
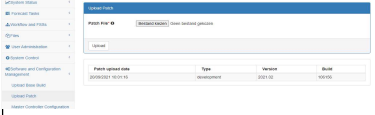
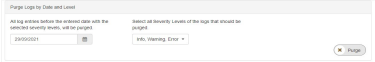

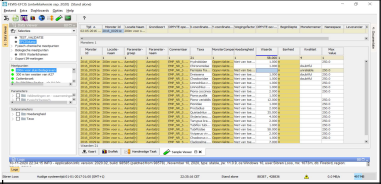
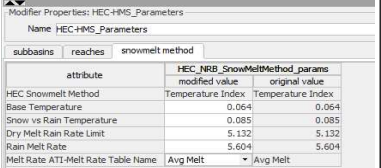
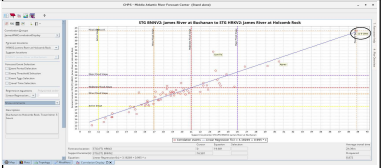
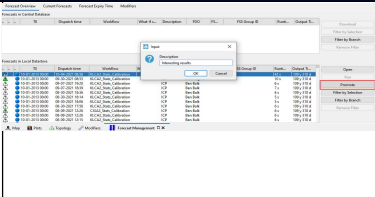
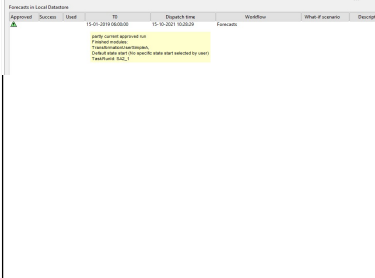
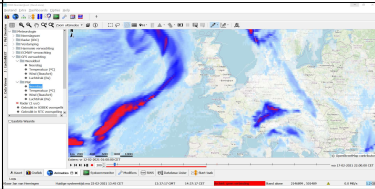
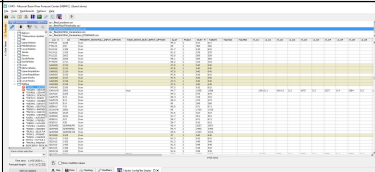

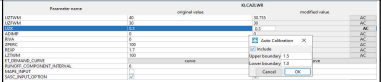


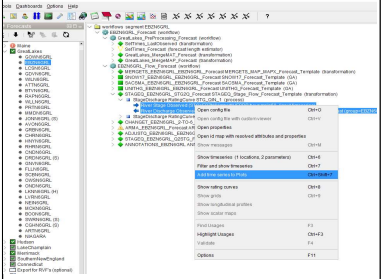
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Admin Interface	<a href="#">FEWS-24691</a>	FEWS-24683 NWS: (13) #82511 Allow user to replace the configuration of an AI scheduled task via uploaded task XML			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Scheduled+Tasks+-+Upload">https://publicwiki.deltares.nl/display/FEWSDOC/Scheduled+Tasks+-+Upload</a>		
App - Admin Interface, System - Admin Interface API	<a href="#">FEWS-24401</a>	FEWS-23599 Use CM/MC patch also for OC/FSS when no patch is listed in the clientConfig.xml	When the patch is not listed in the client Config, the OC / and FSS can use the patch uploaded for via the AI for the MC / Config Manager. The boot build of the FSS / OC needs to be at least 2021.02 #106157		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Software+and+Configuration+Management#Delft-FEWSAdminInterface-SoftwareandConfigurationManagement-UploadPatch">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Software+and+Configuration+Management#Delft-FEWSAdminInterface-SoftwareandConfigurationManagement-UploadPatch</a>		
App - Admin Interface	<a href="#">FEWS-24031</a>	FEWS-25134 AI delete log message by error level does not work correctly	Combination of date and one or more Log levels to purge logs	It is now possible to specify any combination of date and one or more Log levels to purge logs.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Log+Manager">https://publicwiki.deltares.nl/display/FEWSDOC/Log+Manager</a>		
App - Admin Interface	<a href="#">FEWS-23734</a>	FEWS-24399 AI UX verbeteringen: workflows filteren	FSS groups can be hidden using a filter	FSS groups can be hidden using a filter in the workflow to FSS Group mapping matrix.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+FSS+Groups+Mapping#WorkflowFSSGroupsMapping-FilterFSSGroups(since2021.02)">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+FSS+Groups+Mapping#WorkflowFSSGroupsMapping-FilterFSSGroups(since2021.02)</a>		
App - Archive	<a href="#">FEWS-25682</a>	FEWS-25134 Drop Archives table ( old archive )	The old Archive has already been made obsolete in 2017.02. As a final stage of the removal, the Archives table itself is dropped. Most active users are expected to already be migrated to the open archive. If not contact Delft-FEWS support.		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/The+Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDOC/The+Deltares+Open+Archive</a>		
App - Archive	<a href="#">FEWS-23746</a>	FEWS-24398 Archive: Harvesting variables holding location attributes					
App - Archive	<a href="#">FEWS-24730</a>	FEWS-24788 primefaces-5.0.jar should be upgraded			<a href="https://nvd.nist.gov/vuln/detail/CVE-2017-1000486">https://nvd.nist.gov/vuln/detail/CVE-2017-1000486</a>		
App - Archive	<a href="#">FEWS-24800</a>	FEWS-22250 Optimize harvester process external netcdf storage	the performance of the harvester for the external netcdf storage is improved	the performance of the harvester for the external netcdf storage is improved			
App - Configuration Manager Gui	<a href="#">FEWS-24688</a>	FEWS-24683 NWS: (8) #82739 Extend [Delete] button in CM to also remove associated revisions when an inactive file is deleted	A button to delete config revisions has been added and a button to cleanup all config files that are not referenced by any config revisions	A button to delete config revisions has been added and a button to cleanup all config files that are not referenced by any config revisions	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20.1+Configuration+Manager+-+2017.02+and+later#id-20.1ConfigurationManager-2017.02andlater-Deleteinexistingrevisions">https://publicwiki.deltares.nl/display/FEWSDOC/20.1+Configuration+Manager+-+2017.02+and+later#id-20.1ConfigurationManager-2017.02andlater-Deleteinexistingrevisions</a>		
App - Delft-FEWS	<a href="#">FEWS-23740</a>	Rijnland: verzoek tot ontwikkeling import via DD-API v2	Adding support for version 2.0 od digital delta import	Digital Delta offer two version of endpoints. By default, version 1.0 is used. Since 2021.02 version 2.0 is also supported by FEWS. To use the new version, add version v2 to the properties.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Digital+Delta">https://publicwiki.deltares.nl/display/FEWSDOC/Digital+Delta</a>	<pre> &lt;code&gt;xml &lt;import&gt; &lt;general&gt; &lt;importType&gt;DigitalDelta&lt;/importType&gt; &lt;serverUrl&gt;http://host.port/FewsWebServices/rest/digitaledelta/1.0/timeseries&lt;/serverUrl&gt; &lt;relativeViewPeriod unit="hour" start="-5" end="0" startOverrutable="true" endOverrutable="true"/&gt; &lt;idMapId&gt;idImportDD&lt;/idMapId&gt; &lt;/general&gt; &lt;properties&gt; &lt;string key="version" value="v2"&gt;&lt;/string&gt; &lt;/properties&gt; &lt;timeSeriesSet&gt; &lt;moduleId&gt;idImportDD&lt;/moduleId&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;MyPar&lt;/parameterId&gt; &lt;locationSetId&gt;MyLocSet&lt;/locationSetId&gt; &lt;timeSeriesType&gt;external historical&lt;/timeSeriesType&gt; &lt;timeStep unit="nonequidistant"/&gt; &lt;readWriteMode&gt;add originals&lt;/readWriteMode&gt; &lt;synchLevel&gt;1&lt;/synchLevel&gt; &lt;/timeSeriesSet&gt; &lt;/import&gt;                     </pre>	
App - Forecasting Shell Server	<a href="#">FEWS-24840</a>	FEWS-24400 Resolve environment variables in clientConfig	Referencing environment variables in clientConfig.xml	It is now possible to reference environment variable in the clientConfig.xml. %REGION_HOME% is still recognized as predefined property in the clientConfig.xml. Global properties can no longer be used in the clientConfig.xml. They did not work consistently for all elements in the clientConfig.xml	<a href="https://publicwiki.deltares.nl/x/BoYsC">https://publicwiki.deltares.nl/x/BoYsC</a>		
App - Launcher Gui	<a href="#">FEWS-24643</a>	FEWS-21828 Remove Encryption Dialog from code base	Encryption Dialog is not supported anymore	Encryption Dialog has been removed from the code	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/EncryptionDialog">https://publicwiki.deltares.nl/display/FEWSDOC/EncryptionDialog</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-22451</a>	FEWS-24683 NWS: (23) #68922 Option to export Lookup Tables defined within transformation modules					
App - Operator Client Gui (Explorer), Configuration	<a href="#">FEWS-24794</a>	FEWS-21828 Replace display descriptor in code by id wrapper	Display(Instance)Descriptors have been removed from the code and warnings will be logged when they are still used	Display(Instance)Descriptors have been removed from the code and warnings will be logged when they are still used	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageid=8683874">https://publicwiki.deltares.nl/pages/viewpage.action?pageid=8683874</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-25515</a>	<F12> + allow pasting <timeSeriesSets> besides <timeSeriesSet> as filter	Allow pasting multiple time series sets as temporary filter	Explorer F12 debug menu. Allow pasting <timeSeriesSets> besides <timeSeriesSet> as filter	<a href="https://publicwiki.deltaresota.nl/display/FEWSDOC/The+F12+menu">https://publicwiki.deltaresota.nl/display/FEWSDOC/The+F12+menu</a>		


