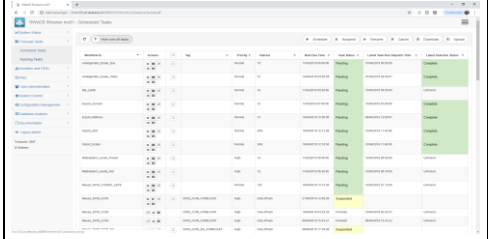

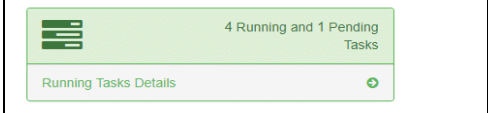

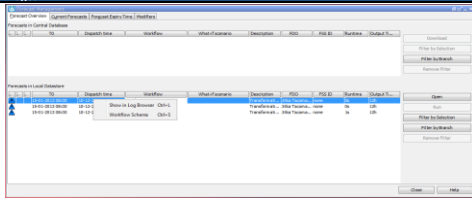


Delft-FEWS 2018.02 Solved Features

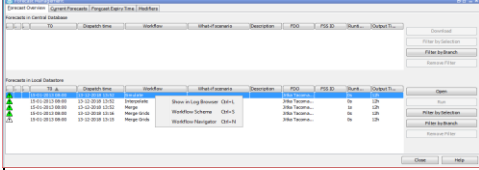
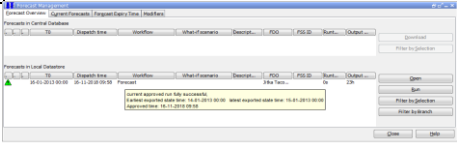
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Admin Web User Interface	FEWS-20152	Migrate Scheduling and Mapping settings to 2018.02					
App - Admin Web User Interface, System	FEWS-16778	FEWS-18477 Orchestrator - Expansion of existing FSS workflow mapping semantics (A.2)					
App - Admin Web User Interface	FEWS-14914	FEWS-17874 AI: Verification of the Event Action setup via Admin Interface.			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS-17877	FEWS-17874 AI: Download option for Event Action Mappings			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS-19588	FEWS-17874 Maintenance Mode cannot be handled on login screen anymore			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control		
App - Admin Web User Interface	FEWS-17878	FEWS-17874 AI: Download option for Action Configuration			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS-19593	FEWS-17874 Naming of Clear Caches			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control		
App - Admin Web User Interface	FEWS-15958	FEWS-9556 RWSOS Algemeen - M161016479\01: suggestions for improvements AI 1					
App - Admin Web User Interface	FEWS-17914	In roadmap, add functionality to REST webservice to retrieve log information	Admin Interface API	With the admin interface api it is now possible to get logs, workflow meta data information etc. Almost all functionality of the Admin Interface is exposed as an API			
App - Admin Web User Interface	FEWS-16852	Admin Interface: button to cancel all scheduled tasks	All scheduled tasks can be removed now	All scheduled tasks can be removed now			
App - Admin Web User Interface	FEWS-15852	FEWS-17266 AI: filter off the one-off tasks from the "Scheduled Task" section	Filter off the one-off tasks from the "Scheduled Task" section in AI	Filter off the one-off tasks from the "Scheduled Task" section in AI can be toggled. By default on-off tasks will be hidden. The settings will be stored in the local storage of the browser (not a cookie). As long as you use the same browser, the setting will be remembered.	https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Forecast+Tasks		
App - Admin Web User Interface	FEWS-20056	AI: Examples of using the REST interface for querying status information					
App - Admin Web User Interface	FEWS-13263	FEWS-18957 NWS: #23347 (FB93) Restrict User Access and Permissions to Administrator Interface					
App - Admin Web User Interface	FEWS-20225	AI: add name of running task in dashboard	Currently running tasks now visible in status page	On the status display in the FSS list that currently running workflow on an FSS is displayed			
App - Admin Web User Interface	FEWS-20111	FSS group cannot be removed if used by a FSS once					
App - Admin Web User Interface	FEWS-20486	AI: Improve wording/explanation for Scheduled Task - Run Options					
App - Admin Web User Interface	FEWS-20496	FEWS-18050 AI: Scheduled Tasks page - show taskruns after clicking workflow name (left column)					
App - Admin Web User Interface	FEWS-20219	FEWS-19650 AI laat FSS'en zien die niet meer bestaan					
App - Admin Web User Interface	FEWS-20026	FEWS-19650 Admin Interface should keep session alive					
App - Admin Web User Interface	FEWS-20094	FEWS-19650 Add Documentation Menu entries to Wiki and API documentation in admin interface					
App - Admin Web User Interface	FEWS-20195	FEWS-19650 AI: Show Pending Tasks in Dashboard	pending and running tasks visible on status page	Both the number of pending and running tasks are visible in the admin interface.			
App - Admin Web User Interface	FEWS-15704	FEWS-17874 Button to remove all workflow FSS mappings on Admin Interface	Remove all Workflow mappings	All workflow mappings can be removed. During upload a checkbox is available as well that allows you to remove all existing mappings as well	https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS-17824	FEWS-17874 AI: Workflow mappings [all one-at-a-time] with FSS Groups (TVA)			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS-19401	FEWS-17874 Create Authorization Matrix	Matrix created.	Matrix created.			

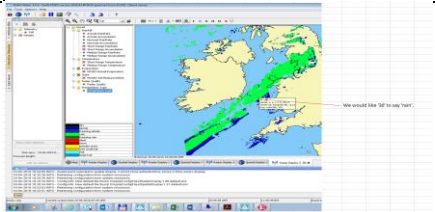
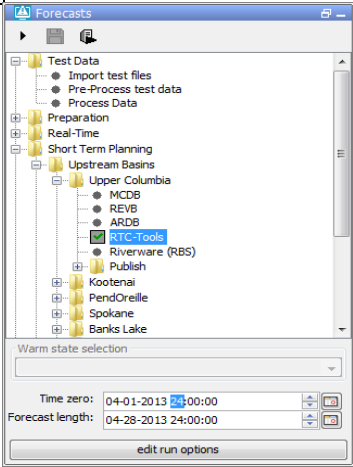
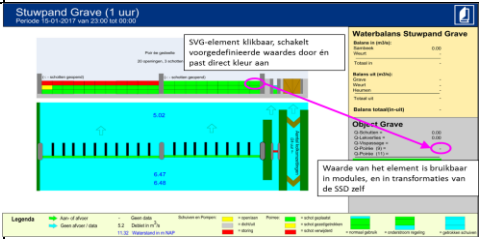
Delft-FEWS 2018.02 Solved Features

