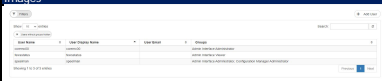
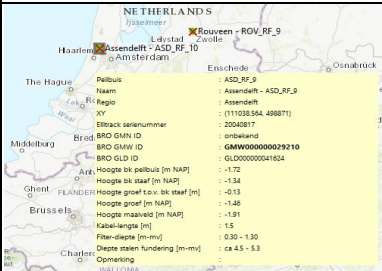
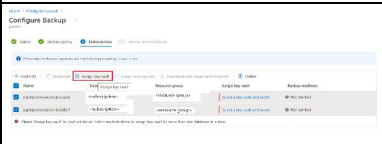

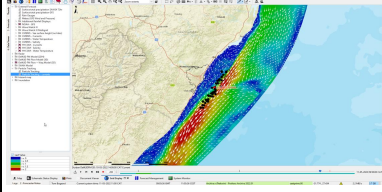
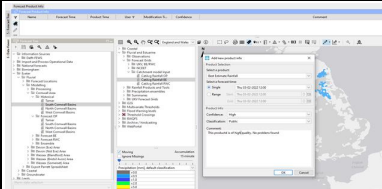


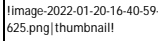
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Admin Interface	<a href="#">FEWS-26418</a>	FEWS-26058 IMFS-AI: Filter users in AI on database and usergroup users	Users can be filtered: users without and users with groups.	Users can be filtered: users without and users with groups.	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Users#Users-Filteroptions">https://publicwiki.deltares.nl/display/FEWSDC/Users#Users-Filteroptions</a>		
App - Archive, Database - Open Database	<a href="#">FEWS-23695</a>	FEWS-23658 Set-up test automation (archive)	Enabled and set-up a test automation (archive)	Enabled and set-up a test automation (archive)	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Alternative+to+file-based+storage+-+Archive+database">https://publicwiki.deltares.nl/display/FEWSDC/Alternative+to+file-based+storage+-+Archive+database</a>		
App - Archive, Plugin - Gui - Archive Display, Plugin - Module - Archive Import	<a href="#">FEWS-25810</a>	FEWS-23698 Archive endpoint: URLs to be imported by FSS	Implement new Archive endpoint: URLs to be imported by FSS	Implement new Archive endpoint: URLs to be imported by FSS	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive</a>		
App - Archive, Plugin - Gui - Archive Display	<a href="#">FEWS-25811</a>	FEWS-23698 ArchiveServer: facilitate URL download without OpenDAP	Enabled URL download without OpenDAP in Archive Server	Enabled URL download without OpenDAP in Archive Server	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive</a>		
App - Archive, Database - Datastore	<a href="#">FEWS-23669</a>	FEWS-23658 Implement seamless integration with Open Database REST API	Implement seamless integration with Open Archive Database REST API	Implement seamless integration with Open Archive Database REST API	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Alternative+to+file-based+storage+-+Archive+database">https://publicwiki.deltares.nl/display/FEWSDC/Alternative+to+file-based+storage+-+Archive+database</a>		
App - Archive	<a href="#">FEWS-26870</a>	Improve messaging remove data task	Improved log message while running the remove data task	Improved log message while running the remove data task in the open archive	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive</a>		
App - Archive, App - Archive - Harvester	<a href="#">FEWS-25840</a>	FEWS-22250 Importing of simulated timeseries from an External NetCDF Storage	Enabled importing of simulated timeseries from an External NetCDF Storage	Enabled importing of simulated timeseries from an External NetCDF Storage	<a href="https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution">https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution</a>		
App - Archive	<a href="#">FEWS-25839</a>	FEWS-22250 Exporting simulated series in self-describing NetCDF files for the external NetCDF storage	Enabled exporting of simulated series as self-describing NetCDF files	Enabled exporting of simulated series as self-describing NetCDF files for the external NetCDF storage	<a href="https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution">https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution</a>		