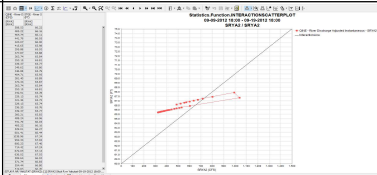
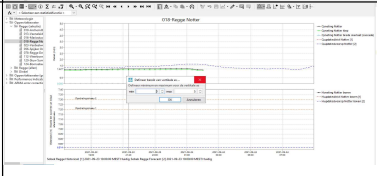
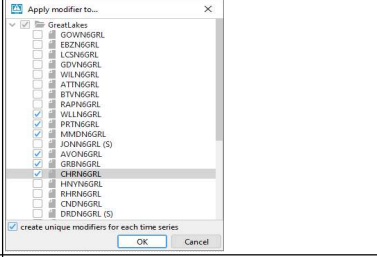
**Delft-FEWS 2021.02 Resolved Features**

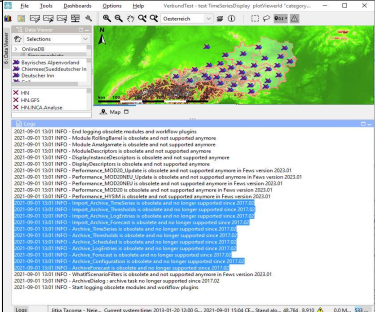
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Operator Client Gui (Explorer)	<a href="#">FEWS-25420</a>	FEWS-21063 Explorer: option to start workflow directly from File menu					
App - Operator Client Gui (Explorer), Configuration	<a href="#">FEWS-24575</a>	FEWS-24673 CF: IFD-config option to automatically reload configuration after a workflow is completed	<refreshConfigAfterCompletion> can be configured to automatically reload the FEWS configuration after a workflow is successfully run, if the client type is a Computational Framework.	<refreshConfigAfterCompletion> can be configured to automatically reload the FEWS configuration after a workflow is successfully run, if the client type is a Computational Framework.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology+id-24Topology-Reloadingconfiguration">https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology+id-24Topology-Reloadingconfiguration</a>		
App - Operator Client Gui (Explorer), Plugin - Gui-Web Browser Display	<a href="#">FEWS-25626</a>	FEWS-21063 WarmingUP: specify where jcef is located	A new option has been implemented for the Web Browser display so user can install the ICEF (Chromium) package in a different location	A new option has been implemented for the Web Browser display so user can install the ICEF (Chromium) package in a different location than the Modules/jcef folder. This allows a user to share a single installation of the ICEF package (+/- 190 Mb) between multiple FEWS configurations.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display">https://publicwiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-24728</a>	FEWS-24788 jetty-6.1.2rc0.jar should be upgraded	Embedded PI service now uses Embedded Tomcat 9.	Embedded PI service now uses Embedded Tomcat 9.  All jetty dependencies have been removed from FEWS	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Embedded++FEWS+PI+service">https://publicwiki.deltares.nl/display/FEWSDOC/Embedded++FEWS+PI+service</a>		
Configuration - ValidationStatus	<a href="#">FEWS-16493</a>	FEWS-21134 Option to switch on copyFlags and/or copyFlagSourceColumns in 1:1 transformations	The copy transformation can be used to copy flags, comments, properties, flagSources, and flagSourceColumns from an input time series to an output time series.		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Copy+transformation">https://publicwiki.deltares.nl/display/FEWSDOC/Copy+transformation</a>		
Configuration - ValidationStatus, Plugin - Module (Primary) Validation	<a href="#">FEWS-22656</a>	FEWS-22632 Validation based on historical period: nr/period of historical observations is flexible or configurable - sprint 4 - prio 1	Since FEWS version 2020.02 it is possible to export unreliables using generalCsv when there is a flag column configured. This is to prevent exporting untrustworthy data from FEWS without showing it should not be trusted.	Since FEWS version 2020.02 it is possible to export unreliables using generalCsv when there is a flag column configured. This is to prevent exporting untrustworthy data from FEWS without showing it should not be trusted.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Interactive+Export">https://publicwiki.deltares.nl/display/FEWSDOC/Interactive+Export</a>		
Database - Central Database	<a href="#">FEWS-25198</a>	FEWS-25134 Oracle 21c driver	New Oracle driver ojdbc11-21.1.0.0.jar		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/What%27s+new+in+the+installation+process">https://publicwiki.deltares.nl/display/FEWSDOC/What%27s+new+in+the+installation+process</a>		
Database - Central Database	<a href="#">FEWS-25197</a>	FEWS-25134 Upgrade mssql jdbc driver to 9.2	New SQLServer jdbc driver mssql-jdbc-9.2.1.jre11.jar		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/What%27s+new+in+the+installation+process">https://publicwiki.deltares.nl/display/FEWSDOC/What%27s+new+in+the+installation+process</a>		
Database - Central Database	<a href="#">FEWS-24968</a>	Connect to Azure SQL Server without username and password.	Azure system assigned identity to connect to Azure SQL database	Azure system assigned identity can be used to connect to Azure SQL database without specifying database credentials.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Azure+SQL+Server+database+system+assigned+managed+identity">https://publicwiki.deltares.nl/display/FEWSDOC/Azure+SQL+Server+database+system+assigned+managed+identity</a>		
Database - Datastore, Utility - Installation Scripts	<a href="#">FEWS-23660</a>	FEWS-23658 Implement/Review migration scripts Open Archive to MongoDB					
Database - localDataStore, Plugin - GUI - ComposedWhatif	<a href="#">FEWS-24543</a>	FEWS-24673 Whatif: delete backend					
Documentation	<a href="#">FEWS-25860</a>	Delft-FEWS website for generated documentation and XSD schemas	<a href="https://fewdocs.deltares.nl">https://fewdocs.deltares.nl</a>	Public website for generated Delft-FEWS documentation is available at:  [ <a href="https://fewdocs.deltares.nl">https://fewdocs.deltares.nl</a> ] [ <a href="https://fewdocs.deltares.nl/schemas/version1.0/">https://fewdocs.deltares.nl/schemas/version1.0/</a> ]	<a href="https://fewdocs.deltares.nl">https://fewdocs.deltares.nl</a>		
Module Adapter - HEC-HMS	<a href="#">FEWS-24327</a>	FEWS-24282 MH: HEC-HMS Adapter - Version 4.8 sub-basin Snowmelt Parameters					
Module Adapter - HEC-HMS	<a href="#">FEWS-24324</a>	FEWS-24282 MH: HEC-HMS Adapter - Upgrade existing adapter to version 4.8 of the model					
Module Adapter - Ribasim	<a href="#">FEWS-25512</a>	FEWS-25409 ribasimadapter: become smarter in writing TMS 1.01 and 1.04 files					
Module Adapter - DIMR	<a href="#">FEWS-25124</a>	FEWS DIMR adapter does not support lateral discharges (or other parameters in [lateral] block)	Add time series to the .bc files referred to in [lateral], using the Type property in [lateral].		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter#Delft-FEWS-DIMR-adapter-DFlowMComponent">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter#Delft-FEWS-DIMR-adapter-DFlowMComponent</a>		
Plugin - GUI - ComposedWhatif	<a href="#">FEWS-24544</a>	FEWS-24673 whatif: delete popup frontend					
Plugin - GUI - ComposedWhatif, Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-25659</a>	FEWS-25750 Whatif: compare results improvements					
Plugin - Gui - Correlation	<a href="#">FEWS-23420</a>	FEWS-24683 NWS: (15) #82224 Correlation Plot comments can be truncated	Correlation Display - label placement has been improved	The labels are always drawn inside the plot and they are not truncated	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/14+Correlation+Display">https://publicwiki.deltares.nl/display/FEWSDOC/14+Correlation+Display</a>		
Plugin - Gui - Dashboard	<a href="#">FEWS-24303</a>	FEWS-21134 Dashboards: add dataviewer selections to dashboards (favourites)	Adding dataviewer selections (+ favourites) to dashboards enabled	Besides (configured) display-groups and predefined plots, users can now add 'on-the-fly' selected timeseries in the dataviewer to a dashboard	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/33+Dashboard+Display">https://publicwiki.deltares.nl/display/FEWSDOC/33+Dashboard+Display</a>		

