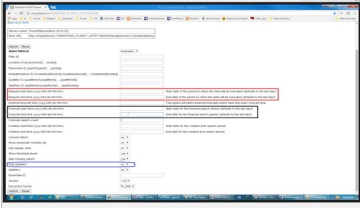
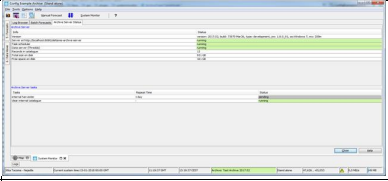
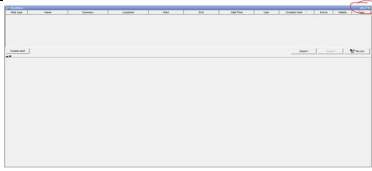
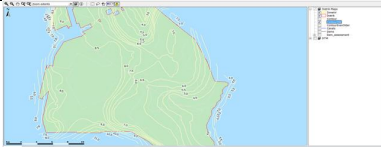

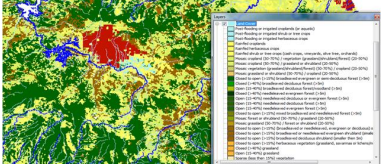


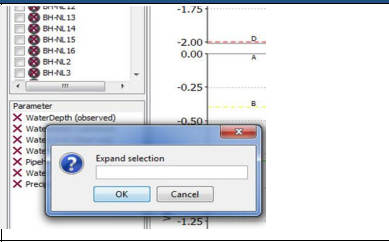

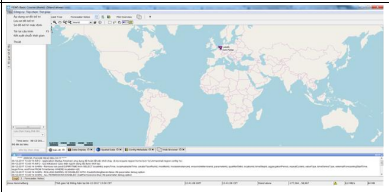


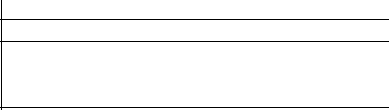

JIRA Delft-FEWS 2017.02 New Features

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 All functionality with new database schema changes						Delfares
FEWS-17115	App - Admin Web User Interface	All 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).				Delfares
FEWS-16904	App - Admin Web User Interface	FEWS-16887 NWS: #24695 All 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-16286	App - Admin Web User Interface	FEWS-16767 All 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				Delfares - Roadmaps
FEWS-18523	App - Admin Web User Interface	FEWS-16767 All: Add button to update schema modification time to force rebuilding cache files.	All: Add button to update schema modification time to force rebuilding cache files.	SystemControl now has a button to force clear cache on FSS.				Delfares - Roadmaps
FEWS-17527	App - Archive	Verify that the export to the archive is successful						Delfares - 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.				Delfares - Roadmaps
FEWS-17385	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.				Delfares
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.				Delfares
FEWS-16682	App - Archive	FEWS-15003 make it possible to access elastic catalogue by the pi webservice	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-18164	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.				Delfares - Roadmaps
FEWS-17298	App - Configuration Manager Gui, Database	FEWS-16767 Migrate default config tables to default config synch level	DatabaseInitialization tool migrates default config tables	The DatabaseInitialization tool will migrate default config tables by setting synchlevel 11 for the corresponding table. After completion the default config tables will be deleted.			https://pulsarweb.delfares.nl/display/FEWS2020/Database+InitializationTool	Delfares - Roadmaps
FEWS-14447	App - Data Conversion Module	DCM Export: MetroAlarm						RWS
FEWS-14305	App - Delft-FEWS	FEWS-16767 Remove JMS from OC						Delfares - Roadmaps
FEWS-18702	App - Master Controller Server, Database	FEWS-16767 Reduce number of database connections per OC/FSS to 4						Delfares - Roadmaps
FEWS-17355	App - Master Controller Server, Database	FEWS-16767 Create MC datasource						Delfares - Roadmaps
FEWS-17900	App - Master Controller Server	FEWS-16767 Remove populator						Delfares - Roadmaps
FEWS-17516	App - Master Controller Server	FEWS-16767 Implement Delft_SQL.jar in MC code						Delfares - Roadmaps
FEWS-17764	App - Master Controller Server	FEWS-16767 MC initialisation						Delfares - Roadmaps
FEWS-18246	App - Master Controller Server	FEWS-16767 System Alerter and Log Processor						Delfares - Roadmaps

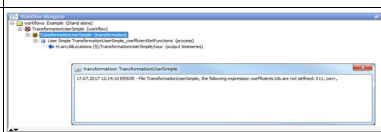
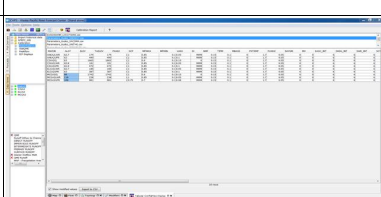
JIRA Delft-FEWS 2017.02 New Features

FEWS-12550	App - Master Controller Server	FEWS 16643 Oaabc: 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 an encryptedPassword for the database connection	<pre> [code] <dbServer> #!-- The central database server type (oracle, postgresql, sqlserver #sqlserver (sql), sqlserver (sql, Server using the jtdc jdbc driver) or sqlserverms [SQL Server using the Microsoft jdbc driver]) --> #dbServerType=postgresql/<dbServerType> #!-- The server name or IP address of the central database server. --> #dbServerName=<dbServer>.deltares.nl/<dbServerName> #!-- Optional database port if non-standard. #standard are 1521 for Oracle, 5432 for PostgreSQL, 1433 for SQL Server. --> #!-- <dbServerPort=5432/<dbServerPort> --> #!-- The database instance ID --> #dbInstanceName=<nlw100/<dbInstanceName> #!-- The database user name. --> #dbInstanceUser=<nlw100/<dbInstanceUser> #!-- The database user's password. --> #dbInstancePassword=<@InstancePassword> #!-- Option to produce encrypted password --> #dbEncryptPassword=true/<dbEncryptPassword> /</dbServer> [code] </pre>			Outbox
FEWS-12099	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 unclosed windows						TVA
FEWS-16897	App - Operator Client Gui (Explorer)	FEWS 17266 TVA: F12 option to remove cache files without having to restart client manually						TVA
FEWS-12057	App - Operator Client Gui (Explorer)	Add re-scale option while using expression filter						GO-FEWS (Selection of Dutch Waterboards)
FEWS-18113	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 synchronic metrics						Deltares - Roadmaps
FEWS-18242	App - Operator Client Gui (Explorer), Database	FEWS 16767 Remove on-demand bibo-download						Deltares - Roadmaps
FEWS-17248	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-16969	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


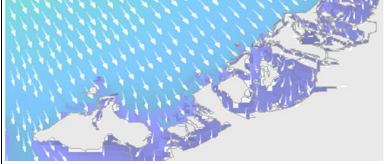
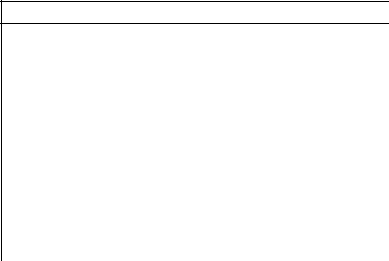
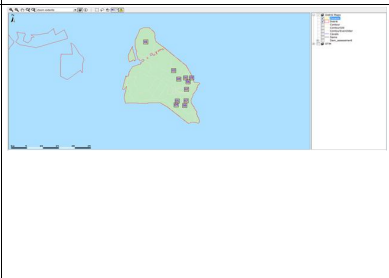

JIRA Delft-FEWS 2017.02 New Features

FEWS-12921	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.			Delfares
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-13654	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 -> <staticTimes>) 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 values stored in the user settings will be overruled if a TO is configured in the global properties.			https://publicwiki.delfares.nl/display/FEWSDOC/01-FEWS+Explorer/Id+D1FEWSExplorer+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.			HDR
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 parameteridfunction					
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>[code.xml] <timeStep minutes="15 50"/> <!-- 0:15, 0:50, 1:15, 1:50, etc. --> [code]</pre>		https://publicwiki.delfares.nl/display/FEWSDOC/26-Time+Steps+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.wideit.nl/feWS" xmlns:ns="http://www.w3.org/2003/XMLSchema-instance" nsi:schemaLocation="http://www.wideit.nl/feWS http://www.wideit.nl/feWS/Version1.0/clientConfig.xsd"> <locationForFormat>C:/feWS/LocalDataStore/ </locationForFormat> <clientStore> <standaloneFile>SR8210L_HOME/client.truststore</standaloneFile> <keyStoreFile>SR8210L_HOME/client.keystore</keyStoreFile> </clientStore> </clientConfiguration> [code]</pre>		https://publicwiki.delfares.nl/display/FEWSDOC/How+to+Configure+secure+https+connection+to+Mailbox
FEWS-16883	Database	FEWS-16887 NWS: #28627 Sequence table incorrect after database rebuild and initial MC_synchronisation					NWS