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Admin Web User Interface	FEWS-19949	FEWS-17874 Add support for uploading Config Manager Patch			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Configuration+Management		
App - Admin Web User Interface	FEWS-19658	FEWS-17874 Schedule Task select TAG from dropdown list		A tag dropdown list is displayed if an tags are configured in the action configuration.	https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+ESSs		
App - Admin Web User Interface	FEWS-19400	FEWS-17874 Incorporate Tomcat 9 for Admin Interface Developments					
App - Archive	FEWS-18910	Allow exporting more than 1 LDS snapshot per day in OpenArchive export		It is now possible to export more then 1 snapshot day to the archive.		use the element <allowMultipleDailyExports> to enable exporting multiple snapshots a day to the archive.	
App - Configuration Manager Gui	FEWS-19350	FEWS-18957 NWS: #24358 Integrate - prevent_deletion Option Directly into CM			https://publicwiki.deltares.nl/display/FEWSDOC/2.0.2+Configuration+Manager+-+from+2017.02		
App - Configuration Manager Gui	FEWS-15086	FEWS-18957 NWS: #23445 (FB191) Implement CM Permission System to Restrict User Access to Operational Configuration			https://publicwiki.deltares.nl/display/FEWSDOC/2.0.2+Configuration+Manager+-+from+2017.02		
App - Configuration Manager Gui	FEWS-19643	FEWS-18245 CM should consistently do file diff / compare: old version left, new version right			https://publicwiki.deltares.nl/display/FEWSDOC/2.0.2+Configuration+Manager+-+from+2017.02		
App - Configuration Manager Gui	FEWS-19642	FEWS-18245 CM should import automatically complete config			https://publicwiki.deltares.nl/display/FEWSDOC/2.0.2+Configuration+Manager+-+from+2017.02		
App - Configuration Manager Gui	FEWS-20123	FEWS-19650 FFFS: User ID should have Operator Client or Configuration Manager Info attached	Live system status monitor: users logged in now shows user id + session type (OC, CM, FS etc.)				
App - Data Conversion Module	FEWS-18144	DCM Export: MeteoAlarm (CAP format)	MeteoAlarm Cap export	MeteoAlarm Cap export generates cap files to folder and posts them to SOAP service.	https://publicwiki.deltares.nl/display/FEWSDOC/MeteoAlarmCap		
App - Forecasting Shell Server	FEWS-16783	FEWS-18451 Simplified operation of Delft-FEWS FewsShell component (B.2.A)					
App - Forecasting Shell Server	FEWS-16782	Simplified deployment of Delft-FEWS Forecasting Shell Servers (B.2)					
App - Forecasting Shell Server	FEWS-20007	FEWS-19650 Create Windows Service for FSSLauncher					
App - Forecasting Shell Server, App - Master Controller Server	FEWS-20143	FEWS-18469 Prevent simultaneous runs for certain workflows (import, update runs and amalgamate) - rollback					
App - Forecasting Shell Server	FEWS-20196	FEWS-19650 FSS should be able to belong to different groups	Map or unmap all workflows for a FSS Group	In the workflow mapping matrix the headers now contain a checkbox that can be used to map or unmap all filtered workflows for a FSS group.			
App - Operator Client Gui (Explorer)	FEWS-18669	FEWS-18445 Create icon for locations not existing at system time					
App - Operator Client Gui (Explorer)	FEWS-20124	FEWS-19650 FFFS: When uploading a new Patch.jar the OC has an incomplete message					
App - Operator Client Gui (Explorer)	FEWS-18973	FEWS-18957 NWS: #45907 Ability to adjust only plot axis font size via Explorer Options					
App - Operator Client Gui (Explorer), Plugin - Gui - Time Series Modifier	FEWS-18963	FEWS-18957 NWS: #32929 Ability to maintain local modifiers when using DDA	Saving uncommitted modifiers when using DDA OC	Uncommitted modifiers are stored in the database when using OC. When you are exiting an OC session, you can choose between keeping the uncommitted modifiers in the database or deleting them. When OC crashes, the uncommitted modifiers are not lost since they are available in the database.			
App - Operator Client Gui (Explorer), System	FEWS-19455	Make FEWS look more modern (no borders, use soft colors as background)					
App - Operator Client Gui (Explorer)	FEWS-16781	FEWS-18469 Delft-FEWS-OC-Launcher B.1 - Simplified deployment of Operator Client - Client software wrapper					
App - Operator Client Gui (Explorer), Plugin - Gui - Grid Display	FEWS-19106	Add copyright statements to a maplayers	Add copyright statements to a maplayers		https://publicwiki.deltares.nl/display/FEWSDOC/28+GeoMap+and+28GeoMap+OpenStreetMap+layer		
App - TeamCity	FEWS-19969	FEWS-19650 Basebuild jre packaging should be part of teamcity build proces					