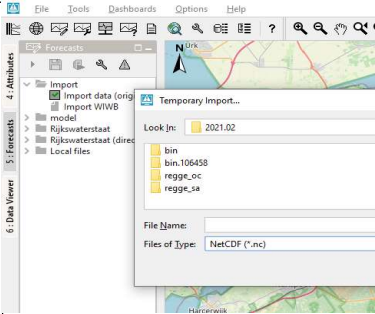
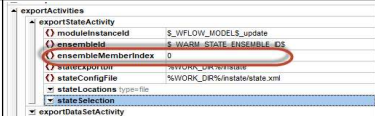
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Forecast Dialog, Plugin - Gui - Forecast Manager	<a href="#">FEWS-24785</a>	FEWS-17002 Distinguish final and intermediate runs	A promote button is added to the forecast management panel, this can be used to promote a local run to an approved server run. It will show a popup in which a description can be added which will be stored with the run.	A promote button is added to the forecast management panel, this can be used to promote a local run to an approved server run. It will show a popup in which a description can be added which will be stored with the run.  The button has been added for auto calibration which normally will just be local runs, when a user has found interesting results but might want to continue calibrating, this way the run is saved.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/07+Forecast+Manager#id-07ForecastManager.Promotebutton">https://publicwiki.deltares.nl/display/FEWSDOC/07+Forecast+Manager#id-07ForecastManager.Promotebutton</a>		
Plugin - Gui - Forecast Manager	<a href="#">FEWS-24560</a>	FEWS-24399 FCM: improve visualization parallel workflows	ForecastManager shows also running forecast workflows that are partly completed and approved	If the module has updateModuleRunTimesOnCompletion=true and it is also included in a forecast workflow with an option <completed>, then the forecast run is visible in ForecastManager even if not fully completed yet.  This forecast run has an icon "Partly current approved run" and the forecast run tooltip shows the modules that are finished so far . See picture PartlyCurrent.png  If the forecast run is a parallel run , the tooltip shows also the status and partition of the finished modules.			
Plugin - Gui - Grid Display, Plugin - Module - Data Import	<a href="#">FEWS-24690</a>	FEWS-24683 NWS: (11) #45718 Expand ability to process large gridded data sets	Ability to create GB-s of grid time steps in a single transformation without extra memory	The grid data created in a transformation is now flushed to the database before the end of the transformation if needed. The default memory setting of 1 GB is now in most cases enough for a CAJSSC			
Plugin - Gui - Grid Display	<a href="#">FEWS-25103</a>	FEWS-24683 NWS: #92410 Add ability to draw a polygon in Spatial Display for QA/QC of point data					
Plugin - Gui - Grid Display	<a href="#">FEWS-24274</a>	Allow precipitation on top of clouds (RGB layer) in the spatial display	Allow precipitation on top of clouds (RGB layer) in the spatial display	The true color grid layers are now using a separate "pixel to grid cell mapping" so one pixel can be assigned to a image cloud layer and a precipitation layer. Memory usage increases with 4 bytes per pixel in the spatial display when both layer types are used	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display#id-01GridDisplay.Displaytruecolorimagery(3-bands)(since2019.02#93400)">https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display#id-01GridDisplay.Displaytruecolorimagery(3-bands)(since2019.02#93400)</a>		
Plugin - Gui - Grid Display	<a href="#">FEWS-24227</a>	Last Value Checkbox shows last non-missing value at any given grid cell					
Plugin - Gui - Grid Display	<a href="#">FEWS-25589</a>	FEWS-25299 Spatial Display - position of vertical slider					
Plugin - GUI - IFD - Dataviewer	<a href="#">FEWS-25799</a>	Add option in filters to only show light red crosses when there is "non-deleted" data outside the view period	Option added in filters to not show a light red cross when only deleted data is outside the view period.	In the data viewer a light red cross is displayed when there is data available outside the view period. By default for performance reasons a red cross is still displayed when values once exist but are now deleted. When this option is set to false the complete available time series are read to take the deletions outside the view period into account.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/07+Filters#id-07Filters.ignoreDeletionsOutsideViewPeriod">https://publicwiki.deltares.nl/display/FEWSDOC/07+Filters#id-07Filters.ignoreDeletionsOutsideViewPeriod</a>	<pre>(code:xml) &lt;filter id="deletions"&gt; &lt;ignoreDeletionsOutsideViewPeriod&gt;false&lt;/ignoreDeletionsOutsideViewPeriod&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceld&gt;import&lt;/moduleInstanceld&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;P.m&lt;/parameterId&gt; &lt;locationSetId&gt;Meteo Stations&lt;/locationSetId&gt; &lt;timeSeriesType&gt;external historical&lt;/timeSeriesType&gt; &lt;timeStep unit="nonequidistant"/&gt; &lt;relativeViewPeriod unit="day" start="-4" end="0"/&gt; &lt;readWriteMode&gt;editing visible to all future task runs&lt;/readWriteMode&gt; &lt;/timeSeriesSet&gt; &lt;/filter&gt; (code)</pre>	
Plugin - GUI - IFD - Forecaster Help	<a href="#">FEWS-24727</a>	FEWS-24788 Bounty castle library bcprow-jdk15.jar should be upgraded	bprov-jdk15.jar upgraded	bprov-jdk15.jar upgraded	<a href="https://nvd.nist.gov/vuln/detail/CVE-2018-1000613">https://nvd.nist.gov/vuln/detail/CVE-2018-1000613</a>		
Plugin - GUI - IFD - Forecasts, Plugin - Gui - Tabular Config Files Display	<a href="#">FEWS-24635</a>	FEWS-24683 NWS: #89728 Tabular Config Files Display filtering on locationid's in Topology.xml	when location ids are specified, for example <locationId>640</locationId>, filter location attributes accordingly.		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20+Tabular+Config+Files+Display">https://publicwiki.deltares.nl/display/FEWSDOC/20+Tabular+Config+Files+Display</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-25334</a>	FEWS-25409 Make IFD buttons (invisible (config option))	Add config option to make modifier and threshold icons invisible in the topology tree	Add config option to make modifier and threshold icons invisible in the topology tree	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology+id-24+Topology-Buttons">https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology+id-24+Topology-Buttons</a>	<pre>&lt;code&gt;xml &lt;topology 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/topology.xsd"&gt; &lt;hideModifiersButton&gt;true&lt;/hideModifiersButton&gt; &lt;hideThresholdsButton&gt;true&lt;/hideThresholdsButton&gt; &lt;enableAutoRun&gt;false&lt;/enableAutoRun&gt; &lt;nodes id="Tasks"&gt; ... &lt;/nodes&gt; &lt;/topology&gt; &lt;/code&gt;</pre>	
Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-22156</a>	FEWS-24673 IFD: Show runstatus by icon and tooltips for whatif nodes					
Plugin - GUI - IFD - Forecasts	<a href="#">FEWS-24678</a>	FEWS-24673 IFD/whatif: allow secondary workflow button only when run is persistent on server	Disable the secondary workflow when the main workflow is not persistent	<pre>&lt;node id="exampleNode" name="exampleNode"&gt; &lt;workflowId&gt;Test_WhatifSettings&lt;/workflowId&gt; &lt;secondaryWorkflowId&gt;Test_ImportArchivedWhatif&lt;/secondaryWorkflowId&gt; &lt;enableSecondaryWorkflow&gt;onlyWhenMainWorkflowIsPersistedOnServer&lt;/enableSecondaryWorkflow&gt; &lt;whatifTemplateId&gt;whatif_example&lt;/whatifTemplateId&gt; &lt;localRun&gt;true&lt;/localRun&gt; &lt;saveLocalRunEnabled&gt;true&lt;/saveLocalRunEnabled&gt; &lt;showRunApprovedForecastButton&gt;true&lt;/showRunApprovedForecastButton&gt; &lt;/node&gt;</pre>	For each node the option enableSecondaryWorkflow is available.		