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FEWS-1636	Database	Expand the taskTag column in the Task table to 146 characters so workflow and taskTag do not need to be chopped anymore							Defares - Roadmap	
FEWS-17353	Database	FEWS 16767 Create new table ForecastingShells							Defares - Roadmap	
FEWS-16876	Database	FEWS 16767 Add globalRowId column to all tables							Defares - Roadmap	
FEWS-17647	Database	FEWS 16767 Database time provider in extended data source							Defares - Roadmap	
FEWS-18277	Database	FEWS 16767 Add integer build number column to log entries table							Defares - Roadmap	
FEWS-17575	Database	Optimize Snapshot / Replicate functionality							Defares	
									<pre>[code xml] <xml version="1.0" encoding="UTF-8"> <exportArchiveModule xsi:schemaLocation="http://www.wildelf.nl/fews http://www.wildelf.nl/schemas/ver10ml.0/exportArchiveModule.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wildelf.nl/fews"> <exportSnapshots> <general> <archiveFolder>ARCHIVE_DIR</archiveFolder> </general> <activities> <exportSnapshots> <archiveId>test</archiveId> <filter id="only time series"> <xmlConfig enabled="false" name="Default xml config" synchLevel="11"/> <coldDataSets 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 grida" synchLevel="6" maxAge="1000" unit="week"/> <continuousTimeSeries enabled="true" name="Large external forecast grida" synchLevel="18" maxAge="1000" unit="week"/> <warnStates enabled="false" name="Warn states" maxAge="10" unit="week"/> </exportArchiveModule> </code> </pre>	
FEWS-18472	Database	FEWS 16767 Always use sequences when inserting system activities							Defares - Roadmap	
FEWS-17808	Database	Deleting TaskRunCompletion table is slow							USA	
FEWS-18411	Database	FEWS 16767 Connection naming	name all database connections based on component name	name all database connections based on component name					Defares - Roadmap	
FEWS-17126	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	Sequences tables replaced by actual database sequences which are simpler and more efficient						Defares - Roadmap	
FEWS-18051	Database	FEWS 14299 FFFS: Add power function to time series rating curves	Rating curve with 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.	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.	Example from pt_ratingcurve.xml <pre>[code xml] <ratingCurve> <header> <locationId>lock</locationId> <startDate date="2011-01-01" time="00:00:00"/> <stationName>location</stationName> <ratingTime>stageToDischargePowerEquation</ratingTime> <dischargeUnit>3</dischargeUnit> </header> <stageToDischargePowerEquation minStage="0.02757" maxStage="10.5" cr="8.8605" alpha="0.02757" beta="1.8032"/> <stageToDischargePowerEquation minStage="0.5" maxStage="10.0" cr="8.8605" alpha="0.02757" beta="1.8032"/> <stageToDischargePowerEquation minStage="10.0" maxStage="999.0" flag="3" cr="17.7210" alpha="0.02757" beta="1.8032"/> </ratingCurve> </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.					Defares - Roadmap	
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					Defares	
										
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							Defares	
FEWS-18247	Module Adapter - All	FEWS 16663 Quebec Hydrotel Adapter	Created pre and post adapter for Hydrotel model						MODELEC (Dubec) https://pubicswi.delft.nl/pages/viewpage.action?projectId=12444418	
FEWS-12001	Module Adapter - Calibration	FEWS 14887 NWS: #34172 (b) CHPS 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


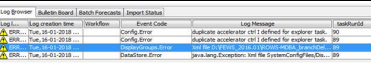
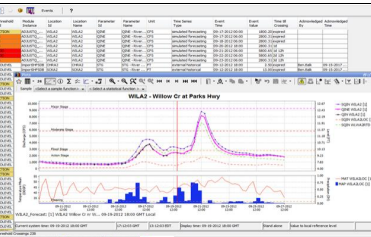
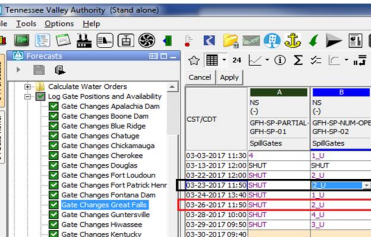
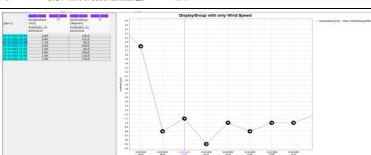
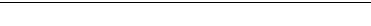
JIRA Delft-FEWS 2017.02 New Features

FEWS-1294	Plugin - Gui - Forecast Manager	Forecast management dialog: add extra column with runtime of workflow					National Water Model
FEWS-1783	Plugin - Gui - Grid Display	FEWS-1785 GridDisplay - Mask (or erase) coarse mode results in areas with detailed model results			<pre>[code xml] <locationSet id="wave_EAM_clipper.shp"> <!--> <!--> </locationSet> </code></pre>		
FEWS-1695	Plugin - Gui - Grid Display	FEWS-16887 NWS: #24956 Spatial Display time-slider snapped to moving accumulation time step			<pre>[code xml] <!--> </code></pre>		NWS
FEWS-1246	Plugin - Gui - Grid Display	Show time series set locations instead of related in spatial display					FEWS Save
FEWS-17149	Plugin - Gui - Grid Display	Functionality to show a fixed logo at grid product, like EUMETSAT H-SAT	The image file should be placed in the MplayerFiles directory		<pre>[code xml] <!--> </code></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/01-Grid-Display FEWS Save
FEWS-1237	Plugin - Gui - Grid Display	LastValue checkbox in spatial display default setting	store "last value" checkbox status from spatial display in the user settings	The status of the "last value" checkbox in the spatial display is now stored in the user settings. When FEWS is restarted, the checkbox will still be checked/unchecked like it was when FEWS was exited			APP
FEWS-1228	Plugin - Gui - Grid Display	FEWS-12202 Make labels of background layers configurable	new label formatting options for shape-layers	For shape-files (orShapeLayer and serverShapeLayer), several new elements are available to format the labels: * labelFontSize * labelFontColor * labelBackgroundColor * labelOpageness (opaqueness of the background color) * labelBorderColor * labelAllLine (controls whether smart labeling is used for lines, see FEWS-17600) * labelAttribute & labelVAttribute (allow defining label coordinates in the shape files)	<pre>[code xml] <!--> </code></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/01-GeoMap/CommonShapeLayerElements APP
FEWS-12845	Plugin - Gui - Grid Display	Mousepointer does not show calculation symbol when hovering on map	mouse pointer shows hourglass symbol when hovering over map	The mouse pointer will now show an hourglass symbol when hovering over the map when FEWS is still calculating, similar to how the hourglass symbol was already shown when hovering outside of the map.			Deltaris
FEWS-1290	Plugin - Gui - Grid Display	FEWS-12202 Enable classification of point layers in geoMap	enable classification for point layers in geoMap	It is now possible to configure a classification for point shapelayers using icons.	<pre>[code xml] <!--> </code></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/01-GeoMap/CommonShapeLayerElements APP

