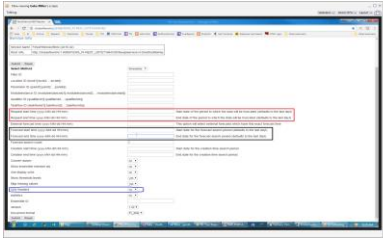
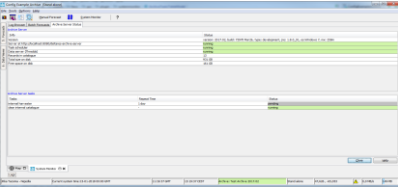
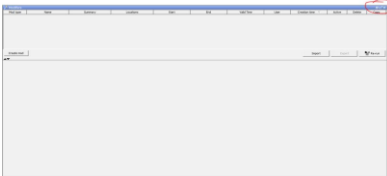


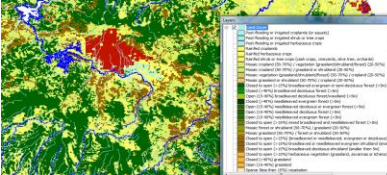


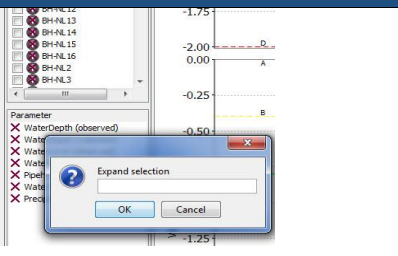

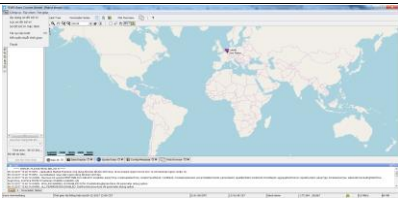

JIRA Delft-FEWS 2017.02 New Features

Key	Component/s	Summary	Release Note Text	Release Note Text Description	Config Example	Images	Link to Documentation	Customer name
FEWS-17763	App - Admin Web User Interface	FEWS-16767 Test AI functionality with new database schema changes						Deltares
FEWS-17115	App - Admin Web User Interface	AI should check jdbc driver version	The system status page provides a warning when an older jdbc driver is used and provides a tooltip when all is well.	There have been some problems with older jdbc drivers, and they have been replaced in the master-controller. However the jdbc drivers in the admin interface might also need updating. The migration update procedure now also includes a version check of the jdbc driver in tomcat where the admin interface is running. The system status page now warns if this step was not executed properly as a precaution. Jdbc driver versions postgres 42 and oracle 12.2 are now required (included in master-controller lib directory).				Deltares
FEWS-16904	App - Admin Web User Interface	FEWS-16887 NWS: #24695 AI scheduled tasks should be MC-specific.	Allow downloading tasks for the current MC only	The admin interface has been extended to support downloading tasks for the current MC only. The following scheduled tasks actions are now available: Download Scheduled Tasks: All Current MC		<p>Scheduled Tasks</p> <ul style="list-style-type: none"> Schedule New Task Upload Task(s) from File Download Scheduled Tasks: All Current MC <p>Forecast Tasks</p> <p>Scheduled Tasks</p> <ul style="list-style-type: none"> Schedule New Task Upload Task(s) from File Download All Scheduled Tasks <input type="checkbox"/> Only tasks of current MC 		NWS
FEWS-15268	App - Admin Web User Interface	FEWS-16767 AI: additional functionalities	Admin interface displays status for synchronization, rolling barrel, system alerter and task runs	Admin interface displays status for synchronization, rolling barrel, system alerter and task runs				Deltares - Roadmaps
FEWS-18522	App - Admin Web User Interface	FEWS-16767 AI: Add button to update schema modification time to force rebuilding cache files.	AI: Add button to update schema modification time to force rebuilding cache files.	SystemControl now has a button to force clear cache on FSSs.				Deltares - Roadmaps
FEWS-12527	App - Archive	Verify that the export to the archive is successful						Deltares - Roadmaps
FEWS-17660	App - Archive	remove dependency from tomcat for archive backend	the architecture of the archive is simplified	To make it easier to write unit tests for the archive the architecture is now simplified. It is now possible to start the core of the archive server without tomcat. This will make it easier to write unit tests and develop new functionality.				Deltares - Roadmaps
FEWS-17285	App - Archive	FEWS-17266 TVA, webservice request for checkbox to allow filtering on data type	onlyforecasts can be used to only get forecast time series from the pi service	onlyforecasts can be used to only get forecast time series from the pi service				TVA
FEWS-17477	App - Archive	Cache elastic search queries only for the requesting thread	code improvement for the seamless integration	To improve the performance of the seamless integration requests are cached. The results are now stored in cache specific for the requesting thread.				Deltares
FEWS-18018	App - Archive	FEWS-14334 Verify exported metadata file for simulated datasets	additional check in archive export	To ensure that the data is exported correctly to the archive an additional check is added. The export will now verify that all exported netcdf-files are listed in the metaData.xml file.				Deltares
FEWS-16882	App - Archive	FEWS-15003 make it possible to access elastic catalogue by the piwebservice	access the elastic catalogue by the pi webservice	In the future it will be possible to access the elastic catalogue by the pi webservice. In this release a temporary version is available. It is mainly used for demo and evaluating purposes and will be extended later to final production version.				BPA
FEWS-18364	App - Archive, Plugin - Gui - System Monitor	FEWS-14334 Open Archive status in SystemMonitor	Archive Server Status in SystemMonitor	When FEWS is connected to Archive version 2017.02 or higher, then the status of the Archive is shown in a separate tab "Archive Server Status" in SystemMonitor. The picture ArchiveStatus.png shows an example of this tab.				
FEWS-12898	App - Configuration Manager Gui, Database	FEWS-16767 Migrate default config tables to default config synch level	Databaseinitialisation tool migrates default config tables	The Databaseinitialisation tool will migrate default config tables by setting synchlevel 11 for the corresponding table. After completion the default config tables will be deleted.			https://publicwiki.deltares.nl/display/FEWS2020/Database+initializationTool	Deltares - Roadmaps
FEWS-16447	App - Data Conversion Module	DCM Export: MeteoAlarm						RWS
FEWS-14305	App - Delft-FEWS	FEWS-16767 Remove JMS from OC						Deltares - Roadmaps
FEWS-18700	App - Master Controller Server, Database	FEWS-16767 Reduce number of database connections per OC/FSS/Pi to 4						Deltares - Roadmaps
FEWS-17355	App - Master Controller Server, Database	FEWS-16767 Create MC datasource						Deltares - Roadmaps

JIRA Delft-FEWS 2017.02 New Features

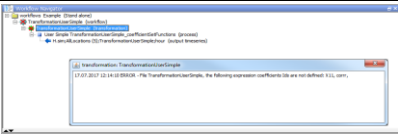
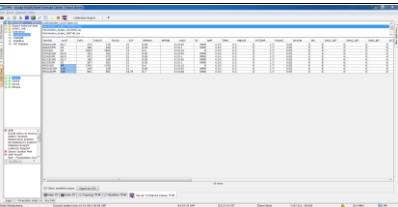
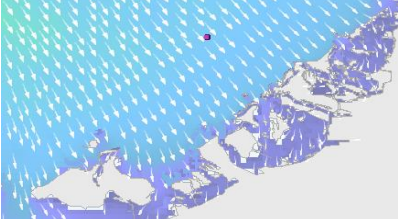
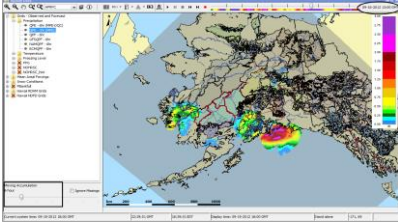
FEWS-17900	App - Master Controller Server	FEWS-16767 Remove populator						Deltares - Roadmaps
FEWS-17936	App - Master Controller Server	FEWS-16767 Implement Delft_SQL.jar in MC code						Deltares - Roadmaps
FEWS-17764	App - Master Controller Server	FEWS-16767 MC initialisation						Deltares - Roadmaps
FEWS-18240	App - Master Controller Server	FEWS-16767 System Alert and Log Processor						Deltares - Roadmaps
FEWS-17560	App - Master Controller Server	FEWS-16663 Quebec - Eliminate plain-text database password in fews.master.mc.conf	Make it possible to use encryptedPassword in fews.master.mc.conf	Configurator can now generate a fews.master.mc.conf with a encryptedPassword for the database connection	<pre>[code] <code></code> </pre>			Quebec
FEWS-17899	App - Master Controller Server, Database	FEWS-16767 Implement deletion of rows using DeletedRows and ProcessedDeletedRows tables (replace marked record manager)	Distributed deletion of rows has been implemented using the new DeletedRows and ProcessedDeletedRows tables.	see also section on RollingBarrel in https://publicwiki.deltares.nl/display/FEWS2020/Implementation+process				Deltares - Roadmaps
FEWS-16299	App - Operator Client Gui (Explorer)	FEWS-17266 TVA: ability to minimize undocked windows						TVA
FEWS-16887	App - Operator Client Gui (Explorer)	FEWS-17266 TVA: F12 option to remove cache files without having to restart client manually						TVA
FEWS-17057	App - Operator Client Gui (Explorer)	Add re-scale option while using expression filter						GO-FEWS (Selection of Dutch Waterboards)
FEWS-18313	App - Operator Client Gui (Explorer)	FEWS-16767 Rolling Barrel Implementations SA / OC						Deltares - Roadmaps
FEWS-18269	App - Operator Client Gui (Explorer)	FEWS-16767 OC System Monitor: add mc-mc synchronisation metrics						Deltares - Roadmaps
FEWS-18242	App - Operator Client Gui (Explorer), Database	FEWS-16767 Remove on demand blob download						Deltares - Roadmaps
FEWS-17848	App - Operator Client Gui (Explorer)	FEWS-16132 HERMES: Today Button Zoom to System Cardinal Time in SA						BPA
FEWS-17600	App - Operator Client Gui (Explorer)	FEWS-17202 Smart labeling for polylines	smart labeling for line shapelayers	Instead of a single fixed label location, labels for line shapelayers are now displayed at the line and will move along the line when the view window is adjusted. Note: FEWS-17802 allows for this new behavior to be turned off through the layer configuration.				APP
FEWS-17599	App - Operator Client Gui (Explorer)	FEWS-17202 Option to make labels invisible	option to make labels invisible in layer selection panel (moved color change options)	When you right-click a layer in the layer selection panel, an option will be available to turn off/on the labels for that label (when applicable). The already present functionality to change the fill and line color of layers was moved from the double-click menu to this new right-click menu.				APP
FEWS-17598	App - Operator Client Gui (Explorer)	FEWS-17202 Option to show legend for background layer (eg DTM)	layer selection panel is displayed as legend next to map and contains legend images for wms layers	The layer selection panel was moved from a separate pop-up menu to a panel displayed to the right of the map when toggled. For WMS layers a legend image is downloaded and displayed in this panel (when available), similar to how it already contained a legend for layers with classbreaks.				APP
FEWS-16869	App - Operator Client Gui (Explorer)	FEWS 64 bit OC starts really slow	Known issue: 64b JRE does not contain client caching. Might take longer to startup OC using 64b					Deltares