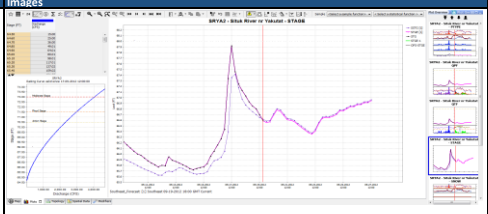
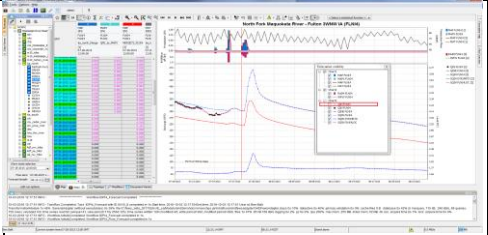
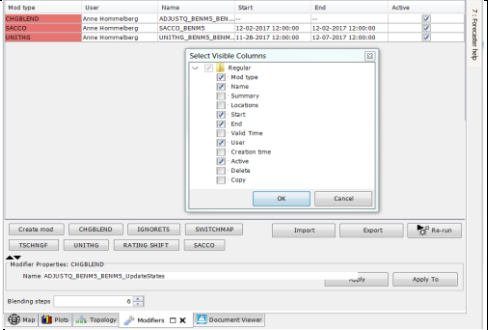
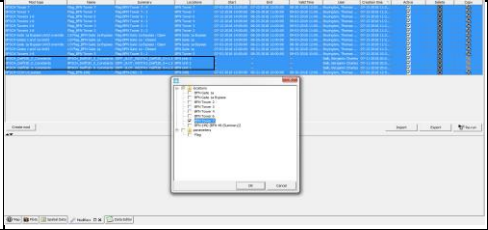
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Configuration	FEWS-19306	Samenhang workflows: Configuratie workflow dependencies	Forecast Management and displaying workflow dependencies	<p>In Forecast Management display a new tab "Workflow schema" can be opened , to see the workflows that have been involved to create a forecast.</p> <p>The "Workflow schema" tab can be opened from the tab "Forecast Overview" or from the tab "Current Forecasts" by selecting a forecast, opening popup menu and selecting menu "Workflow Schema Ctr+H". See picture ForecastManagerPopupMenu.png</p> <p>The "Workflow schema" tab will be added to the Forecast Management and will show the workflow associate with the selected forecast, and all input workflows that have generated input for that forecast. See picture ForecastManagerWorkflowSchemaTab.png</p> <p>Each rectangle represents a workflow. The rectangle is green when the workflow has generated any data. Otherwise the rectangle is gray.</p> <p>To see the time series used in a workflow, select a workflow rectangle, open popup menu and select "Open Workflow Navigator". The WorkflowNavigator will show the selected workflow. Use the WorkflowNavigator popup menu to display the timeseries that are associated with the forecast that has been</p>	https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator		
Configuration	FEWS-19733	FEWS-14299 Allow configuration of rating curve parameters in combination with parameters.csv					
Configuration	FEWS-16983	client.truststore improvements	client.truststore can no longer be configured in the clientConfig.xml	The clientConfig.xml could be configured in 2017.02. Due to cloud requirements it is no longer feasible to support this feature.	https://publicwiki.deltares.nl/display/FEWSDOC/How+to+configure+secure+https+connection+to+Matroos		
Database	FEWS-18257	FEWS-18469 Save user settings in central database			https://publicwiki.deltares.nl/display/FEWSDOC/The+F12+menu		
Database	FEWS-19553	FEWS-13318 HyFS: Make database field for location attribute text modifiers 2000 characters long					
Database	FEWS-19324	Make locationAttributeModifiers text 128 characters instead of 64					
Database	FEWS-20097	FEWS-19650 SystemMetrics depends on view that no longer exist.	See https://publicwiki.deltares.nl/display/FEWSDOC/27+SystemMetrics	<p>The significant changes on the Delft-FEWS architecture for the 2018.02 roadmaps has rendered the FssStatus section meaningless. In below configuration examples it is documented, which configuration elements have been removed from 2018.02 (see "no longer present in 2018.02 and later" comments on this page).</p> <p>In 2018.02 and later, please remove the following elements from the SystemMetrics module configuration file (parameters and filters should probably cleaned up as well) otherwise errors will be logged:</p> <pre><buildVersionParameterId>M.N.build</buildVersionParameterId> <queueLengthParameterId>M.N.fsQL</queueLengthParameterId> <downParameterId>M.N.fsDown</downParameterId></pre>			
Database	FEWS-18465	New MS SQL Server database driver	2018.02 new sqlserver jdbc url	<p>The 2018.02 is shipped with the mssql-jdbc-7.0.0.jre10.jar jdbc driver and the jdbc driver from previous versions is no longer supported. When using SQLServer and migrating to 2018.02 or later, note that the all sqlserver jdbc url's in clientConfig.xml / fews.master.mc.conf must be specified using the format of the mssql driver. See also https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url and https://docs.microsoft.com/en-us/sql/connect/jdbc/setting-the-connection-properties for building the connection string and advanced authentication options. The new format is:</p> <pre>jdbc:sqlserver://<hostname>:<port>;DatabaseName=<dbname></pre>			

Delft-FEWS 2018.02 Solved Features

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Database	FEWS-19779	FEWS-19403 Improve timeseries blob compression for millisecond time series	Support of milliseconds timestep	The nonequistant timestep is now also able to store times with precision up to the milliseconds. The TimeSeriesDisplay automatically displays milliseconds when relevant. To import nonequistant milliseconds with for example the genericCSV importer, simply define a datePattern like {<datePattern>dd-MM-yyyy HH:mm:ss.SSS</datePattern>}, where the .SSS represent the milliseconds.			
Debug Tool - Database Viewer	FEWS-20020	FEWS-19650 DatabaseViewer: add column FSSGroupID in upper overview	DatabaseViewer: added column FSSGroupID in upper overview				
Debug Tool - Workflow Navigator	FEWS-19308	Samenhang workflows: Use dependencies of workflows in workflow navigator	WorkflowNavigator and displaying time series of the specific forecast	Apart from the current time series, the WorkflowNavigator (WFN) can also show the time series of the specific forecast. The forecasts to inspect should be selected in ForecastManager list or in the WorkflowSchema tab of the ForecastManager The following steps describe how to show the time series of the specific forecast in WFN (see OpenWFNFromForecastManager.png) - open WFN (should be configured in Explorer.xml as explorerTask) - open ForecastManager, select a forecast and use forecast popup menu 'Workflow Navigator' And the following steps describe how to show the time series of the specific forecast selected in WorkSchema tab: - open WFN (should be configured in Explorer.xml as explorerTask) - open ForecastManager, select a forecast and use forecast popup menu to open WorkflowSchema tab - select a workflow rectangle and use rectangle popup menu to open the WFN (see picture ForecastManagementWorkflowSchemaPopup.png) - in WFN select a workflow or module and use WFN popup menu to display the time series (see WFN.png)	https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator		
Module Adapter - All	FEWS-19443	Check compatibility all FEWS adapters with Java 11					
Module Adapter - All	FEWS-20342	Add property to WES PreAdapter			https://publicwiki.deltares.nl/display/FEWSDOC/WES+adapter		
Module Adapter - Calibration, Plugin - Module - Modifiers (ModuleParameters)	FEWS-18967	FEWS-18957 NWS: #24409 "Preserve ratio/difference" button does not stay unchecked (calibration)		The user can select in the calibration modifier if the ratio/difference between parameters should be preserved. It is also possible to select per parameter if the ratio, difference or that no relation should be preserved. Prior to this release the settings were lost after pressing the apply-button. The settings are now stored into memory so that during the FEWS session the settings are still available.			
Module Adapter - DFlow-FM	FEWS-19724	Merge DIMR and D-Flow FM Adapter			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19777	FEWS-19724 Implement functionality for piTimeSeriesAsBin string property			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19778	FEWS-19724 Add test case for editing RTC files			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19730	FEWS-19724 Add dimConfig schema and castor build to Dimr Adapter			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19725	FEWS-19724 Create generic DIMR classes next to Sobek3 classes			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19788	FEWS-19724 Ad PI xml time series export files to netcdf run file			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS-19769	FEWS-19724 Add D-Flow FM adapter functionality to DIMR adapter (test case mackay)			https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Plugin - Gui - Forecast Manager	FEWS-18969	FEWS-18957 NWS: #24072 Add ability to see selected run state in Forecast Management hover	Displaying actual used state times in the Forecast Management tooltip	When the individual GeneralAdapter modules contain cold or warm state search periods, then the forecast tooltip shows the earliest and the latest exported state time. An example of this tooltip is shown in the picture ForecastManagementTooltip.png To be able to show the actual used state times, the earliest and the latest exported state time is stored in TaskRunProperties.xml. To inspect the task run properties of a forecast, select a forecast in Database Viewer and use F12-> 6 Open task run properties			

