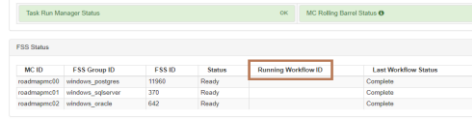
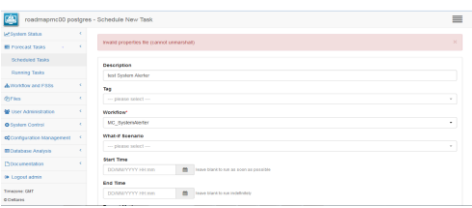
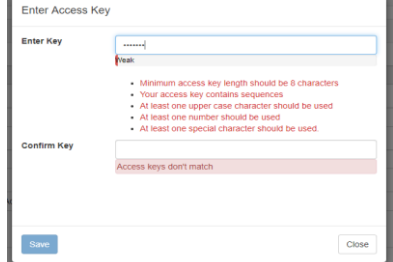

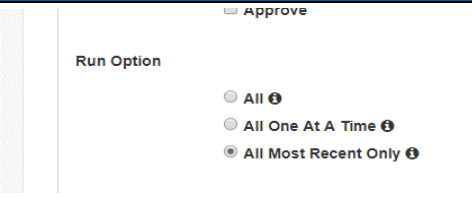
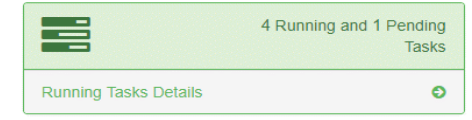
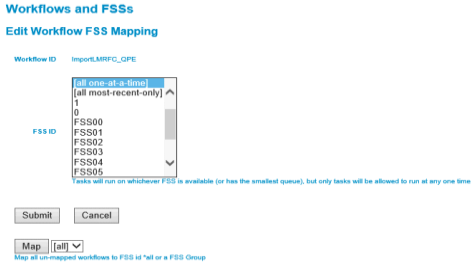
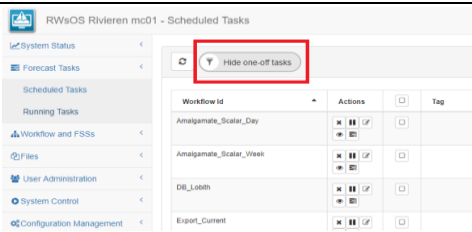

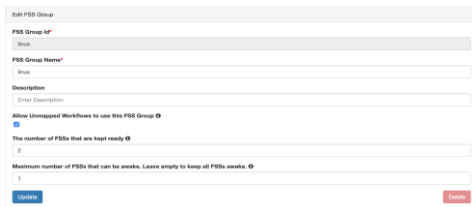
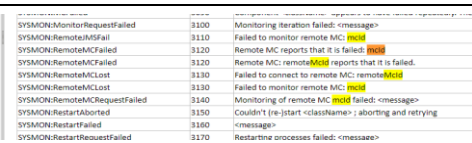
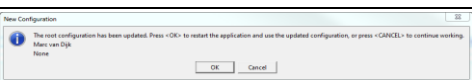


**Delft-FEWS 2018.02 Solved Features**

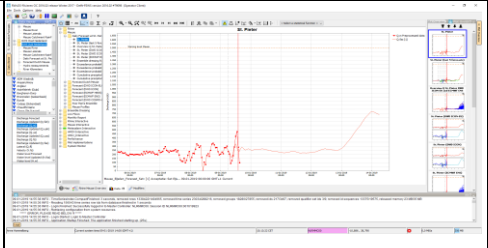
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example																								
App - Admin Web User Interface	<a href="#">FEWS-20152</a>	Migrate Scheduling and Mapping settings to 2018.02																												
App - Admin Web User Interface, System	<a href="#">FEWS-16778</a>	FEWS-18477 Orchestrator - Expansion of existing FSS workflow mapping semantics (A.2)																												
App - Admin Web User Interface	<a href="#">FEWS-19593</a>	FEWS-17874 Naming of Clear Caches			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control</a>																									
App - Admin Web User Interface	<a href="#">FEWS-19588</a>	FEWS-17874 Maintenance Mode cannot be handled on login screen anymore			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+System+Control</a>																									
App - Admin Web User Interface	<a href="#">FEWS-17878</a>	FEWS-17874 AI: Download option for Action Configuration			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>																									
App - Admin Web User Interface	<a href="#">FEWS-17877</a>	FEWS-17874 AI: Download option for Event Action Mappings			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>																									
App - Admin Web User Interface	<a href="#">FEWS-14914</a>	FEWS-17874 AI: Verification of the Event Action setup via Admin Interface.			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>																									
App - Admin Web User Interface	<a href="#">FEWS-20799</a>	Add additional column to the Forecasting Shell Servers tab: current run workflow ID				 <table border="1"> <thead> <tr> <th>MC ID</th> <th>FSS Group ID</th> <th>FSS ID</th> <th>Status</th> <th>Running Workflow ID</th> <th>Last Workflow Status</th> </tr> </thead> <tbody> <tr> <td>roadmapmc00</td> <td>windows_postgres</td> <td>11060</td> <td>Ready</td> <td></td> <td>Complete</td> </tr> <tr> <td>roadmapmc01</td> <td>windows_server</td> <td>370</td> <td>Ready</td> <td></td> <td>Complete</td> </tr> <tr> <td>roadmapmc02</td> <td>windows_oracle</td> <td>642</td> <td>Ready</td> <td></td> <td>Complete</td> </tr> </tbody> </table>	MC ID	FSS Group ID	FSS ID	Status	Running Workflow ID	Last Workflow Status	roadmapmc00	windows_postgres	11060	Ready		Complete	roadmapmc01	windows_server	370	Ready		Complete	roadmapmc02	windows_oracle	642	Ready		Complete
MC ID	FSS Group ID	FSS ID	Status	Running Workflow ID	Last Workflow Status																									
roadmapmc00	windows_postgres	11060	Ready		Complete																									
roadmapmc01	windows_server	370	Ready		Complete																									
roadmapmc02	windows_oracle	642	Ready		Complete																									
App - Admin Web User Interface	<a href="#">FEWS-16852</a>	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	<a href="#">FEWS-15958</a>	FEWS-9556 RWSOS Algemeen - M161016479\01: suggestions for improvements AI 1																												
App - Admin Web User Interface	<a href="#">FEWS-21170</a>	Add option to create own password for Admin Interface																												
App - Admin Web User Interface	<a href="#">FEWS-20866</a>	Improvement of Information texts in AI																												
App - Admin Web User Interface	<a href="#">FEWS-20818</a>	Case insensitive login AI																												
App - Admin Web User Interface	<a href="#">FEWS-20496</a>	FEWS-18050 AI: Scheduled Tasks page - show taskruns after clicking workflow name (left column)																												

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
App - Admin Web User Interface	<a href="#">FEWS-20486</a>	AI: Improve wording/explanation for Scheduled Task - Run Options				
App - Admin Web User Interface	<a href="#">FEWS-20623</a>	AI: Download of FSS Group mappings results in a incorrect file	Mappings of deleted FSS Groups were not taken into account	Mappings of deleted FSS Groups were not taken into account		
App - Admin Web User Interface	<a href="#">FEWS-20624</a>	AI: Deleting of Failover priorities does not work				
App - Admin Web User Interface	<a href="#">FEWS-19658</a>	FEWS-17874 Schedule Task select TAG from dropdown list		A tag dropdown list is displayed if an tags are configured in the action configuration.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>	
App - Admin Web User Interface	<a href="#">FEWS-20225</a>	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	<a href="#">FEWS-20026</a>	FEWS-19650 Admin Interface should keep session alive				
App - Admin Web User Interface	<a href="#">FEWS-19949</a>	FEWS-17874 Add support for uploading Config Manager Patch			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Configuration+Management">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Configuration+Management</a>	
App - Admin Web User Interface	<a href="#">FEWS-20219</a>	FEWS-19650 AI laat FSS'en zien die niet meer bestaan				
App - Admin Web User Interface	<a href="#">FEWS-20195</a>	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	<a href="#">FEWS-20111</a>	FSS group cannot be removed if used by a FSS once				
App - Admin Web User Interface	<a href="#">FEWS-20094</a>	FEWS-19650 Add Documentation Menu entries to Wiki and API documentation in admin interface				
App - Admin Web User Interface	<a href="#">FEWS-20056</a>	AI: Examples of using the REST interface for querying status information				
App - Admin Web User Interface	<a href="#">FEWS-19401</a>	FEWS-17874 Create Authorization Matrix	Matrix created.	Matrix created.		
App - Admin Web User Interface	<a href="#">FEWS-19400</a>	FEWS-17874 Incorporate Tomcat 9 for Admin Interface Developments				
App - Admin Web User Interface	<a href="#">FEWS-17824</a>	FEWS-17874 AI: Workflow mappings [all one-at-a-time] with FSS Groups (TVA)			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>	
App - Admin Web User Interface	<a href="#">FEWS-17914</a>	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	<a href="#">FEWS-15852</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Forecast+Tasks">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Forecast+Tasks</a>	