App - Archive	<a href="#">FEWS-25059</a>	FEWS-16132 Filelock on exported archive file after error	Exporting to archive: messaging while verifying exported time series	Following message may rarely appear if verifyExportedTimeSeries = true :  An error occurred while exporting data to the archive folder <folder name>. Number of files in metaData.xml=<number>, number of written nc files=<number> This message may appear if the <exportExternalForecast> has multiple <netcdfExportActivity> with the same <areald>. In this case the multiple nc files and a single metaData.xml are created in the same folder. This metaData.xml contains as many <netcdf> sections as there are nc files. If verifyExportedTimeSeries = true, the number of <netcdf> sections in metaData.xml is compared with number of nc files in the folder It works as follows: first nc file is written first <netcdf> section is written to metaData.xml verify second nc file is written second <netcdf> section is added to metaData.xml verify .... and so on This design does not work if two identical workflows write to the same folder at the same time : FEWS-16132 Filelock on exported archive file after error	<a href="https://publicwiki.deltares.nl/display/FEWSDC/22-2+Export+to+Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDC/22-2+Export+to+Deltares+Open+Archive</a>		
App - Archive - Harvester	<a href="#">FEWS-25886</a>	FEWS-22250 Harvest FEWS simulated series from an External NetCDF Storage	Improved the Open Archive harvester: ability to harvest simulated timeseries produced by Delft-FEWS	Improved the Open Archive harvester: ability to harvest simulated timeseries produced by Delft-FEWS located on an External NetCDF Storage	<a href="https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution">https://publicwiki.deltares.nl/display/FEWSDC/External+NetCDF+storage+solution</a>		
App - Archive- Admin GUI	<a href="#">FEWS-25654</a>	FEWS-24243 Archive: allow scheduling of maintenance tasks	allow manual tasks to be scheduled.	Up to the current release some tasks could only be started manually from the web gui. All these tasks (clear catalogue, remove data from archive) can now also be scheduled.	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive+-+Admin+Console+User+Guide">https://publicwiki.deltares.nl/display/FEWSDC/Deltares+Open+Archive+-+Admin+Console+User+Guide</a>		
App - Data Conversion Module, Plugin - Module - Data Export	<a href="#">FEWS-26718</a>	MeteoAlarmCap export: two CAP file improvements	MeteoAlarm CAP export improved	Two (minor) improvements have been implemented for the MeteoAlarm CAP export.  <language> settings have been corrected and in the <areaDesc> / <title> small improvements have been implemented.	<a href="https://publicwiki.deltares.nl/display/FEWSDC/MeteoAlarmCap">https://publicwiki.deltares.nl/display/FEWSDC/MeteoAlarmCap</a>		
App - Data Conversion Module, Plugin - Module - Data Export	<a href="#">FEWS-26063</a>	MeteoAlarmCap export: add reading entry from feed to determine export values	When a feed uri property has been configured for the meteoCap export it will be checked whether there already is data for an alert, when there is not, a new alert will be exported. When there is different data for an existing alert and update will be sent	When a feed uri property has been configured for the meteoCap export it will be checked whether there already is data for an alert, when there is not, a new alert will be exported. When there is different data for an existing alert and update will be sent	<a href="https://publicwiki.deltares.nl/display/FEWSDC/MeteoAlarmCap#MeteoAlarmCap-ExportingUpdatesandCancels">https://publicwiki.deltares.nl/display/FEWSDC/MeteoAlarmCap#MeteoAlarmCap-ExportingUpdatesandCancels</a>		