Plugin - Gui - ModuleParameter Modifiers - Auto calibration	<a href="#">FEWS-25732</a>	FEWS-17002 Set default values for the OpenDA SCE algorithm					
Plugin - Gui - ModuleParameter Modifiers - Auto calibration	<a href="#">FEWS-25707</a>	FEWS-17002 openDA Version number	OpenDA version will be logged at the start of an auto calibration run	OpenDA version will be logged at the start of an auto calibration run	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration">https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration</a>		
Plugin - Gui - ModuleParameter Modifiers - Auto calibration	<a href="#">FEWS-24784</a>	FEWS-17002 Use existing min max modifiers values for default upper and lower bounds for auto calibration parameters	The min and max values of the parameters from ModifierTypes.xml are now taken as default for lower and upper bounds of auto calibration parameters.	The min and max values of the parameters from ModifierTypes.xml are now taken as default for lower and upper bounds of auto calibration parameters.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration">https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration</a>	<pre>&lt;code&gt;xml &lt;multipleModuleParameterModifier id="snow17 calibration" name="snow17 calibration"&gt; &lt;expiryTimeDeletedModifiers unit="week" multiplier="1"&gt; &lt;numberParameter id="SCF"&gt; &lt;minimumValue&gt;0&lt;/minimumValue&gt; &lt;interModelRelation&gt;preserve ratio&lt;/interModelRelation&gt; &lt;/numberParameter&gt; &lt;numberParameter id="MFMAX"&gt; &lt;minimumValue&gt;0&lt;/minimumValue&gt; &lt;interModelRelation&gt;preserve ratio&lt;/interModelRelation&gt; &lt;/numberParameter&gt; &lt;numberParameter id="MFMIN"&gt; &lt;minimumValue&gt;0&lt;/minimumValue&gt; &lt;interModelRelation&gt;preserve ratio&lt;/interModelRelation&gt; &lt;/numberParameter&gt; &lt;numberParameter id="NMF"&gt; &lt;minimumValue&gt;0&lt;/minimumValue&gt; &lt;maximumValue&gt;999&lt;/maximumValue&gt; &lt;interModelRelation&gt;preserve ratio&lt;/interModelRelation&gt; &lt;/numberParameter&gt; &lt;numberParameter id="UADI"&gt; &lt;minimumValue&gt;0&lt;/minimumValue&gt; &lt;maximumValue&gt;999&lt;/maximumValue&gt; &lt;interModelRelation&gt;preserve ratio&lt;/interModelRelation&gt; &lt;/code&gt;</pre>	
Plugin - Gui - ModuleParameter Modifiers - Auto calibration	<a href="#">FEWS-24783</a>	FEWS-17002 Store Auto Calibration parameter settings in user settings	The upper and lower boundaries for auto calibration will be stored and taken from user settings.	The upper and lower boundaries for auto calibration will be stored and taken from user settings.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration#AutoCalibration:RMSE_iterations.csv">https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration#AutoCalibration:RMSE_iterations.csv</a>		
Plugin - Gui - ModuleParameter Modifiers - Auto calibration	<a href="#">FEWS-24782</a>	FEWS-17002 Change headers of iterations.csv from OpenDA	When the auto calibration is done there will be a RMSE_iterations.csv in the Modules\OpenDA\runDir\ which will contain all the different parameters and costs of all iterations	When the auto calibration is done there will be a RMSE_iterations.csv in the Modules\OpenDA\runDir\ which will contain all the different parameters and costs of all iterations	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration#AutoCalibration:RMSE_iterations.csv">https://publicwiki.deltares.nl/display/FEWSDOC/Auto+Calibration#AutoCalibration:RMSE_iterations.csv</a>		
Plugin - GUI - Sample Viewer	<a href="#">FEWS-25798</a>	Add delete sample option in SampleViewer	Samples can be deleted via the right mouse menu, this will also delete all values belonging to the sample	Samples can be deleted via the right mouse menu, this will also delete all values belonging to the sample	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/18+Sample+Viewer+id-18+SampleViewer-Deletesamples">https://publicwiki.deltares.nl/display/FEWSDOC/18+Sample+Viewer+id-18+SampleViewer-Deletesamples</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - System Monitor	<a href="#">FEWS-23546</a>	FEWS-24399 OC-SystemMonitor: show expected completion time	Display task details in the running tasks tab of the System monitor	Display task details in the running tasks tab of the System monitor	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/08+System+Monitor">https://publicwiki.deltares.nl/display/FEWSDOC/08+System+Monitor</a>	<p>In the running tasks tab of the System monitor the task details can be displayed. To enable this, two config settings are necessary.</p> <ol style="list-style-type: none"> <li>In the Workflow file the option '&lt;completed&gt;' should be configured after each module instance {code:xml}</li> </ol> <pre>&lt;activity&gt; &lt;runIndependent&gt;true&lt;/runIndependent&gt; &lt;moduleInstanceId&gt;CanadaMeteo&lt;/moduleInsta nced&gt; &lt;/activity&gt; &lt;completed&gt; &lt;moduleInstanceId&gt;CanadaMeteo&lt;/moduleInsta nced&gt; &lt;/completed&gt; {code}</pre> <ol style="list-style-type: none"> <li>In the module instance descriptors 'updateModuleRunTimesOnCompletion' needs to be enabled. {code:xml}</li> </ol> <pre>&lt;moduleInstanceDescriptor id="CanadaMeteo"&gt; &lt;updateModuleRunTimesOnCompletion&gt;true&lt;/u pdateModuleRunTimesOnCompletion&gt; &lt;/moduleInstanceDescriptor&gt; {code}</pre>	
Plugin - Gui - TaskRunDialog	<a href="#">FEWS-25724</a>	FEWS-25134 Remove / clean old code related to old Archive - e.g. TaskRunDialog	TaskRunDialog : archive task no longer supported since 2017.02	<p>If there is an archiveTask configured in the TaskRunDialog.xml , the following message is logged</p> <pre>_"archive task no longer supported since 2017.02"_</pre> <p>Also the TaskRunDialog schema contains the same message.</p>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/12+Task+Run+Dialog+Display">https://publicwiki.deltares.nl/display/FEWSDOC/12+Task+Run+Dialog+Display</a>		
Plugin - Gui - TaskRunDialog	<a href="#">FEWS-24729</a>	FEWS-21828 Phase out (old) Taskrun Dialog	TaskRunDialog will be removed in 2023.01	<p>Explorer F12 menu "T export -&gt; log obsolete modules and explorer plugins" logs the following message for the TaskRunDialog :</p> <pre>INFO - &lt;config file name&gt; : archive task no longer supported since 2017.02. The whole plugin will be removed in 2023.01</pre> <p>For example :</p> <pre>INFO - TaskRunDialog : archive task no longer supported since 2017.02. The whole plugin will</pre>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/12+Task+Run+Dialog+Display">https://publicwiki.deltares.nl/display/FEWSDOC/12+Task+Run+Dialog+Display</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-22544</a>	FEWS-22536 NWS: #67622 When adding new timeseries to plots, all previously combined plots are split	WFn popup menu "Add timeseries to plots" adds time series to the plots and keeps the configured plot layout	<p>The time series are added to the existing subplot, if possible. Otherwise a new subplot is created .</p> <p>An example:</p> <p>Picture1 shows the plots as configured in DisplayGroups.</p> <p>In WFn two time series are selected to add to the plots (Picture2).</p> <p>Picture3 shows the plots after adding the time series selected in WFn. The hourly time series "STG EBZNG" is added to the existing subplot. To show "QIN", a new subplot is crated.</p> <p>The added time series are shown only in plots, not in the Thumbnails, and disappear again when we switch to another thumbnail, or when we select another display in Shortcuts, or if we select any time series in DataViewer</p>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Navigator</a>		