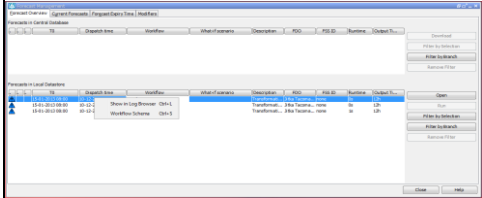
**Delft-FEWS 2018.02 Solved Features**

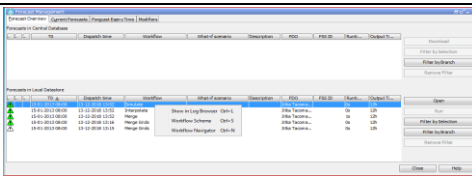
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
App - Admin Web User Interface	<a href="#">FEWS-15704</a>	FEWS-17874 Button to remove all workflow FSS mappings on Admin Interface	Remove all Workflow mappings	All workflow mappings can be removed. During upload a checkbox is available as well that allows you to remove all existing mappings as well	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs</a>	
App - Admin Web User Interface	<a href="#">FEWS-13263</a>	FEWS-18957 NWS: #23347 (FB93) Restrict User Access and Permissions to Administrator Interface				
App - Archive	<a href="#">FEWS-18910</a>	Allow exporting more than 1 LDS snapshot per day in OpenArchive export		It is now possible to export more than 1 snapshot day to the archive.		use the element <allowMultipleDailyExports> to enable exporting multiple snapshots a day to the archive.
App - Configuration Manager Gui	<a href="#">FEWS-19643</a>	FEWS-18245 CM should consistently do file diff / compare: old version left, new version right			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02">https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02</a>	
App - Configuration Manager Gui	<a href="#">FEWS-19642</a>	FEWS-18245 CM should import automatically complete config			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02">https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02</a>	
App - Configuration Manager Gui	<a href="#">FEWS-19359</a>	FEWS-18957 NWS: #24358 Integrate - prevent_deletion Option Directly into CM			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02">https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02</a>	
App - Configuration Manager Gui	<a href="#">FEWS-15086</a>	FEWS-18957 NWS: #23445 (FB191) Implement CM Permission System to Restrict User Access to Operational Configuration			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02">https://publicwiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02</a>	
App - Configuration Manager Gui	<a href="#">FEWS-20123</a>	FEWS-19650 FFS: 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	<a href="#">FEWS-18144</a>	DCM Export: MeteoAlarm (CAP format)	MeteoAlarm Cap export	MeteoAlarm Cap export generates cap files to folder and posts them to SOAP servicew.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/MeteoAlarmCap">https://publicwiki.deltares.nl/display/FEWSDOC/MeteoAlarmCap</a>	
App - Forecasting Shell Server	<a href="#">FEWS-20007</a>	FEWS-19650 Create Windows Service for FSS launcher				
App - Forecasting Shell Server	<a href="#">FEWS-16783</a>	FEWS-18451 Simplified operation of Delft-FEWS FewsShell component (B.2.A)				
App - Forecasting Shell Server	<a href="#">FEWS-16782</a>	Simplified deployment of Delft-FEWS Forecasting Shell Servers (B.2)				
App - Forecasting Shell Server	<a href="#">FEWS-20345</a>	FEWS-19650 Number of FSSs in ready state don't match the number in the FSS group				
App - Forecasting Shell Server	<a href="#">FEWS-20196</a>	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 - Master Controller Server, System - Synchronisation	<a href="#">FEWS-20260</a>	FEWS-10616 TVA: request to disable synchronisation of config in MC-MC synchronisation				<pre>[code] &lt;remotemc mcid="roadmapmc01" &gt; &lt;database ...&gt; &lt;/database&gt; &lt;mcSynchronisation&gt; &lt;recordtype type="Config"&gt; &lt;modifier&gt; &lt;synchlevel level="99"/&gt; &lt;/modifier&gt; &lt;/recordtype&gt; &lt;/mcSynchronisation&gt; &lt;/remotemc&gt;</pre>
App - Master Controller Server	<a href="#">FEWS-17386</a>	FEWS-17996 TVA: Request to not automatically run tasks on primary system when a failover is triggered				
App - Master Controller Server	<a href="#">FEWS-19242</a>	FEWS-18957 NWS: #45852 Events Codes should contain specific details to take appropriate action	Add mc id to SYSLOG event codes	There are several SYSLOG event codes which can occur in FEWS, like "SYSLOG.RemoteMCLost" and "SYSLOG.McSynchSuspended" etc. The log message for these events would already include the mcid. These mcids have now been added to the event codes. For example: "SYSLOG.RemoteMCLost.<mcid>" and "SYSLOG.McSynchSuspended.<sourceMcid>.<destinationMcid>"	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Admin-Interfaces+-+System+Status+-+Event+Codes">https://publicwiki.deltares.nl/display/FEWSDOC/Admin-Interfaces+-+System+Status+-+Event+Codes</a>	
App - Forecasting Shell Server, App - Master Controller Server	<a href="#">FEWS-20143</a>	FEWS-18469 Prevent simultaneous runs for certain workflows (import, update runs and amaleamale - rollback)				
App - Operator Client Gui (Explorer)	<a href="#">FEWS-20124</a>	FEWS-19650 FFS: When uploading a new Patch.jar the OC has an incomplete message				
App - Operator Client Gui (Explorer)	<a href="#">FEWS-18669</a>	FEWS-18445 Create icon for locations not existing at system time				

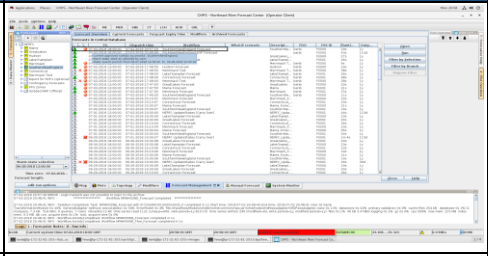
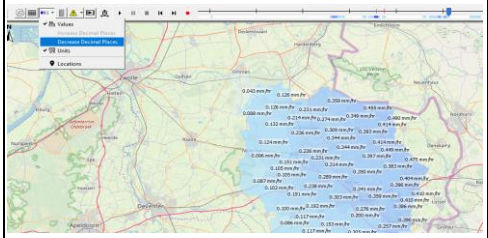
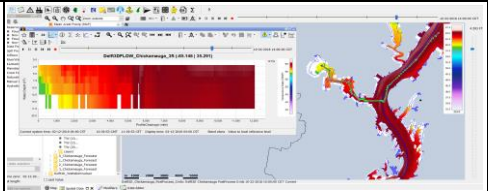