JIRA Delft-FEWS 2017.02 New Features

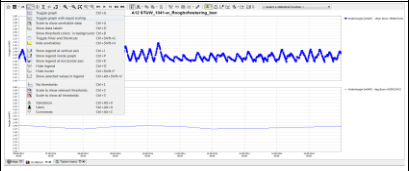

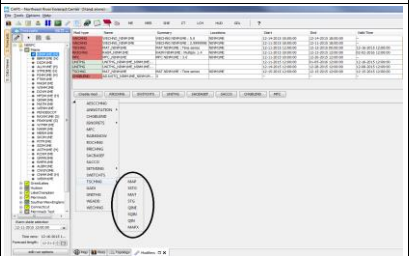
FEWS-17921	App - Operator Client Gui (Explorer)	FEWS-17521 Expand/shrink selection functionality unclear	clearer expand/shrink selection window	More text was added to the expand/shrink selection box, to make the possible entries clearer.			Deltares
FEWS-17556	App - Operator Client Gui (Explorer)	FEWS-17202 Add button to show last value in explorer	added button to change location labels to map display	Added a drop-down button to the map display to allow selecting whether the last value should be displayed in the labels. The functionality is similar to the label button already present in the spatial / grid display.			APP
FEWS-17654	App - Operator Client Gui (Explorer)	FEWS language: add Vietnamese as user language (GUI)	add Vietnamese to language options	Language files for Vietnamese were added to FEWS.			Provinces Vietnam
FEWS-18435	App - Operator Client Gui (Explorer)	Store system time in user_settings.ini for SA	Store system time in user settings for Stand Alone	The system time of a stand alone is now stored in and read from the user settings, if and only if <adjustSystemTimeAutomatically> is set to false. Note that this is the default for stand alone environments. Set this element (found in explorer.xml -> <dateTime>) to true for a stand-alone environment in which the system time should be adjusted to the actual time automatically. For stand alone environments in which this is not configured, the new default behavior will be that the system time is only changed when adjusted manually, and no longer updated to the current time on start-up. Note that the value stored in the user settings will be overruled if a TD is configured in the global properties.			https://publicwiki.deltares.nl/display/FEWSDOC/01+FEWS+Explorer+id-01+FEWS+Explorer+adjustSystemTimeAutomatically
FEWS-18416	App - Operator Client Gui (Explorer)	Split location counter (data viewer) in main and sublocations	Location counter in data viewer is split between parent and child locations	When the time navigator toolbar is enabled in the explorer, a location count is shown in the data viewer. This count has now been split in two separate counts: the number of parent locations and the number of child locations.			HDSR
FEWS-17281	App - Operator Client Gui (Explorer)	Embedded PDF viewer default print format A4	Embedded PDF print changed default format from Letter to A4				
FEWS-18385	Configuration	FEWS-14299 idMap: Allow multi value attributes for parameters/functions					
FEWS-18147	Configuration	Custom hourly timestep at half hours (e.g. 00:30, 01:30, 02:30)	new timestep at specified minutes of each hour	A new possibility for defining a <timeStep> was added. The minutes attribute can be used to specify minute offsets for each hour. For example <timeStep minutes="15 50"/> will result in steps at 0:15, 0:50, 1:15, 1:50, etc.	<pre><?xml version="1.0" encoding="UTF-8" ?> <!-- Example --> <timeStep minutes="15 50"/> </timeStep></pre>	https://publicwiki.deltares.nl/display/FEWSDOC/26+TimeSteps+Other+examples	

FEWS-16983	Configuration	client.truststore improvements	client.truststore can be configured in the clientConfig.xml	The clientConfig.xml can now be used to explicitly configure the client.truststore and client.keystore using a custom name and location. If the configured files are not found, a config error will be logged. For backwards compatibility the client.truststore and client.keystore will still be used if no clientConfig.xml configuration was found.	<pre> <code> <?xml version="1.0" encoding="UTF-8"?> <clientConfiguration xmlns="http://www.wildfly.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wildfly.nl/fews http://www.wildfly.nl/schema/version1.0/clientConfig.xsd"> <clientIdDataStoreFormatDebyer/localhostFormat> </clientIdStore> <trustStoreFile>REGION_HOME/client.truststore/trustStoreFile< <keyStoreFile>REGION_HOME/client.keystore/keyStoreFile< </clientStore> </clientConfiguration> </code> </pre>	https://publicwiki.deltares.nl/display/FEWSDOC/How+to+configure+secure+https+connection+to+MIRA	Deltares
FEWS-16883	Database	FEWS-16887 NWS: #28627 Sequence table incorrect after database rebuild and initial MC_synchronisation					NWS
FEWS-18365	Database	Expand the taskTag column in the Tasks table to 146 characters so workflowid and taskTag do not need to be chopped anymore					Deltares - Roadmaps
FEWS-17353	Database	FEWS-16767 Create new table ForecastingShells					Deltares - Roadmaps
FEWS-16876	Database	FEWS-16767 Add globalRowid column to all tables					Deltares - Roadmaps
FEWS-17667	Database	FEWS-16767 Database time provider in extended datasource					Deltares - Roadmaps
FEWS-18237	Database	FEWS-16767 Add integer build number column to log entries table					Deltares - Roadmaps
FEWS-17575	Database	Optimize Snapshot / Replicate functionality			<pre> <code> <?xml version="1.0" encoding="UTF-8"?> <exportArchModule xmlns="http://www.wildfly.nl/fews http://www.wildfly.nl/schema/version1.0/exportArchModule.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wildfly.nl/fews"> <exportSnapshot> <general> <archiveFolder>ARCHIVE_DIR</archiveFolder> </general> <exportSnapshot> <exportName/NameId> <filter id="only time series"> <xmlConfig enabled="false" name="Default xml config" syncLevel="11"/> <oidStates enabled="false" name="Default oid states" syncLevel="11"/> <oidDataSets enabled="false" name="Default module data sets" syncLevel="11"/> <mapLayers enabled="false" name="Default map layers" syncLevel="11"/> <report enabled="false" name="Default report templates" syncLevel="11"/> <reportImages enabled="false" name="Default report images" syncLevel="11"/> <countInoutTimeSeries enabled="true" name="Discrete" syncLevel="10" maxAge="1000" unit="week"/> <countInoutTimeSeries enabled="true" name="Telemetry" syncLevel="11" maxAge="1000" unit="week"/> <countInoutTimeSeries enabled="true" name="Manual" syncLevel="15" maxAge="1000" unit="week"/> <countInoutTimeSeries enabled="true" name="Astronomical and Climateological" syncLevel="14" maxAge="1000" unit="week"/> <countInoutTimeSeries enabled="true" name="Small external forecast grid" syncLevel="16" maxAge="1000" unit="week"/> <countInoutTimeSeries enabled="true" name="Large external forecast grid" syncLevel="16" maxAge="1000" unit="week"/> <wmsData enabled="false" name="Wms states" maxAge="10" unit="week"/> <logEntries enabled="false" name="Log Entries" maxAge="11" unit="week"/> </exportArchModule> </code> </pre>		Deltares
FEWS-18432	Database	FEWS-16767 Always use sequences when inserting system activities					Deltares - Roadmaps
FEWS-17885	Database	Indexing TaskRunCompletion table is slow					0-USA
FEWS-18411	Database	FEWS-16767 Connection naming	name all database connections based on component name	name all database connections based on component name			Deltares - Roadmaps
FEWS-17175	Database	FEWS-16315 Add nullable exportTime column to ThresholdEvent table	The ThresholdEvents table has a new exportTime column				BoM
FEWS-17354	Database	FEWS-16767 Replace Sequences table with 4 database sequences	Sequence tables replaced by actual database sequences which are simpler and more efficient	Sequence tables replaced by actual database sequences which are simpler and more efficient			Deltares - Roadmaps
FEWS-18051	Database	FEWS-14299 FFFS: Add power function to time series rating curves	Rating curve with stageToDischargePowerEquation	stageToDischargePowerEquation represents the equations discharge = cr * (stage - alpha)^ beta where 'cr' and 'beta' are rating curve constants, and 'alpha' is a constant which represents the stage corresponding to zero discharge. To show the stageToDischargePowerEquation rating curves in the TimeSeriesDisplay, a table is generated on the fly from the power equations. For each equation ten stage values are generated using increment (max stage - min stage) / 10, and for each stage a discharge is computed. Please note that this table is only used in the display and not in TransformationModule computations.	<pre> <code> <?xml version="1.0" encoding="UTF-8"?> <ratingCurve> <name> <startDate date="2013-01-01" time="00:00:00"/> <endDate date="2013-01-01" time="00:00:00"/> <stageUnit>stage</stageUnit> <dischargeUnit>nb/s</dischargeUnit> </ratingCurve> <?xml version="1.0" encoding="UTF-8"?> <stageToDischargePowerEquation minStage="0.2750" maxStage="0.5" cr="8.8605" alpha="0.2250" beta="1.8032"/> <stageToDischargePowerEquation minStage="0.5" maxStage="1.0" cr="8.8605" alpha="0.2250" beta="1.8032"/> <stageToDischargePowerEquation minStage="1.0" maxStage="1.5" cr="8.8605" alpha="0.2250" beta="1.8032"/> <stageToDischargePowerEquation minStage="1.5" maxStage="2.0" cr="8.8605" alpha="0.2250" beta="1.8032"/> </code> </pre>		EA
FEWS-18238	Database	FEWS-16767 Implement Maintenance Mode	Maintenance mode support	From the admin interface maintenance mode can be started or stopped. When in maintenance mode other FEWS components aren't allowed to write to the database.			Deltares - Roadmaps