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FEWS-17266	Plugin - Gui - Grid Display	FEWS-17202 Add MapExtentId to Gridplot	couple zoom extent to grid plot	It is now possible to configure a mapExtentId for grid plots, the map will then automatically select the configured zoom extent when the grid plot is selected in the spatial display. The mapExtentId can be coupled to specific grid plots or defaults can be used to configure the same mapExtentId for several grid plots at once.	<pre>[code-xml] <default> <plotGroupId> <mapExtentId>New South Wales</mapExtentId> </default> </code-xml> [code-xml] <plotGroup id="Delftshaal" name="Delftshaal"> <mapExtentId>Jambi</mapExtentId> </plotGroup> </code-xml> </dataLayer> </classBreakId>WaterLevel</classBreakId> </gdiPlot> </code></pre>		https://publicwiki.deltare.nl/delphi/FEWSDOC/01-GridDisplay
FEWS-17250	Plugin - Gui - Grid Display	FEWS-17145 GridDisplay configuration optimization using multiple grid partitions	When DFlow FM model results have been imported for multiple computational domains, the 2D or 3D data can be displayed in Grids.xml by making use of a LocationSet containing all partition locationids.	When 2D or 3D data is imported using multiple domain partitions, this data can be displayed in Grids.xml making use of LocationSets. Create a LocationSet including the LocationId for all partitions. This LocationSet can be used consistently throughout the GridDisplay configuration, like when displaying: * 2D data, e.g. water level * 3D data, e.g. a combination of UTimeSeriesSet, VTimeSeriesSet and sigmaScaleReferenceTimeSeriesSet * 3D data, e.g. a combination of TimeSeriesSet (e.g. temperature) and sigmaScaleReferenceTimeSeriesSet	<pre><gdiPlot id="3D_data" name="3D data display"> <dataLayer> <arrowColor>white</arrowColor> <arrowSymbol>None</arrowSymbol> <multipleArrowsPerValue>false</multipleArrowsPerValue> </timeSeriesSet> <moduleInstanceId>DFlowPM_FC</moduleInstanceId> <valueType>gdi</valueType> <parameterId>simulated</parameterId> <locationSetId>DFlowPM_0_####</locationSetId> <timeSeriesType>simulated Forecasting</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete Forecast</readWriteMode> </timeSeriesSet> </timeSeriesSet> <moduleInstanceId>DFlowPM_FC</moduleInstanceId> <valueType>gdi</valueType> <parameterId>C_simulated_vv</parameterId> <locationSetId>DFlowPM_0_####</locationSetId> <timeSeriesType>simulated Forecasting</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete Forecast</readWriteMode> </timeSeriesSet> </timeSeriesSet> <moduleInstanceId>DFlowPM_FC</moduleInstanceId> <valueType>gdi</valueType> <parameterId>C_simulated_dir</parameterId> <locationSetId>DFlowPM_margak</locationSetId> <timeSeriesType>simulated Forecasting</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>read complete Forecast</readWriteMode> </timeSeriesSet> </timeSeriesSet> </dataLayer> <barLegend> <position>right</position> </barLegend> </gdiPlot></pre>		Deltare
FEWS-18289	Plugin - Gui - Grid Display	FEWS-17145 Hide "Last Value" box in grid display when not applicable	Added configuration option to hide the last value checkbox in the GridDisplay	The last value checkbox in the GridDisplay can now be hidden through configuration. Documentation on the new configuration option and the functionality of the last value checkbox was added to the wiki.			https://publicwiki.deltare.nl/delphi/FEWSDOC/01-GridDisplay/01-GridDisplay_Accumulation/MovingAverageSliderLastValueCheckbox
FEWS-17973	Plugin - GUI - IFD - Forecaster Help	List of Product' doesn't refresh after a task/node has finished running	Forecaster help selection panel selection panels improved	The forecaster help selection panel gives an overview of the files which are available for a certain topology node to help the forecaster. After selection of a file the content will be displayed in the forecaster documentation panel. It is possible to show the content of multiple folders for each separate node. If the content of these folders is changed the selection panel will now always refresh its content.			RWS
FEWS-12981	Plugin - Gui - Map	FEWS-14893 FOEN-DEV: Add feature to disable threshold icons in Filters and Map display	New button in the map display which can disable threshold icons	A new button was added to the map display to turn the threshold icons for the locations on and off. Turning the threshold icons off allows the validation icons to become visible.			FOEN
FEWS-18286	Plugin - Gui - Map, Plugin - Module - Reports	FEWS-17145 Link location-specific reports to Map viewer	Added option to link a report to locations	Locations can now be linked to a specific report. When configured, if the location is selected, the linked report will be automatically selected in the ForecasterAidSelectionPanel. Note that the report must already be present in the list of reports in this panel. Information on the configuration of these feature is available on the wiki.			https://publicwiki.deltare.nl/delphi/FEWSDOC/27-ForcasterAid-SelectionPanel
FEWS-18214	Plugin - Gui - Schematic Status Display	FEWS-17521 Context menu - save as - error when extension not entered					Deltare
FEWS-14612	Plugin - Gui - Schematic Status Display	SSD - switching between panels with different timestep causes loss of time definition	Time slider activation button can be configured to toggle between active and inactive timeslider	Time navigator toolbar activation button can be configured to toggle between active and inactive time navigator. When the time navigator is set to inactive, the behaviour is equal to the case where no navigator toolbar was configured at all.	<pre>[code] <showTimeNavigatorToolbar> <timeSeriesId>DFlowPM_FC</timeSeriesId> <activate>false</activate> <showTimeNavigatorActivationToggle>true</showTimeNavigatorActivationToggle> </showTimeNavigatorToolbar> </code></pre>		https://publicwiki.deltare.nl/pages/viewpage.action?pageId=8484020

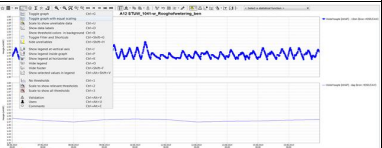
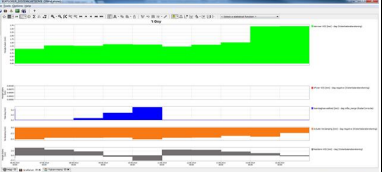
JIRA Delft-FEWS 2017.02 New Features

FEWS-11495	Plugin - Gui - Schematic Status Display	Configurable schematic status display background	Schematic Status Display can have a custom background color	A Schematic Status Display can have a custom background color. The colors can be colorScheme dependent. A background color can be define on the display level that will apply to all panels in the display. On the panel level a color can be defined as well to overrule the color on the display level.	<pre> [code] <!-- Example of background color for a display. --> <!-- displayName=Boada Display <!-- twenthekanaalen/<!-- displayName --> --> <!-- showTimeNavigatorToolBar --> <!-- timeNavigatorRelativeViewUnit=day start=-30 end=0 --> <!-- activate=true --> /activate> <!-- showTimeNavigatorActivationToggle=true --> /showTimeNavigatorActivationToggle --> <!-- showTimeNavigatorToolBar --> <!-- backgroundColor=HEX_Blue --> /backgroundColor --> [code] [code] <!-- Example of a panel specific color: --> [code] <!-- sscadaPanel id="TK" name="Twenthekanaalen 10 min" --> <!-- svgFile=TK_Twenthekanaalen_10Min.svg --> /svgFile --> <!-- coverViewLogTimeNavigatorTimeStep multiplier=10 unit="minute" --> <!-- backgroundColor=yellow --> /backgroundColor --> [code] </pre>		https://publicwiki.deltare.nl/pages/viewpage.action?pid=8684720
FEWS-18173	Plugin - Gui - Schematic Status Display	Use of attributes in SSD the 'title' of the leftSingleClickAction	PARAMETER tag and LOCATIONATTRIBUTE tag SSD improvements	PARAMETER tag and LOCATIONATTRIBUTE tag SSD improvements			https://publicwiki.deltare.nl/pages/viewpage.action?pid=8684720
FEWS-18908	Plugin - Gui - System Monitor	FEWS 14730 System Monitor Display, Import status tab - highlight selected row	System Monitor Display, Import status tab - highlight selected row	If rows are selected in the table of the import status tab in the System Monitor Display, they are now highlighted			MDBA
FEWS-18418	Plugin - Gui - Schematic Status Display - Plugin - Gui - Threshold Display	Set transparency of svg elements based on a timeseries	opaquesPercentage available for ThresholdWarningLevels	In the ThresholdWarningLevels.xml it is now possible to configure a opaquesPercentage. Default a value is set to 100%.	<pre> [code] <!-- thresholdWarningLevel id="4" name="Arvoer is positief, overachot" --> <!-- color=green --> /color --> <!-- opaquesPercentage=20 --> /opaquesPercentage --> [code] </pre>		RWS
FEWS-14692	Plugin - Gui - Threshold Display	FEWS 17266 System wide threshold crossing display with action acknowledge functionality	Display that shows table like overview of all Threshold Events	User manual is documented under link https://publicwiki.deltare.nl/display/FEWSDOC/29-System-Wide-Thresholds-Display	<pre> [code] <!-- explorerTask name="Event" --> <!-- isOptional=true --> /isOptional --> <!-- iconName=V --> /iconName --> <!-- iconNameColor --> /iconNameColor --> <!-- taskIcon=V --> /taskIcon --> <!-- toolbarTask=V --> /toolbarTask --> <!-- memberTask=true --> /memberTask --> <!-- allowMultipleInstances=false --> /allowMultipleInstances --> <!-- accelerator=ctrl --> /accelerator --> <!-- loadInBackground=false --> /loadInBackground --> <!-- explorerTask --> [code] </pre>		https://publicwiki.deltare.nl/display/FEWSDOC/29-System-Wide-Thresholds-Display
FEWS-12028	Plugin - Gui - Time Series	FEWS 17266 TVA, ability to auto-sort times when editing nonaquidistant data					TVA
FEWS-16981	Plugin - Gui - Time Series	HVV, Timeseries Marker as icon (for displaying wind direction as arrow)			<pre> [code]<!-- sm1 --> <!-- parameterDisplayOptions id="WS_15" --> <!-- parameterColor=purple --> /parameterColor --> <!-- lineWidth=10 --> /lineWidth --> <!-- markerPosition=parameter --> /markerPosition --> <!-- markerColor=red --> /markerColor --> <!-- parameterColor=arrow --> /parameterColor --> <!-- parameterDisplayOptions --> [code] </pre>		HWS Delfland
FEWS-11193	Plugin - Gui - Time Series	FEWS 16132 HERMES: show single day (0-23hr) in the 24N display irrespective of hour of the day FB97					BPA HERMES