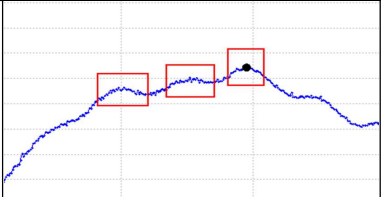
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Time Series	<a href="#">FEWS-24283</a>	FEWS-24282 MH: Request for Box Plots as a preconfigured display option	DisplayGroups: option statisticalFunctionId to create a preconfigured display with statistics	To created preconfigured displays with statistics, first assign the unique id's to the required statisticalFunction's in the TimeSeriesDisplay.xml, for example : {code:java} <statisticalFunction function="boxPlot" id="boxPlot3h" label="boxPlot3h" ignoreMissings="true">{code} This Id can be entered in the element <statisticalFunctionId> in DisplayGroups.xml, to create a predefined display : {code:java} <display name="Example"> <locationId>LocA</locationId> <plotId>ExamplePlot</plotId> <statisticalFunctionId>boxPlot3h</statisticalFunctionId> </display>{code}	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03displayGroups-statisticalFunctionIdtocreateapreconfigureddisplay">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03displayGroups-statisticalFunctionIdtocreateapreconfigureddisplay</a>		
Plugin - Gui - Time Series, Plugin - Module - Data Export	<a href="#">FEWS-24687</a>	FEWS-24683 NWS: (7) #79204 Ability to "Save As" .dss format via right-click in the table view of a time series plot during an OC session	Using the interactive export for exporting .dss files is already possible by using the full serializer java class name	Using the interactive export for exporting .dss files is already possible by using the full serializer java class name	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/interactive+Export">https://publicwiki.deltares.nl/display/FEWSDOC/interactive+Export</a>	<pre>&lt;code&gt;xml&lt;/code&gt; &lt;interactiveExportFormats&gt; &lt;interactiveExportFormat&gt; &lt;name&gt;DSS&lt;/name&gt; &lt;serializerClassName&gt;nl.wideft.timeseriesserializers.HecDssTimeSeriesSerializer&lt;/serializerClassName&gt; &lt;fileFilter&gt;dss&lt;/fileFilter&gt; &lt;idMapId&gt;IdExportDSS&lt;/idMapId&gt; &lt;/interactiveExportFormat&gt; &lt;/interactiveExportFormats&gt;</pre>	
Plugin - Gui - Time Series	<a href="#">FEWS-25055</a>	FEWS-24683 NWS: (14) #81609 Add HEC-RAS Rating Curve output to FEWS via showAsScatterPlot improvements	DisplayGroups – showAsScatterPlot : displaying date/time of datapoints in the tooltip	Date and time are displayed on hovering over the dots in the chart, and over the table cells in the table	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups">https://publicwiki.deltares.nl/display/FEWSDOC/03+Display+Groups</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-19729</a>	FEWS-25560 Waternet: several new options in graph	Grafieken: interactief instellen Y-as met een minimum en maximum waarden	Het instellen is mogelijk met een pop up menu optie "Definieer bereik van verticale as ...", zie afbeelding ChartPopupMenu.PNG Deze optie is alleen actief als het zoomen in verticale as toegestaan is. In a pop up dialog kan men minimum en maximum waarde instellen. Zie afbeelding VertikaleAsBereik.PNG  Het ingestelde bereik wordt weer ongedaan gemaakt door het zoomen in de desbetreffende	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/04+Data+Display+and+Data+Editor#id-04DataDisplayandDataEditor-Zoomtoorange...">https://publicwiki.deltares.nl/display/FEWSDOC/04+Data+Display+and+Data+Editor#id-04DataDisplayandDataEditor-Zoomtoorange...</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-25585</a>	Add config option to make TimeSeriesDisplay buttons moveToFirst and moveToLast view period invisible	Add config option to make TimeSeriesDisplay buttons moveToFirst and moveToLast view period invisible	Add config option to make TimeSeriesDisplay buttons moveToFirst and moveToLast view period invisible	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Button+Visibility+Settings">https://publicwiki.deltares.nl/display/FEWSDOC/Button+Visibility+Settings</a>		
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-25181</a>	FEWS-24767 Keep location selection in modifier display when changing modifier type					
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-24689</a>	FEWS-24683 NWS: (9) #75314 Extend Apply To with an option to generate individually editable modifiers	Modifiers : Apply To extended with an option "create unique modifiers for each time series"	This option makes possible to create a modifier as an unique independent modifier for each of the selected segments.  This option is useful when many segments need the same type of modifier but the forecaster needs to make adjustments to a subset of the initial group modifier.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-%22Applyto%22option">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-%22Applyto%22option</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-25243</a>	FEWS-22443 TopologyEditor: PluginFramework for SourcePriorityPanel					
Plugin - Gui - Topology Editor	<a href="#">FEWS-24993</a>	FEWS-22443 topologyeditor: remember map extent					
Plugin - GUI - Verification Analysis Display	<a href="#">FEWS-24977</a>	FEWS-24972 HyFS: PAT Editor improvements	The verification analysis display shows different forecasts with their values and value properties for different locations. Some value properties be edited if that has been configured for the column.	The verification analysis display shows different forecasts with their values and value properties for different locations.  Some value properties be edited if that has been configured for the column.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/26+Verification+Analysis+Display">https://publicwiki.deltares.nl/display/FEWSDOC/26+Verification+Analysis+Display</a>	See documentation link	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - What-if Scenario, Plugin - Module - Spatial Modifiers	FEWS-24508	Functionality for user to define oil spill (patch, point, continuous, instantaneous) in the spatial display and use them in what if scenario	Export a shape file in the general adapter that represents the selected area in the spatial display	A run workflow button can be configured in the spatial display. This existing functionality is now extended. When a polygon/area is selected in the spatial display instead of a single point this area is added to the task properties. This area can be exported as shape file from the general adapter.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display#id-01GridDisplay-workflow">https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display#id-01GridDisplay-workflow</a>		
Plugin - Module - Archive	FEWS-24686	FEWS-24683 NWS: (4) #79471 Add ModuleInstanceSet to the ModuleStateExportActivity schema for Open Archive	ExportArchiveModule -moduleStateExportActivity : allows also moduleInstanceSetId and moduleInstanceSetPattern	Configuration elements moduleInstanceSetId and moduleInstanceSetPattern can be used to export only models states of interest.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/22-2+Export+to+Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDOC/22-2+Export+to+Deltares+Open+Archive</a>		