App - Delft-FEWS	<a href="#">FEWS-25548</a>	FEWS-24788 rank-eval-client-6.4.2.jar should be upgraded	rank-eval-client.jar upgraded to more recent version	rank-eval-client-6.4.2.jar is now current version	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy</a>		
App - JDBC driver	<a href="#">FEWS-25135</a>	FEWS-25134 Support Postgres 13	PostgreSQL 13 supported	PostgreSQL 13 supported	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy</a>		
App - Master Controller Server, Configuration	<a href="#">FEWS-26768</a>	FEWS-21828 Should MC-configuration file hold whatif-content or only its reference	WhatIfs are ignored during mc config upload / download	WhatIfs are ignored during mc config upload / download	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Master+Controller+Configuration+-+2021-02+and+later">https://publicwiki.deltares.nl/display/FEWSDC/Master+Controller+Configuration+-+2021-02+and+later</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-26368</a>	FEWS-21828 please isolate libx as library independent of Delft-FEWS.jar	Code cleanup for computational framework / RIBASIM UI implementation	Code cleanup for computational framework / RIBASIM UI implementation	<a href="https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDC/Upgrade+and+update+strategy</a>		

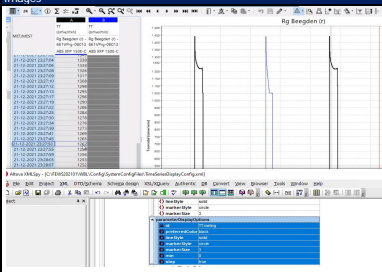

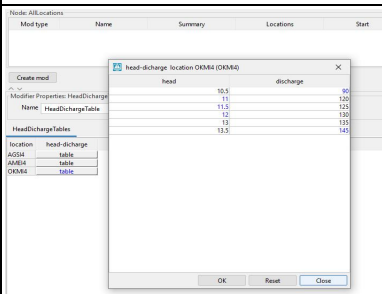
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Operator Client Gui (Explorer), Plugin - GUI - TimeSeries Table Display	<a href="#">FEWS-26061</a>	FEWS-26058 IMFS-Sprint1: location column in timeSeriesTable display must be locked	The location column of the time series table display is locked now, so it will always be visible even though the user scrolls to the right	The location column of the time series table display is locked now, so it will always be visible even though the user scrolls to the right	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/29+Time+Series+Table+Display">https://publicwiki.deltares.nl/display/FEWSDOC/29+Time+Series+Table+Display</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-26760</a>	FEWS-25560 Add configurable time zone to url template	By configuring a time zone with the file url of the url template the translated date can be shown in a different time zone. When not configured the default is GMT	By configuring a time zone with the file url of the url template the translated date can be shown in a different time zone. When not configured the default is GMT	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=92579788">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=92579788</a>		
App - Operator Client Gui (Explorer), Plugin - GUI - Map	<a href="#">FEWS-24432</a>	FEWS-23877 Use Case 6.2 - HTML Tooltip uitbreidingen + tonen URL	Hyperlink in tooltip can be opened in embedded Web Browser panel	Hyperlink can be included in a location tooltip. The href (url) configured there can be opened in the default/Internal Web Browser Display.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+Locations">https://publicwiki.deltares.nl/display/FEWSDOC/01+Locations</a>	Hyperlink can be included in a location tooltip. The href (url) configured there can be opened in the default/Internal Web Browser Display. Web Browser Display must be configured for this, including some settings must be specified.	