Delft-FEWS 2018.02 Solved Features							
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Forecast Manager	FEWS-19305	Samenhang workflows: Forecast manager log panel	Ability to show the log messages for a workflow selected in Forecast Display	To show the log-message only for a particular workflow, select a workflow in Forecast Display and enter "ctrl L", or choose "Show in Log Browser" from popup menu (right mouse click) Log Browser becomes visible and shows log-messages corresponding to the selected workflow.	https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator		
Plugin - Gui - Grid Display	FEWS-19346	FEWS-11612 Export Frame from Grid to Shapefile					
Plugin - Gui - Grid Display	FEWS-19513	FEWS-18387 Add label to Spatial Display Tooltip	Added label to Spatial Display Tooltip		https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display		
Plugin - GUI - IFD - Forecasts	FEWS-17008	FEWS-16132 HERMES: FB95-TF548635 Make the ST Planning study have a variable start time.		It is now possible to set the time zero of a run by using a modifier, that can be picked up by a forecastLengthEstimator module. This new shiftDateTimeModifier reads the dateTime from a single dateTime location attribute. A default modifierTime can be configured in this modifier to automatically set the time to the desired hour at the current day, or at an offset of the current day. In addition, the value of the defined dateTime can be shown in a custom label in the forecast panel. The forecastLengthEstimator module reads the (modified) dateTime using a new option called setToModifiedDateTimeAttributeComplexType. If the value is not modified a default fallback value will be used, similar to configured in the ShiftDateTimeModifier. More info about the ShiftDateTimeModifier can be found here: https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes Config Example: <code><color:#59afe1>-attributeModifiers> <shiftDateTimeModifier id="StartRun_STPlanning" name="StartRun_STPlanning"> <attributeld-startTime_ST</attributeld> <locationId>BPA</locationId> <defaultModifierTime></code>			
Plugin - Gui - Schematic Status Display	FEWS-16361	Klikbare SSD-elementen, die van kleur veranderen en waarden manipuleren		A new feature has been added to the SSD display (scada) that allows the user to click on an SSD element to step over the possible values in a variable which has been defined as enumerator. This feature can for example be used to control structures, i.e. open & close sluice gates in a system.	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id_15SchematicStatusDisplayformerlyScadaDisplay ; LeftSingleClickActionandLeftDoubleClickActiononfigurationOptions		
Plugin - Gui - Schematic Status Display	FEWS-20024	FEWS-9556 IWP: & in "node name" gives exception onder Windows10 in query to MATROOS	Added a boolean field to importType	noos_1dmapseries that allows to choose between node and node_id in query	https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties		
Plugin - Gui - Time Series	FEWS-19394	FEWS-17996 TVA: Improve TSD to integrate directly with Archive to display selected years of data (enhanced Historical Analysis display)					

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Time Series	FEWS-19080	FEWS-9563 FOEN: add configurable displaygroups feature to make scales identical	add config option to displaygroups to make scales identical	There is a new configuration <syncronizeParameterAxis> element in the DisplayGroups.xml. Configuring this option as true for a plot, will result in synchronized parameter axes for subplots displaying time series of the same parameterGroup. The range of the parameter axes will be identical for these subplots.	https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-plot	In DisplayGroups.xml: <pre><code>xml <plot id="my_plot"> <syncronizeParameterAxis=true</syncronizeP parameterAxis> </subplot> ... </subplot> </subplot> ... </subplot> </plot></pre>	
Plugin - Gui - Time Series	FEWS-18439	Save a set of filtered timeseries to a favorites list					
Plugin - Gui - Time Series, Plugin - Module - Reports	FEWS-18606	FEWS-17996 TVA: area legends do not support "rectangle" markerStyle	Changed legend item for an area to a filled rectangle	When plotting an area (filled area between two time series) the legend item displayed a line. This has been changed to a filled rectangle to better represent the way the data is shown in the graph.			<ul style="list-style-type: none"> ■ 80% of Years Band — 6HR Forecast Headwater [1] — Observed — TOP OF GATES — RZ1 — FG ... SPILLCREST — GC — PBG
Plugin - Gui - Time Series	FEWS-17809	FEWS-17996 TVA Hydrothermal: new TSD timeline plot (color-coded time x-axis; similar to raster hydrographs)	New "horizontalColorCode" subPlotType, plot a horizontal colored bar for each time series	A new <subPlotType> called "horizontalColorCode" was added. In a plot of this type, each time series is drawn as a horizontal bar. The color of the bar differs depending on the value of the time series. As part of this development, one can now also specify a <barMarginPercentage> for each subPlot in the DisplayGroups.xml separately, overruling the already present config option in the generalDisplayConfig of the TimeSeriesDisplayConfig.xml.	https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-horizontalColorCode	<pre><code>xml <plot id="HorizontalColorCodePumps"> <description>testing the horizontal color code plots</description> <subplot> <subPlotType>horizontalColorCode</subPlotType> <barMarginPercentage>30</barMarginPercenta ges<!-- Optional config option to have whitespace between bars --> <classBreaksId>TOWER_CLASS_BREAKS</classBr eaksId> <timeSeriesSet> <moduleInstanceld>Preprocess_Units_HTMSc/ moduleInstanceld> <valueType>scalars</valueType> <parameterId>PO_BFN</parameterId> <locationId>BFN Tower 1</locationId> <locationId>BFN Tower 2</locationId> <locationId>BFN Tower 3</locationId> <locationId>BFN Tower 4</locationId> <locationId>BFN Tower 5</locationId> <locationId>BFN Tower 6</locationId> <locationId>BFN Tower 7</locationId> <timeSeriesType>simulated forecasting</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <readWriteMode>read only</readWriteMode> </timeSeriesSet> </subplot></pre>	<p>BrownsFerry_Forecast: [1] Plant_Configuration 12-30-2017 09:00:00 CST Local</p>