JIRA Delft-FEWS 2017.02 New Features

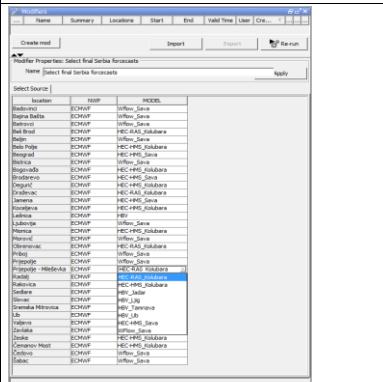
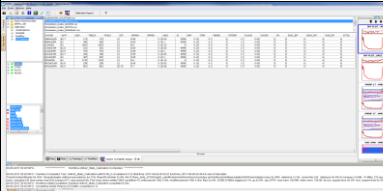
FEWS-17101	Debug Tool - Workflow Navigator	WFN should check if all referenced properties are available	WFN check of transformation module expressions	WFN checks to see if the variables and coefficients, referenced in the expressions, are defined. When any expression variable or coefficient is not defined, then the transformation module node is marked with a red cross. Using menu "Show messages" the popup can be opened that shows the undefined variables and/or coefficients. See picture WFN.png			Deltares
FEWS-18635	Documentation	FEWS-17521 Check with ICT-GS what Database recovery mode means					
FEWS-18633	Documentation	FEWS-17521 Check how OC logging is written to, read from and acknowledged from central database					
FEWS-17399	Module Adapter - All	Upgrade wanda adapter with new dll's					Deltares
FEWS-18247	Module Adapter - All	FEWS-16663 Quebec Hydrotel Adapter	Created pre and post adapter for Hydrotel model				https://publicwiki.deltares.nl/pages/viewpage.action?pageId=132449418
FEWS-17003	Module Adapter - Calibration	FEWS-16887 NWS: #34172 (b) CNPS Calibration: MapLayers CSV Compatibility for model parameters	Modified location attribute parameters can be visualized in the tabular config file display	Modified location attribute parameters can be visualized in the tabular config file display. Marking the "Show modified values" checkbox will show the changed values and highlight the background in blue. The modified values can be exported to CSV>			NWS
FEWS-17504	Plugin - Gui - Forecast Manager	Forecast management dialog: add extra column with runtime of workflow					Nationaal Water Model
FEWS-17883	Plugin - Gui - Grid Display	FEWS-17145 GridDisplay -Mask (or erase) coarse model results in areas with detailed model results		<pre>[code xml] <!--locationSet id="wave_EAM_clipper.php" xmlns:mapFiles="http://www.wanda.nl/MapFiles" file="wave_EAM_clipper.php/file" --><!--waveEAM:wave</id> --></code> <!--locationSet --></code> <!--remove the EAM.Wave from the locationSet --></code></pre>			
FEWS-16905	Plugin - Gui - Grid Display	FEWS-16887 NWS: #24896 Spatial Display time-slider snapped to moving accumulation time step			<pre>[code xml] <!--dataLayer> <!--accumulationTimeStep unit="minute" multiplier="30"/> <!--accumulationTimeStep unit="hour" multiplier="1"/> <!--accumulationTimeStep unit="hour" multiplier="3" timeZone="CST"/> <!--accumulationTimeStep unit="hour" multiplier="6" timeZone="CST"/> <!--accumulationTimeStep unit="12h"/> </code></pre>		NWS
FEWS-17462	Plugin - Gui - Grid Display	Show time series set locations instead of related in spatial display					FEWS Sava
FEWS-17149	Plugin - Gui - Grid Display	Functionality to show a fixed logo at grid product, like EUMETSAT H-SAF	The image file should be placed in the MaplayerFiles directory		<pre>[code xml] <!--id="precipitation"> <!--timeSeriesSet> <!--moduleInstanceId>Wpwr_WRF</moduleInstanceId> <!--instanceId>Wpwr_WRF</instanceId> <!--parameterId>20</parameterId> <!--locationId>Wpwr_WRF</locationId> <!--locationId>Wpwr_WRF</locationId> <!--timeSeriesType>external forecastlog</timeSeriesType> <!--timeStep unit="hour"/> <!--relativeViewPeriod unit="day" start="0" end="10"/> <!--timeSeriesRead only/readWriteMode> </timeSeriesSet> </code> <!--mapFiles:logo.png</imageFile> </code> <!--classBreakId>Precipitation_1hr</classBreakId> <!--contourLineStyleColorgray</contourLineStyleColor> </code></pre>	https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display	FEWS Sava

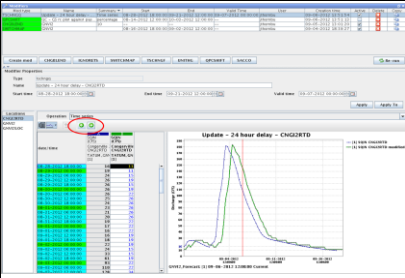
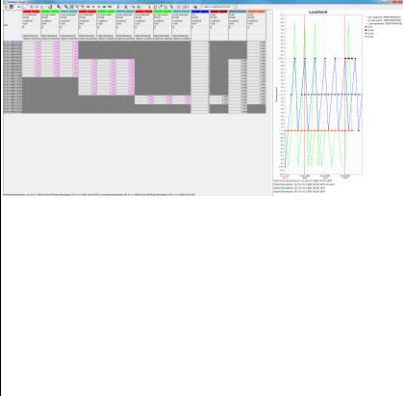
JIRA Delft-FEWS 2017.02 New Features

FEWS-12862	Plugin - Gui - Time Series	Button "Return to default"	Explorer File menu option "Reload default user settings"	<p>The user may modify the preferences in the OC GUI. For example changing colors or switching TimeSeriesDisplay toolbar buttons on/off. These preferences are stored in user_settings.ini.</p> <p>File menu option "Reload default user settings" restarts FEWS with the default settings again. The previously entered user preferences are removed.</p>			RWS
FEWS-15230	Plugin - Gui - Time Series	Add option to use identical vertical scales in timeseries viewer in 'multi-panel' mode	Added option to use identical vertical scales in graphs	<p>The time series display already contained the option "Toggle graph" to display each time series in a separate graph. A second option "Toggle graph with equal scaling" was added. When this button is used, time series which were shown in the same graph originally, will use the same scale on the y-axis.</p>			Office of Public Works, Ireland
FEWS-12926	Plugin - Gui - Time Series	Add configuration option for whitespace between subplots	Add configuration option for whitespace between subplots	<p>The subplot element in displayGroups.xml now has an element <plotSeparatorWeight> (in addition to the <plotWeight>-element) which controls the amount of whitespace above the subplot. For example, if two subplots are configured and the first subplot, second subplot and separator of the second subplot are all given equal weight, each will occupy 1/3 of the screen.</p>			RWS Delfland
FEWS-16223	Plugin - Gui - Time Series Modifier, System - Workflow	FEWS-18222 HyFS: Dynamic selection of catchments	Workflow activity option "enabled"	<p>If the option "enabled" is present and the location attribute, specified with attributeId, has value FALSE, then the activity will be excluded from the workflow run.</p> <p>AttributeId should refer to the boolean attribute.</p> <p>To change interactively the attribute value, use location attribute modifier.</p>	<pre> <!-- Example from workflow.xml --> <code> <activity> <properties> <string key="CATCHMENT" value="gouiburn"/> </properties> <enabled locationId="hubter_gouiburn" attributeId="INCLUDE_IN_WORKFLOW"/> <runIndependent>true</runIndependent> <moduleInstanceId>gouiburn_Rainfall_Multi_Scan_Forecast/moduleInstance id</moduleInstanceId> <moduleConfigFile>Name=Rainfall_In_Multi_Scan_Forecast/moduleConfigP ileName</moduleConfigFile> </activity> </code> </pre>		BoM
FEWS-16937	Plugin - Gui - Time Series Modifier	FEWS-16887 NWS: #23388 Order of available time series types in the Create mod menu's sub-menu should be configurable	The order of the parameters in the submenu of the "create modifier"-button dropdownlist is now configurable	<p>When a time series modifier can be applied to multiple parameters the parameter can be selected from a sub menu in the drop down list of the "create modifier"-button. The parameters are sorted alphabetically. It is now possible to configure the order of the parameters in the modifierDisplayConfig.xml</p>	<pre> <!-- DropDownMenuDisplayOrder --> <modifier id="catchup"/> <modifier id="washbg"/> <parameterId>QZSR</parameterId> <parameterId>STC</parameterId> </modifier> </DropDownMenuDisplayOrder> </pre>		NWS
FEWS-16902	Plugin - Gui - Time Series Modifier	FEWS-16887 NWS: #23387 Order of mods in drop-down menu should be configurable	Order of the modifiers in the drop down list of the "create modifier" button is now configurable	<p>By default the list of modifiers in the drop down menu of the "create modifier" button are sorted alphabetically. It is now possible to configure this order in the modifierDisplay.xml. It is not necessary to configure the order for all modifiers. These modifiers will be added to the list alphabetically.</p>	<pre> <!-- DropDownMenuDisplayOrder --> <modifier id="washbg"/> <modifier id="washd"/> </DropDownMenuDisplayOrder> </pre>		NWS