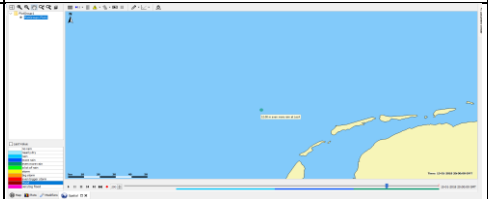
Delft-FEWS 2018.02 Solved Features

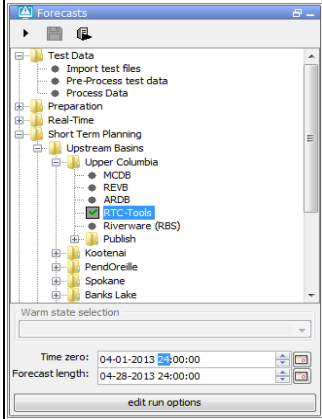
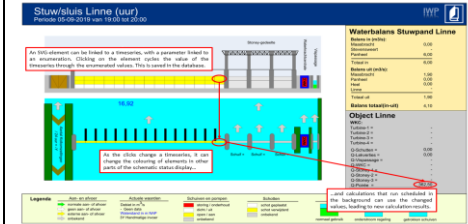
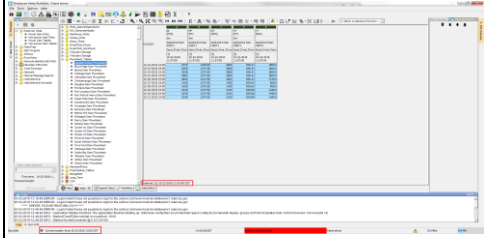
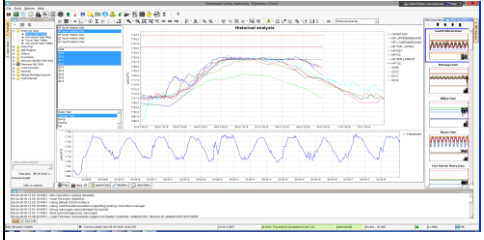
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
App - Operator Client Gui (Explorer)	<a href="#">FEWS-18972</a>	FEWS-18957 NWS: #45907 Ability to adjust only plot axis font size via Explorer Options				
App - Operator Client Gui (Explorer)	<a href="#">FEWS-17298</a>	Filters take precedence over linked displaygroup plots in topology	Add enableAutoClearParameters config option to Topology.xml	When a filter is configured for a topology node, that filter will be automatically selected when the node is selected. By default, when selecting a filter this way the parameter selection will stay the same, if the selected parameters are present in the new filter, they will remain selected. There was already a config option present to enable FEWS to automatically select all parameters in the new filter (<enableAutoSelectParameters>). An additional config option has been added to enable FEWS to automatically clear the parameter selection (<enableAutoClearParameters>) when the a new topology node is selected for which a filter is configured.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology%24+Topology-Interactionwithotherdisplays">https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology%24+Topology-Interactionwithotherdisplays</a>	
App - Operator Client Gui (Explorer), Plugin - Gui - Time Series Modifier	<a href="#">FEWS-18963</a>	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	<a href="#">FEWS-19455</a>	Make FEWS look more modern (no borders, use soft colors as background)				
App - Operator Client Gui (Explorer)	<a href="#">FEWS-16781</a>	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	<a href="#">FEWS-19106</a>	Add copyright statements to a maplayers	Add copyright statements to a maplayers		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/28+GeoMap%28+GeoMap-OpenStreetMapLayer">https://publicwiki.deltares.nl/display/FEWSDOC/28+GeoMap%28+GeoMap-OpenStreetMapLayer</a>	
App - TeamCity	<a href="#">FEWS-19969</a>	FEWS-19650 Basebuild jre packaging should be part of teamcity build proces				
Configuration, Database	<a href="#">FEWS-18258</a>	Store and use external meteo forecast time: forecastTimeReferences				<pre> {code:xml title=ForecastLengthEstimator} &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;forecastLengthEstimator xmlns="http://www.wldelft.nl/feWS" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/feWS http://feWS.wldelft.nl/schemas/version1.0/forecastLengthEstimator.xsd"&gt; &lt;findLatestCommonExternalForecastTime externalForecastTimeId="test"&gt; &lt;eventCodeOnChange&gt;forecast.newReference&lt; /eventCodeOnChange&gt; &lt;dataFeed id="dataFeed1"&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceId&gt;test1&lt;/moduleInstanceId&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;par&lt;/parameterId&gt; &lt;locationId&gt;loc&lt;/locationId&gt; &lt;timeSeriesType&gt;external forecasting&lt;/timeSeriesType&gt; &lt;timeStep unit="hour"/&gt; &lt;readWriteMode&gt;read only&lt;/readWriteMode&gt; &lt;/timeSeriesSet&gt; &lt;/dataFeed&gt; &lt;dataFeed id="dataFeed2"&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceId&gt;test2&lt;/moduleInstanceId&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; </pre>



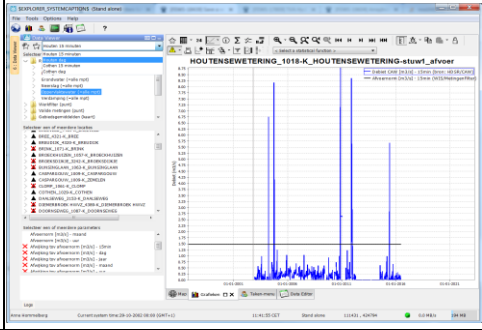
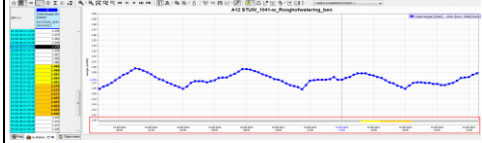
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Configuration	<a href="#">FEWS-19306</a>	Samenhang workflows: Configuratie workflow dependencies	Forecast Management and displaying workflow dependencies	<p>In Forecast Management display a new 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 Ctrl+S". 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>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator</a>	
Configuration	<a href="#">FEWS-19733</a>	FEWS-14299 Allow configuration of rating curve parameters in combination with parameters.csv				
Configuration	<a href="#">FEWS-16983</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/how+to+configure+secure+https+connection+to+Matroos">https://publicwiki.deltares.nl/display/FEWSDOC/how+to+configure+secure+https+connection+to+Matroos</a>	
Database	<a href="#">FEWS-18257</a>	FEWS-18469 Save user settings in central database			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/The+F12+menu">https://publicwiki.deltares.nl/display/FEWSDOC/The+F12+menu</a>	
Database	<a href="#">FEWS-20097</a>	FEWS-19650 SystemMetrics depends on view that no longer exist.	See <a href="https://publicwiki.deltares.nl/display/FEWSDOC/27+SystemMetrics">https://publicwiki.deltares.nl/display/FEWSDOC/27+SystemMetrics</a>	<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>&lt;buildVersionParameterId&gt;M.N.build&lt;/buildVersionParameterId&gt; &lt;queueLengthParameterId&gt;M.N.fsQL&lt;/queueLengthParameterId&gt; &lt;downParameterId&gt;M.N.fsDown&lt;/downParameterId&gt;</pre>		
Database	<a href="#">FEWS-19553</a>	FEWS-13318 HyFS: Make database field for location attribute text modifiers 2000 characters long				
Database	<a href="#">FEWS-19324</a>	Make locationAttributeModifiers text 128 characters instead of 64				
Database	<a href="#">FEWS-19779</a>	FEWS-19403 Improve timeseries blob compression for millisecond time series	Support of milliseconds timestep	<p>The nonequistant timestep is now also able to store times with precision up to the milliseconds.</p> <p>The TimeSeriesDisplay automatically displays milliseconds when relevant.</p> <p>To import nonequistant milliseconds with for example the generalCSV importer, simply define a dateTimePattern like {{&lt;dateTimePattern&gt;dd-MM-yyyy HH:mm:ss.SSS&lt;/dateTimePattern&gt;}}, where the .SSS represent the milliseconds.</p>		

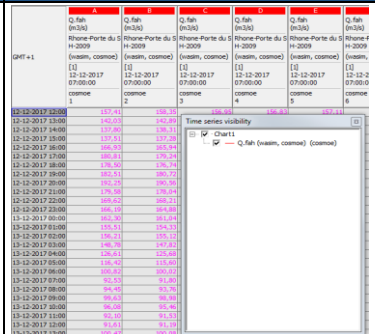
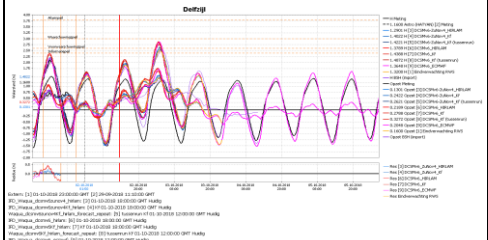
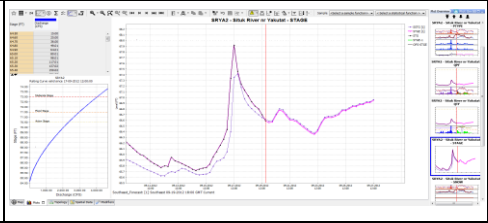
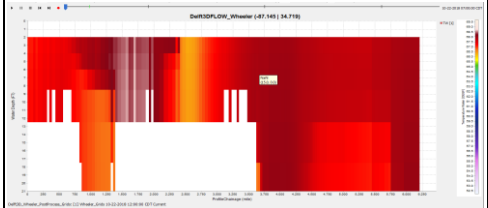
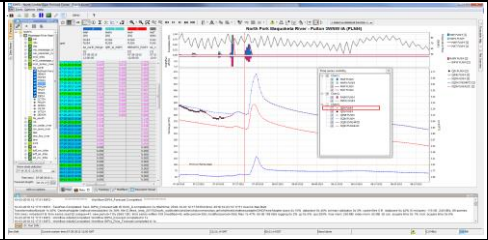
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Database	<a href="#">FEWS-18465</a>	New MS SQL Server database driver	2018.02 new sqlserver jdbc url	The 2018.02 is shipped with the mssql-jdbc-7.0.0.jre10.jar jdbc driver and the jdbc driver 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 <a href="https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url">https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url</a> and <a href="https://docs.microsoft.com/en-us/sql/connect/jdbc/setting-the-connection-properties-for-building-the-connection-string-and-advanced-authentication-options">https://docs.microsoft.com/en-us/sql/connect/jdbc/setting-the-connection-properties-for-building-the-connection-string-and-advanced-authentication-options</a> . The new format is:  jdbc:sqlserver://<hostname>:<port>;DatabaseName=<db>		
Debug Tool - Database Viewer	<a href="#">FEWS-20020</a>	FEWS-19650 DatabaseViewer: add column FSSGroupID in upper overview	DatabaseViewer: added column FSSGroupID in upper overview			
Debug Tool - Workflow Navigator	<a href="#">FEWS-19308</a>	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)	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator</a>	
Module Adapter - All	<a href="#">FEWS-19443</a>	Check compatibility all FEWS adapters with Java 11				
Module Adapter - All	<a href="#">FEWS-20342</a>	Add property to WES PreAdapter			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WES+adapter">https://publicwiki.deltares.nl/display/FEWSDOC/WES+adapter</a>	
Module Adapter - All	<a href="#">FEWS-20490</a>	FEWS-20489 Improve WISKI adapter (header)			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/NoeWiskTimeSeriesSerializer">https://publicwiki.deltares.nl/display/FEWSDOC/NoeWiskTimeSeriesSerializer</a>	
Module Adapter - Calibration, Plugin - Module - Modifiers (ModuleParameters)	<a href="#">FEWS-18967</a>	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	<a href="#">FEWS-19724</a>	Merge DIMR and D-Flow FM Adapter			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19788</a>	FEWS-19724 Ad Pl xml time series export files to netcdf run file			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19777</a>	FEWS-19724 Implement functionality for plTimeSeriesAsBin string property			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19778</a>	FEWS-19724 Add test case for editing RTC files			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19769</a>	FEWS-19724 Add D-Flow FM adapter functionality to DIMR adapter (test case mackay)			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19730</a>	FEWS-19724 Add dimrConfig schema and castor build to Dimr Adapter			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Module Adapter – DIMR	<a href="#">FEWS-19725</a>	FEWS-19724 Create generic DIMR classes next to Sobek3 classes			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter</a>	
Plugin - Gui - Forecast Manager	<a href="#">FEWS-19305</a>	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 Brouwer becomes visible and shows log-messages corresponding to the selected workflow.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator</a>	