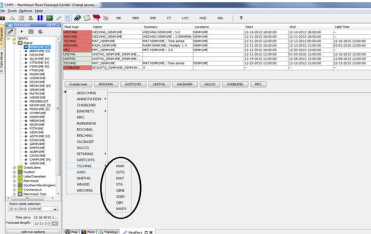

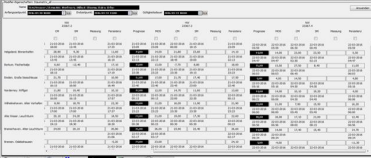
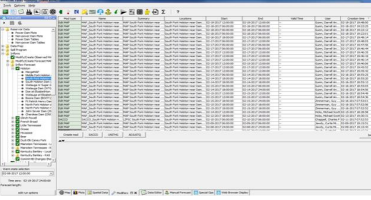
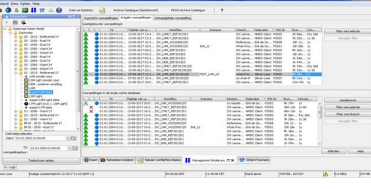
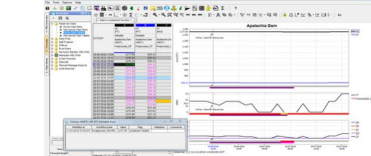
JIRA Delft-FEWS 2017.02 New Features

FEWS-17384	Plugin - Gui - Time Series	FEWS-16132 ability to configure colors of table headers for specific timeseries	table column header background color	It's now possible to configure a tableHeaderBackgroundColor in the parameterDisplayOptions of the timeSeriesDisplay.xml to have a custom background color. It's also possible to use a color that has been defined in the color schemes.	<pre>[code] <parameterDisplayOptions id="Q_Obs"> <parameterColor>green</parameterColor> <indicatorColor>red</indicatorColor> <markerStyle>triangle</markerStyle> <markerSize>3</markerSize> <precision>4</precision> <scaleMin>1</scaleMin> <tableHeaderBackgroundColor>HSL_blue</tableHeaderBackgroundColor> </parameterDisplayOptions> [/code] In the CustomColors.xml the HSL_blue color has been defined: [code] <customColor key="HSL_blue" color="light blue"/> [/code]</pre>		BPA HERMES
FEWS-12984	Plugin - Gui - Time Series	FEWS-14893 FOEN DEV: Add a second icon to the icons of the shortcuts to know if thresholds are crossed before or after the system time	show threshold warnings in time series display only based on values before / after display time	The show threshold warnings button in the time series display (graph display) could already be used to turn on/off the threshold icons in the shortcuts menu. A drop-down menu was added to this button with options to only use values before, or only use value after the display time, when deciding what icon to display.			FOEN
FEWS-12099	Plugin - Gui - Grid Display, Plugin - Gui - Time Series	Add pixel information to pasted timeseries (from grid display)	add pixel information to pasted timeseries (from grid display)	When you double click on a grid cell in the grid display, the time series for this point is shown in a graph. The coordinates of the grid cell are now shown in the title of this graph.			GO FEWS (Selection of Dutch Waterboards)
FEWS-12029	Plugin - Gui - Time Series	FEWS-17266 TVA: default last row in non-equidistant table to 10	When a new time step is added at the end of the period in the data editor let the new time default to 10 if possible.	When a new time step is added at the end of the period in the data editor let the new time default to 10 if possible.			TVA
FEWS-12025	Plugin - Gui - Time Series	FEWS-10616 TVA: Data editing of non-equidistant time series (remove time)	Remove time in the time series editor now removes the whole row				TVA
FEWS-16924	Plugin - Gui - Time Series	FEWS-16887 NWS: #25016 Distance reduced of cursor (tooltip) readout showing nearest timeseries value	Option tooltipMargin to configure radius (in pixels) round the time series value the tool tip starts appearing	An example from TimeSeriesDisplayConfig.xml: <pre><generalDisplayConfig> <thresholdLabelFontSize>9</thresholdLabelFontSize> <barMarginPercentage>30</barMarginPercentage> <tooltipMargin>10</tooltipMargin> <convertDatum>false</convertDatum> </generalDisplayConfig></pre>			NWS

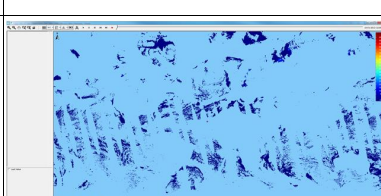
JIRA Delft-FEWS 2017.02 New Features

FEWS-17115	Plugin - Gui - Time Series	Add functionality to scatter plot to show multiple parameters for single location	Option to show "ShowAsScatterPlot" for the displayGroups is extended	It is possible to define a scatterplot for a certain node in the display groups. This was already possible in the previous releases by using the showAsScatterPlot opti. However the timeseries were always paired my matching the parameter. This means that if a set of time series were defined for a certain node that two time series with the same parameter were always compared in the scatter plot. Since the 201702 release it is now also possible to create pairs by matching the location. This can be done by setting the option createPairsByMatchingParameter to false.	<pre> <displayGroup name="Verification_parameters_scatter"> <id>145</id> <name>"Verification parameters scatter"> <noOfRecentForecasts>2</noOfRecentForecasts> <locationId>10000000000000000000</locationId> <plotId>scatterplot_parameters</plotId> <showAsScatterPlot> <chartTitle>scatter plot</chartTitle> <referencePoints> <point> <x>1</x> <y>1</y> </point> <point> <x>0</x> <y>0</y> </point> <point> <x>2</x> <y>2</y> </point> </referencePoints> <axisRange> <min>-1</min> <max>2</max> </axisRange> <axisRange> <min>-1</min> <max>2</max> </axisRange> <createPairsByMatchingParameter>false</createPairsByMatchingParameter> </showAsScatterPlot> </display> </pre>		RWS
FEWS-11862	Plugin - Gui - Time Series	Button "return to default"	Explorer File menu option "Reload default user settings"	The user may modify the preferences in the DC Gui. For example changing colors or switching TimeSeriesDisplay toolbar buttons on/off. These preferences are stored in user_settings.ini. File menu option "Reload default user settings" restarts FEWS with the default settings again. The previously entered user preferences are removed.			RWS
FEWS-16730	Plugin - Gui - Time Series	Add option to use identical vertical scales in timeseries viewer in 'multi-paned' mode	Added option to use identical vertical scales in graphs	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.			Office of Public Works, Ireland
FEWS-17926	Plugin - Gui - Time Series	Add configuration option for whitespace between subplots	Add configuration option for whitespace between subplots	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 <secondSubplot> and separator of the second subplot are all given equal weight, each will occupy 1/3 of the screen.			RWS Delft
FEWS-18223	Plugin - Gui - Time Series Modifier, System - Workflow	FEWS-18222 Hy5: Dynamic selection of catchments	Workflow activity option "enabled"	If the option "enabled" is present and the location attribute, specified with attribute, has value FALSE, then the activity will be excluded from the workflow run. AttributeId should refer to the boolean attribute. To change interactively the attribute value, use location attribute modifiers.	<pre> An example from Workflow.xml : <code> <activity> <properties> <string key="CATCHMENT" value="goulburn"/> </properties> <enabled locationId="hunter_goulburn" attributeId="INCLUDE_IN_WORKFLOW"/> <runIndependent>true</runIndependent> <moduleId>goulburn_Rainfall_Multi_Scan_Forecast</moduleId> <moduleConfigFile>Rainfall_1h_Multi_Scan_Forecast</moduleConfigFile> <name> </activity> </activity> </properties> <string key="CATCHMENT" value="goulburn"/> </properties> <enabled locationId="hunter_goulburn" attributeId="INCLUDE_IN_WORKFLOW"/> <runIndependent>true</runIndependent> <workflowId>goulburn_3RMS_Catchment_Forecast</workflowId> </activity> </code> </pre>		BOM

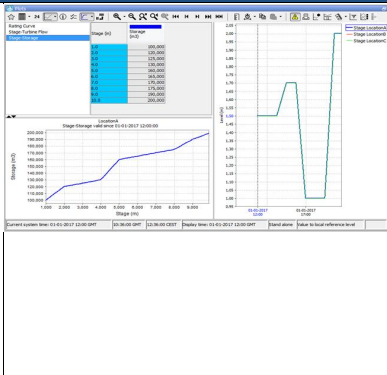
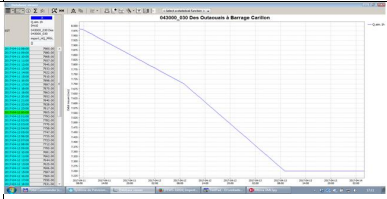
JIRA Delft-FEWS 2017.02 New Features