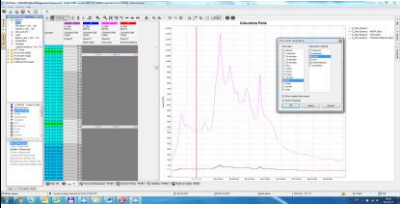
JIRA Delft-FEWS 2017.02 New Features

FEWS-16531	Plugin - Module - Data Import	FEWS-16464 FOEN: Update SHD parser with new locationID mapping				https://publicwiki.deltares.nl/display/FEWSDOC/SHD+Csv+HydroData	FOEN
FEWS-17092	Plugin - Module - Data Import	FEWS-14337 ncd4 import for NOAA GPM radar data					BMT-WBM
FEWS-17584	Plugin - Module - Data Import	FEWS-17202 Import user information from database table		<pre> <code> <table> <thead> <tr> <th>Date</th> <th>Time</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>05-09-2017</td> <td>16:40</td> <td>1,080</td> </tr> <tr> <td>05-09-2017</td> <td>16:50</td> <td>1,030</td> </tr> <tr> <td>05-09-2017</td> <td>17:00</td> <td>1,010</td> </tr> <tr> <td>05-09-2017</td> <td>17:10</td> <td>0,960</td> </tr> <tr> <td>05-09-2017</td> <td>17:20</td> <td>0,930</td> </tr> <tr> <td>05-09-2017</td> <td>17:30</td> <td>0,910</td> </tr> <tr> <td>05-09-2017</td> <td>17:40</td> <td>0,880</td> </tr> </tbody> </table> </code> </pre>		https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv+userColumn	APP
FEWS-17802	Plugin - Module - Data Import	API Import TAHMO	import TAHMO	Added a new import type TAHMO.		https://publicwiki.deltares.nl/display/FEWSDOC/TAHMO+import	Tanzania
FEWS-17484	Plugin - Module - Data Import	FEWS-17202 New import type: In-Situ Rugged Troll	Timeseries import supports gotoLineWhichStartsWith option to skip lines until configured starts with string is found	Timeseries import supports gotoLineWhichStartsWith option to skip lines until configured starts with string is found. Useful in case the start of CSV headers is variable.		https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv+ExamplegotoLineWhichStartsWith(Since2016-02)	APP
FEWS-16532	Plugin - Module - Data Import	FEWS-17445 Add fileNameObservationDateTimePattern to NETCDF-CE_GRID import from OpenDAP	TimeSeriesImport from OpenDAP can use fileNameObservationDatePattern	When OpenDAP NC datasets does not contain any event time, and the date and time are available in the Url, then fileNameObservationDateTimePattern can be used to obtain date and time from this Url. Symbol ? can be used if the part of Url is variable, however the number of ? must match the actual number of characters in the Url. This is useful if the configured URL is a catalog. Please note that catalog should be a XML document.	<pre> <code> <table> <thead> <tr> <th>Date</th> <th>Time</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>05-09-2017</td> <td>16:40</td> <td>1,080</td> </tr> <tr> <td>05-09-2017</td> <td>16:50</td> <td>1,030</td> </tr> <tr> <td>05-09-2017</td> <td>17:00</td> <td>1,010</td> </tr> <tr> <td>05-09-2017</td> <td>17:10</td> <td>0,960</td> </tr> <tr> <td>05-09-2017</td> <td>17:20</td> <td>0,930</td> </tr> <tr> <td>05-09-2017</td> <td>17:30</td> <td>0,910</td> </tr> <tr> <td>05-09-2017</td> <td>17:40</td> <td>0,880</td> </tr> </tbody> </table> </code> </pre>		
FEWS-16898	Plugin - Module - Data Import	FEWS-16887 NWS: #32624 Enhancement request for updates to SHEF imports	SHEF import supports multiparameter lines and continuations	The SHEF import now has support for multiple parameters on one line using the A code. The continuations (A1, A2 etc.) are supported as well.		https://publicwiki.deltares.nl/display/FEWSDOC/SHEF+Standard+Hydro+meteorological+Exchange+Format	NWS
FEWS-17865	Plugin - Module - Data Import	Import for FEWS Bolivia	SENAMHI import	A new SENAMHI import module was added to FEWS.		https://publicwiki.deltares.nl/display/FEWSDOC/SENAMHI+import	SENAMHI
FEWS-16857	Plugin - Module - Data Import	Import json CovAdem data via http GET	New import (COVADDEM) is available in FEWS.	The covadem webservice provides measurements of the water depth by ships. A new data import is available in FEWS to consume this data. The import is available with the tag "Covadem".			RWS
FEWS-18212	Plugin - Module - Data Import	FEWS-17145 NetCDF irregular grid import - Automate geometry detection	NetCDF irregular grid import - Automate geometry detection for temporary time series	The existing NETCDF-CE_GRID import was expanded. When the time series being imported has a timeSeriesType set to "temporary" or "temporary external forecast", the import no longer requires the grid to be configured in the grids.xml, but can automatically detect the grid geometry instead. The irregular grid geometry will be stored along with the imported data, to be used later (within the same workflow). This is currently only available for grids that do not have z-values / z-layers.		https://publicwiki.deltares.nl/display/FEWSDOC/NETCDF+CE_GRID	
FEWS-16899	Plugin - Module - Data Import	FEWS-16887 NWS: #23704 Import reservoir storage curves to allow display capabilities similar to rating curves	LookupTables	Storage curves and any other curves can be stored in region config file LookupTables.xml, according to the pi_tables format. Similar to the rating curves, the LookupTable curves can be displayed in TSD and can be used to create the right axis in the plots. ConfigExampleLookupTables.zip contains very simple example configuration with imaginary data, to demonstrate the functionality (import scalar series first, see ImportBackup/scalar). The lookup tables can be referenced using domain parameter id, Parameter id, optionally qualifier id's and optionally location id. An example from DisplayGroups: <pre> <code> <table> <thead> <tr> <th>Date</th> <th>Time</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>05-09-2017</td> <td>16:40</td> <td>1,080</td> </tr> <tr> <td>05-09-2017</td> <td>16:50</td> <td>1,030</td> </tr> <tr> <td>05-09-2017</td> <td>17:00</td> <td>1,010</td> </tr> <tr> <td>05-09-2017</td> <td>17:10</td> <td>0,960</td> </tr> <tr> <td>05-09-2017</td> <td>17:20</td> <td>0,930</td> </tr> <tr> <td>05-09-2017</td> <td>17:30</td> <td>0,910</td> </tr> <tr> <td>05-09-2017</td> <td>17:40</td> <td>0,880</td> </tr> </tbody> </table> </code> </pre>			NWS