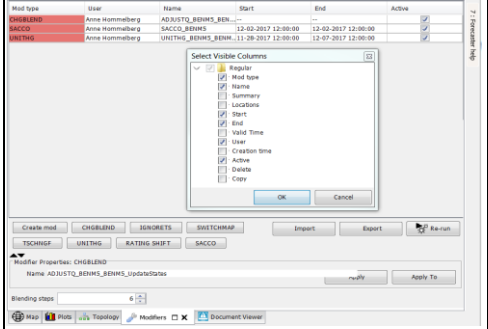
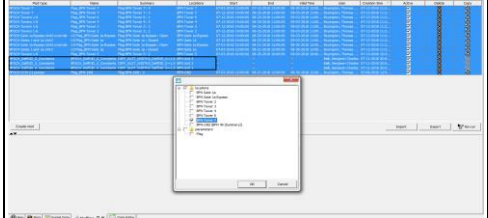
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Gui - Forecast Manager	<a href="#">FEWS-18957</a>	FEWS-18957 NWS: #24072 Add ability to see selected run state in Forecast Management hover	Displaying actual used state Times in the Forecast 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		
Plugin - Gui - Grid Display	<a href="#">FEWS-20868</a>	FEWS-9563 FOEN: Option in Spatial display to show less decimals in values on map	Add option in spatial display to decrease number of decimals in labels	Adds two menu items to the label drop down menu in the spatial display. One to increase and one to decrease the number of decimals shown in the labels and tooltips. If a user has used these buttons to decrease the number of decimals, this will be stored in the user settings. This setting is stored separately for each parameter group. The number of decimals can never be increased to more than the resolution with which the values are stored (the configured value resolution of the parameter group).		
Plugin - Gui - Grid Display	<a href="#">FEWS-20430</a>	FEWS-20489 Allow TimeZone toggle on Spatial Display		Again assigned to Onno as he is mentioned in contract. If assigned to someone else then please let me know as this will require a contract change to allow costs to be billed to project		
Plugin - Gui - Grid Display	<a href="#">FEWS-17736</a>	FEWS-17689 TVA Hydrothermal: Extend vertical slider bar for Delft3D-FLOW or D-Flow FM grids from Sigma layers to Z layers				
Plugin - Gui - Grid Display	<a href="#">FEWS-20859</a>	FEWS-9563 FOEN: Add aggregation timestep in time label of spatial display				
Plugin - Gui - Grid Display	<a href="#">FEWS-19513</a>	FEWS-18387 Add label to Spatial Display Tooltip	Added label to Spatial Display Tooltip		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display">https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display</a>	

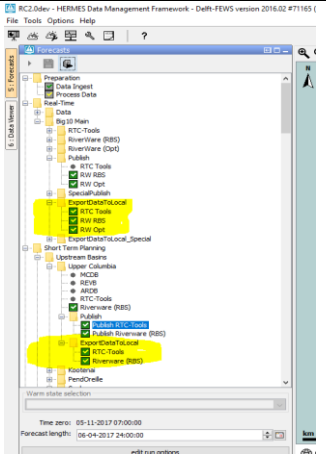
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	
Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-17008</a>	FEWS-16132 HERMES: FB95-TF548635 Make the ST Planning study have a variable start time.		<p>It is now possible to set the time zero of 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 setToModifiedDateTimeAttributeValueComplexType. If the value is not modified a default fallback value will be used, similar to configured in the ShiftDateTimeModifier.</p> <p>More info about the ShiftDateTimeModifier can be found here:  <a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes</a>                      Config Example:  <pre>&lt;color#59afe1&gt;-attributeModifiers&gt; &lt;shiftDateTimeModifier id="StartRun_STPlanning" name="StartRun_STPlanning"&gt; &lt;attributeId&gt;startTime_ST&lt;/attributeId&gt; &lt;locationId&gt;BPA&lt;/locationId&gt; &lt;defaultModifierTime&gt;</pre> </p>			
Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-20201</a>	FEWS-18050 FFFS: Forecast Tree Status is not correct when task is killed					
Plugin - Gui - Schematic Status Display	<a href="#">FEWS-20024</a>	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		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties">https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties</a>		
Plugin - Gui - Schematic Status Display	<a href="#">FEWS-16361</a>	Klikbare SSD-elementen, die van kleur veranderen en waardes manipuleren		<p>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, ie. open &amp; close sluice gates in a system.</p>	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id:155SchematicStatusDisplay(formerlyScadaDisplay):LeftSingleClickActionandLeftDoubleClickActionConfigurationOptions">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id:155SchematicStatusDisplay(formerlyScadaDisplay):LeftSingleClickActionandLeftDoubleClickActionConfigurationOptions</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-19448</a>	FEWS-17996 TVA: ability to display external forecasts when forecast time is in the future					
Plugin - Gui - Time Series	<a href="#">FEWS-19394</a>	FEWS-17996 TVA: Improve TSD to integrate directly with Archive to display selected years of data (enhanced Historical Analysis display)					



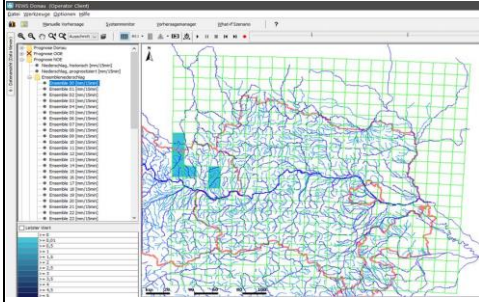
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	
Plugin - Gui - Time Series	<a href="#">FEWS-19080</a>	FEWS-9563 FOEN: add configurable displaygroups feature to make scales identical	add config option to displaygroups to make scales identical	There is a new configuration <synchronizeParameterAxis> 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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-plot">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-plot</a>	In DisplayGroups.xml: <pre>&lt;code&gt; &lt;xml&gt; &lt;plot id="my_plot"&gt; &lt;synchronizeParameterAxis=true&lt;/synchronizeP parameterAxis&gt; &lt;subplot&gt; ... &lt;/subplot&gt; &lt;subplot&gt; ... &lt;/subplot&gt; &lt;/plot&gt; &lt;/code&gt;</pre>	
Plugin - Gui - Time Series	<a href="#">FEWS-18436</a>	Save a set of filtered timeseries to a favorites list					
Plugin - Gui - Time Series	<a href="#">FEWS-17809</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-horizontalColorCode">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-horizontalColorCode</a>	<code> <xml> <plot id="horizontalColorCodePumps"> <description>testing the horizontal color code plots</description> <subplot> <subPlotType>horizontalColorCode</subPlotType> <barMarginPercentage>30</barMarginPercentage> <classBreakId>TOWER_CLASS_BREAKS</classBreakId> <timeSeriesSet> <moduleInstancelId>Preprocess_Units_HTMS</moduleInstancelId> <valueType>scalar</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> </timeSeriesSet> <timeSeriesType>simulated forecasting</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <readWriteMode>read only</readWriteMode> </timeSeriesSet> </subplot> </code>	
Plugin - Gui - Time Series, Plugin - Module - Reports	<a href="#">FEWS-18606</a>	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.			