<p>FEWS-16937</p>	<p>Plugin - Gui - Time Series Modifier</p>	<p>FEWS-16887 NWS: #23388 Order of available time series types in the Create mod menu's sub-menu should be configurable</p>	<p>The order of the parameters in the sub-menu of the "create modifier" button dropdownlist is now configurable</p>	<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="trenching"/> <modifier id="teaching"> <parameterID=STO/> <parameterID= </modifier> </dropDownMenuDisplayOrder> </pre>		<p>NWS</p>
<p>FEWS-16902</p>	<p>Plugin - Gui - Time Series Modifier</p>	<p>FEWS-16887 NWS: #23387 Order of mods in drop-down menu should be configurable</p>	<p>Order of the modifiers in the drop-down list of the "create modifier" button is now configurable</p>	<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="weadd"/> </dropDownMenuDisplayOrder> </pre>		<p>NWS</p>
<p>FEWS-14444</p>	<p>Plugin - Gui - Time Series Modifier</p>	<p>FEWS-14471 Add modifier for "Staumatrix fulken" (p2)</p>	<p>New Modifier added using referenceColumns</p>	<p></p>	<pre> Example from ModifierTypes.xml [code.xml] <highLowSurgeSelectionModifier id="staumatrix1" name="Staumatrix1"> <modifierColumn name="Modifier"> <timeSeries> <moduleInstanceID=ImportStaumatrix/> <parameterID=Surge/> <parameterID= </timeSeries> </referenceColumn> </referenceColumn name="ModelA"> <timeSeries> <moduleInstanceID=ImportStaumatrix/> <parameterID=Surge/> <parameterID= </timeSeries> </referenceColumn> </referenceColumn name="ModelB"> <timeSeries> <moduleInstanceID=ImportStaumatrix/> <parameterID=Surge/> <parameterID= </timeSeries> </referenceColumn> </referenceColumn name="ModelC"> <timeSeries> <moduleInstanceID=ImportStaumatrix/> <parameterID=Surge/> <parameterID= </timeSeries> </referenceColumn> </referenceColumn> </highLowSurgeSelectionModifier> </timeSeriesFilter> </pre>	 <p>https://p2.fewslab.delft.tu/eos/nl/delplay/FEWSRSN/06-09/staumatrix-fulken</p>	<p>BSH</p>
<p>FEWS-16655</p>	<p>Plugin - Gui - Time Series Modifier</p>	<p>FEWS-17266 TVA: ability to combine MAP modifiers when editing in plots</p>	<p>Merge multiple small time series modifiers into a single modifiers</p>	<p>Normally when a forecaster makes multiple small changes to a time series then this will result in multiple modifiers. With this new option it is possible to merge these small mods automatically into 1 single large mod. The automated merging will only be done for new uncommitted time series modifiers which edit the same time series.</p>	<pre> [CODE]TimeSeriesModifier id="my mod" name="my modifier"> <timeSeries> <parameterID= parameter /> </timeSeries> <mergeOnCommitModifier true /> <defaultStartTime start run /> <defaultEndTime end run /> <resolveWorkflow true /> <resolveWorkflow true /> <resolveWorkflow true /> </timeSeriesModifier> [code] </pre>		<p>TVA</p>
<p>FEWS-17503</p>	<p>Plugin - Gui - What if Scenario, Plugin - Module - Archive</p>	<p>use custom properties in archive export for what-if name</p>	<p>Applied what-if scenarios are now stored in the archive</p>	<p>When a forecast is exported to the archive and a what-if scenario was applied to one of the time series which is part of the exported data set the applied what-if scenario(s) will be added to the runinfo.xml in the archive. The harvester of geonetwork will also add this information to the geonetwork archive.</p>	<p></p>		<p>National Water Model</p>
<p>FEWS-16341</p>	<p>Plugin - Module - Amalgamate</p>	<p>FEWS-10616 TVA: maintain edit meta data in tsv data history after amalgamating</p>	<p></p>	<p></p>	<p></p>		<p>TVA</p>
<p>FEWS-18406</p>	<p>Plugin - Module - Archive</p>	<p>FEWS-17145 Archive 3D Scalar profile data to NetCDF</p>	<p></p>	<p></p>	<p></p>	<p></p>	<p></p>

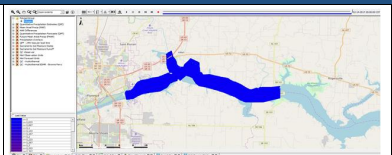

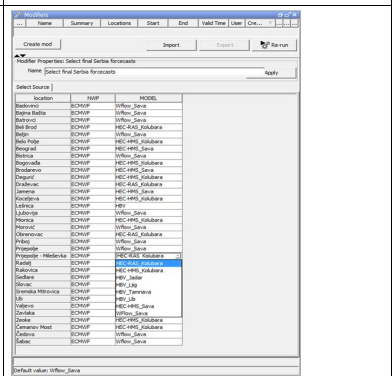
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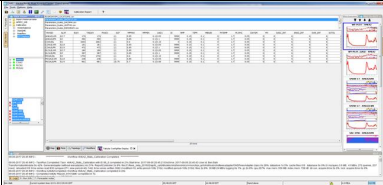
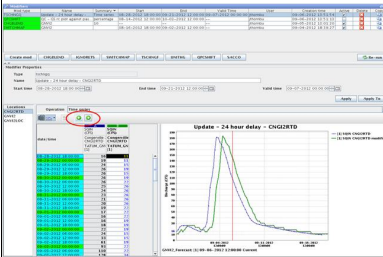
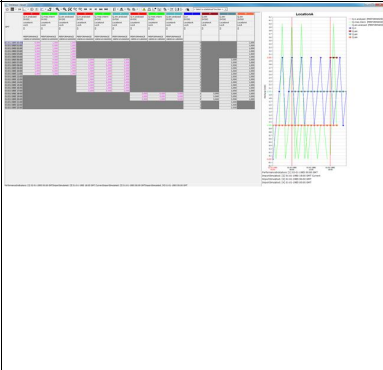
FEWS-12144	Plugin - Module - Archive	FEWS-17145 On-the-fly generation of regular NetCDF-GRID file based on bbox and viewperiod from Archive						
FEWS-12289	Plugin - Module - Data Export	FEWS-12539 Add to generalCSV export option to deal with enumeration values			<pre>[code=xml] <general> <exportType>generalCsv</exportType> <folder>EXPORT_DIR</folder> <exportFileName> <name>ReportGeneralCsv.csv</name> </exportFileName> <table> <dateTimeColumn name="DateTime" pattern="yyyy-MM-dd HH:mm"/> <locationColumn name="Location"/> <parameterColumn name="Parameter"/> <valueColumn name="ValueOnly" ignoreForEnumerationParameters="true"/> <valueColumn name="LabelOnly" ignoreForNumericalParameters="true"/> <unitColumn name="Unit" /> </table> <idMapId>GeneralCsv</idMapId> <exportMaxInputLength> <convertValuesToEnumerationLabel=true</convertValuesToEnumerationLabel> </general> [code]</pre>	https://publicwiki.deltare.nl/display/FEWSDOC/GeneralCSV-Export	NV	
FEWS-12546	Plugin - Module - Data Export	FEWS-17145 Export 3D Z-Layer to NetCDF (GA export)	NETCDF-OF_ZLAYERS time series export	<p>NETCDF-OF_ZLAYERS exports scalar time series as Z-layers. Scalar time series at the same geo point Z but different XY are considered to be a Z-layer. All available Zs are used to create a Z-axis (layer axis) in the NetCDF file, and the time series values are written to the associated Z element.</p> <p>An example: float salinity(time=5, node=26, z=40);</p> <p>Values of Z-axis are stored in meters. Per parameter only one Z-axis is allowed. Different parameters may have different Z-axis. Z-axis values are sorted in ascending order.</p> <p>The number of stations in the nc file equals to the number of unique XY that are available in the scalar time series. The location id's names associated with the first (lowest) Z are written to the nc file as station id's names. If there are parent locations configured, then the idMap can be used to write the parent locations id's to the nc file (see config example)</p> <p>The long_name attribute of the parameters is equal to the parameter id by default. To override the default long_name, configure parameter description in Parameters.xml. The parameter description will be then written to the nc file as long_name.</p> <p>Usage NETCDF-OF_ZLAYERS in GeneralAdapter: To export scalar time series as Z_layers in GA, use <code>exportScalarTimeSeriesAsZLayers</code>.</p>				
FEWS-17154	Plugin - Module - Data Export	FEWS-16887 NWS: #35088 FEWS HEC DSS Export/Import	Import and export for time series data from files in Hydrologic Engineering Center Data Storage	<p>Config for Hec Dss export</p> <pre>[code=xml] <timeSeriesExportRun xmlns="http://www.wildelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wildelft.nl/fews http://fews.wildelft.nl/schemas/version1.0/timeSeriesExportRun.xsd"> <export> <general> <exportType>hecDss</exportType> <folder>EXPORT_PATH</folder> <exportFileName> <name>exportInst.dss</name> </exportFileName> </general> <timeSeriesSet> <moduleId>hecDss</moduleId> <valueType>scalar</valueType> <parameterId>H_Bbox</parameterId> <locationId>dummy</locationId> <timeSeriesType>external</timeSeriesType> <timeStep unit="minute" multiplier="10"/> <relativeViewPeriod unit="week" start="-100" end="0"/> <relativeViewPeriod> <readWriteMode>add original</readWriteMode> </timeSeriesSet> </export> </timeSeriesExportRun> [code]</pre> <p>WIKI: https://publicwiki.deltare.nl/pages/viewpage.action?pageId=130383980</p> <p>Config for Hec Dss import idMap is needed for import when location and/or parameter id in PERK is not in capital letters. HecDss always uses Capital letters.</p>	https://publicwiki.deltare.nl/display/FEWSDOC/hecDss	NWS		
FEWS-17258	Plugin - Module - Data Import	Feature to apply location/selection also on import modules.					https://publicwiki.deltare.nl/display/FEWSDOC/06-C6dfagtrq-Workflows#3.56CurlJarInWorkFlows https://publicwiki.deltare.nl/display/FEWSDOC/06-C6dfagtrq-Workflows#3.56CurlJarInWorkFlows	WS WaterschapsBedrij Limburg (WBL)
FEWS-12530	Plugin - Module - Data Import	FEWS-17145 Improve Netcdf_Grid so it can read nc files without time coordinate						
FEWS-18201	Plugin - Module - Data Import	FEWS-16663 Quebec: generalCSV parser supporting daylight savings time with separate date and time columns.					Quebec	