App - Operator Client Gui (Explorer), Plugin - GUI - Time Series	<a href="#">FEWS-17991</a>	FEWS-21042 On double click on location go to displaygroup	On double click on location go to displaygroup: improvements	<p>There are two improvements:</p> <ul style="list-style-type: none"> <li>*1. Go to display group if allowMultipleInstances is false* If allowMultipleInstances = false in explorer task "Shortcuts", then the first double click on location opens the "Shortcuts" and shows the display associated with the location. Unlock this "shortcuts" display with lock icon in the toolbar and next double clicks on a location will direct us to the display in the already opened "Shortcuts".</li> <li>If allowMultipleInstances = true, then every separate double click will open a "Shortcuts" display</li> <li>*2. option 'explorerFilterId'*</li> </ul> <p>Besides the option 'explorerLocationId' also the option 'explorerFilterId' can be configured in a display. The usage of both options makes it easier to attach specific display to the selections in Data Viewer .</p> <p>An example: (code.java) &lt;display name="Display 1"&gt; &lt;explorerFilterId&gt;ModelA&lt;/explorerFilterId&gt; &lt;explorerLocationId&gt;LocC&lt;/explorerLocationId&gt; &lt;/display&gt;</p>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+FEWS+Explorer#id-01FEWSExplorer-doubleClickLocationEnabled">https://publicwiki.deltares.nl/display/FEWSDOC/01+FEWS+Explorer#id-01FEWSExplorer-doubleClickLocationEnabled</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-22528</a>	Permissions for F12 menu	Permissions enabled in main <F12> menu (Explorer- Map)	Enable F12 menu if the user has debugMenuPermission. If this is not configured, then the F12 menu is accessible by everyone	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01+FEWS+Explorer#id-01FEWSExplorer-DebugMenuPermission">https://publicwiki.deltares.nl/display/FEWSDOC/01+FEWS+Explorer#id-01FEWSExplorer-DebugMenuPermission</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-26477</a>	FEWS-26465 NGMS: Allow multiple FEWS db-schemas in single database and facilitate selecting schema on OC startup	Multiple FEWS schemas/systems in a single database	It is now possible to have multiple FEWS schemas/systems in a single (managed) database instance. By this you only need a single database and you can use a single OC/CM shortcut to access multiple FEWS systems. When the database contains multiple FEWS schemas and the schema is not specified in the URL the OC/CM user gets automatically a pop-up to select the desired FEWS schema.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Launching+Delft+FEWS++2018.02+and+later">https://publicwiki.deltares.nl/display/FEWSDOC/Launching+Delft+FEWS++2018.02+and+later</a>		
App - Operator Client Gui (Explorer)	<a href="#">FEWS-26539</a>	Improve About box	About Box updated to 2022.01 release	About Box updated to 2022.01 release and added: * base build (number + date of build) * applied patch (number + date of patch) * directory/path boot build * directory/path base build * every forecast time series is now counted as a separate time series	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/02+FEWS+Explorer">https://publicwiki.deltares.nl/display/FEWSDOC/02+FEWS+Explorer</a>		

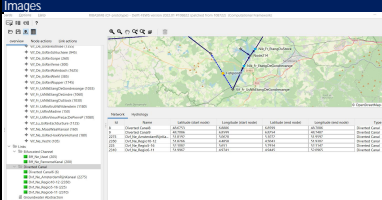
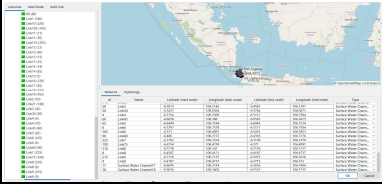
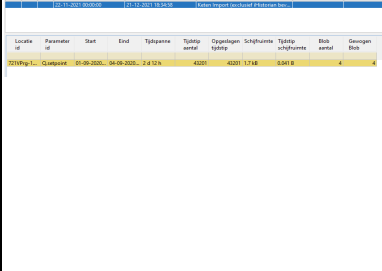
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