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	
Plugin - Gui - Time Series	<a href="#">FEWS-17891</a>	FEWS-17812 Create Dialog for on-the-fly expression series			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/30+Visibility+Dialog+and+On+The+Fly+Expression+Series">https://publicwiki.deltares.nl/display/FEWSDOC/30+Visibility+Dialog+and+On+The+Fly+Expression+Series</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-19439</a>	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	<a href="#">FEWS-19360</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration">https://publicwiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration</a>	Example from TimeSeriesDisplay config file: (code) <ratingCurveDisplayConfig> <stageAxisOrientation>vertical</stageAxisOrientation> <thresholdType>stage/<thresholdType> </ratingCurveDisplayConfig> (code)	
Plugin - Gui - Time Series	<a href="#">FEWS-18966</a>	FEWS-18957 NWS: #34815 Fix thumbnail locking feature to use <ensembleId> in addition to location/parameter					
Plugin - Gui - Grid Display, Plugin - Gui - Time Series	<a href="#">FEWS-17732</a>	FEWS-17689 TVA Hydrothermal: Predefined longitudinal profiles from spatial display grids to create predefined vertical profile cross sections in TSD with time slider bar					
Plugin - Gui - Time Series	<a href="#">FEWS-19470</a>	Make vertical station lines optional in longitudinal plot	Make vertical station lines optional in longitudinal plot		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/02+LocationSets#id-02LocationSets-chainapi-ahell-orationAttributid">https://publicwiki.deltares.nl/display/FEWSDOC/02+LocationSets#id-02LocationSets-chainapi-ahell-orationAttributid</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-19284</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Gui - Time Series	<a href="#">FEWS-20438</a>	FEWS-20126 Add option in DisplayGroups.xml to set default visibility			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line</a>	
Plugin - Gui - Time Series	<a href="#">FEWS-21045</a>	DisplayGroups: add visibleInLegend, visibleInTable to all subplot elements			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line</a>	
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-16035</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays">https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays</a>	
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-16036</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays">https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays</a>	
Plugin - Gui - Web Browser Display	<a href="#">FEWS-20392</a>	FEWS-19373 Implement a whitelist of domains/urls that can be visited using web browser		For the embedded web browser display, a domain whitelist has been implemented to restrict the domains from which content can be displayed in the internal web browser. When the user follows hyperlinks to sites that are not whitelisted the system default browser will be used instead.		
Plugin - Gui - Web Browser Display	<a href="#">FEWS-20362</a>	FEWS-19373 Chromium embedded framework (JCEF) update warning				
Plugin - Gui - Web Browser Display	<a href="#">FEWS-20110</a>	FEWS-19650 Enable "display config" for Web Browser Display				
Plugin - Gui - Web Browser Display	<a href="#">FEWS-19386</a>	FEWS-19373 Backwards compatibility EWB Display with new JX/JCEF package			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display">https://publicwiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display</a>	
Plugin - Module - Archive	<a href="#">FEWS-20151</a>	Java11 and Elastic. connection settings				
Plugin - Module - Archive	<a href="#">FEWS-20239</a>	Only reindex observed meta data				
Plugin - Module - Archive	<a href="#">FEWS-18128</a>	FEWS-17996 TVA: Config option to indicate archive export to occur at subworkflow instead of main workflow level				
Plugin - Module - Archive	<a href="#">FEWS-20745</a>	FEWS-20739 TVA: Ability to use startOverrutable and endOverrutable in relativePeriod in any export archive module				<pre>&lt;exportArchiveModule xmlns="http://www.wildelf.nl/feWS" xmlns:xsd="http://www.w3.org/2001/XMLSchema-instance" &gt;   &lt;exportExternalForecast &gt;     &lt;general &gt;       &lt;archiveFolder&gt;SARCHIVE_FOLDERS&lt;/archiveFolder&gt;       &lt;relativePeriod start="3" end="0" unit="day" startOverrutable="true"&gt;         &lt;includeFlags&gt;idExportArchive&lt;/includeFlags&gt;       &lt;/general&gt;     &lt;/general&gt;     &lt;activities &gt;       &lt;netcdfExportActivity &gt;         &lt;netcdfExportActivity &gt;           &lt;file&gt;External_Forecasting_Incremental_Cost_Cl_Hourly_ImportBlockCost.nc&lt;/fileName&gt;           &lt;variable scalar="true"&gt;             &lt;sourceId&gt;ImportBlockCost&lt;/sourceId&gt;             &lt;includeMetaData &gt;               &lt;includeMetaData &gt;                 &lt;keyword&gt;Incremental_Cost&lt;/keyword&gt;               &lt;/includeMetaData &gt;               &lt;includeComments &gt;                 &lt;includeComments &gt;                   &lt;includeFlags &gt;true&lt;/includeFlags &gt;                 &lt;/includeComments &gt;               &lt;/includeComments &gt;               &lt;timeSeriesSet &gt;                 &lt;moduleInstanceId&gt;ImportBlockCost&lt;/moduleInstanceId &gt;                 &lt;valueType&gt;scalar&lt;/valueType &gt;                 &lt;parameterId&gt;Cl&lt;/parameterId &gt;                 &lt;locationSetId&gt;Sensor_System_Cl&lt;/locationSetId &gt;                 &lt;timeSeriesType&gt;external forecasting&lt;/timeSeriesType &gt;                 &lt;timeStep unit="hour" multiplier="T7"&gt;                   &lt;readWriteMode&gt;read complete forecast&lt;/readWriteMode &gt;                 &lt;/timeStep &gt;                 &lt;ensembleId&gt;blockcosts&lt;/ensembleId &gt;               &lt;/timeSeriesSet &gt;             &lt;/netcdfExportActivity &gt;           &lt;/netcdfExportActivity &gt;         &lt;/netcdfExportActivity &gt;       &lt;/activities &gt;     &lt;/exportArchiveModule &gt;</pre>

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Archive	<a href="#">FEWS-17621</a>	FEWS-18957 NWS: #38312 tempDir too small to use exportArchiveModule exportSnapshot				<pre> &lt;code&gt;xml &lt;/?xml version="1.0" encoding="UTF-8"?&gt; &lt;exportArchiveModule   xsi:schemaLocation="http://www.wildelft.nl/fe   ws   http://fe   ws.wildelft.nl/schemas/version1.0/expo   rtArchiveModule.xsd"   xmlns:xsi="http://www.w3.org/2001/XMLSchem   a-instance"   xmlns="http://www.wildelft.nl/fe   ws"&gt;   &lt;exportSnapshot&gt;   &lt;general&gt;   &lt;archiveFolder&gt;SARCHIVE_DIRS&lt;/archiveFolder   &gt;   &lt;tempFolder&gt;SARCHIVE_DIRS/./temp&lt;/tempFo   lder&gt;   &lt;/general&gt;   &lt;activities&gt;   &lt;exportSnapshot&gt;   &lt;areald-test&lt;/areald&gt;   &lt;filter id="only time series"&gt;   &lt;xmlConfig enabled="false" name="Default xml   config" synchLevel="11"/&gt;   &lt;coldStates enabled="false" name="Default cold   states" synchLevel="11"/&gt;   &lt;moduleDataSets enabled="false"   name="Default module data sets"   synchLevel="11"/&gt;   &lt;mapLayers enabled="false" name="Default   map layers" synchLevel="11"/&gt;   &lt;/export&gt;           </pre>
Plugin - Module - Data Export	<a href="#">FEWS-18959</a>	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.	<a href="https://publ.cwiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-precision">https://publ.cwiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-precision</a>	<pre> &lt;code&gt;xml &lt;export&gt; &lt;general&gt; &lt;exportType&gt;Pxl&lt;/exportType&gt; ..... &lt;exportMissingValueString&gt; 999.999&lt;/exportMissingValueString&gt; &lt;precision&gt;3&lt;/precision&gt; &lt;/general&gt; .... &lt;/export&gt;           </pre>
Plugin - Module - Data Export	<a href="#">FEWS-20232</a>	Add Geodatum to timeseries export configuration				
Plugin - Module - Data Export	<a href="#">FEWS-18974</a>	FEWS-18957 NWS: #54049 Add <Part A> field to Heros export				
Plugin - Module - Archive, Plugin - Module - Data Export	<a href="#">FEWS-17916</a>	FEWS-16132 HERMES: Magic Button for Local Archive in 2018 build				
Plugin - Module - Data Import	<a href="#">FEWS-19357</a>	FEWS-18957 NWS: #46492 Expand the shef import capabilities to include .B and .BR data fields			<a href="https://publ.cwiki.deltares.nl/display/FEWSDOC/Standard+Hydrometeorological+Exchange+Format">https://publ.cwiki.deltares.nl/display/FEWSDOC/Standard+Hydrometeorological+Exchange+Format</a>	