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FEWS-16899	Plugin - Module - Data Import	FEWS-16887 NWS: #23704 Import reservoir storage curves to allow display capabilities similar to rating curves	LookupTables	<p>Storage curves and any other curves can be stored in region config file LookupTables.xml, according to the pt_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.</p> <p>Config\example\lookupTables.zip contains very simple example configuration with imaginary data, to demonstrate the functionality (import scalar series first, see ImportBackup\scalar).</p> <p>The lookup tables can be referenced using domain parameter id, Parameter id, optionally qualifier id's and optionally location id.</p> <p>An example from DisplayGroups:</p> <pre>(code.xml) <subplot> <lookupAxis> <inputColumnParameterId>Stage</inputColumnParameterId> <outputColumnParameterId>Storage</outputColumnParameterId> </lookupAxis> </timeSeriesSet> </code></pre> <p>Picture LookupTablesAndRightAxis2 and LookupTablesAndRightAxis2 shows the displays created with the example LookupTables.xml and DisplayGroups.xml</p>			NWS
FEWS-15912	Plugin - Module - Data Import	FEWS-16663 Import of bespoke Hydro Quebec .prn files	Import type added: HydroQuebecPRN	Import for specific Quebec format, containing flow for 3 Quebec locations	<pre><importType>HydroQuebecPRN</importType></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/HydroQuebecPRN
FEWS-18525	Plugin - Module - Data Import	FEWS-16464 FOEN: Add separate year, month, day columns to generalCw import	Add separate year, month, day, hour, minute and second columns to generalCw import	The generalCw import can now handle the date being specified through three separate columns (year, month and day), and the time being specified through one to three separate columns (hour, minute and second). If no second or minute column is given, they are assumed to be 0.			https://publicwiki.deltaris.nl/display/FEWSDOC/GeneralCwGeneralCwImportingDateAndTimeWithSeparateYearMonthDayHourMinuteAndSecondColumnsSince201701
FEWS-16111	Plugin - Module - General Adapter	FEWS-17266 importing multiple states in one GA run			<pre>(code.xml) <importStateActivity> <stateImportDir>START_DIR</stateImportDir> <stateFileDatePattern>state/yyyyMMSSHHmm</stateFileDatePattern> <relativeWebExportFile>start_bin</relativeWebExportFile> </importStateActivity> </code></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/GeneralAdapter-Module
FEWS-18952	Plugin - Module - General Adapter	FEWS-14299 NIFS: Improve the exportCustomFormatRunFileActivity with format	added option to specify the width of output values in exportCustomFormatRunFileActivity	The exportCustomFormatRunFileActivity now takes two additional optional elements: -fixedWidths and -numberOfDecimals. The -fixedWidths element can be used to specify the length of the output each location attribute or property tag ('@' or '\$') is replaced with. The -numberOfDecimals element can be used to specify the number of decimals the number attribute values must be rounded to.	<pre>(code.xml) <generalAdapterRun xmlns="http://www.widelife.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.widelife.nl/fews http://fews.widelife.nl/schema/version.0/generalAdapterRun.xsd"> <general> ... <stateDateFormat>yyyy MM dd HH mm</stateDateFormat> <endDateFormat>yyyy MM dd HH mm</endDateFormat> </general> <activities> <exportActivities> <exportCustomFormatRunFileActivity> <templateFile>ROOT_DIR/templatefile/event_tox2_template.inp</templateFile> <exportFile>event_tox2.inp</exportFile> <locationId>locationId</locationId> <fileWidth>10</fileWidth> <numberOfDecimals>5</numberOfDecimals> </exportCustomFormatRunFileActivity> </exportActivities> </activities> </generalAdapterRun> </code></pre>		https://publicwiki.deltaris.nl/display/FEWSDOC/GeneralAdapter-ModuleFileExportCustomFormatRunFileActivity

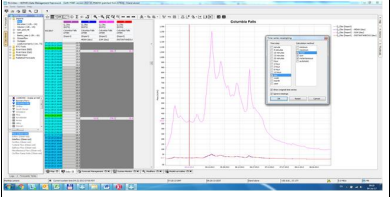
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FEWS-1626	Plugin - Module - General Adapter	FEWS-17266 TVA. Add ImportShapefileActivity to GA module	Shape files can now be imported as time series via the ImportShapefileActivity in the generalAdapter	Shape files can now be imported as time series via the ImportShapefileActivity in the generalAdapter	<pre>[code.xml] <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XMLSPY v2004 rel. 3 U (http://www.xmlspy.com) by pool_s (ML Delft Hydraulics) --> <generalAdapterRun xmlns="http://www.wideit.nl/fews" xmlns:sai="http://www.w3.org/2001/XMLSchema-instance" sai:schemaLocation="http://www.wideit.nl/fews http://www.wideit.nl/schemas/version1.0/generalAdapterRun.xsd"> <!-- General information for General Adapter run --> <general> <rootDir>EREGION_M0M02</rootDir> <rootDir>M00T_DIR</rootDir> <exportDir>M00T_DIR</exportDir> <importDir>M00T_DIR</importDir> <dumpDir>M00T_DIR</dumpDir> <diagnosticFile>M00T_DIR</diagnosticFile> </general> <activities> <importShapefileActivity> <shapeFileImportDir></shapeFileImportDir> <fileDateTimePattern>ImportShapefileActivity_<dd>MM</dd> <yyyy> <HH> <mm> <ss> </fileDateTimePattern> <parameter>M00T_DIR</parameter> <timeSeriesSet> <moduleInstanceId>ImportShapefileActivity</moduleInstanceId> <valueType>polygon</valueType> <parameterId>Q95</parameterId> <locationId>polygons</locationId> <timeSeriesType>external</timeSeriesType> <timeStep unit="second">1</timeStep> <readWriteMode>read</readWriteMode> </timeSeriesSet> </importShapefileActivity> </activities> </generalAdapterRun> [/code]</pre>		https://pubsubhull.deltare.nl/display/FEWSDDC/06-GeneralAdapter-ModuleId/FEWSGeneralAdapterModuleImportShapefileActivity
FEWS-11411	Plugin - Module - General Adapter	Import loop over directories while import ensemble results opens using GA	Added unit tests and a clear description with config examples (also on Wiki) for an OpenDA ensemble member import	Added unit tests and a clear description with config examples (also on Wiki) for an OpenDA ensemble member import	<pre>[code.xml] <?xml version="1.1" xmlns="http://www.wideit.nl/fews" xmlns:sai="http://www.w3.org/2001/XMLSchema-instance" sai:schemaLocation="http://www.wideit.nl/fews http://www.wideit.nl/schemas/version1.0/workflow.xsd"> <activity> <moduleInstanceId>ImportOpenDAensemble</moduleInstanceId> <ensemble> <ensembleId>RMP</ensembleId> <ensembleMemberIndexRange start="0" end="64"/> <runInLoop>false</runInLoop> </ensemble> </activity> </workflow> [/code]</pre> <p>ModuleConfigFile.xml should contain the ENSEMBLE_MEMBER_ID tag in either the <importDir> or <importFile> (in <importMethodActivity>). Do not specify the ensemble member. This only works for the importMethodActivity.</p> <p>Other activities that do not contain the ENSEMBLE_MEMBER_ID tag will only be executed once.</p> <pre>[code.xml] <?xml version="1.0" encoding="UTF-8"?> <generalAdapterRun xmlns="http://www.wideit.nl/fews" xmlns:sai="http://www.w3.org/2001/XMLSchema-instance" sai:schemaLocation="http://www.wideit.nl/fews http://www.wideit.nl/schemas/version1.0/generalAdapterRun.xsd"> <!-- general --> <rootDir>..\\modules\\fews\\src\\test\\java\\nl\\wideit\\fews\\system\\plugins\\</pre>		https://pubsubhull.deltare.nl/display/FEWSDDC/05-GeneralAdapter-ModuleId/FEWSGeneralAdapterModuleCombinedWorkflowEnsembleImport
FEWS-17292	Plugin - Module - Modifiers (ModuleParameters)	create location specific drop-down enumeration in location attribute modifier using fixed boolean attributes	define location specific options in drop down list by using attributes	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 downlist can be controlled by using an a multi value attribute.	<pre>[code] <attribute id="NSD"> <select location optionsControllingLocationAttributeId="NSD_OPTIONS"/> </select> <!--select location attributeId= </select> <!--comment:Default value: NSD_DEFAULT/> </attribute>[/code]</pre>		SAVA
FEWS-16912	Plugin - Module - Modifiers (ModuleParameters)	FEWS-16887 NWS: K25022 Incorrect BASEFLOW and UNITHG modifier interaction	Combine multiple module parameter modifiers	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.			NWS

