can be specified. For example: <outputFlagSource>OK</outputFlagSource> See also the config example	<?xml version="1.0" encoding="UTF-8"?><transformationModule version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wldelft.nl/fews" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/transformationModule.xsd"> <!-- input variables --> <variable> <variableId>input</variableId> <timeSeriesSet> <moduleInstanceId>InterpolationSerialBlockFunctionTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Wind.obs.dir</parameterId> <locationId>locationWithAttributes3</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="day"/> <relativeViewPeriod unit="day" start="0" end="63"/> <readWriteMode>editing visible to all future task runs</readWriteMode> </timeSeriesSet> </variable> <!-- output variables --> <variable> <variableId>output</variableId> <timeSeriesSet> <moduleInstanceId>InterpolationSerialBlockFunctionTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Wind.forecast.dir</parameterId> <locationId>locationWithAttributes3</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="day"/> <relativeViewPeriod unit="day" start="0" end="63"/> <readWriteMode>editing visible to all future task runs</readWriteMode> </timeSeriesSet> </variable> <!-- transformations --> <transformation id="InterpolationSerialExtrapolateBaseFunctionTest"> <interpolationSerial> <linear> <inputVariable>	
Plugin - Module - Modifiers (TimeSeries)	FEWS-13217	Improvement as subtask	FEWS-10053 Make it possible to apply a time shift to a (set of) TS mods or do that while importing the mods				
Plugin - Module - Reports	FEWS-13781	Sub-task	FEWS-11816 Report: list all threshold crossings by season in rowPerLocationHtmlTable	RowPerLocationHtmlTable – new features	RowPerLocationHtmlTable can be used to list all crossings in a view period or season. The crossings can be also grouped by date, in separate html tables. The separate tables can be merged in one html report. To create this report type, use the following features: 1. Use THRESHOLDCROSSING function with keyword starting with “ALL_” , to specify that all threshold crossing should be listed For example THRESHOLDCROSSING(ALL_VALUES;Hmeasured;numberFormat1) 2. Use option writeTablePerCrossingDate=true to generate one table per date. Also use scrubFolder=true to clear folder before the new tables are created. The number of generated tables differs every time the report is created . 3. Configure season if the default view period should be overruled with the season 4. To merge the tables, configure only <template> and <outputFileName> in a report. In the template use function $FILECONTENT(table*.html)$ to include all tables per date. Use $FILECONTENT(table*.html;REMOVE)$ if the files should be deleted after include.	See attached thresholdCrossingTablesPerDate.ZIP	
Plugin - Module - Reports	FEWS-13425	Improvement	Report Module: Move logmessages from INFO to DEBUG	Debug logmessages are no longer logged to the database, only to log file.	Since debug logmessages are no longer logged to the database, some interesting log events of debug level have now been promoted to the info level.		
Plugin - Module - Reports	FEWS-13759	New Feature as subtask	FEWS-12430 Extend Report Functionality: Add the ability to display information in the table with either oldest first or newest first	Html Reports & writing times in descending order	By default the Html reports write data from old to new, it means times are sorted in ascending order. Use option ‘timesInDescendingOrder’ to sort the times from new to old.	<htmlTableFormat id="htmlTableFormat1" tableStyle="tableStyle3"> <column>time</column> <row>allSeries</row> <relativeWholePeriod start="-6" end="0" unit="hour"/> <topLeftText>date/time</topLeftText> <cellFormat>{0,number,0.00}</cellFormat> <topFormat>{0,time, HH:mm}</topFormat> <leftFormat>{1}</leftFormat> <missingValueText>-</missingValueText> <nullValueText>no data</nullValueText> <timesInDescendingOrder>true</timesInDescendingOrder> </htmlTableFormat>	

Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Reports	FEWS-13760	New Feature as subtask	FEWS-12430 Develop ability to use the season concept when using Html tables (htmlTableFormat)	Reports & Html table : new options in htmlTableFormat	Option "season" Use this option to specify seasonal table view period for a specific Html table. The season overrules the relative view period configured with TimeSerieSet's. Option "trimViewPeriodToLastNonMissingAfterTime0" Use this option when the configured view period should be dynamically amended to the time of the last non missing value after time zero (after current system time) If the season is configured and the last non missing value is before or at time zero, then the view period is trimmed up to the whole day after time zero. If the last non missing value is after time zero, then the view period is	Example from Reports.xml <htmlTableFormat id="htmlTableFormat" tableStyle="tableStyle3"> <column>time</column> <row>allSeries</row> <season> <startMonthDay>--12-25</startMonthDay> <endMonthDay>--01-25</endMonthDay> </season> <trimViewPeriodToLastNonMissingAfterTime0>true</trimViewPeriodToLastNonMissingAfterTime0> <topLeftText>date/time</topLeftText> <cellFormat>{0,number,0.00}</cellFormat> <topFormat>{0,time, dd-MM-yyyy HH:mm}</topFormat> <leftFormat>{1} {2} [{3}]</leftFormat> <missingValueText>-</missingValueText> </htmlTableFormat>	
Plugin - Module - Reports	FEWS-13692	Improvement	Fews in WaterCoach mode & Reports : reports should use de configured display time				
Plugin - Module - Reports	FEWS-13264	New Feature as subtask	FEWS-13262 NWS: FB1623 - Rating Plot Enhancements	RatingCurve display improvements	The following improvements has been added: - Thresholds are displayed as vertical markers if stage or discharge are shown on the x-axis - stage and discharge are displayed using the precision of the rating curve stage and discharge parameter - button 'Rating curve' has a menu option 'Logarithmic axis' to switch between linear and logarithmic axes		
Plugin - Module - Reports	FEWS-12684	Improvement as subtask	FEWS-12430 Extend Report Functionality: Seasonal Plots in Report Charts	Reports & charts : option to trim the view period to the time of the last non missing value after time zero	Use the option "trimViewPeriodToLastNonMissingAfterTime0" when the configured view period should be dynamically amended to the time of the last non missing value after time zero (after current system time) If the season is configured and the last non missing value is before or at time zero, then the view period is trimmed up to the next whole day after time zero. If the last non missing value is after time zero, then the view period is trimmed up to the next whole day after last non missing.	Example from Reports.xml <chartFormat id="chartFormat"> <includeTime0>true</includeTime0> <season> <startMonthDay>--12-15</startMonthDay> <endMonthDay>--02-15</endMonthDay> </season> <trimViewPeriodToLastNonMissingAfterTime0>true</trimViewPeriodToLastNonMissingAfterTime0> </chartFormat> {code}	
Plugin - Module - Statistics	FEWS-13177	New Feature as subtask	FEWS-12915 Possibilty to select multiple aggregation intervals and aggregation methods at once		See FEWS-13174		
Plugin - Module - Statistics	FEWS-13176	New Feature as subtask	FEWS-12915 Option to ignore missings in choosable aggregation intervals		See FEWS-13174		
Plugin - Module - Transformation	FEWS-2526	Improvement as subtask	FEWS-3428 Interpolation Serial: extrapolate persistence				
Plugin - Module - Transformation	FEWS-13613	Improvement	Trim functionality to remove missings with flag after Transformation				
Plugin - Module - Transformation	FEWS-12950	Improvement as subtask	FEWS-9861 NWS: speed up PCA computations				

JIRA Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Transformation	FEWS-6181	Improvement as subtask	FEWS-3428 Profile: Harmonics	Added transformation GenerationTidalConstituents to new TransformationModule.	Added transformation GenerationTidalConstituents to new TransformationModule. This is the same as the old ruleBasedTransformation "harmonictotimeseries" in the old transformations. The new version can also use location attributes. See documentation on wiki page https://publicwiki.deltares.nl/display/FEWSDOC/GenerationTidalConstituents+Transformation	Configuration example: <transformation id="GenerationTidalConstituentsTest"> <generation> <tidalConstituents> <coefficientSet> <constituent name="M2" amplitude="2.5" phase="1080"/> <constituent name="S1" amplitude="-1.001" phase="-45.001"/> </coefficientSet> <outputVariable> <variableId>output</variableId> </outputVariable> </tidalConstituents> </generation> </transformation> Configuration example with location attributes (in this case only specify one constituent to link the name, amplitude and phase to the corresponding columns in the locationAttributes file): <transformation id="GenerationTidalConstituentsWithLocationAttributesTest"> <generation> <tidalConstituents> <coefficientSetFunctions> <constituent name="@NAME@" amplitude="@AMP@" phase="@PHASE@"/> </coefficientSetFunctions> <outputVariable> <variableId>output</variableId> </outputVariable> </tidalConstituents> </generation> </transformation> The location attributes file can contain multiple rows with constituents per location, e.g.: location1 M2 2.5 0 location1 S1 -1.001 -45.001 location2 M2 3.5 0 location2 S1 1.10	