Plugin - Module - Archive	FEWS-25698	FEWS-21828 add old archives to code-clean up check (F12)	Old archive and F12 option "log obsolete modules and explorer plugins"	Use option F12 -> T export -> "log obsolete modules and explorer plugins" to scan the config for obsolete plugins.  If the config still uses the old archive configuration , the following message will be logged : "<plugin name >is obsolete and no longer supported since 2017.02"	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/10+Archiving+Display++EOL#id-10ArchivingDisplay-EOL-ArchivingDisplay">https://publicwiki.deltares.nl/display/FEWSDOC/10+Archiving+Display++EOL#id-10ArchivingDisplay-EOL-ArchivingDisplay</a>		
Plugin - Module - Data Export	FEWS-21330	FEWS-21134 Extend Ascii GRID export for a configured period	A new import export feature was added for MapStacks, a format typically used by the General Adapter to transfer gridded timeseries data from and to external models.	A new import export feature was added for MapStacks, a format typically used by the General Adapter to transfer gridded timeseries data from and to external models.  To make the used file structure easier to use by external software, a new option has been implemented by adding a fileNameDateTimeMask property to control the use of a date / time stamp in the generated file names.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/PI+Mapstack+ASCII+export">https://publicwiki.deltares.nl/display/FEWSDOC/PI+Mapstack+ASCII+export</a>	<?xml version="1.0" encoding="UTF-8"?> <timeSeriesExportRun 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/timeSeriesExportRun.xsd"> <export> <general> <exportType>pi_ascii_map_stack</exportType> <folder>EXPORT_FOLDERS</folder> <exportFileName> <name>mapstack_grid.xml</name> </exportFileName> <idMapId>MapStack</idMapId> </general> <properties> <string key="fileNameDateTimePattern" value="yyyyMMdd_HHmm"></string> </properties> <timeSeriesSet> <moduleInstanceId>ExportMapStackAscii</moduleInstanceId> <valueType>grid</valueType> <parameterId>H.m</parameterId> <locationId>H-2001</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour"/>	
Plugin - Module - Data Export	FEWS-24558	NetCdf serializers should use NaN instead of 9.96921e+036f as DEFAULT_FILL_VALUE_FOR_DATA_VARIABLE	NetCdf serializers can optionally write NaN as fillValue c.q. missing value	NetCdf serializers use 9.96921e+036f as fillValue c.q. missing value by default.  To use NaN instead, configure missing value NaN in TimeSeriesExport.xml or GeneralAdapter.xml	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/NETCDF-CF_GRID+Export">https://publicwiki.deltares.nl/display/FEWSDOC/NETCDF-CF_GRID+Export</a>		
Plugin - Module - Data Export	FEWS-24978	FEWS-24972 HyFS: Export Peak Heights to XML	export peak heights to pi xml format		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Export+module%2C+available+data+types">https://publicwiki.deltares.nl/display/FEWSDOC/Export+module%2C+available+data+types</a>		
Plugin - Module - Data Export	FEWS-24924	HDSR FEWS EFCIS: Tijdzone interactive exports	Option to specify an explicit time zone that must be used for the interactive export has been added.	Option to specify an explicit time zone that must be used for the interactive export has been added.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Interactive+Export">https://publicwiki.deltares.nl/display/FEWSDOC/Interactive+Export</a>	<code>xml</code> <interactiveExportFormats> <interactiveExportFormat> <name>Export Fysische-Chemie beknopt</name> <exportType>generalCsv</exportType> <idMapId>IdExport_ItMmetingen</idMapId> <timeZoneName>AST</timeZoneName> ... </interactiveExportFormat> <interactiveExportFormat> <name>Export Fysische-Chemie uitgebreid</name> <exportType>generalCsv</exportType> <idMapId>IdExport_ItMmetingen</idMapId> <timeZoneOffset>+03:15</timeZoneOffset> </code>	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Data Import	<a href="#">FEWS-24684</a>	FEWS-24683 NWS: (1) #46490 Update NetCDF import to work for GFE generated .nc files					
Plugin - Module - Data Import	<a href="#">FEWS-25510</a>	GeneralCSV import - make id attribute of flagSourceColumn in table element optional	Import type GeneralCsv : id attribute of flagSourceColumn is optional	If flagSourceColumn has an id , then the custom flag source from the file is used, otherwise default file source is used	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv#GeneralCsv-importtype">https://publicwiki.deltares.nl/display/FEWSDOC/General+Csv#GeneralCsv-importtype</a>		
Plugin - Module - Data Import	<a href="#">FEWS-25263</a>	CMEMS import: Improvements to the CMEMS importer to speed up.	Add new config options to CMEMS import to reduce number of calls	Attempting to import too many data points at once can cause an error on the data provider (server) side. The default way of importing data is per time step and per layer. If the grids are very small, it can be possible to import several time steps or layers at once. For this, properties importAllLayersAtOnce and importTimePeriodAtOnce should be set to true. The properties can be used independently of each other. If importAllLayersAtOnce is set to true, data from all layers available between the highest and lowest will be downloaded, even for ones that are not configured in FEWS and not needed.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/CMEMS">https://publicwiki.deltares.nl/display/FEWSDOC/CMEMS</a>	<pre> &lt;code&gt;xml &lt;import&gt; &lt;general&gt; &lt;importType&gt;Cmems&lt;/importType&gt; &lt;serverUrl&gt;http://nrt.cmems-du.eu/motu-web/Motu?action=productdownload&lt;/serverUrl&gt; &lt;user&gt;USERNAME&lt;/user&gt; &lt;password&gt;PASSWORD&lt;/password&gt; &lt;relativeViewPeriod unit="hour" start="-24" end="0" startOverrutable="true"/&gt; &lt;idMapId&gt;IdImportCmems&lt;/idMapId&gt; &lt;unitConversionsId&gt;ImportUnitConversions&lt;/unitConversionsId&gt; &lt;expiryTime unit="week" multiplier="500"/&gt; &lt;/general&gt; &lt;properties&gt; &lt;string keys="DATA_TYPE" value="HOURLY"&gt;&lt;/string&gt; &lt;string keys="TICKET_URL" value="https://cmems-cas.cl.fr/cas/v1/tickets"/&gt; &lt;string keys="product" value="global-analysis-forecast-phy-001-024-hourly-t-u-v-ssh"/&gt; &lt;string keys="service" value="GLOBAL_ANALYSIS_FORECAST_PHY_001_024-TD"/&gt; &lt;!-- &lt;bool keys="importAllLayersAtOnce" value="true"/&gt;--&gt; &lt;!-- &lt;bool keys="importTimePeriodAtOnce" value="true"/&gt;--&gt; &lt;/properties&gt; </pre>	
Plugin - Module - Data Import	<a href="#">FEWS-22931</a>	FEWS-22929 New idea 2 - Extend temporary import to CSV and NetCDF (scalar, grids)	A new temporary import option has been implemented for NetCDF files	A new temporary import option has been implemented for NetCDF files. The temporary import is available from the Explorer/OC file menu and supports both 1D scalar time series and 2G gridded data (single time step)	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/02+FEWS+Explorer#id-02FEWSExplorer-File-Temporaryimport">https://publicwiki.deltares.nl/display/FEWSDOC/02+FEWS+Explorer#id-02FEWSExplorer-File-Temporaryimport</a>		
Plugin - Module - Data Import	<a href="#">FEWS-25700</a>	Extend Import framework : Take forecast time from zig file name.					