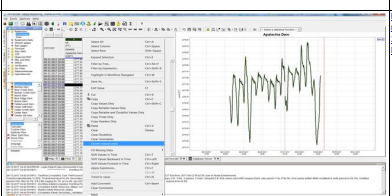
FEWS-1254	Plugin - Module - Modifiers (ModuleParameters)	FEWS-16887 NWS: #34172 (a) CHPS Calibration: add attributeModifier capability for snow17, sacma, lag parameter calibrations.	Calibration modifiers can now be used in combination with csv files	It is possible to use attributes in the general adapter parameter export. It was not possible yet to combine this feature with the calibration modifiers (multiple model modifiers). This is now possible.			NWS
FEWS-1620	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 -analyzedCalculatedVariableId to create time series with exact those forecast values, that have been used for the analysis -analyzedObservedVariableId 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 forecasts are used, then also 3 time series with intermediateValues are created. 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 (O.m) and 3 input forecasts (O.sim). For each input forecast the following series are created: intermediate values (O.rmse.interm), forecast values used in the analysis (O.sim.analysed) and observed values (O.m)</p>			RWS
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 I/O Forecasts, by selecting a certain cold state or warm state. The configured forecastSelectionPeriod should have the attributes startOverrutable and/or endOverrutable, 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 overrutable start: (code.xml) <forecastSelectionPeriod unit="day" start="-10" end="0" startOverrutable="true"/> (code)</p> <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 overrutable start and end: (code.xml) <forecastSelectionPeriod unit="day" start="-3" end="0" startOverrutable="true" endOverrutable="true"/> (code)</p> <p>Manually setting of the relativeViewPeriod of the</p>			RWS

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 T0 + end of the lead time period. Otherwise the number of samples is stored at T0 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" calculateVariableId="calculated" observedVariableId="observed" outputVariableId="output" sampleOutputVariableId="sampleOutput"> </leadTimeAccuracyIndicator> </code> <leadTimePeriod start="0" end="1" outputVariableId="output1"/> <leadTimePeriod start="0" end="4" outputVariableId="output4"/> </leadTimePeriods> </code> The number of samples is also stored in time series per lead time period: {code:xml} <leadTimeAccuracyIndicator indicatorType="meansquareerror" calculateVariableId="calculated" observedVariableId="observed" outputVariableId="output" sampleOutputVariableId="sampleOutput"> </leadTimeAccuracyIndicator> </code> <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> </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 number(format), dateFormat() 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 Id's but with a different content in the display with scadaPanelId When using scadaPanelId, then all scadaPanels should have a unique Id. If there are any duplicates, then the first scadaPanel found is used.	<pre> scadaPanelId.xml : {code:xml} <scadaDisplay xmlns="http://www.wildelf.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wildelf.nl/fews http://www.wildelf.nl/schemas/version1.0/scadaDisplay.xsd"> <displayName>ID</displayName> <showTimeNavigatorToolBar> </showTimeNavigatorToolBar> <timeNavigatorRelativePeriod unit="day" start="-1" end="0"/> <timeNavigatorTimeStep unit="hour"/> </showTimeNavigatorToolBar> <backgrondColor>gray</backgrondColor> <scadaPanelId panelId="scadaPanel1" scadaPanelId="scadaPanel1" </scadaDisplay> </code> Example from Reports.xml: {code:xml} <schematicStatusDisplayPanelSnapshot> <variable> <variableId>obsmeasured</variableId> <timeSeriesId> <moduleInstanceId>Import</moduleInstanceId> <realTimeSeriesId>valueType <parameterId>E0</parameterId> <locationId>ReportLocation</locationId> <timeSeriesType>external</timeSeriesType> <timeStep unit="hour"/> <relativeViewPeriod unit="hour" start="-10" end="0"/> <readMode>read</readMode> </timeSeriesId> </variable> </scadaPanelId>scadaPanel1_01</scadaPanelId> </variable> </scadaPanelId> </pre>		RWP
FEWS-12207	Plugin - Module - Reports	FEWS-12202 extend functionality rowperLocationHmiTable	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 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: H.m numberFormat1) Usage in Scada: STATISTICS(MEAN IgnoreMissings: numberFormat1)</p>	<pre> rowidth=1200x/width </pre>		APP

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<p>FEWS-11263</p>	<p>Plugin - Module - Reports</p>	<p>FEWS 16663 Quebec: new report tag for userId who generated a certain workflow</p>	<p>Report tag WORKFLOW(key, workflow id, format id)</p>	<p>This function provides properties of the most recent run of the workflow configured with workflowId. 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:</p> <p>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>		<p>Quebec</p>
<p>FEWS-16278</p>	<p>Plugin - Module - Statistics</p>	<p>FEWS 16132 FB09 IT542046: Daily Aggregation Button does not appear to aggregate according to the parameter type</p>	<p>The CalendarAggregation function has now the option to accumulate according to parameter type: SUM (accumulative), MEAN (mean) or LAST_VALUE (instantaneous)</p>	<p>The CalendarAggregation function has now the option to accumulate according to parameter type: SUM (accumulative), MEAN (mean) or LAST_VALUE (instantaneous)</p>		<p>BPA</p>
<p>FEWS-12686</p>	<p>Plugin - Module - Thresholds</p>	<p>FEWS 16315 HyFS-alerts: Improve logging of threshold crossing</p>	<p>More information in threshold crossing logs + improved logging of action events</p>	<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 locationAttributes keys 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] <!--thresholdValueSet id="Observed" name="Observed water levels" --> <description>level threshold values should be specified ascending according to the element 'value' </description> <standDownIndividualLocations>true</standDownIndividualLocations> <locationAttributeKeys> <attributeKey>att1</attributeKey> <attributeKey>att2</attributeKey> </locationAttributeKeys> <relativeViewPeriod unit="hour" multiplier="6" /> <rateThresholdValue> <rateThresholdEnhancedRate>/rateThresholdId</rateThresholdValue> </rateThresholdValue> <upActionLogEventTypeId>Action.RateEnhanced</upActionLogEventTypeId> <downEventTypeId>Action.RateStandDown</downEventTypeId> <timespan unit="hour" /> </rateThresholdValue> <rateThresholdValue> <rateThresholdEnhancedRate</rateThresholdId</rateThresholdValue> </rateThresholdValue> <upActionLogEventTypeId>Action.RateEnhanced</upActionLogEventTypeId> <downEventTypeId>Action.RateStandDown</downEventTypeId> <timespan unit="hour" /> </rateThresholdValue> </thresholdValueSet> <moduleInstanceId>RateThreshold</moduleInstanceId> <valueType>accular</valueType> <parameterID>obs</parameterID> <locationId>LocationWithAttributes</locationId> </thresholdValueSet> <timeSeriesType>external</timeSeriesType> <timeSeriesType>external</timeSeriesType> <timeSeriesType>external</timeSeriesType> <relativeViewPeriod unit="hour" start="0" end="12" /> <readWriteMode>read-only</readWriteMode> </timeSeriesSet> </thresholdValueSet> [/code]</pre>	<p>BoM (Aus)</p>
<p>FEWS-16287</p>	<p>Plugin - Module - Thresholds</p>	<p>FEWS 16315 HyFS-Alerts: Simplify standdown activity in threshold module</p>	<p>Added option to issue StandDown events individually</p>	<p>With the option 'standDownIndividualLocations' in the ThresholdValueSet file it is now possible to issue standdown events for individual locations instead of issuing a standdown only when entire catchment is stood down.</p>	<pre>[code] <!--thresholdValueSet id="Observed2" name="Observed water levels" --> <description>level threshold values should be specified ascending according to the element 'value' </description> <standDownIndividualLocations>true</standDownIndividualLocations> <levelThresholdValue> <levelThresholdEnhancedLevel</levelThresholdId</levelThresholdValue> </levelThresholdValue> <upActionLogEventTypeId>Action.Enhanced</upActionLogEventTypeId> <downActionLogEventTypeId>Action.StandDown</downActionLogEventTypeId> </levelThresholdValue> </thresholdValueSet> <moduleInstanceId>LevelThreshold</moduleInstanceId> <valueType>accular</valueType> <parameterID>obs</parameterID> <locationId>Location</locationId> </thresholdValueSet> </thresholdValueSet> </thresholdValueSet> </thresholdValueSet> [/code]</pre>	<p>BoM (Aus)</p>