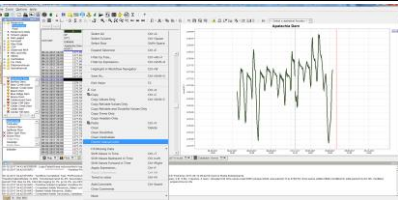
<p>FEWS-12411</p>	<p>Plugin - Module - General Adapter</p>	<p>Import loop over directories while import ensemble results depends using GA</p>	<p>Added unit tests and a clear description with config examples (also on WIKI) for an OpenDA ensemble member import</p>	<p>Added unit tests and a clear description with config examples (also on WIKI) for an OpenDA ensemble member import</p>	<pre> In the workflow file specify the ensemble and index range to loop over: <code>xml <workflow version="1.1" xmlns="http://www.wildelf.nl/fewa" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wildelf.nl/fewa http://fewa.wildelf.nl/schema/version1.0/workflow.xsd"> <activity> <moduleInstanceid>importOpenDAEnsemble</moduleInstanceid> <ensembleid> <ensembleid>ENSEM</ensembleid> <ensembleMemberIndexRange start="0" end="64"/> </ensembleid> </activity> </workflow> </code> ModuleConfigFile.xml should contain the RESOURCES_MEMBER_ID tag in either the <importDir> or <importFile> (in <importMethodActivity>). Do not specify the ensemble member. This only works for the importMethodActivity. Other activities that do not contain the RESOURCES_MEMBER_ID tag will only be executed once. <code>xml <?xml version="1.0" encoding="UTF-8"?> <generalAdapter xmlns="http://www.wildelf.nl/fewa" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wildelf.nl/fewa http://fewa.wildelf.nl/schema/version1.0/generalAdapter.xsd"> <general> <description>Test run for nautboom/description> <exportDir>..../modules/fewa/src/test/java/nl/wildelf/fewa/system/plugin/ generalAdapter/testDir <workDir>..../ROOT_DIR/workDir <exportDir>..../ROOT_DIR/exportDir</exportDir> </general> </code> </pre>	<p>https://publicwiki.deltare.nl/display/FEWSDOC/25-Ge+neral+Adapter+Module+id+General+Adapter+Module+id+Combined+with+workflow+ensemble+loop</p>	<p>GLOFFS</p>
<p>FEWS-12297</p>	<p>Plugin - Module - Modifiers (ModuleParameters)</p>	<p>create location specific drop-down enumeration in location attribute modifier using fixed boolean attributes</p>	<p>define location specific options in drop down list by using attributes</p>	<p>Attributes can be modified by using location attribute modifiers. By default the attributes can be changed by using a text box. It is also possible to use a drop down list. The content of this drop down list can be controlled by using an multi value attribute.</p>	<pre> <code>xml <?xml id="SWP"> <location> <locationControlOptionAttributeid>SWP_OPTION0</locationControlOptionAttributeid> </location> </code> <code>xml <?xml id="SWP"> <location> <locationControlOptionAttributeid>SWP_OPTION0</locationControlOptionAttributeid> <locationControlOptionAttributeid>SWP_OPTION1</locationControlOptionAttributeid> </location> </code> </pre>		<p>SAVA</p>
<p>FEWS-16912</p>	<p>Plugin - Module - Modifiers (ModuleParameters)</p>	<p>FEWS-16887 NWS: #25022 incorrect BASEFLOW and UNTHG modifier interaction</p>	<p>Combine multiple module parameter modifiers</p>	<p>The unithg modifiers and baseflow modifier are both module parameter modifiers which both apply changes to the same module parameter file. It is now possible to apply multiple module parameter modifiers to the same module parameter file. This means that it is now possible to apply a unithg and baseflow mod to the same module parameter file at the same time.</p>			<p>NWS</p>
<p>FEWS-12561</p>	<p>Plugin - Module - Modifiers (ModuleParameters)</p>	<p>FEWS-16887 NWS: #34172 (a) CHPS Calibration: add attributeModifier capability for snow17, sacmsa, lqk parameter calibrations</p>	<p>Calibration modifiers can now be used in combination with csv files</p>	<p>It is possible to use attributes in the general adapter parameter export. It was not possible yet to combine this feature with the calibration modifiers (multiple model modifiers). This is now possible.</p>			<p>NWS</p>

FEWS-16900	Plugin - Module - Modifiers (TimeSeries)	FEWS-16887 NWS: #24038 Add shift arrows for UNITHG mod	UNITHG modifier : shift arrows to shift the unit hydrograph ordinate values	<p>The unit hydrograph ordinate values can be shift forward or backward using the forward or backward arrows. Times in fields "Start time", "End time" and "Valid time" are shifted accordingly. To shift the values, also a context menus "Shift Values forward in Time (Ctrl Right)" and "Shift Values backward in Time (Ctrl Left)" can be used.</p> <p>An example is shown in the picture UnithG_shiftButtons.png</p>			NWS
FEWS-10848	Plugin - Module - Performance Indicators	FEWS-10851 Performance Indicators: Store all individual indicator values in separate time series	leadTimeAccuracyIndicator - new options to store intermediate indicator values and forecast and observed values, that have been used for the analysis, in the output time series arrays	<p>To create the new output time series, use the following options:</p> <ul style="list-style-type: none"> -intermediateValuesVariableId to create time series with intermediate indicator values -analysedCalculatedVariableId to create time series with exact those forecast values, that have been used for the analysis -analysedObservedVariableId to create time series with exact those observed values, that have been used for the analysis <p>Config example is available in PerformanceIndicator.xml</p> <p>The new time series are created for each input forecast. For example, if 3 input forecast are used, then also 3 time series with intermediateValues are created.</p> <p>To be able to create multiple simulated forecasts using the same TimeSeriesSet, the ensembles are used. Values associated with a particular forecast are stored using an ensemble member id and this member id equals to the forecast time of that forecast.</p> <p>An example: Picture LeadTimePerformanceIndicatorResults.png shows the results of the computation that has been done with the configuration example PerformanceIndicator.xml This example uses observed series (Q.m) and 3 input forecasts (Q.sim). For each input forecast the following series are created : -intermediate values (Q.mse.interim), forecast values used in the analysis (Q.sim.analysed) and observed values used in the analysis (Q.m.analysed).</p>			NWS
FEWS-10847	Plugin - Module - Performance Indicators	FEWS-10851 Performance Indicator: Set the <forecastSelectionPeriod> manually in the FEWS Client	Performance Indicators: manually setting of the forecastSelectionPeriod and changing of the relativeViewPeriod	<p>*Manually setting of the forecastSelectionPeriod*</p> <p>With forecastSelectionPeriod the user defines how much of the forecasts or hindcast should be analysed. The configured forecastSelectionPeriod can be changed manually in the ManualForecastDialog or in the RunOptions of the IFD Forecasts, by selecting a certain cold state or warm state. The configured forecastSelectionPeriod should have the attributes startOverrullable and/or endOverrullable, to specify that the changing of the forecastSelectionPeriod is allowed.</p> <p>The user selects Cold state if only the start of the forecastSelectionPeriod should be amended. Then the cold state start time is used as start of the forecastSelectionPeriod. ForecastSelectionPeriod should have an overrullabel start:</p> <pre>(code.xml) <forecastSelectionPeriod units="day" start="10" end="0" startOverrullable="true"/> (code)</pre> <p>The user selects Warm state if the start and also the end of the forecastSelectionPeriod should be amended. The warm state start time is used as start of the forecastSelectionPeriod, the warm state end time is used as the end of the forecastSelectionPeriod. ForecastSelectionPeriod should have an overrullabel start and end:</p> <pre>(code.xml) <forecastSelectionPeriod units="day" start="3" end="0" startOverrullable="true" endOverrullable="true"/> (code)</pre> <p>*Manually setting of the relativeViewPeriod of the</p>			NWS

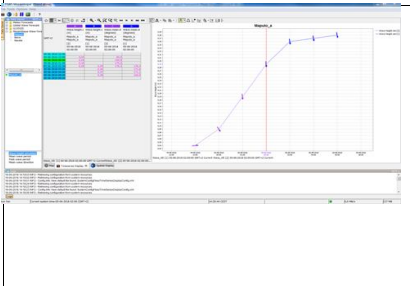
FEWS-10846	Plugin - Module - Performance Indicators	FEWS-10851 Performance Indicator: store number of analyzed samples in separate TimeSeries	Performance Indicators module : leadTimeAccuracyIndicator optionally stores number of analyzed samples in separate time series	leadTimeAccuracyIndicator optionally stores number of analyzed samples in separate time series. The number of samples can be stored in a single time series or in time series per lead time period. In single time series the number of samples is stored at TO + end of the lead time periods. Otherwise the number of samples is stored at TO in time series per lead time period.	<pre> The number of samples is stored in single time series, referenced with sampleOutputVariableId 'sampleOutput' [code xml] <leadTimeAccuracyIndicator indicatorType="meanSquareError" calculatedVariableId="calculated" observedVariableId="observed" outputVariableId="output" sampleOutputVariableId="sampleOutput"/> </leadTimeAccuracyIndicator> [code] <leadTimePeriods units="hour"> <leadTimePeriod start="0" end="1" outputVariableId="output"/> <leadTimePeriod start="0" end="4" outputVariableId="output"/> </leadTimePeriods> </leadTimeAccuracyIndicator> [code] The number of samples is also stored in time series per lead time period: [code xml] <leadTimeAccuracyIndicator indicatorType="meanSquareError" calculatedVariableId="calculated" observedVariableId="observed" outputVariableId="output" sampleOutputVariableId="sampleOutput"/> </leadTimeAccuracyIndicator> [code] <leadTimePeriods units="hour"> <leadTimePeriod start="0" end="1" outputVariableId="output1" sampleOutputVariableId="sample1"/> <leadTimePeriod start="0" end="4" outputVariableId="output4" sampleOutputVariableId="sample4"/> <leadTimePeriod start="0" end="6" outputVariableId="output6" sampleOutputVariableId="sample6"/> </leadTimePeriods> </leadTimeAccuracyIndicator> [code] </pre>		RWS
FEWS-12534	Plugin - Module - Reports	Use scadaPanel defined in scadaDisplay for reports and other scadaDisplays	SchematicStatus display : scadaPanels , configured in one SchematicStatus display, can be included in other SchematicStatus displays or in reports	Use option scadaPanelId to include scadaPanels , configured in other SchematicStatus displays, in a particular SchematicStatus display or in a particular report. In SchematicStatus display both scadaPanel and scadaPanelId can be mixed. When we use scadaPanelId, then also the numberFormat(s), dateFormat(s) and variables that are configured in the referred SchematicStatus display are used. The formats and variables from the referred SchematicStatus display can be overruled by configuring the same IDs but with a different content in the display with scadaPanelId When using scadaPanelId, then all scadaPanels should have an unique id. If there are any duplicates, then the first scadaPanel found is used.	<pre> <<scadaDisplay.xml > [code xml] <scadaDisplay xmlns="http://www.wildelf.nl/fews" xmlns:xsi="http://www.wildelf.nl/fews" xsi:schemaLocation="http://www.wildelf.nl/fews http://www.wildelf.nl/fews/version/0/scadaDisplay.xsd"> <displayName>SCADA Composite Displays Menu</displayName> <showTimeNavigatorToolbars> <timeNavigatorRelativePeriod units="day" start="-1" end="0"/> <timeNavigatorTimeStep units="hour"/> <showTimeNavigatorToolbars> <backgroundColour>#cccccccc</backgroundColour> <scadaPanelId>scadaPanel1</scadaPanelId> <scadaPanelId>scadaPanel2</scadaPanelId> </scadaDisplay> [code] Example from Reports.xml: [code xml] <SchematicStatusDisplayPanelInnaphotofor> <variable> <variableId>0</variableId> <timeSeries> <moduleInstanceId>report</moduleInstanceId> <locationId>0</locationId> <parameterId>0</parameterId> <locationId>0</locationId> <locationId>0</locationId> <locationId>0</locationId> <locationId>0</locationId> <locationId>0</locationId> </timeSeries> </variable> </SchematicStatusDisplayPanelInnaphotofor> </pre>		RWP
FEWS-12202	Plugin - Module - Reports	FEWS-12202 extend functionality rowperlocationHtmlTable	Reports/Scada template function improvements	<p>*VALUECOUNT(type: variable id)* This function counts the number of values in the time series. The argument 'type' specifies the value type that should be counted. Supported types are ALL, MISSING, COMPLETED, CORRECTED, RELIABLE, UNRELIABLE, DOUBTFUL Usage in Reports : VALUECOUNT(COMPLETED:Hmeasured) Usage in Scada : VALUECOUNT(COMPLETED)</p> <p>*THRESHOLDCROSSINGCOUNT*(level threshold id; variable id) This function counts the number of time steps in which the level thresholds have been crossed. If a specific level threshold id is configured, then only the crossings for this threshold id are counted. Usage in Reports : THRESHOLDCROSSINGCOUNT(Hmeasured), THRESHOLDCROSSINGCOUNT(Level_A:Hmeasured) Usage in Scada : THRESHOLDCROSSINGCOUNT(), THRESHOLDCROSSINGCOUNT(Hmeasured)</p> <p>Option *IgnoreMissings in STATISTICS* function Use IgnoreMissings if the missing values should be ignored while evaluating of the statistics function. By default the statistics are not computed if the time series has one or more missing values. Usage in Reports : STATISTICS(MEAN:IgnoreMissings;K:numberFormat1) Usage in Scada : STATISTICS(MEAN:IgnoreMissings:numberFormat1)</p>	<pre> <scaphot id="Scada"> </pre>		APP