App - Operator Client Gui (Explorer)	<a href="#">FEWS-26861</a>	FEWS-26058 IMFS-Sprint 1: Make chartLayer plots scalable for different monitors	Auto scale chart panel to actual map panel size from original design map panel size	The charts in the chart panel can now automatically resized to adjust for a different monitor size.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/14+ChartLayer">https://publicwiki.deltares.nl/display/FEWSDOC/14+ChartLayer</a>	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;chartLayer xmlns="http://www.wldelft.nl/fe/ws" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fe/ws http://fe.ws.wldelft.nl/schemas/version1.0/chartLayer.xsd" version="1.0"&gt; &lt;chartFormat id="chartFormat"&gt; &lt;includeTime0&gt;true&lt;/includeTime0&gt; &lt;/chartFormat&gt; &lt;/chartLayer&gt; &lt;/?xml&gt;</pre>	<p>Versie</p> <p>Delft-FEWS versie 2021.02, build nummer 108105 (patched from 107678) Copyright © Deltares 2003-2021 Delft-FEWS is een product van Deltares, Delft, Nederland</p> <p>Systeeminformatie</p> <p>Buildtype: stable Gebruikt op: 02-12-2021 10:31:00 JAVA versie: 11.0.10 DataStore: Datastore aangemaakt op: 05-10-2021 11:38:03 DataStore grootte: 11 GB DataStore geheugen: 25 MB Tijdreeksen in database: 58,770 reeksen / 2,868,480 reg. / 21,154 records Data gelezen van database: 9.7 MB (19 s, 533 kB/s, 179 queries, 35700 rows, 103 ms/query) Zet verbindingstijd vast: 5 s Verkegen verbindingstijd: 1 s Tijdreeksen in geheugen: 2 MB cache / 4 MB index Tijdreeksen gelezen van disk sinds 20-01-2022 10:23:13: 1 MB Warm states in database: 86 records Warm states in geheugen: 1 MB index Configuratie in map: 266 bestanden Configuratie in geheugen: 2 MB Kaartlagen in geheugen: 15 bestanden / 1 MB</p> <p>Copyrights &amp; Credits</p> <p>Klik op <a href="#">Delft-FEWS Copyrights &amp; Credits</a> voor meer informatie.</p> <p style="text-align: right;"><input type="button" value="OK"/></p>
App - Operator Client Gui (Explorer)	<a href="#">FEWS-27424</a>	FEWS-26465 NGMS: OC warning outdated index files					
App - TeamCity	<a href="#">FEWS-26715</a>	Configure the Teamcity-Signing environment	Delft-FEWS executables can now be 'signed' via Teamcity build server	Delft-FEWS executables can now be 'signed' via Teamcity build server. A dedicated place is created to make sure the delivered (java) executables like the Delft-FEWS start executables, createShortcuts and launcher executables are properly signed with Deltares as 'Signer' in the Digital Signatures tab (file --> properties). This is valid for Windows	<a href="https://dpcbuild.deltares.nl/project/SigningAndCertificates?projectTab=overview&amp;mode=builds">https://dpcbuild.deltares.nl/project/SigningAndCertificates?projectTab=overview&amp;mode=builds</a>		
Configuration	<a href="#">FEWS-26608</a>	FEWS-21828 IMFS-SA: scanExplorerPlugins not precise enough for taskRun display	F12 -> T Export -> log obsolete modules and explorer plugins : archiveTask configured in TaskRunDialog is not supported	The following message is logged :  <taskRunDialog config file name > : archive task no longer supported since 2017.02 and will be removed in 2022.01	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+End+of+Life+Modules+and+Displays">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+End+of+Life+Modules+and+Displays</a>		
Configuration	<a href="#">FEWS-25758</a>	FEWS-22250 parsing moduleInstanceCeld attributes	Module instance descriptors in csv files plus attributes.	Besides locations, parameters and qualifiers it now also possible to list the module instance descriptors in a csv file. You can now also add attributes to the module instance descriptors that can be used in the netcdf metadata and the reports.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Export+module">https://publicwiki.deltares.nl/display/FEWSDOC/Export+module</a>	<pre>&lt;code&gt;xml &lt;code&gt;java &lt;metadata&gt; &lt;title&gt;%MODULE_INSTANCE_ATTRIBUTE(expor t_title)%&lt;/title&gt; &lt;/metadata&gt;&lt;/code&gt;</pre>	