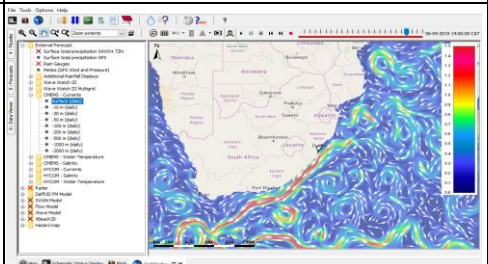
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Data Import	<a href="#">FEWS-19335</a>	FEWS-19535 NOE: questions about handling BIL files in import module and GA module	A new importer for BIL / BIP / BSQ format according to ESRI specifications		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/BIP+BIP+BSQ+Parser">https://publicwiki.deltares.nl/display/FEWSDOC/BIP+BIP+BSQ+Parser</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19501</a>	Enable OAuth2 in existing WaterML2 Import			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WaterML2Import#WaterML2Import-BasicAuthentication">https://publicwiki.deltares.nl/display/FEWSDOC/WaterML2Import#WaterML2Import-BasicAuthentication</a>	<pre> Configuration before 2017.02 {code} &lt;timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema a-instance" xsi:schemaLocation="http://www.wldelft.nl/few s http://fews.wldelft.nl/schemas/version1.0/time SeriesImportRun.xsd"&gt; &lt;import&gt; &lt;general&gt; &lt;parserClassName&gt;nl.wldelft.waterml.timeserie s.parsers.WaterMLServerParser&lt;/parserClassNam e&gt; &lt;binDir&gt;%REGION_HOME%/Modules/bin/water ml-bin&lt;/binDir&gt; &lt;serverUri&gt;https://hicws2.vlaanderen.be/KiWIS /KiWIS&lt;/serverUri&gt; &lt;user&gt;**** user id ****&lt;/user&gt; &lt;password&gt;**** user secret ****&lt;/password&gt; &lt;relativeViewPeriod start="-96" startOverrutable="true" end="0" unit="hour"/&gt; &lt;idMapId&gt;IdImportWML_h&lt;/idMapId&gt; &lt;unitConversionsId&gt;ImportUnitConversions&lt;/un itConversionsId&gt; &lt;missingValue&gt;999.0&lt;/missingValue&gt; &lt;importTimeZone&gt; &lt;timeZoneOffset&gt;+00:00&lt;/timeZoneOffset&gt; &lt;/importTimeZone&gt; </pre>
Plugin - Module - Data Import	<a href="#">FEWS-20327</a>	FEWS-18236 Improve WIWB import with check on availability before requesting data				
Plugin - Module - Data Import	<a href="#">FEWS-19254</a>	FEWS-18236 Add extent argument to WIWB grid imports			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WIWB">https://publicwiki.deltares.nl/display/FEWSDOC/WIWB</a>	
Plugin - Module - Data Import	<a href="#">FEWS-18533</a>	FEWS-18236 Only request data that is not imported in FEWS yet.			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WIWB">https://publicwiki.deltares.nl/display/FEWSDOC/WIWB</a>	
Plugin - Module - Data Import	<a href="#">FEWS-18914</a>	FEWS-18236 Validate on invalid aggregation periods			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WIWB">https://publicwiki.deltares.nl/display/FEWSDOC/WIWB</a>	<pre> &lt;general&gt; &lt;importType&gt;WIWB&lt;/importType&gt; &lt;serverUri&gt;https://v4vb.hydronet.com/api&lt;/serverUri&gt; &lt;connectionTimeoutInMills&gt;90000&lt;/connectionTimeoutInMills&gt; &lt;user&gt;WIWB_USER&lt;/user&gt; &lt;password&gt;WIWB_PW&lt;/password&gt; &lt;relativeViewPeriod unit="hour" start="-24" end="0" startOverrutable="false"/&gt; &lt;idMapId&gt;IdImportWIWB_radar&lt;/idMapId&gt; &lt;dataFeedId&gt;WIWB_Radar_Unconnected_wurl&lt;/dataFeedId&gt; &lt;/general&gt; &lt;properties&gt; &lt;string key="dataSource" value="Kml.Radar.Unconnected"/&gt; &lt;string value="true" key="keepDownloadDataInTempFolder"/&gt; &lt;boolean key="MinimumAggregationAvailability" value="1.00"/&gt; &lt;/properties&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceId&gt;ImportWIWB&lt;/moduleInstanceId&gt; &lt;valueType&gt;grid&lt;/valueType&gt; </pre>
Plugin - Module - Data Import	<a href="#">FEWS-17772</a>	FEWS-17944 Request to overwrite existing sample with new location			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv">https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv</a>	
Plugin - GUI - Sample Viewer, Plugin - Module - Data Import	<a href="#">FEWS-17770</a>	FEWS-17944 Request to overwrite existing sample with new time			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/WORCV">https://publicwiki.deltares.nl/display/FEWSDOC/WORCV</a>	



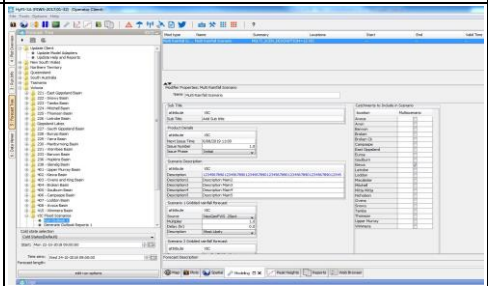

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Data Import	<a href="#">FEWS-17014</a>	FEWS-Accelerator: Import GPM-iMerge satellite data	Import GMP-iMerge satellite data added	Extended the NetCDF gridded dataset import so it can read the GMP-iMerge satellite data	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/NetcdfGridDataset">https://publicwiki.deltares.nl/display/FEWSDOC/NetcdfGridDataset</a>	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;timeSeriesImportRun 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/timeSeriesImportRun.xsd"&gt; &lt;import&gt; &lt;general&gt; &lt;importTypes&gt;NetcdfGridDataset&lt;/importTypes&gt; &lt;folder&gt;\${IMPORT_FOLDERS}imerg&lt;/folder&gt; &lt;fileNameDateTimeFilter subFolderLevel="0"&gt; &lt;!--201412--&gt; &lt;timeStep unit="month"/&gt; &lt;dateTimePattern&gt;yyyyMM&lt;/dateTimePattern&gt; &lt;preFixLength&gt;0&lt;/preFixLength&gt; &lt;postFixLength&gt;0&lt;/postFixLength&gt; &lt;/fileNameDateTimeFilter&gt; &lt;fileNameDateTimeFilter subFolderLevel="1"&gt; &lt;!--3B-HHR-E.MS.MRG.3IMERG.20141231- S173000-E175959.1050.V04A.RT-H5--&gt; &lt;timeStep unit="minute" multipliers="30"/&gt; &lt;dateTimePattern&gt;yyyyMMdd'- S'HHmmss&lt;/dateTimePattern&gt; &lt;preFixLength&gt;23&lt;/preFixLength&gt; &lt;postFixLength&gt;24&lt;/postFixLength&gt; &lt;/fileNameDateTimeFilter&gt;</pre>
Plugin - Module - Data Import	<a href="#">FEWS-19668</a>	Import of RAW binary data			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/EARS+Satellite+Rainfall+Image">https://publicwiki.deltares.nl/display/FEWSDOC/EARS+Satellite+Rainfall+Image</a>	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;timeSeriesImportRun 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/timeSeriesImportRun.xsd"&gt; &lt;import&gt; &lt;general&gt; &lt;importTypes&gt;EARS_Satellite_Rainfall_Estimate&lt; /ImportType&gt; &lt;folder&gt;\${IMPORT_FOLDERS}SATH&lt;/folder&gt; &lt;fileNameObservationDateTimePattern&gt;NI_YYY yMMdd'.prc&lt;/fileNameObservationDateTimePa ttern&gt; &lt;unitConversionsId&gt;ImportUnitConversions&lt;/un itConversionsId&gt; &lt;importTimeZone&gt; &lt;timeZoneOffset&gt;+00:00&lt;/timeZoneOffset&gt; &lt;/importTimeZone&gt; &lt;geoDatum&gt;WGS_1984&lt;/geoDatum&gt; &lt;dataFeedId&gt;SATH_AFRICA&lt;/dataFeedId&gt; &lt;/general&gt; &lt;timeSeriesSet&gt; &lt;moduleInstancelId&gt;ImportSATH&lt;/moduleInstan celId&gt; &lt;valueType&gt;grid&lt;/valueType&gt; &lt;parameterId&gt;P&lt;/parameterId&gt;</pre>