FEWS-12963	Plugin - Module - Reports	FEWS-16663 Quebec: new report tag for user id who generated a certain workflow	Report tag WORKFLOW[key; workflow id; format id]	<p>This function provides properties of the most recent run of the workflow configured with workflow id. The key specifies the required run property. Format id is optional and if specified it represents date format.</p> <p>The following keys are supported: USERID: user id MCID: MasterController id FSSID: Forecasting shell id DESCRIPTION: description of the forecast TIMEZERO: time0 DISPATCH_TIME: dispatch time COMPLETION_TIME: completion time RUNTIME: duration of the forecast run OUTPUT_TIME_SPAN: time span of the forecast</p> <p>Examples: WORKFLOW(USERID: ImportExternalForecast) WORKFLOW(COMPLETION_TIME: ImportExternalForecast; dateFormat) Where ImportExternalForecast is a workflow id</p>			Quebec
FEWS-16078	Plugin - Module - Statistics	FEWS-16132 F889 TF542046: Daily Aggregation Button does not appear to aggregate according to the parameter type	The CalendarAggregationFunction has now the option to accumulate according to parameter type: SUM (accumulative), MEAN (mean) or LAST_VALUE (instantaneous)	<p>The CalendarAggregationFunction has now the option to accumulate according to parameter type: SUM (accumulative), MEAN (mean) or LAST_VALUE (instantaneous)</p>	<pre>[code xml] <quickViewStatisticalFunction Function="calendarAggregation" <parameterName="true" aggregateByParameterType="true"> <timeStep id="daily00"/> <iconName=daily0.png/iconName> <label=daily0/label> <toolTipAggregate=daily0/toolTip> <eventSourceId=all/forecastSource> </quickViewStatisticalFunction> <quickViewStatisticalFunction Function="calendarAggregation" <parameterName="true" aggregateByParameterType="true"> <timeStep id="weekly00"/> <iconName=weekly0.png/iconName> <label=weekly0/label> <toolTipAggregate=weekly0/toolTip> <eventSourceId=all/forecastSource> </quickViewStatisticalFunction> [/code]</pre>		BPA
FEWS-16086	Plugin - Module - Thresholds	FEWS-16315 HyFS-alerts: Improve logging of threshold crossing	More information in threshold crossing logs + improved logging of action events	<p>Added threshold values and rate timespan to logs Added the possibility to add location attributes to the threshold logs. Per ThresholdValueSet it is possible to configure which locationAttributeKeys to include in the messages. Added option to be able to stand down each location separately by configuring the 'standDownIndividualLocations' option Added option 'graceTime' to control how frequently (rainfall) rate thresholds are issued per location.</p>	<pre>[code xml] <thresholdValueSet id="GraceTime" name="ROC Observed water levels"> <description>Grace time of change threshold value should be specified according to the element "value"/> <standDownIndividualLocations>true</standDownIndividualLocations> <locationAttributeKeys> <attributeKey>rate</attributeKey> <attributeKey>rateIn</attributeKey> </locationAttributeKeys> <graceTime unit="hour" multiplier="1" /> <rateThreshold> <rateThresholdId>EnhanceRate</rateThresholdId> <rateThresholdValue> <upActionLogEventTypeId>Action.RateEnhanced</upActionLogEventTypeId> <downEventTypeId>Action.RateStandDown</downEventTypeId> <timeSpan unit="hour"/> </rateThresholdValue> </rateThreshold> <rateThreshold> <rateThresholdId>EnhanceRateIn</rateThresholdId> <rateThresholdValue> <upActionLogEventTypeId>Action.RateEnhancedIn</upActionLogEventTypeId> <downEventTypeId>Action.RateStandDownIn</downEventTypeId> <timeSpan unit="hour"/> </rateThresholdValue> </rateThreshold> </thresholdValueSet> <thresholdValueSet id="DataThreshold"/> <valueType>rate</valueType> <parameterId>0</parameterId> <locationSetId>LocationSetAttribute</locationSetId> <timeSeriesType>externalHistorical</timeSeriesType> <timeStep unit="minute" multiplier="15"/> <relativeViewPeriod unit="hour" start="0" end="12"/> <standDownThreshold onlyReadWriteMode> </timeSeriesSet> </thresholdValueSet> [/code]</pre>		BoM (Aus)