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Time Series	FEWS-19360	FEWS-18957 NWS: #22589 Rating Display: Flood Thresholds are vertical lines when displaying a discharge plot	TimeSeriesDisplay config file: new option 'thresholdType' in ratingCurveDisplayConfig	By default rating curve display shows the same threshold type as in the (scalar) chart. For example, if the chart shows discharge thresholds, the rating display shows discharge thresholds too. To change the default behaviour, an option 'thresholdType' can be used. Use <thresholdType>stage</thresholdType> if always stage threshold should be visible, and use <thresholdType>discharge</thresholdType> if always discharge threshold should be visible.	https://publicwiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration	Example from TimeSeriesDisplay config file: (code) <ratingCurveDisplayConfig> <stageAxisOrientation>vertical</stageAxisOrientation> <thresholdType>stage</thresholdType> </ratingCurveDisplayConfig> (code)	
Plugin - Gui - Time Series	FEWS-19439	Possibility to display both time series and their legends in a consistent way	DisplayGroups – option drawingOrderInverted in subplots	The subplot option 'drawingOrderInverted' can be used to invert drawing order of the lines. By default the lines are drawn in the same order as shown in the legend : the first line first, the last line last. The last line is then on top. If drawing order is inverted the last line in the legend is drawn first and the first line last. The first line is then on top.			
Plugin - Gui - Time Series	FEWS-19284	FEWS-18957 NWS: #24897 Display time series in table, plot, or both	Added new SubPlotComplexType config. option (default=true). If visibleInTable is set to false, the time series can be shown in the plot, but will never be visible in the table.		https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line		
Plugin - Gui - Time Series	FEWS-19470	Make vertical station lines optional in longitudinal plot	Make vertical station lines optional in longitudinal plot		https://publicwiki.deltares.nl/display/FEWSDOC/02+LocationSets#id-02LocationSets-chainageLabelLocationAttributeId		
Plugin - Gui - Time Series Modifier	FEWS-16035	FEWS-17996 TVA. ability to configure or define which column field are visible in mod display summary	Add ability for the user to influence the modifier table layout	The modifier table shown in the modifiers panel already had a context-menu (right-click) option to add user defined description columns. This option has been changed to "Select Columns", to allow the user to show / hide the regular columns in addition to the user defined description columns. The column visibility and order is stored in the user settings. The columns can be reordered by dragging the column header to a different position.	https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		
Plugin - Gui - Time Series Modifier	FEWS-16036	FEWS-17996 TVA. Filter on multiple location or parameters in modifier display summary		It is now possible to filter the modifiers by selected locations or parameters. The context menu in the modifiers panel now has a new option "filter by selected locations and/or parameters". After selecting this option a display will appear which shows the available locations and parameters. This display can be used to select the locations and parameters by which the modifiers should be filtered.	https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		
Plugin - Gui - Web Browser Display	FEWS-19386	FEWS-19373 Backwards compatibility EWB Display with new JX/JCFE package			https://publicwiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display		
Plugin - Gui - Web Browser Display	FEWS-20110	FEWS-19650 Enable "display config" for Web Browser Display					
Plugin - Gui - Web Browser Display	FEWS-20362	FEWS-19373 Chromium embedded framework (JCFE) update warning					
Plugin - Module - Archive	FEWS-18128	FEWS-17996 TVA: Config option to indicate archive export to occur at subworkflow instead of main workflow level					
Plugin - Module - Archive	FEWS-20239	Only reindex observed meta data					
Plugin - Module - Archive	FEWS-20151	Java11 and Elastic: connection settings					