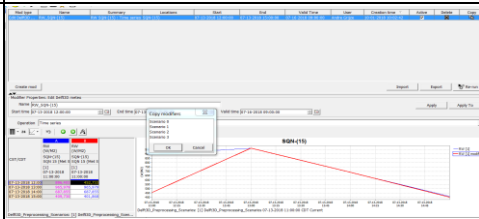


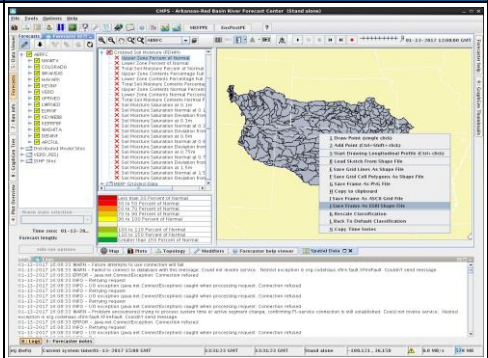
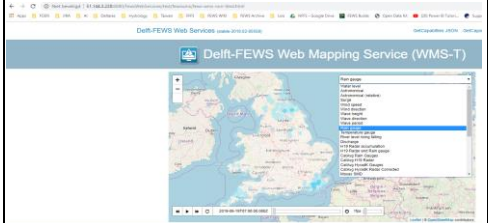
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Data Import, Plugin - Module - Transformation	<a href="#">FEWS-19045</a>	RWSOS Waterbeheer: process to sort and select a subset of ensemble members and process to do following 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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/GenerationEnsemble+Transformation">https://publicwiki.deltares.nl/display/FEWSDOC/GenerationEnsemble+Transformation</a>	<code>&lt;transformation id="selectMembers"&gt; &lt;generationEnsemble&gt; &lt;selectRankedMembers&gt; &lt;selectVariable&gt; &lt;rankingVariable&gt; &lt;variableId&gt;Pmean&lt;/variableId&gt; &lt;/rankingVariable&gt; &lt;sortAscending=true&lt;/sortAscending&gt; &lt;numberOfMembers&gt;2&lt;/numberOfMembers&gt; &lt;/selectVariable&gt; &lt;inputOutput&gt; &lt;inputVariable&gt; &lt;variableId&gt;Hm&lt;/variableId&gt; &lt;/inputVariable&gt; &lt;outputVariable&gt; &lt;variableId&gt;Hsim&lt;/variableId&gt; &lt;/outputVariable&gt; &lt;/inputOutput&gt;  &lt;inputOutput&gt; &lt;inputVariable&gt; &lt;variableId&gt;Qm&lt;/variableId&gt; &lt;/inputVariable&gt; &lt;outputVariable&gt; &lt;variableId&gt;Qsim&lt;/variableId&gt; &lt;/outputVariable&gt; &lt;/inputOutput&gt;  &lt;inputOutput&gt;</code>
Plugin - Module - Data Import	<a href="#">FEWS-18996</a>	New import for SMN ETA based on previous UruguaySMNETA	Eta5mn Import type	Eta5mn imports gridded time series from ascii file format. File example : (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)  The forecast time is read from the file name. The file name should comply with the following file name pattern: ?????????yyyyMMdHH?????, for example Datos_WRF_2018062000.txt. 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 <code>region.conf</code> .		
Plugin - Module - Data Import	<a href="#">FEWS-18964</a>	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 <code>cf_role = "timeseries_id"</code>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Data Import	<a href="#">FEWS-20339</a>	Matroos import: add an import type for get_netcdf.php	New import type MATROOS_NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES	<p>MATROOS_NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES first download the nc file from Matroos and then read the downloaded files.</p> <p>To read the downloaded file, MATROOS_NETCDF-CF_GRID uses imported type NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES uses import type NETCDF-CF_TIMESERIES</p> <p>Both import types support the following Matroos query:  <a href="http://matroos.rws.nl/direct/get_netcdf.php?database=&amp;source=&amp;analysis=&amp;timezone=&amp;hindcast=">http://matroos.rws.nl/direct/get_netcdf.php?database=&amp;source=&amp;analysis=&amp;timezone=&amp;hindcast=</a></p> <p>The query fields 'database' and 'source' are mandatory, 'analysis', 'timezone' and 'hindcast' are optional.                      The values for the query fields should be configured in the &lt;properties&gt; section of the import module.</p> <p>The downloaded nc file is automatically deleted after import. If you want to keep it, add key 'keep_downloaded_file' to the &lt;properties&gt; section</p>		<p>This example uses mandatory fields only:</p> <pre>[code:xml] &lt;general&gt; &lt;importType&gt;MATROOS_NETCDF-CF_GRID&lt;/importType&gt; &lt;serverUrl&gt;http://matroos.deltares.nl&lt;/serverUrl&gt; &lt;/general&gt;  &lt;idMapId&gt;IdMapGrid&lt;/idMapId&gt; &lt;/general&gt;  &lt;properties&gt; &lt;string key="database" value="maps2d"/&gt; &lt;string key="source" value="nh30_maps_ecmwf_det"/&gt; &lt;/properties&gt; [code]</pre> <p>This example uses mandatory and optional fields:</p> <pre>[code:xml] &lt;general&gt; &lt;importType&gt;MATROOS_NETCDF-CF_TIMESERIES&lt;/importType&gt; &lt;serverUrl&gt;http://matroos.deltares.nl&lt;/serverUrl&gt; &lt;idMapId&gt;IdMapScalarNc&lt;/idMapId&gt; &lt;/general&gt;</pre>
Plugin - Module - Data Import	<a href="#">FEWS-19157</a>	New Import type: NEA real-time measurements from data.gov.sg	New importer for Singapore real-time weather data from NEA (National Environmental Agency)		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/SingaporeNEA+Import">https://publicwiki.deltares.nl/display/FEWSDOC/SingaporeNEA+Import</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19625</a>	LocationsIdHeaderCsv: skip last column when empty while importing CSV file				
Plugin - Module - Data Import	<a href="#">FEWS-20352</a>	Improve CMEMS import with properties			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/CMEMS">https://publicwiki.deltares.nl/display/FEWSDOC/CMEMS</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19601</a>	Extend get_maps1d_series with ensemble retrieval	Extended get_maps1d_series parser with ensemble retrieval, to be configured in properties		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties">https://publicwiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19505</a>	Environment Canada xml parser	created Environment Canada xml parser		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/CanadaMeteo">https://publicwiki.deltares.nl/display/FEWSDOC/CanadaMeteo</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19353</a>	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	<a href="#">FEWS-19561</a>	Parser Port of Rotterdam service			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/RotterdamPort">https://publicwiki.deltares.nl/display/FEWSDOC/RotterdamPort</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19612</a>	parser KIWIS webservice	parser KIWIS webservice		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Kiwis">https://publicwiki.deltares.nl/display/FEWSDOC/Kiwis</a>	
Plugin - Module - Data Import	<a href="#">FEWS-19433</a>	Improve authentication for import AKVO (API)	Akvoimport now supports AkvoFlow api v2	Akvoimport now supports AkvoFlow api v2.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Akvo">https://publicwiki.deltares.nl/display/FEWSDOC/Akvo</a>	
Plugin - Module - Data Import	<a href="#">FEWS-17164</a>	FEWS-17145 Import Module: CMEMS ocean model data (forecast - 2D)			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/cmems">https://publicwiki.deltares.nl/display/FEWSDOC/cmems</a>	



Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Error Correction	<a href="#">FEWS-18483</a>	FEWS-18050 FFFS: Allow use of attributes in Error module parameters			<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8683839">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8683839</a>	<pre> &lt;code&gt;&lt;xml&gt; &lt;autoOrderMethod&gt; &lt;orderSelection&gt;@ORDER_SELECTION@&lt;/order Selection&gt; &lt;parameters&gt; &lt;parameter type="ar" order="1"&gt;@AR_1@&lt;/parameter&gt; &lt;parameter type="ar" order="2"&gt;@AR_2@&lt;/parameter&gt; &lt;parameter type="ar" order="3"&gt;@AR_3@&lt;/parameter&gt; &lt;parameter type="ma" order="1"&gt;@MA_1@&lt;/parameter&gt; &lt;parameter type="ma" order="2"&gt;@MA_2@&lt;/parameter&gt; &lt;/parameters&gt; &lt;subtractMean&gt;@SUBTRACT_MEAN@&lt;/subtrac tMean&gt; &lt;boxcoxTransformation&gt;@BOXCOX@&lt;/boxcoxT ransformation&gt; &lt;lambda&gt;@LAMBDA@&lt;/lambda&gt; &lt;observedTimeSeriesId&gt;H.obs&lt;/observedTimeS eriesId&gt; &lt;simulatedTimeSeriesId&gt;H.sim&lt;/simulatedTime SeriesId&gt; &lt;outputTimeSeriesId&gt;H.updated&lt;/outputTimeS eriesId&gt; &lt;/code&gt; </pre>
Plugin - Module - General Adapter	<a href="#">FEWS-19605</a>	Adding checkMissing to exportnetcdfactivity			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+General+Adapter+Module#id:ImportShapeFileActivity">https://publicwiki.deltares.nl/display/FEWSDOC/25+General+Adapter+Module#id:ImportShapeFileActivity</a>	
Plugin - Module - General Adapter	<a href="#">FEWS-19393</a>	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.		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays">https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays</a>	
Plugin - Module - Interpolation, Plugin - Module Lookup	<a href="#">FEWS-19416</a>	3D dataset lookup and interpolation module	3D dataset lookup and interpolation module			
Plugin - Module - Modifiers (ModuleParameters)	<a href="#">FEWS-19554</a>	FEWS-13318 HyFS: Option to select all in modifier display			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes</a>	
Plugin - Module - Modifiers (ModuleParameters)	<a href="#">FEWS-18968</a>	FEWS-18957 NWS: #23360 SACCO climatology enhancements				