Configuration	<a href="#">FEWS-25757</a>	FEWS-22250 ModuleInstanceDescriptors attributes	Module instance descriptors in csv files plus attributes.	Besides locations, parameters and qualifiers it now also possible to list the module instance descriptors in a csv file. You can now also add attributes to the module instance descriptors that can be used in the netcdf metadata and the reports.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/12+ModuleInstanceDescriptors">https://publicwiki.deltares.nl/display/FEWSDOC/12+ModuleInstanceDescriptors</a>	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;moduleInstanceDescriptors xmlns="http://www.wldelft.nl/fe/ws" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fe/ws http://fe.ws.wldelft.nl/schemas/version1.0/moduleInstanceDescriptors.xsd" version="1.0"&gt; &lt;moduleInstanceDescriptorsCsvFile&gt; &lt;file&gt;moduleInstanceDescriptors.csv&lt;/file&gt; &lt;id&gt;%ID&lt;/id&gt; &lt;name&gt;%NAME&lt;/name&gt; &lt;attribute id="test"&gt; &lt;text&gt;%test&lt;/text&gt; &lt;/attribute&gt; &lt;attributeFile&gt; &lt;csvFile&gt;moduleInstanceDescriptors_attribute s.csv&lt;/csvFile&gt; &lt;id&gt;%ID&lt;/id&gt; &lt;attribute id="EXTERNAL_ID"&gt; &lt;text&gt;%EXTERNAL_ID&lt;/text&gt; &lt;/attribute&gt; &lt;/attributeFile&gt; &lt;/moduleInstanceDescriptorsCsvFile&gt; &lt;/moduleInstanceDescriptors&gt;</pre>	
Database - Central Database	<a href="#">FEWS-26921</a>	Create 2022.01 database scripts	Database scripts optimize TableLocalModificationTimes table - for SQLServer use in-memory OLTP / PostgreSQL unlogged.	Database scripts optimize TableLocalModificationTimes table - for SQLServer use in-memory OLTP / PostgreSQL unlogged.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Release+Notes+for+Database+Administrators">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Release+Notes+for+Database+Administrators</a>		
Database - Central Database	<a href="#">FEWS-24309</a>	Support SQLServer Managed Instances	Managed instances of MS SQLServer supported	Managed instances of MS SQLServer supported (Azure Cloud)	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+and+the+cloud">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+and+the+cloud</a>		
Database - Datastore	<a href="#">FEWS-22148</a>	FEWS-23698 ComposedWhatif: export composed to whatif to file system			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/34+Using+the+Whatif+Editor+with+the+IFD">https://publicwiki.deltares.nl/display/FEWSDOC/34+Using+the+Whatif+Editor+with+the+IFD</a>		
Database - Datastore	<a href="#">FEWS-26693</a>	FEWS-21828 F12-delete legacy whatifscenarios	F12-delete legacy whatifscenarios	Before migrating to the new what-if templates the old what-ifs should be deleted from the (central) database.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/The+F12+menu">https://publicwiki.deltares.nl/display/FEWSDOC/The+F12+menu</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Database - Datastore	<a href="#">FEWS-26500</a>	FEWS-26465 NGMS: new module. unreferencedNcFilesCleaner	Delete NetCDF files no longer in use by the FEWS database.	With the UnreferencedNcFilesCleaner NetCDF files are deleted that are no longer referenced by the FEWS database	<a href="https://publicwiki.deltares.nl/x/7wOOD">https://publicwiki.deltares.nl/x/7wOOD</a>	<pre>(code:xml) &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;unreferencedNcFilesCleaner 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/unreferencedNcFilesCleaner.xsd"&gt; &lt;minimalAgeNcFile unit="hour" multiplier="0"/&gt; &lt;rootDir urlPrefix="\$PREFIXS" path="\$TEST_DIRS"/&gt;</pre>	
Database - Open Database	<a href="#">FEWS-23665</a>	FEWS-23658 Implement Open Database REST API (for MongoDB)	Implement Open Database REST API (for MongoDB)	Implement Open Database REST API (for MongoDB)	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Alternative+to+file-based+storage+-+Archive+database">https://publicwiki.deltares.nl/display/FEWSDOC/Alternative+to+file-based+storage+-+Archive+database</a>		