System - Logging	FEWS-13448	Improvement	Add debug logging for all file IO				
System - PI Service	FEWS-13957	Improvement	Small GUI improvements for the rest webservice				
System - PI Service	FEWS-13774	New Feature as subtask	FEWS-10616 TVA: add moduleInstanceId element to pi webservice		moduleInstanceId element is added to Pi xml version 1.17		
Configuration - ValidationStatus, System - PI Service	FEWS-13604	New Feature as subtask	FEWS-13328 ValidationStatus Import/Export - Support/Implement ValidationStatus in PI Webservice	PI Service can export validation status since version 1.19	PI Service can export validation status since version 1.19. Passing this version in the PI Service requests, will export the validation steps as well. For example: <event date="2007-12-09" time="00:00:00" value="12.259999" flag="0" fs:Step1="1" fs:Step2="2" fs:Step3="3"/>		
System - PI Service	FEWS-13665	Improvement as subtask	FEWS-10616 TVA: Add the method getSystemTime to the Tomcat PiService API				
System - Synchronisation	FEWS-13677	Improvement as subtask	FEWS-13262 NWS: FB1267 IFD green checkmarks appears when all data is synched				
Water Coach	FEWS-12969	Improvement as subtask	FEWS-12846 Create WaterCoach module in folder 'modules'				
Water Coach	FEWS-12968	Improvement as subtask	FEWS-12846 Accomodate WaterCoach schemas in Fews namespace				
Water Coach	FEWS-12970	Improvement as subtask	FEWS-12846 Integration WaterCoach module in Fews	WaterCoach embedded in Fews	How to migrate to WaterCoach SA Embedded : 1. Configure scenario database folder in Fews global.properties for example add the key WATERCOACH_SCENARIO_DATABASE_FOLDER=/WaterCoachMeren/ScenarioScriptDatabase/Meren_WC_2015 2. Copy WaterCoach config.xml to the Fews folder Config\DisplayConfigFiles and modify it See modified Meren_WC_2015.xml in attachments - replace root element config with root element waterCoachDisplay - add element <config> - remove elements <locale>, <fewsExecutable>, <fewsRegionDir>, <fewsPiPortNumber> - move element <hideYear> under the element <scenarioScriptDatabasePath> - use key from global.properties to configure <scenarioScriptDatabasePath> 3. Add WaterCoch plugin to Explorer.xml: <explorerTask name="WaterCoach"> <displayConfigFileName>Meren_WC_2015</displayConfigFileName>		 

Delft-FEWS 2015.02 - New Features

Component/s	Key	Issue Type	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Water Coach	FEWS-12972	Improvement as subtask	FEWS-12846 WaterCoach code cleanup: Utilities				
Xml Schemas for Configuration	FEWS-13894	Improvement	Add GDA geodatums 48 to 59	GDA geodatums 48 to 59 added	GDA geodatums 48 to 59 added (Australian Continent)		
Xml Schemas for Configuration	FEWS-13057	Improvement as subtask	FEWS-12846 Develop new schema for Water Coach Display Config				
	FEWS-13722	Sub-task	FEWS-13718 BIR: ActiveMQ https compatible maken			<!-- Location of specific AI war file. (Can be a symlink) --> <Context docBase="${catalina.home}/fews/fewsadmin.war"> <!-- Data source to connect to the central database --> <Resource name="jdbc/fews/eamimc01" scope="Shareable" auth="Container" type="javax.sql.DataSource" factory="org.apache.commons.dbcp.BasicDataSourceFactory" driverClassName="oracle.jdbc.OracleDriver" url="jdbc:oracle:thin:@pl-or001.xtr.deltares.nl:1521:EAMI01" username="fews" password="pass01word" validationQuery="SELECT entryId FROM Sequences" maxActive="20" maxIdle="10" maxWait="5000" removeAbandoned="true" removeAbandonedTimeout="2700"/> <!-- Location of MC configuration file. Use forward slashes for systems running on windows, e.g. D:/opt/mc/fewsmc --> <Parameter name="NFFS_HOME" value="/opt/fews/mc/mcs/nffs/mimc01" override="false"/> <Parameter name="mc_configuration_file" value="fews.master.mc.conf" override="false"/> <Parameter name="keystore_file" value="/opt/fews/mc/mcs/nffs/mimc01/client.keystore" override="false"/> <Parameter name="truststore_file" value="/opt/fews/mc/mcs/nffs/mimc01/client.truststore" override="false"/> </Context>	
	FEWS-14267	Improvement	Parameter enumeration value should not be limited to nonNegativeInteger. Should be possible to use negative values too.				