Delft-FEWS 2018.02 Solved Features


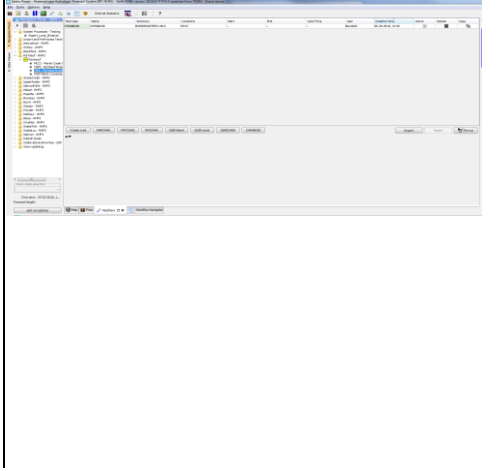
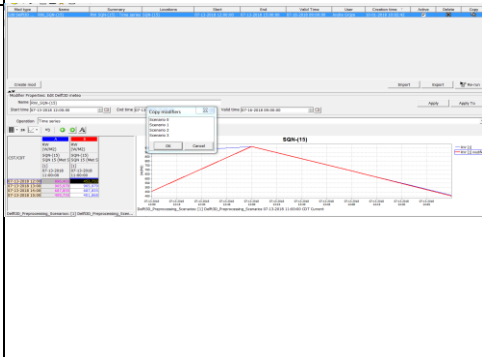
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Data Export	FEWS-18957	FEWS-18957 NWS: #38123 Addition of displayValueResolution for better control over precision of PIXML and SHEF exports	Add option to configure precision to export module	A <precision> can now be configured in an export module config file in the <general> section. This <precision> can be used set the number of decimals in the exported values.	https://publicwiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-precision	<pre> <code>xml <export> <general> <exportType>PIL</exportType> <exportMissingValueString> 999.999</exportMissingValueString> <precision>3</precision> </general> ... </export> </pre>	
Plugin - Module - Data Export	FEWS-20232	Add Geodatum to timeseries export configuration					
Plugin - Module - Data Export	FEWS-18974	FEWS-18957 NWS: #54049 Add <Part A> field to HexDss export					
Plugin - Module - Archive, Plugin - Module - Data Export	FEWS-17916	FEWS-16132 HERMES: Magic Button for Local Archive in 2018 build					
Plugin - Module - Data Import	FEWS-19357	FEWS-18957 NWS: #46492 Expand the shef import capabilities to include .B and .BR data fields			https://publicwiki.deltares.nl/display/FEWSDOC/SHEF+-+Standard+Hydrometeorological+Exchange+Format		
Plugin - Module - Data Import	FEWS-19335	FEWS-19535 NOE: questions about handling BIL files in import module and GA module	A new importer for BIL / BIP / BSQ format according to ESRI specifications		https://publicwiki.deltares.nl/display/FEWSDOC/BIP+BIP+BSQ+Parser		
Plugin - Module - Data Import	FEWS-19501	Enable OAuth2 in existing WaterML2 import			https://publicwiki.deltares.nl/display/FEWSDOC/WaterML2import#WaterML2import-BasicAuthentication	<pre> Configuration before 2017.02 {code} <timeSeriesImportRun xmlns="http://www.widelft.nl/feWS" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.widelft.nl/feWS http://feWS.widelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <import> <general> <parserClassName>nl.widelft.waterml.timeseries.parsers.WaterMLServerParser</parserClassName> <binDir>%REGION_HOME%/Modules/bin/waterml-bin</binDir> <serverUrl>https://hicws2.vlaanderen.be/KIWIS/KIWIS</serverUrl> <user>**** user id ****</user> <password>**** user secret ****</password> <relativeViewPeriod start="-96" startOverrulables="true" end="0" unit="hour"/> <idMapId>idimportWML_h</idMapId> <unitConversionsId>importUnitConversions</unitConversionsId> <missingValue>999.0</missingValue> <importTimeZone> <timeZoneOffset>+00:00</timeZoneOffset> </importTimeZone> </pre>	
Plugin - Module - Data Import	FEWS-19254	FEWS-18236 Add extent argument to WIWB grid imports			https://publicwiki.deltares.nl/display/FEWSDOC/WIWB		
Plugin - GUI - Sample Viewer, Plugin - Module - Data Import	FEWS-17770	FEWS-17944 Request to overwrite existing sample with new time			https://publicwiki.deltares.nl/display/FEWSDOC/WOCV		
Plugin - Module - Data Import	FEWS-18914	FEWS-18236 Validate on invalid aggregation periods			https://publicwiki.deltares.nl/display/FEWSDOC/WIWB		
Plugin - Module - Data Import	FEWS-17772	FEWS-17944 Request to overwrite existing sample with new location			https://publicwiki.deltares.nl/display/FEWSDOC/WOCV		
Plugin - Module - Data Import	FEWS-18533	FEWS-18236 Only request data that is not imported in FEWS yet.			https://publicwiki.deltares.nl/display/FEWSDOC/WIWB		
Plugin - Module - Data Import	FEWS-20327	FEWS-18236 Improve WIWB import with check on availability before requesting data					

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Data Import	FEWS-19668	Import of RAW binary data			https://publicwiki.deltatres.nl/display/FEWSDOC/EARS+Satellite+Rainfall+Image	<pre><?xml version="1.0" encoding="UTF-8"?> <timeSeriesImportRun xmlns="http://www.wildelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema a-instance" xsi:schemaLocation="http://www.wildelft.nl/fe ws http://fews.wildelft.nl/schemas/version1.0/time SeriesImportRun.xsd"> <import> <general> <importTypes>EARS_Satellite_Rainfall_Estimate< /ImportType> <folder>\${IMPORT_FOLDERS}\SATH</folder> <fileName>ObservationDateTimePattern>NI_YYY yMMdd'.prc</fileName>ObservationDateTimePa ttern> <unitConversionsId>ImportUnitConversions</un itConversionsId> <importTimeZone> <timeZoneOffset>+00:00</timeZoneOffset> </importTimeZone> <geoDatum>WGS 1984</geoDatum> <dataFeedId>SATH_AFRICA</dataFeedId> </general> <timeSeriesSet> <moduleInstanceId>ImportSATH</moduleInstan ceId> <valueType>grid</valueType> <parameterId>P</parameterId></pre>	
Plugin - Module - Data Import	FEWS-18964	FEWS-18957 NWS: #36265 Expand supported variables in NetCDF timeseries imports	Import type NETCDF-CF_TIMESERIES recognizes variable name 'feature_id' as variable that stores station id's	Import type NETCDF-CF_TIMESERIES recognizes variable name 'feature_id' as variable that stores station id's. The variable 'feature_id' don't necessarily need to have an attribute 'cf_role = "timeseries_id"			
Plugin - Module - Data Import	FEWS-18996	New import for SMN ETA based on previous UruguaySMNETA	EtaSmn Import type	<p>EtaSmn imports gridded time series from asci file format.</p> <p>File example :</p> <pre>{code} lon lat p01 p02 p03 p04 p05 p06 -56.9874 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 -56.9250 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 -56.8625 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 {code}</pre> <p>The forecast time is read from the file name. The file name should comply with the following file name pattern: ??????????yyyyMMddHH?????, for example Datos_WRF_2018062000.txt.</p> <p>Event times are stored in the column headers p01, p02,... where the numbers correspond to the hours. The dates/times are always in GMT. This reader needs a geometry configured in the region.conf</p>			