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FEWS-17153	Plugin - Module - Transformation	FEWS-17145 Transformation Module - Merge simple optimization	new merge transformation MergeInterpolation	This transformation can be used to merge multiple input grids to a single output grid. More detailed information can be found at: https://publicwiki.deltaware.nl/display/FEWSDOC/Merge+Interpolation	<pre> [code]<transformation id="merge interpolation example"> <merge> <interpolation> <inputVariable> <variableId>input</variableId> </inputVariable> <interpolationType>lowestDistance</interpolationType> <outputVariable> <variableId>output</variableId> </outputVariable> </interpolation> </merge> </transformation>[code] </pre>			
FEWS-17170	Plugin - Module - Transformation	Configure keywords for transformation elements	added possibility to provide a property (S) to several transformation config elements	Added possibility to provide a property (S) to the following elements: <ul style="list-style-type: none"> * InputNetworkActivity -> maximumSnapDistance & maximumVerticalSnapDistance * TimeSeriesImportGeneral -> maximumSnapDistance & maximumVerticalSnapDistance * InterpolationSpatialClosestDistance -> searchRadius & distanceGeoDatum * InterpolationSpatialVerticalProfileClosestDistance -> searchRadius & distanceGeoDatum * InterpolationSpatialThiessenPolygon -> distanceGeoDatum * InterpolationSpatialInversDistance -> searchRadius & distanceGeoDatum * InterpolationSpatialSnapTrackLocations -> maximumSnapDistance * TimeSeriesConstant -> numberOfTimeSteps 			Deltaware	
FEWS-18053	Plugin - Module - Transformation	FEWS-14299 FTFS: Allow use of multiple coordinates for locations	added possibility to overwrite location coordinates via attributes to closestDistance transformation	The spatial interpolation transformation <closestDistance> now has two additional optional elements <overrulingAttribute> and <overrulingAttributes>. If these are configured, the attribute value is used instead of the location coordinate if present, i.e. if the location has this attribute and has a value for the attribute. Otherwise, the regular coordinate is used. This is done for both input and output variables.	<pre> [code]<xml> <transformation id="ClosestDistanceWithOverrulingCoordinates"> <interpolationSpatial> <closestDistance> <inputVariable> <variableId>input</variableId> </inputVariable> <overrulingAttribute>ALT_X</overrulingAttribute> <outputVariable> <variableId>output</variableId> </outputVariable> </closestDistance> </interpolationSpatial> </transformation> [code] </pre>	https://publicwiki.deltaware.nl/display/FEWSDOC/InterpolationSpatialClosestDistance	SA	
FEWS-18092	Plugin - Module - Transformation	FEWS-14299 FTFS: New Raingaug weighting function	added option to use multi-value attributes to decide inputs for weighted average transformation	The existing InterpolationSpatial - weighted transformation was expanded to allow specifying the input locations and their weights through two multi-value attributes of the output location. This means the module config file no longer needs to contain a transformation for each combination of inputs and output, but a single transformation using locationSets can be configured.	<pre> [code]<xml> <transformation id="interpolation spatial weighted"> <interpolationSpatial> <weighted> <inputVariable> <variableId>input</variableId> </inputVariable> <attributeOutputVariable> <variableId>output</variableId> </attributeOutputVariable> <locationIdAttribute>LIDS</locationIdAttribute> <weightAttribute>weightAttribute</weightAttribute> </weighted> </interpolationSpatial> </transformation> [code] </pre>	https://publicwiki.deltaware.nl/display/FEWSDOC/InterpolationSpatialWeighted	SA	
FEWS-17112	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] <transformConfigurationModule schema="http://www.widelife.nl/fees" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.widelife.nl/fees http://www.widelife.nl/fees/xsd" version="1.0"> <preserveManualEdits>false</preserveManualEdits> [code] </pre>		https://publicwiki.deltaware.nl/display/FEWSDOC/TransformationModule+Improvements+Manual+Edits	TVA
FEWS-16869	Plugin - Module - Transformation	New transformation: copy a (ZD) 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 view period of another time series. The transformation can be used for scalar and grids.	<pre> [code] <config example is available in the documentation! https://publicwiki.deltaware.nl/display/FEWSDOC/sampleSingleTimeStep [code] </pre>	https://publicwiki.deltaware.nl/display/FEWSDOC/sampleSingleTimeStep	RWS (NL)	

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FEWS-1604	Plugin - Module - Transformation	FEWS 17266: VIA: 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.	Example lookup based on 1 input value <pre> http://publicwiki.deltare.nl/display/FEWSDOC/TwoDimensional+lookupusingLookupTables.xmlfromRegionConfig [Code] <?xml version="1.0" encoding="UTF-8"?> <transform:LookupModule xmlns="http://www.w3.org/2003/05/Schema-Instance" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.w3.org/2003/05/Schema-Instance" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance"> <variable> <variableId>scalar1</variableId> <moduleInstanceId>SimpleLookupFromPITableTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>inputParameterId</parameterId> <locationId>2002</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep>unit="nosequidistance"/> <relativeViewPeriod unit="day" start="-1" end="6"/> <readMode>add original</readMode> </variable> </variable> <variable> <variableId>scalar2</variableId> <moduleInstanceId>SimpleLookupFromPITableTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>outputParameterId</parameterId> <locationId>2002</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep>unit="nosequidistance"/> <relativeViewPeriod unit="day" start="-1" end="6"/> <readMode>add original</readMode> </variable> </variable> <transform id="simpleLookupFromPITable"> </pre>	https://publicwiki.deltare.nl/display/FEWSDOC/TwoDimensional+lookupusingLookupTables.xmlfromRegionConfig	VIA
FEWS-18102	Plugin - Module - Transformation	Covadem: spatiaal interpolatie van p-de percentiel boodemligging 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.deltare.nl/display/FEWSDOC/trackToGrid	Covadem
FEWS-18101	Plugin - Module - Transformation	Covadem: interpoleer tijd en plaats van grid of profiel tijdserie naar bestand track layer tijdseries	A new interpolation transformation "LongitudeProfileToTrack" 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.deltare.nl/display/FEWSDOC/trackToGrid	Covadem
FEWS-12153	System	FEWS 16767 Replace JMS messages between MC and MC Proxy with entry in ForecastingShells table					Deltares - Roadmaps
FEWS-12152	System	FEWS 16767 Create overview of all places where and which JMS messages are sent					Deltares - Roadmaps
FEWS-12156	Database - System	FEWS 16767 Create Data_Sql_jar					Deltares - Roadmaps
FEWS-12166	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 "ini"	fews.sh script improved	De Linux fews.sh script now by default has 1024Mbyte op max heap space.		https://publicwiki.deltare.nl/display/FEWSDOC/02-Linux/ini-fews	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 the 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.deltare.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.deltare.nl/display/FEWSDOC/FEWS-PI-REST-Web-Service	<pre> [Code] curl "http://localhost:8080/fewsWebServices/rest/fews/locations?showAttributes=true&documentVersion=1.24" [Code] </pre>		Deltares
FEWS-16075	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.deltare.nl/display/FEWSDOC/FEWS-PI-XM-REST-service	Deltares - Roadmaps

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FEWS-11639	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.delft.nl/display/FEWSDOC/FEWS-PI.XML+REST+service	Delftares - Roadmaps
FEWS-12053	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.delft.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-12070	System - PI Service	Retrieve manual edits from PIService	Added argument to getTimeSeries 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-12801	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.			Delftares - Roadmaps
FEWS-16446	System - Synchronisation	FEWS-16767 Data clientConfig.xml jms configuration JMSServerInfo@ComplexType has no option to specify timeout		Not relevant anymore since JMS has been removed	Not relevant anymore since JMS has been removed		Delftares - 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			Delftares - Roadmaps