Plugin - Module - Data Import	<a href="#">FEWS-24973</a>	FEWS-24972 HyFS: Improvements to AifsML import	Some value properties have been updated in the AifsML import	Some value properties have been updated in the AifsML import	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/AifsML">https://publicwiki.deltares.nl/display/FEWSDOC/AifsML</a>		
Plugin - Module - Data Import	<a href="#">FEWS-25778</a>	FEWS-25409 DataImport: allow using \$WHAT_IF_NAMES	\$WHAT_IF_NAMES as predefined global property	New predefined property that can be used anywhere in a workflow or module config file and id.mans	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/global+properties+file">https://publicwiki.deltares.nl/display/FEWSDOC/global+properties+file</a>		
Plugin - Module - Data Import	<a href="#">FEWS-25394</a>	FEWS-25409 DataImport: ignoreNonExistingLocationSet	It is possible to set ignoreNonExistingLocationSets to true. Then time series sets which contain a non existing location set id will be ignored instead of resulting in an error. This is very useful for combining template loops where multiple	It is possible to set ignoreNonExistingLocationSets to true. Then time series sets which contain a non existing location set id will be ignored instead of resulting in an error. This is very useful for combining template loops where multiple tags are replaced and some combinations of tags are invalid.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Import+Module+configuration+options#ImportModuleconfigurationoptions-IgnoreNonExistingLocationSets">https://publicwiki.deltares.nl/display/FEWSDOC/Import+Module+configuration+options#ImportModuleconfigurationoptions-IgnoreNonExistingLocationSets</a>		
Plugin - Module - Data Import	<a href="#">FEWS-24848</a>	import type: pi_server should use REST service for import	Starting with version 2021.02 pi-server imports connect to the REST instead of the SOAP service. Please update the URL of your configuration.	Starting with version 2021.02 pi-server imports connect to the REST instead of the SOAP service. Please update the URL of your configuration.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/PI+Webservice+import">https://publicwiki.deltares.nl/display/FEWSDOC/PI+Webservice+import</a>		
Plugin - Module - General Adapter	<a href="#">FEWS-24817</a>	add option in GA to export netcdf files with flipped Y axis (decrease in Y axis)					
Plugin - Module - General Adapter	<a href="#">FEWS-24465</a>	FEWS-16132 BPA Hermes: new ExportActivity in GA: ExportModuleRunTables					
Plugin - Module - General Adapter	<a href="#">FEWS-25011</a>	FEWS-24378 GA: Include locationAttributes as properties in exportNetCDF RunFile					
Plugin - Module - General Adapter	<a href="#">FEWS-25056</a>	In GA/exportStateActivity, allow for ensembleMemberIndex to be made explicit	Use EnsembleMemberId to resolve the state in a forecast run.		<a href="https://publicwiki.deltares.nl/display/FEWSDOC/05+General+Adapter+Module#id-05GeneralAdapterModule-EnsembleMemberId">https://publicwiki.deltares.nl/display/FEWSDOC/05+General+Adapter+Module#id-05GeneralAdapterModule-EnsembleMemberId</a>	<pre> &lt;code&gt;xml &lt;exportStateActivity&gt; &lt;moduleInstancelId&gt;ExportStateActivity&lt;/moduleInstancelId&gt; &lt;ensembleId&gt;A&lt;/ensembleId&gt; &lt;ensembleMemberId&gt;X&lt;/ensembleMemberId&gt; &lt;/code&gt; </pre>	



**Delft-FEWS 2021.02 Resolved Features**

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - General Adapter	<a href="#">FEWS-24464</a>	FEWS-23543 GA: Make geodatum configurable in exportNetcdfActivity					
Plugin - Module - Modifiers (TimeSeries)	<a href="#">FEWS-22501</a>	FEWS-24683 NWS: (20) #75536 Cannot configure more than one reverseOrderModifier	ModifierTypes configuration allows multiple mergeSimpleModifiers (reverseOrderModifiers)	ModifierTypes configuration allows multiple mergeSimpleModifiers (reverseOrderModifiers)	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-ReverseOrderModifiers">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-ReverseOrderModifiers</a>		
Plugin - Module - Secondary Validation	<a href="#">FEWS-23838</a>	FEWS-21134 Sec.Validation SeriesComparisonCheck should support logging the input values.	A new tag %INPUT_VALUE[<variableId>]% is added to the seriesComparison check. This logs the input value of a specific variable.	A new tag %INPUT_VALUE[<variableId>]% is added to the seriesComparison check. This logs the input value of a specific variable.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/SeriesComparisonCheck">https://publicwiki.deltares.nl/display/FEWSDOC/SeriesComparisonCheck</a>		
Plugin - Module - Transformation	<a href="#">FEWS-24685</a>	FEWS-24683 NWS: (3) #82760 Recommended change to FEWS spatial averaging transformation					
Plugin - Module - Transformation	<a href="#">FEWS-24246</a>	FEWS-21134 Custom Transformation can use location-attributes					
Plugin - Module - Transformation	<a href="#">FEWS-14655</a>	Speed-up user-simple grid transformations					
Plugin - Module - Transformation	<a href="#">FEWS-24976</a>	FEWS-24972 HyFS: Improvements Metrics Calculation	ThresholdExceedance and forecastPeak statisticsValueProperties transformations have been split in 2 steps, matching and evaluation	ThresholdExceedance have been split in 2 steps: where the observed crossings are matched with the first forecast that predicted it. For each match the observed crossing is written to a time stamp property called Prediction_Value_Exceed_Time. the hits, missed time, missed height and false alarms are counted based on the (in step 1) written time stamp value property Prediction_Value_Exceed_Time  forecastPeaks transformation has also been split in first matching the forecasts to the observed peaks and writing the time and height of a match to a value property and then second evaluating the written value properties to hit, missed peak, missed height and missed forecast	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/ThresholdExceedanceCount">https://publicwiki.deltares.nl/display/FEWSDOC/ThresholdExceedanceCount</a>		
Plugin - Module - Transformation	<a href="#">FEWS-24975</a>	FEWS-24972 HyFS: Move calculating Value Properties to dedicated Transformation module	ThresholdExceedance and forecastPeak statisticsValueProperties transformations have been split in 2 steps, matching and evaluation	ThresholdExceedance and forecastPeak statisticsValueProperties transformations have been split in 2 steps, matching and evaluation. This way some calculations that were done in the verification analysis display could be removed and editing of the value properties for the matching is enabled.			
Plugin - Module - Transformation	<a href="#">FEWS-24974</a>	FEWS-24972 HyFS: Develop Topographic Prominence function	A new transformation has been added which finds peaks based on their topographic prominence	A new transformation has been added which finds peaks based on their topographic prominence. The minimum prominence is a good way to take out local maxima which are not really peaks, prominence can be summarized as "how far is it needed to descend in order to reach a higher peak".	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Selection+of+Topographic+Prominence+Peaks">https://publicwiki.deltares.nl/display/FEWSDOC/Selection+of+Topographic+Prominence+Peaks</a>		
System	<a href="#">FEWS-26046</a>	ZIP met database scripts op share					
System	<a href="#">FEWS-24415</a>	FEWS-21828 Roadmap: Move code from FEWS main to FEWS_Leacvy.jar	Legacy modules are moved to Delft_FEWS_Leacvy.jar	-	<a href="https://publicwiki.deltares.nl/x/v4HTCg">https://publicwiki.deltares.nl/x/v4HTCg</a>		
System - FEWS webservices	<a href="#">FEWS-23824</a>	FEWS-21134 Support retrieving parameter attributes through webservice	parameters resource supports attributes	The parameters resource supports attributes. Using the request parameter _showAttributes=true, will return parameter attributes in the response	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETparameters">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETparameters</a>		
System - FEWS webservices	<a href="#">FEWS-25448</a>	remove soap test page from FewsWebServices	The Soap test page has been removed and marked as deprecated	The Soap test page has been removed and marked as deprecated	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+End+of+Life+Modules+and+Displays#Delft-FEWS+End+of+Life+Modules+and+Displays-FEWS+End+of+Life+Modules+and+Displays-FEWS+Web+Services+API+test+will+be+removed">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+End+of+Life+Modules+and+Displays#Delft-FEWS+End+of+Life+Modules+and+Displays-FEWS+End+of+Life+Modules+and+Displays-FEWS+Web+Services+API+test+will+be+removed</a>		
System - FEWS webservices	<a href="#">FEWS-25185</a>	FEWS-25134 FewsWebservices should pick up updated global properties	updating global properties requires restart	Global properties require a restart.			