Delft-FEWS 2018.02 Solved Features

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Data Import, Plugin - Module - Transformation	FEWS-19045	RWSOS Waterbeheer: process to sort and select a subset of ensemble members and process to do following transformations with said subset	New transformation type <generationEnsemble> <selectRankedMembers>	This transformation first selects ensemble member id's, using the time series configured with element 'rankingVariable'. 'rankingVariable' should be an ensemble timeseries and each member should have only one value. For example, the value can be a result of the statistical analysis of the ensemble member. Transformation <selectRankedMembers> sorts (asc or desc) the 'rankingVariable' ensemble members according to this value. Then, if for example 2 is configured with <numberOfMembers>, first two ensemble member id's are selected. The selected member id's are used to copy the associated members from the input time series to the output ensemble time series. The resulting time series contains only the selected ensemble member id's.	https://publicwiki.deltares.nl/display/FEWSDOC/GenerationEnsemble+Transformation	<pre>(code:xml) <transformation id="selectMembers"> <generationEnsemble> <selectRankedMembers> <selectVariable> <rankingVariable> <variableId>Pmean</variableId> </rankingVariable> <sortAscending>true</sortAscending> <numberOfMembers>2</numberOfMembers> </selectVariable> <inputOutput> <inputVariable> <variableId>Hm</variableId> </inputVariable> <outputVariable> <variableId>Hsim</variableId> </outputVariable> </inputOutput> <inputOutput> <inputVariable> <variableId>Qm</variableId> </inputVariable> <outputVariable> <variableId>Qsim</variableId> </outputVariable> </inputOutput> </inputOutput></pre>	
Plugin - Module - Data Import	FEWS-19157	New Import type: NEA real-time measurements from data.gov.sg	New importer for Singapore real-time weather data from NEA (National Environmental Agency)		https://publicwiki.deltares.nl/display/FEWSDOC/SingaporeNEA+Import		
Plugin - Module - Data Import	FEWS-19625	LocationsHeaderCsv: skip last column when empty while importing CSV file					
Plugin - Module - Data Import	FEWS-19601	Extend get_maps1d_series with ensemble retrieval	Extended get_maps1d_series parser with ensemble retrieval, to be configured in properties		https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties		
Plugin - Module - Data Import	FEWS-19612	parser KIWIS webservice	parser KIWIS webservice		https://publicwiki.deltares.nl/display/FEWSDOC/Kiwis		
Plugin - Module - Data Import	FEWS-19505	Environment Canada xml parser	created Environment Canada xml parser		https://publicwiki.deltares.nl/display/FEWSDOC/CanadaMeteo		
Plugin - Module - Data Import	FEWS-19353	FEWS-18957 NWS: #46281 Enhance the ImportDataCard module to allow for preceding 0 in date column	Enhance the ImportDataCard module to allow for preceding 0 in date column				
Plugin - Module - Data Import	FEWS-19561	Parser Port of Rotterdam service			https://publicwiki.deltares.nl/display/FEWSDOC/RotterdamPort		
Plugin - Module - Data Import	FEWS-19433	Improve authentication for import AKVO (API)	Akvoimport now supports AkvoFlow api v2	Akvoimport now supports AkvoFlow api v2.	https://publicwiki.deltares.nl/display/FEWSDOC/Akvo		
Plugin - Module - Data Import	FEWS-17164	FEWS-17145 Import Module: CMEMS ocean model data (forecast - 2D)			https://publicwiki.deltares.nl/display/FEWSDOC/CMEMS		
Plugin - Module - Error Correction	FEWS-18483	FEWS-18050 FFFS: Allow use of attributes in Error module parameters			https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8683839	<pre>(code:xml) <autoOrderMethod> <orderSelection>@ORDER_SELECTION@</orderSelection> <parameters> <parameter type="ar" order="1">@AR_1@</parameter> <parameter type="ar" order="2">@AR_2@</parameter> <parameter type="ar" order="3">@AR_3@</parameter> <parameter type="ma" order="1">@MA_1@</parameter> <parameter type="ma" order="2">@MA_2@</parameter> </parameters> <subtractMean>@SUBTRACT_MEAN@</subtractMean> <boxcoxTransformation>@BOXCOX@</boxcoxTransformation> <lambda>@LAMBDA@</lambda> <observedTimeSeriesId>H.obs</observedTimeSeriesId> <simulatedTimeSeriesId>H.sim</simulatedTimeSeriesId> <outputTimeSeriesId>H.updated</outputTimeSeriesId></pre>	
Plugin - Module - General Adapter	FEWS-19605	Adding checkMissing to exportnetcdfactivity					
Plugin - Module - General Adapter	FEWS-19393	FEWS-17996 TVA: add new config option to GA to ignore missing shapefiles in ImportShapeFileActivity	Added check, if import shapefiles folder is empty, there is no exception thrown.		https://publicwiki.deltares.nl/display/FEWSDOC/05+General+Adapter+Module#id:05GeneralAdapterModule.ImportShapeFileActivity		
Plugin - Module - Interpolation, Plugin - Module - Lookup	FEWS-19416	3D dataset lookup and interpolation module	3D dataset lookup and interpolation module		https://publicwiki.deltares.nl/display/FEWSDOC/Three+dimensional+lookup		
Plugin - Module - Modifiers (ModuleParameters)	FEWS-19554	FEWS-13318 HyFS: Option to select all in modifier display			https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		