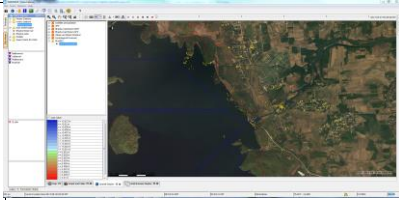
JIRA Delft-FEWS 2017.02 New Features

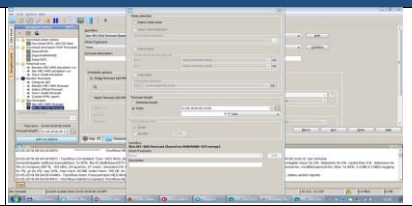
FEWS-12132	Plugin - Module - Transformation	FEWS-17266 TVA: Edited data not overwritten in transformations, temporary flag	Preserve manual edits in transformation and clear manual edits from dataviewer	A new configuration has been added to the transformationModule to allow preserving manual edits. By default manual edits were overwritten. It's now also possible to clear manual edits from the TimeSeriesDialog dataviewer.	<pre>[code] <transformationModule xmlns="http://www.widelft.nl/fews" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xmlns:local="http://www.widelft.nl/fews" http://www.widelft.nl/fews/version/1.0/transformationModule.xsd" version="1.0"> <preserveManualEdits>false</preserveManualEdits> [/code]</pre>		https://publicwiki.deltares.nl/display/FEWSDOC/20+TransformationModule+Improved+Schema+Manual+Edits	TVA
FEWS-16869	Plugin - Module - Transformation	New transformation: copy a (2D) data from an arbitrary time level in the past to a time series over a relative view period	New sample transformation SampleSingleTimeStep	A new sample transformation is available for copying the values of a time series with a single time step to all of the time steps in the new period of another time series. The transformation can be used for scalar and grids.	<pre>A config example is available in the documentation https://publicwiki.deltares.nl/display/FEWSDOC/ExampleSingleTimeStep</pre>		https://publicwiki.deltares.nl/display/FEWSDOC/ExampleSingleTimeStep	RWS (NL)
FEWS-16034	Plugin - Module - Transformation	FEWS-17266 TVA: ability to use Pi-tables (1D scalar map series) as lookup tables in transformations.	It is now possible to use LookupTables.xml from RegionConfig in the simple and twoDimensional lookup transformations by referencing with locationId, inputParameterId and outputParameterId.	It is now possible to use LookupTables.xml from RegionConfig in the simple and twoDimensional lookup transformations by referencing with locationId, inputParameterId and outputParameterId.	<pre><<simpleLookup based on 1 input value https://publicwiki.deltares.nl/display/FEWSDOC/SimpleSimpleLookupUsingLookupTables.xmlFromRegionConfigFile [/code] <code> <?xml version="1.0" encoding="UTF-8"> <transformationModule version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.widelft.nl/fews" xmlns:local="http://www.widelft.nl/fews" http://www.widelft.nl/fews/version/1.0/transformationModule.xsd" version="1.0"> <variable> <variableId>oneVar1</variableId> <locationId> <moduleInstance>SimpleLookupFromPiTableTest</moduleInstanceId> <locationType>oneVar1</locationType> <parameterId>one</parameterId> <locationId>2002</locationId> <locationType>oneVar1</locationType> <timeStep unit="nonequidistant"/> <relativeViewPeriod unit="day" start="1" end="6"/> <readWriteMode>add </original/> </timeSeriesSet> </variable> <variable> <variableId>oneVar2</variableId> <locationId> <moduleInstance>SimpleLookupFromPiTableTest</moduleInstanceId> <locationType>oneVar1</locationType> <parameterId>one</parameterId> <locationId>2002</locationId> <locationType>oneVar1</locationType> <timeStep unit="nonequidistant"/> <relativeViewPeriod unit="day" start="1" end="6"/> <readWriteMode>add </original/> </timeSeriesSet> </variable> </transformationModule> </code> </pre> </pre>		https://publicwiki.deltares.nl/display/FEWSDOC/ExampleDimensionalLookupUsingLookupTables.xmlFromRegionConfigFile	TVA
FEWS-18102	Plugin - Module - Transformation	Covidem: spatial interpolation van p-de percentiel bodemligging tracklayers in view period naar output polygons	A new interpolation transformation "trackToGrid" was added.	The new transformation produces a grid time series from a track. The coordinates of the track are used to see which grid cell a track value corresponds to, the value is then linked to the closest time for this grid cell. To obtain the output values, either the minimum of the maximum of all track values corresponding to a grid cell and output time combination is used. Optionally, a minimum number of track values and a percentile range can be provided.			https://publicwiki.deltares.nl/display/FEWSDOC/Transformation+InterpolationSerial+TrackToGrid	Covidem
FEWS-18101	Plugin - Module - Transformation	Covidem: interpolate tijd en plaats van grid of profile tijdsree naar bestaand track layer tijdsree	A new interpolation transformation "longitudinalProfileToTrack" was added.	The new transformation produces values for a track using closest distance interpolation. It takes three time series as input: the longitudinal profile, track latitude and track longitude and produces a single scalar time series as output, which can be used as track values. See the wiki for more information.			https://publicwiki.deltares.nl/display/FEWSDOC/Transformation+InterpolationSerial+LongitudinalProfileToTrack	Covidem
FEWS-12153	System	FEWS-16767 Replace JMS messages between MC and MC Proxy with entry in ForecastingSheets table						Deltares - Roadmaps
FEWS-12152	System	FEWS-16767 Create overview of all places where and which JMS messages are sent						Deltares - Roadmaps
FEWS-17356	Database - System	FEWS-16767 Create Delft SQL jar						Deltares - Roadmaps
FEWS-12386	System	FEWS-16132 adjust install/update scripts to delete local caches/ids from all clients inc SR						BPA
FEWS-17744	System	Improve fews.sh script on LINUX to interpret memory settings from *m.ini	fews.sh script improved	De Linux fews.sh script now by default has 1024Mbyte op max heap space.			https://publicwiki.deltares.nl/display/FEWSDOC/2+Linux+changeFEWS	Deltares
FEWS-18149	System	Merge configured truststore with JDK default truststore	client.truststore will be merged with default JDK truststore	When a client truststore is configured, only the public certificates in that store were trusted. If no keystore is configured, all public certificates in the JDK are used to keep track of trusted servers. This resulted for example in failure of https imports that used to work when no truststore was configured if the import used a secure connection for which the root certificate was in the trusted JDK store. With this change the root certificates of the JDK will be merged with the ones configured in the custom truststore.				Deltares

FEWS-16618	System - PI Service	FEWS-15083 Simplify installation and system administration		Simplification and alignment of FEWS Webservices has been completed: <ul style="list-style-type: none"> • Integrated all the different implementations of the pi-webservice into a single war-file, • Integrate the DAC.jar into this war-file, • Remove requirement to change Tomcat configurations • Removed requirement to add libraries to Tomcat lib dir, • Made it possible to start and debug a pi-webservice from the IntelliJ (FEWS development environment) 			https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-Web-Service	Deltares
FEWS-18371	System - PI Service	FEWS-15083 PI locations xsd should support location attributes for pi services.	location attributes added to PI service	Location attributes are now available in the PI service.: https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-REST-Web-Service Passing the showAttributes=true parameter to the locations resource, will generate the locations attributes. <pre>(code) curl "http://localhost:8080/FEWSWebServices/rest/fewservice/v1/locations?showAttributes=true&documentVersion=1.24" (code)</pre>				
FEWS-16975	System - PI Service	Add status page to PI webservice	The pi webservice (REST) has now a small status page to facilitate debugging	The pi webservice (REST) has a small status page (status.jsp) which can be used to get some basic information about the webservice. The page provides info about the memory usages and several basic configuration options.				Deltares - Roadmaps
FEWS-16619	System - PI Service	FEWS-15083 Improve testability	Testability of FEWS Web Services improved.	FEWS test pages have been improved and made available for both PI-SOAP and PI-REST services. Unit testing of the FEWS Web Services has been improved. On the public Wiki examples are given on how to test the REST service using the curl command line.			https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-XML+REST-service	Deltares - Roadmaps
FEWS-17639	System - PI Service	FEWS-15083 Align functionality of PI Webservice SOAP with PI Webservice REST	PI Webservice REST service has been aligned with SOAP service	All functionality available in the PI Webservice SOAP is now also available in the PI Webservice REST API. One exception is the support of POSTING binary timeseries to the REST service.			https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-XML+REST-service	Deltares - Roadmaps
FEWS-17053	System - PI Service	FEWS-16132 Update the PI-Service so that it will Import Modifiers	Import modifiers added to the pi-webservice	The pi-webservice is extended with a service which can be used to upload modifiers.			https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-XML+REST+service	BPA
FEWS-16901	System - PI Service	FEWS-16887 NWS-#24580 Supply PI-service port numbers to FEWS plug-ins	Additional consumer interface added to the Open API	It is now possible for custom plugins to obtain the port number at which the pi webservice was started by implementing an interface. If a plugin implements the following interface: <pre>public interface EmbeddedPIServerPortConsumer { void setPortNumber(int portNumber); }</pre> The port number will be provided to the plugin by invoking the implementation of the method setPortNumber.				NWS
FEWS-17070	System - PI Service	Retrieve manual edits from PIService	Added argument to getManualEdits that allows client to retrieve only manual edits	For the method getTimeSeries it is now possible to pass the argument 'onlyManualEdits'. When used in combination with the arguments startCreationTime and endCreationTime it is possible to return all manual edited values from FEWS.				Sava
FEWS-17801	System - Session	FEWS-16767 Remove usage of Session classes from OC	Obsolete session classes removed. Session has been simplified to 1 row in the database with a unique id.	Obsolete session classes removed. Session has been simplified to 1 row in the database with a unique id.				Deltares - Roadmaps
FEWS-16646	System - Synchronisation	FEWS-16767 DataClientConfig.xml jms configuration JMServerInstallComplexType has no option to specify timeout.		Not relevant anymore since JMS has been removed				Deltares - Roadmaps
FEWS-17864	System - Synchronisation, System - Synchronisation 2.0	FEWS-16767 Remove old Synchronisation I and II	Old jars and code removed for synchronisation I and II	Old jars and code removed for synchronisation I and II				Deltares - Roadmaps
FEWS-18144	App - Data Conversion Module	DCM Export: MeteoAlarm (CAP format)	MeteoAlarm Cap export	MeteoAlarm Cap export generates cap files to folder and posts them to SOAP service.			https://publicwiki.deltares.nl/display/FEWSDOC/MeteoAlarmCap	RWS
FEWS-18774	App - Master Controller Server	Synchronisation of ImportStatus table between two MC's						Deltares
FEWS-17766	App - Master Controller Server	FEWS-16767 GlobalRowIdRegenerator	database initialization tool generates global row ids	Generation of global row ids is part of the database initialization tool			https://publicwiki.deltares.nl/display/FEWS2020/DataBase+Initialization+Tool	Deltares
FEWS-18773	App - Admin Web User Interface, App - Master Controller Server, System - PI Service	FEWS-16767 Load ntmauth_v64.dll in java.library.path						Deltares
FEWS-18801	App - Operator Client Gui (Explorer)	Chinese language update for 2017.02						Deltares
FEWS-19121	App - Operator Client Gui (Explorer)	Correct reference Delft-FEWS Copyright & Credits page from About box.						Deltares
FEWS-18313	App - Operator Client Gui (Explorer)	FEWS-16767 Rolling Barrel Implementations SA / OC						Deltares
FEWS-4834	Database	FEWS-4832 DB Schema check	Schema validation				https://publicwiki.deltares.nl/pages/viewpage.action?ajed=133857857	
FEWS-18725	Database	FEWS-16767 create clone script for migration of 2017.02	Database clone scripts for duplicating a Delft-FEWS database in support of 2017.02 migration without offline time.				https://publicwiki.deltares.nl/display/FEWSDOC/How+to+create+a+clone+of+the+database	Deltares
FEWS-16943	Database	Migrate MSSQL server script from using osql to sqlcmd. Osql will be removed from SQL Server.						Deltares
FEWS-15954	Database	database replicator should be able to cope with default values / schema changes.						Deltares