System - FEWS webservices	<a href="#">FEWS-25267</a>	FEWS-25265 FewsWebServices - disable demo page	The test page is disabled by default	The test page is disabled by default. To enable the test page, please set the TEST_PAGE_ENABLED property to true in the FewsPIService.properties	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services+configuration+FewsPIService.properties">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services+configuration+FewsPIService.properties</a>		
System - FEWS webservices	<a href="#">FEWS-23742</a>	FEWS-22250 WMS Service - Support onaqueenessPercentage parameter					
System - FEWS webservices - PI REST	<a href="#">FEWS-25699</a>	FEWS-25560 Improve response PI webservice (when no events present)	omit missing time series	The timeseries endpoint now has support for the _omitEmptyTimeSeries_ parameter. If set to true, no headers will be returned if the timeseries doesn't have any values.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETtimeseries">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETtimeseries</a>		
System - FEWS webservices - PI REST	<a href="#">FEWS-26130</a>	FEWS-16169 Query into PI Web Service capability to limit response to a specific MC	mcid request parameter added to taskruns endpoint	mcid request parameter added to taskruns endpoint	<a href="https://fewsdocs.deltares.nl/webservices/rest-api/v1/get-taskruns">https://fewsdocs.deltares.nl/webservices/rest-api/v1/get-taskruns</a>		
System - FEWS webservices - PI REST, System - FEWS webservices - SSD	<a href="#">FEWS-25259</a>	SSD Service - add timestepid to queries in getAction response	PI REST webservice gettimeseries request can filter by timestep by specifying the number of milliseconds of a timestep	A new option has been added to the PI REST webservice so in a gettimeseries request, timesteps which have not been assigned an ID in timesteps.xml can be requested using a new timeStepMillis parameter.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETtimeseries">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service#FEWSPIRESTWebService-GETtimeseries</a>		
System - FEWS webservices - PI REST	<a href="#">FEWS-24935</a>	FEWS-24651 PI REST timeseries - Support text format	documentFormat=NOOS_TEXT	Time Series van be retrieved in the NOOS_TEXT format.	<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 - FEWS webservices - PI REST	<a href="#">FEWS-24934</a>	FEWS-24651 PI REST timeseries - Support Digitale Delta JSON format	PI REST service timeseries endpoints support DD_JSON format	PI REST service timeseries endpoints support DD_JSON format	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Open+API+Specification+Documentation">https://publicwiki.deltares.nl/display/FEWSDOC/Open+API+Specification+Documentation</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
System - FEWS webservices - PI REST	<a href="#">FEWS-24932</a>	FEWS-24651 PI REST archive/parameters - Support Digitale Delta JSON format	documentFormat=DD_JSON	Parameters can be retrieved in the Digital Delta JSON format: documentFormat=DD_JSON	<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 - FEWS webservices - PI REST	<a href="#">FEWS-24931</a>	FEWS-24651 PI REST archive/parameters - Support list format	documentFormat NAME_LIST	Document format name NAME_LIST is supported. Example:  {code:java} air_pressure air_temperature area_of_flow chloride chlorophyll-a discharge discharge_diurnal discharge_hourly discharge_in discharge_net discharge_out eastward_wind fpptot northward_wind number_chutes opening_height pax	<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 - FEWS webservices - PI REST	<a href="#">FEWS-24930</a>	FEWS-24651 PI REST archive/locations - Support Digitale Delta JSON format	documentFormat=DD_JSON	Archive locations can be retrieved in the Digital Delta JSON format.	<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 - FEWS webservices - PI REST	<a href="#">FEWS-24929</a>	FEWS-24651 PI REST archive/locations - Support list format	documentFormat NAME_LIST	Archive locations can be retrieved in the NAME_LIST format	<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 - FEWS webservices - PI REST	<a href="#">FEWS-24928</a>	FEWS-24651 PI REST archive/locations - Support geolison format	documentFormat=GEO_JSON	Archive locations can be retrieved in the GEO_JSON format	<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 - FEWS webservices - PI REST	<a href="#">FEWS-25039</a>	PI REST parameters - add node id and node name to response	parameter nodes can be retrieved from PI REST Service	parameter nodes can be retrieved from PI REST Service. Endpoint is called: /parameters/nodes	<a href="http://delft-fews.xml.avi.deltares.nl/webservices/rest-api/v1/">http://delft-fews.xml.avi.deltares.nl/webservices/rest-api/v1/</a>		
System - FEWS webservices - SSD	<a href="#">FEWS-25389</a>	Add error handling for temporary series in SSD webservice	The SSD webservice error handling for temporary time series has been improved.	The SSD and PI webservices of FEWS are currently not able to render temporary timeseries in FEWS. Whenever a user is trying to display such timeseries an warning message is provided so it is clear why these time series cannot be rendered,	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Schematic+Status+Display+%28SSD%29+Web+Service">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Schematic+Status+Display+%28SSD%29+Web+Service</a>		
System - FEWS webservices - SSD	<a href="#">FEWS-24951</a>	SSD Service - scadapanel configured by id are not shown in GetCapabilities					
System - FEWS webservices - WMS	<a href="#">FEWS-25271</a>	WMS Service - Add TO to keywordlist	forecastTime added to keyword list of GetCapabilities	forecastTime added to keyword list of GetCapabilities	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS-T#FEWSWebMappingServicewithtimesupport:WMS-T-GetCapabilitesKeywordList(2020.01)">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS-T#FEWSWebMappingServicewithtimesupport:WMS-T-GetCapabilitesKeywordList(2020.01)</a>		
System - Language files	<a href="#">FEWS-25333</a>	FEWS-25409 Message files for computational framework	-	-	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Home">https://publicwiki.deltares.nl/display/FEWSDOC/Home</a>		
System - Logging	<a href="#">FEWS-25563</a>	Option to suppress location warnings when attributeFile contains other locationIds than 'master' locationSet	ignoreIdsMissingInLocationSet	Configure ignoreIdsMissingInLocationSet=true when you expect the csv/dbf/table contains more locations than the location set.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/22+Locations+and+attributes+defined+in+CSV+files%2C+Shape+DBF+files+or+external+tables">https://publicwiki.deltares.nl/display/FEWSDOC/22+Locations+and+attributes+defined+in+CSV+files%2C+Shape+DBF+files+or+external+tables</a>	<code>&lt;code&gt;xml&lt;/code&gt; &lt;attributeFile&gt; &lt;dbfFile&gt;Meteo_Stations_Attributes&lt;/dbfFile&gt; &lt;id&gt;%ID%&lt;/id&gt; &lt;ignoreIdsMissingInLocationSet=true&lt;/ignoreIdsMissingInLocationSet&gt; &lt;timeZoneOffset&gt;+00:00&lt;/timeZoneOffset&gt; &lt;/code&gt;</code>	
System - Workflow	<a href="#">FEWS-25583</a>	Property LOOP_ENSEMBLE_MEMBER_ID	SLOOP_ENSEMBLE_MEMBER_IDS	The SLOOP_ENSEMBLE_MEMBER_IDS can now be used in module config files when runInLoop is set to true in the workflow.xml	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/06+Configuring+Workflows#id:06ConfiguringWorkflows-nrtnl-op">https://publicwiki.deltares.nl/display/FEWSDOC/06+Configuring+Workflows#id:06ConfiguringWorkflows-nrtnl-op</a>		