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Modifiers (ModuleParameters)	<a href="#">FEWS-18962</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes</a>	An example from Topology.xml: <pre> &lt;code&gt; &lt;/code&gt; </pre>
Plugin - Module - Modifiers (TimeSeries), System - PI Service	<a href="#">FEWS-20250</a>	FEWS-16132 FB 147 Delete All Mods Flag added to PI Service Mods Import		The putModifiers method of the rest and soap webservice (tomcat and embedded) now have a additional parameter. This parameter (deleteAllModifiers) can be used to delete all existing modifiers prior to inserting a new modifier.		
Plugin - Module - Modifiers (TimeSeries)	<a href="#">FEWS-19361</a>	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: <a href="https://publicwiki.deltares.nl/display/FEWSDOC/Simple+Merge">https://publicwiki.deltares.nl/display/FEWSDOC/Simple+Merge</a>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes</a>	<pre> &lt;code&gt; &lt;/code&gt; </pre>
Plugin - Module - Modifiers (ModuleParameters), Plugin - Module - Modifiers (TimeSeries)	<a href="#">FEWS-17738</a>	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 a 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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes</a>	<pre> &lt;code&gt; &lt;/code&gt; </pre>
Plugin - Module - Reports	<a href="#">FEWS-19342</a>	FEWS-13888 HyFS: Generation of 2 new report xml tables with threshold information			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module&amp;id=09ReportModule-forecastThresholdCrossingXml">https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module&amp;id=09ReportModule-forecastThresholdCrossingXml</a>	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
Plugin - Module - Reports	<a href="#">FEWS-16384</a>	FEWS-18957 NWS: #24940 Report exports in ESRI shapefile format				
Plugin - Module - Reports	<a href="#">FEWS-19742</a>	FEWS-13888 HyFS: add additional name to the floodScenarioXml report element			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module">https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module</a>	
Plugin - Module - Reports	<a href="#">FEWS-16455</a>	FEWS-18957 NWS: #24854 Dual axis charts not supported for PI rating curves in reports			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id=09ReportModule_ConfigurationExports">https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id=09ReportModule_ConfigurationExports</a>	
Plugin - Module - Reports	<a href="#">FEWS-19606</a>	Report schematicStatusDisplayPanelSnapshots*: add prefix/suffix with runtime / TO	Report schematicStatusDisplayPanelSnapshots*: add prefix/suffix with runtime / TO		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id=09ReportModule_snapshot">https://publicwiki.deltares.nl/display/FEWSDOC/09+Report+Module#id=09ReportModule_snapshot</a>	
Plugin - Module - Reports	<a href="#">FEWS-19276</a>	ThresholdWarningLevels: No data --> No warnings	ThresholdWarningLevels: No data --> No warnings		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/09+Thresholds#id=09Thresholds_ThresholdWarningLevels">https://publicwiki.deltares.nl/display/FEWSDOC/09+Thresholds#id=09Thresholds_ThresholdWarningLevels</a>	
Plugin - Module - Reports	<a href="#">FEWS-20455</a>	FEWS-13888 HyFS: Generation of one new XML report			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/HyFS+report+model+xml+report+generation">https://publicwiki.deltares.nl/display/FEWSDOC/HyFS+report+model+xml+report+generation</a>	
Plugin - Module - Thresholds	<a href="#">FEWS-19671</a>	FEWS-13888 HyFS: Thresholds must work with different relative view periods				
Plugin - Module - Transformation	<a href="#">FEWS-21125</a>	merge->selectDataSource only works for scalar time series, but not for grid time series				
Plugin - Module - Transformation	<a href="#">FEWS-19285</a>	FEWS-18957 NWS: #45716 Estimation with Spatial Interpolation	Added option to exclude the point of origin in the inverse-distance spatial interpolation transformation		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/InterpolationSpatialInverseDistance">https://publicwiki.deltares.nl/display/FEWSDOC/InterpolationSpatialInverseDistance</a>	
System	<a href="#">FEWS-20091</a>	Create Delft-FEWS Client installer (LINUX)				
System	<a href="#">FEWS-20090</a>	Create Delft-FEWS Client installer (Windows)				
System	<a href="#">FEWS-20153</a>	Create script to start and stop MAINTENANCE mode	2018.02 data_update scripts require maintenancemode. Therefore setmaintenancemode scripts have been made available		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Activate+or+deactivate+Maintenance+Mode+using+setmaintenancemode.sql+script">https://publicwiki.deltares.nl/display/FEWSDOC/Activate+or+deactivate+Maintenance+Mode+using+setmaintenancemode.sql+script</a>	
System	<a href="#">FEWS-16779</a>	FEWS-18477 Orchestrator - Automated software bundle formation and non-interactive deployment (A.2)				
Database, System	<a href="#">FEWS-17668</a>	FEWS-18451 Fews Database Https Proxy (JDBC for secure remote access)				
System	<a href="#">FEWS-16774</a>	FEWS-19332 AI: REST API - Non-interactive deployment of compute nodes (A.1)				
System	<a href="#">FEWS-16775</a>	FEWS-19332 AI: REST API - Public cloud compatibility (A.1)				
System - PI Service	<a href="#">FEWS-19199</a>	FEWS-17996 TVA FB 212 Cannot Retrieve Simulated Historical data from the REST webservice that is in the archive				
System - PI Service	<a href="#">FEWS-19947</a>	FEWS-19924 WMS Service: Support Contour lines				
System - PI Service	<a href="#">FEWS-21074</a>	FEWS-19650 FFS-PI: WMS kijkt maar 2 folders diep in de spatiaal display config				
System - PI Service	<a href="#">FEWS-20423</a>	FEWS web services: use of context files for redirecting to specific filters			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services#FEWSWebServices_AdvancedInstallationandConfiguration">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services#FEWSWebServices_AdvancedInstallationandConfiguration</a>	
System - PI Service	<a href="#">FEWS-20470</a>	FEWS-19650 FEWS Web Services should be readonly by default				
System - PI Service	<a href="#">FEWS-20350</a>	FEWS-19650 Fews Web Services global properties not working with new client config files				
System - PI Service	<a href="#">FEWS-19855</a>	Read-only support for FEWS webservices				

**Delft-FEWS 2018.02 Solved Features**

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example
System - PI Service	<a href="#">FEWS-19052</a>	FEWS-16626 WMS – FEWS WMS Web Service api documentation	WMS API has been documented	WMS API documentation can be found at: <a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-19050</a>	FEWS-16626 WMS – FEWS WMS Web Service GetMap	WMS GetMap request is supported	WMS GetMap request is supported	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-19051</a>	FEWS-16626 WMS – FEWS WMS Web Service GetLegendGraphic	legends supported in WMS	legends supported in WMS	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-19043</a>	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	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-19042</a>	FEWS-16626 WMS – FEWS should generate png based on bounding box	Extent is supported in WMS Service	Extent is supported in WMS Service	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-16625</a>	FEWS-18472 New: Retrieve gridded data			<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=134482048</a>	
System - PI Service	<a href="#">FEWS-16621</a>	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.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service</a>	
System - Session	<a href="#">FEWS-19244</a>	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 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> <activities> <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		
	<a href="#">FEWS-20559</a>	FEWS-17996 Allow status MC-MC synchronization while in false failover				
	<a href="#">FEWS-20571</a>	Microsoft install scripts for Hermes for 2018.02				
	<a href="#">FEWS-21191</a>	Create Unit test for 21186				
	<a href="#">FEWS-21177</a>	Investigate what would be necessary to make expressions work with comma decimal separator ','				
	<a href="#">FEWS-21190</a>	FEWS-20984 FEWS-ONS:Import CPTEC ETA data			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/CPTEC+ETA+data">https://publicwiki.deltares.nl/display/FEWSDOC/CPTEC+ETA+data</a>	
	<a href="#">FEWS-21188</a>	FEWS-20984 FEWS-ONS: Import Synoptic Data			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/ONS-Synoptic">https://publicwiki.deltares.nl/display/FEWSDOC/ONS-Synoptic</a>	
	<a href="#">FEWS-20679</a>	FEWS-19650 NGINX proxy and 413 Request Entity Too Large for uploading basebuild to admin interface				