Delft-FEWS 2018.02 Solved Features

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Modifiers (ModuleParameters)	FEWS-18968	FEWS-18957 NWS: #23360 SACCO climatology enhancements			https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes		
Plugin - Module - Modifiers (ModuleParameters)	FEWS-18962	FEWS-18957 NWS: #36283 Enhancement request to have ability to limit locationAttributeModifiers (ADJUSTQ) to the active segment	Topology option attributeModifierLocationConstraint to limit locationAttributeModifiers	By default all locations from a workflow or display tied to a segment will become available in locationAttributeModifiers. To limit the locations, the option <attributeModifierLocationConstraint> can be used.	https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes	An example from Topology.xml: <pre>(code:xml) <nodes id="Portneuf - RHFS"> <nodes id="Portneuf" name="Portneuf"> <showModifiers>true</showModifiers> <workflowId>PORTNEUF_Forecast</workflowId> </nodes> <node id="MCCI_Forecast_Local" name="MCCI - Marsh Creek NR Mccammon"> <locationId>MCCI</locationId> <locationId>MCCI_lo</locationId> <workflowId>MCCI_Forecast</workflowId> </node> <node id="TOPI_Forecast_Local" name="TOPI - Portneuf River at Topaz"> <locationId>TOPI</locationId> <locationId>TOPI_lo</locationId> <workflowId>TOPI_Forecast</workflowId> </node> <node id="PIHI_Forecast_Local" name="PIHI - Portneuf River at Pocatello"> <previousNodeId>MCCI_Forecast_Local</previousNodeId> <previousNodeId>TOPI_Forecast_Local</previousNodeId> <locationId>PIHI</locationId> <locationId>PIHI_lo</locationId> <workflowId>PIHI_Forecast</workflowId> </node> </attributeModifierLocationConstraint></pre>	
Plugin - Module - Modifiers (TimeSeries)	FEWS-19361	FEWS-18957 NWS: #23420 Make it easier to tell if the SWITCHTS mod is going to apply to upper zone, lower zone, or both		It is now possible to reverse the order of the merge by creating location attribute modifiers. More information can be found here: https://publicwiki.deltares.nl/display/FEWSDOC/Simple+Merge	https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes		
Plugin - Module - Modifiers (ModuleParameters), Plugin - Module - Modifiers (TimeSeries)	FEWS-17738	FEWS-17689 TVA Hydrothermal: add ability to copy a selection of modifiers to similar set of mods with different module instances		A new option is added to facilitate copying time series modifiers. The difference between the regular copy-functionality is that the time series modifiers are copied to a similar modifier but that only the module instance id is changed. The new option is available after selecting 1 or more time series modifiers and pressing the right mouse button. The menu which appears will have an option copy selected time series modifiers to another module instance id. If the copyModifiers option is not configured then the new menu option will not be available.	https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes	(code:xml) <pre><copyModifiers> <timeSeriesModifiersPattern> <pattern>_0</pattern> <patternDescription>Scenario 0</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> <pattern>_1</pattern> <patternDescription>Scenario 1</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> <pattern>_2</pattern> <patternDescription>Scenario 2</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> <pattern>_3</pattern> <patternDescription>Scenario 3</patternDescription> </timeSeriesModifiersPattern></pre>	
Plugin - Module - Reports	FEWS-19342	FEWS-13888 HyFS: Generation of 2 new report xml tables with threshold information			https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-forecastThresholdCrossingXml		
Plugin - Module - Reports	FEWS-16384	FEWS-18957 NWS: #24940 Report exports in ESRI shapefile format					
Plugin - Module - Reports	FEWS-19742	FEWS-13888 HyFS: add additional name to the floodScenarioXml report element			https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module		
Plugin - Module - Reports	FEWS-16455	FEWS-18957 NWS: #24854 Dual axis charts not supported for PI rating curves in reports			https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-Configurationsasrct		
Plugin - Module - Reports	FEWS-19276	ThresholdWarningLevels: No data --> No warnings	ThresholdWarningLevels: No data --> No warnings		https://publicwiki.deltares.nl/display/FEWSDOC/09+Thresholds#id-09Thresholds-ThresholdWarningLevels		

Delft-FEWS 2018.02 Solved Features

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Reports	FEWS-19606	Report schematicStatusDisplayPanelSnapshots*: add prefix/suffix with runtime / TO	Report schematicStatusDisplayPanelSnapshots*: add prefix/suffix with runtime / TO		https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module+09ReportModule+Snapshot		
Plugin - Module - Transformation	FEWS-19285	FEWS-18957 NWS: #45716 Estimation with Spatial Interpolation	Added option to exclude the point of origin in the inverse-distance spatial interpolation transformation		https://publicwiki.deltares.nl/display/FEWSDOC/InterpolationSpatialInverseDistance		
System	FEWS-20091	Create Delft-FEWS Client Installer (LINUX)					
System	FEWS-20090	Create Delft-FEWS Client Installer (Windows)					
System	FEWS-20153	Create script to start and stop MAINTENANCE mode	2018.02 data_update scripts require maintenancemode. Therefore setmaintenancemode scripts have been made available		https://publicwiki.deltares.nl/display/FEWSDOC/Activate+or+deactivate+Maintenance+Mode+using+setmaintenancemode.sql+script		
System	FEWS-16779	FEWS-18477 Orchestrator - Automated software bundle formation and non-interactive deployment (A.2)					
System	FEWS-16774	FEWS-19332 AI: REST API - Non-interactive deployment of compute nodes (A.1)					
System	FEWS-16775	FEWS-19332 AI: REST API - Public cloud compatibility (A.1)					
System - PI Service	FEWS-19199	FEWS-17996 TVA FB 212 Cannot Retrieve Simulated Historical data from the REST webservice that is in the archive					
System - PI Service	FEWS-19947	FEWS-19924 WMS Service: Support Contour lines					
System - PI Service	FEWS-16621	FEWS-18470 Improve stability: Handling non-equidistant data	PI REST service now uses time series chunking to improve stability	PI REST service now uses time series chunking to improve stability. This will prevent out of memory issues when querying a lot of time series	https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service		
System - PI Service	FEWS-16625	FEWS-18472 New: Retrieve gridded data			https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS-19855	Read-only support for FEWS webservices					
System - PI Service	FEWS-20350	FEWS-19650 FeWS Web Services global properties not working with new client config files					
System - PI Service	FEWS-20470	FEWS-19650 FEWS Web Services should be readonly by default					
System - PI Service	FEWS-20423	FEWS web services: use of context files for redirecting to specific filters			https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services+FEWSWebServices+AdvancedInstallationandConfiguration		
System - PI Service	FEWS-19043	FEWS-16626 WMS – FEWS WMS Web Service GetCapabilities should server all configured layers in the grid display with their time dimensions	GetCapabilities has support for time dimension	GetCapabilities has support for time dimension	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS-19052	FEWS-16626 WMS – FEWS WMS Web Service api documentation	WMS API has been documented	WMS API documentation can be found at: https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS-19050	FEWS-16626 WMS – FEWS WMS Web Service GetMap	WMS GetMap request is supported	WMS GetMap request is supported	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS-19042	FEWS-16626 WMS – FEWS should generate png based on bounding box	Extent is supported in WMS Service	Extent is supported in WMS Service	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS-19051	FEWS-16626 WMS – FEWS WMS Web Service GetLegendGraphic	legends supported in WMS	legends supported in WMS	https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - Session	FEWS-19244	automatically refresh FEWS SA client when new localDataStore is provided (snapshot from other SA system)	Updating SA localDataStore when a new one is provided by 'master' SA	This feature makes possible to update SA localDataStore (in Client SA) with a new one that has been exported by an another SA (Master SA) This feature supports only firebird database. Master SA exports local.fdb using exportArchiveModule, for example: (code:xml) <exportSnapshot> <general> <archiveFolder>c:/localDataStoreSnapshot</archiveFolder> <zipExportedSnapshot>>false</zipExportedSnapshot> </general> </exportSnapshot> <areald>NL</areald> </exportSnapshot> </activities> </exportSnapshot> (code) The option <singularExport/> should be used to overwrite local.fdb every time the exportArchiveModule is run. Also the option zipExportedSnapshot should be set to false, otherwise Client SA will not update. Client SA should have option			