FEWS-12925	Database	Optimize Snapshot / Replicate functionality			<pre> <code>xml </code> <?xml version="1.0" encoding="UTF-8"?> <exportArchiveModule xsi:schemaLocation="http://www.wildelf.nl/fews http://fews.wildelf.nl/schemas/version1.0/exportArchiveModule.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wildelf.nl/fews"> <exportSnapshot> <general> <archiveFolder>SARCHIVE_DIRS</archiveFolder> </general> <exportSnapshot> <areaid>test</areaid> <filter id="only time series"> <config enabled="false" name="Default xml config" synchLevel="11"/> <coldStates enabled="false" name="Default cold states" synchLevel="11"/> <moduleDataSets enabled="false" name="Default module data sets" synchLevel="11"/> <mapLayers enabled="false" name="Default map layers" synchLevel="11"/> <icons enabled="false" name="Default icons" synchLevel="11"/> <reportTemplates enabled="false" name="Default report templates" synchLevel="11"/> <reportImages enabled="false" name="Default report images" synchLevel="11"/> <continuousTimeSeries enabled="true" name="Simulated" synchLevel="0" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Telemetry" synchLevel="1" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Manual" synchLevel="5" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Astronomical and climatological" synchLevel="4" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Small external forecast grids" synchLevel="6" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Large external forecast grids" synchLevel="16" maxAge="10000" unit="week"/> </filter> </exportSnapshot> </exportArchiveModule> </code> </pre>		Deltares	
FEWS-12901	MCRecoveryTool	FEWS-16767 Add "clear_database" task to mc recovery tool	MCRecoveryTool option to wipe all tables from the central database in order to replace no longer present functionality of populator tool.			https://publicwiki.deltares.nl/display/FEWSDOC/MCRecoveryTool	Deltares	
FEWS-18831	Plugin - Gui - Time Series, Plugin - Module - Reports	Arrow in the display; plot and html report	add support for rotated arrow markers to the report module	<p>For FEWS-16981, support for rotated arrow markers, which could for example be used to plot a wind speed graph with arrow markers showing the wind direction, was added to the time series dialog (data display). The report module now also supports such arrow markers, allowing them to be used in the exported charts.</p>	<pre> <code>xml </code> <?xml version="1.0" encoding="UTF-8"?> <parameterDisplayOptions id="WS.15"> <preferredColor>purple</preferredColor> <lineStyle>solid</lineStyle> <markerRotationParameterId>WR.15</markerRotationParameterId> <markerIcon>arrow_icon_test.png</markerIcon> <markerRotationOffset>180</markerRotationOffset> </parameterDisplayOptions> </code> </pre> <p>For the report module to include the arrows, the direction time series must be included in the chart of the module config file:</p> <pre> <code>xml </code> <?xml version="1.0" encoding="UTF-8"?> <chart id="chartMain" formatId="chartFormat" width="1200" height="600"> <timeSeries label="speed" preferredColor="purple">Speed</timeSeries> <timeSeries label="direction" preferredColor="purple">Direction</timeSeries> <fileName>arrow_test</fileName> </chart> </code> </pre>		https://publicwiki.deltares.nl/display/FEWSDOC/02+TimeSeriesDisplayConfiguration#TimeSeriesDisplayConfiguration-Directionalarrowmarkers	Mozambique
FEWS-18883	Plugin - Module - Data Import	Covadem: add header to existing Covadem import						
FEWS-18996	Plugin - Module - Data Import	New import for SMN ETA based on previous UruguaySMNETA	Eta5mn Import type	<p>Eta5mn imports gridded time series from ascii file format.</p> <p>File example :</p> <pre> <code> lon lat p01 p02 p03 p04 p05 p06 -56.9874 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 -56.9250 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 -56.8625 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 </code> </pre> <p>The forecast time is read from the file name. The file name should comply with the following file name pattern: ??????????yyyyMMdHH????, for example Dates_WWF_2018030001.txt.</p> <p>Event times are stored in the column headers p01, p02,... where the numbers correspond to the hours. The dates/times are always in GMT.</p> <p>This reader needs a geometry configured in the region config</p>				Yacayeta (Arg)

JIRA Delft-FEWS 2017.02 New Features

FEWS-18833	Plugin - Module - Data Import	New import for hydroestimator format file	New import for hydroestimator format file	A new importType "UruguayHydroEstimator" was added for files following the hydroestimator format.	ModuleConfig file: <pre><code>xml <import> <general> <importType>UruguayHydroEstimator</importType> <folder>SMP_IMPORT_FOLDERS/HYDRO_ESTIMATOR</folder> </general> <timeSeriesSet> <moduleInstanceId>import_hydro_estimator</moduleInstanceId> <valueType>grid</valueType> <parameterId>R</parameterId> <locationId>hydroEstimator</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour" multiplier="12"/> <readWriteMode>read original</readWriteMode> </timeSeriesSet> </import> </code></pre>	https://publicwiki.deltare.nl/display/FEWSDOC/UruguayHydroEstimator	Yacreta	
FEWS-12771	Plugin - GUI - Sample Viewer, Plugin - Module - Data Import	FEWS-17944 Request to import same sample via different imports without overwriting	Add optional prefix to sampleIdColumn in generalCsv import	In the generalCsv import an optional "prefix" attribute was added to the <sampleIdColumn>. The prefix (if present) is added to the front of each sampleId imported from the file. This allows you to differentiate between samples from different imports, preventing the samples from another import from being overwritten.	<pre><code>xml <table> <dateTimeColumn name="DATE_SMP" pattern="dd-MM-yy HH:mm"/> <locationColumn name="LOC_CODE"/> <intColumn name="Eestheid"/> <parameterColumn name="PARAMETER_ID"/> <sampleIdColumn name="SMP_CODE" prefix="Prefix_"/> <propertyColumn name="COST_CODE" key="COST_CODE"/> <valueColumn name="Waarde"/> </table> </code></pre>	https://publicwiki.deltare.nl/display/FEWSDOC/GeneralCsvGeneralCsvSampleIdPrefix	Waternet	
FEWS-17762	Plugin - GUI - Sample Viewer, Plugin - Module - Data Import	FEWS-17944 GeneralCsv parser gives warning on incorrect date but just continues importing next line					Waternet	
FEWS-19124	Plugin - Module - Data Import, Plugin - Module - General Adapter	GA <importNetsdfActivity> doesn't recognize sea_surface_height as a CF conform standard name					Water Technology (AUS)	
FEWS-18032	Plugin - Module - Data Import	Vigicruis webservice import	Vigicruis webservice import added	Two new import types were added, Vigicruis_web and Vigicruis_xml, which can be used to import data from the Vigicruis webservice.		https://publicwiki.deltare.nl/display/FEWSDOC/VigicruisWeb	Rijkswaterstaat	
FEWS-18916	Plugin - Module - Data Import	Update aqualarm import	Aqualarm REST service import	Aqualarm REST import has been implemented in favor of the deprecated Aqualarm import. Currently the import doesn't support ending a session. This means at most 3 sessions can be started in a period of 5 minutes. Another thing to notice is that the parameterId's have been changed.		https://publicwiki.deltare.nl/display/FEWSDOC/AqualarmRest	RWS	
FEWS-18236	Plugin - Module - Data Import	WWB API Time series import	WWB API import	The WWB API import has been implemented and is available as import type: WWB		https://publicwiki.deltare.nl/display/FEWSDOC/WWB	GO-FEWS	
FEWS-17529	Plugin - Module - Data Import	Handling dynamic location coordinates	Dynamic locations can be displayed using a tracklayer in the gridDisplay	Dynamic locations can be displayed using a tracklayer in the GridDisplay. Using the displayCurrentTrackOnly allows you to see the moving locations.	<pre><code>xml <gridPlot id="SkyGeo Demo" name="Sky Geo Track"> <trackLayer> <displayCurrentTrackOnly true/> <displayCurrentTrackOnly> <color yellow/> <geoDatum>WGS 1984</geoDatum> <timeSeriesSet> <moduleInstanceId>importSkyGeo</moduleInstanceId> <valueType>scalar</valueType> <parameterId>X</parameterId> <locationSetId>sky_geo.locations</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete forecast</readWriteMode> </timeSeriesSet> </timeSeriesSet> <moduleInstanceId>importSkyGeo</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Y</parameterId> <locationSetId>sky_geo.locations</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete forecast</readWriteMode> </timeSeriesSet> </timeSeriesSet> <moduleInstanceId>importSkyGeo</moduleInstanceId> <valueType>scalar</valueType> <parameterId>height</parameterId> <locationSetId>sky_geo.locations</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete forecast</readWriteMode> </valueTimeSeriesSet> </valueTimeSeriesSet></pre>		https://publicwiki.deltare.nl/display/FEWSDOC/SkyGeo	Dams&SAFE project
FEWS-18034	System	Update Indonesian language files					APP	
FEWS-18630	System - PI Service	FEWS-18470 No default filter configured error when no configuration is available	standalone FEWS Web Services startup error improvement	In case the FEWS Web Services is started in standalone mode by configuring the clientConfig.xml as a standalone client) without a Config folder this is now correctly reported.			Deltare	
FEWS-18696		FEWS-16767 Force/advise usage of Java 1.8.0_172 or later						
FEWS-18186		FEWS-16767 Log Collector Service	log collector can be installed as a separate process	log collector can be installed as a separate process.				

FEWS-18812		FEWS-18245 Navigation panel's run options window larger than available screen						Deltares
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