Module - Workflow Test Runner	<a href="#">FEWS-26604</a>	Workflow Test Runner should support junit XML format	Workflow Test Runner can generate test report in JUnit XML format	Workflow Test Runner can generate test report in JUnit XML format	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Test+Runner+in+Azure+Devops">https://publicwiki.deltares.nl/display/FEWSDOC/Workflow+Test+Runner+in+Azure+Devops</a>		
Plugin - Gui - Archive Display	<a href="#">FEWS-23668</a>	FEWS-23658 Extend archive display with display to retrieve data from Archive Display	Extend Archive Display with tab to retrieve data via Archive Display	Extend Archive Display with tab to retrieve data via Archive Display	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Alternative+to+file-based+storage+-+Archive+database">https://publicwiki.deltares.nl/display/FEWSDOC/Alternative+to+file-based+storage+-+Archive+database</a>		
Plugin - Gui - Archive Display	<a href="#">FEWS-22159</a>	FEWS-23698 archiveCatalogueDisplay: search whatif					
Plugin - GUI - DocumentViewer	<a href="#">FEWS-26532</a>	FEWS-25409 Add text search option to documentsDisplay	Quick search in forecaster help (document viewer)	Like the log panel you can start typing to find some text in the document viewer.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/23-Interactive+Forecasting+Displays#id-23InteractiveForecastingDisplays-Forcasterhelp(Aka+DocumentViewer)">https://publicwiki.deltares.nl/display/FEWSDOC/23-Interactive+Forecasting+Displays#id-23InteractiveForecastingDisplays-Forcasterhelp(Aka+DocumentViewer)</a>		
Plugin - Gui - Grid Display	<a href="#">FEWS-26068</a>	FEWS-26058 IMFS-Sprint1: open ensemble thumbnails automatically	The spatial ensemble thumbnails window can now be configured to automatically open when the grid plot with ensembles is selected via <openEnsembleThumbnailsWindowWhenSelected=true	The spatial ensemble thumbnails window can now be configured to automatically open when the grid plot with ensembles is selected via <openEnsembleThumbnailsWindowWhenSelected=true	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01-Grid+Display#id-01GridDisplay-openEnsembleThumbnailsWindowWhenSelected">https://publicwiki.deltares.nl/display/FEWSDOC/01-Grid+Display#id-01GridDisplay-openEnsembleThumbnailsWindowWhenSelected</a>	<pre>(code:xml) &lt;gridPlot id="coastal_forecast_surge_cmrens" name="Surge (CMRENS)"&gt; &lt;displayGroupPlotId-TidalGauges_Centre_CMRENS&lt;/displayGroupPlotId&gt; &lt;dataLayer&gt; &lt;visibleInTimeSeriesDisplay=true&lt;/visibleInTimeSeriesDisplay&gt; &lt;visibleInSpatialDisplay=true&lt;/visibleInSpatialDisplay&gt; &lt;onlyCircles=true&lt;/onlyCircles&gt; &lt;circleBorderSize&gt;2&lt;/circleBorderSize&gt; &lt;circleBorderColor&gt;gray&lt;/circleBorderColor&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceld&gt;Import_MOSurge&lt;/moduleInstanceld&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId-Hfcast_surge&lt;/parameterId&gt; &lt;locationSetId-UK_ASTROSUM&lt;/locationSetId&gt; &lt;timeSeriesType&gt;external forecasting&lt;/timeSeriesType&gt; &lt;timeStep unit="minute" multiplier="15"/&gt; &lt;readWriteMode&gt;read complete forecast&lt;/readWriteMode&gt; &lt;ensembleId&gt;CMRENS&lt;/ensembleId&gt; &lt;ensembleMemberIndexRange start="0" end="35"/&gt; &lt;/timeSeriesSet&gt; &lt;/dataLayer&gt;</pre>	
Plugin - Gui - Grid Display, System - FEWS webservices - WMS	<a href="#">FEWS-26792</a>	FEWS-26793 Spatial Display - pre download all timesteps (OC)	Grid auto download button	Since the 2019.02 the grids are downloaded on the fly. With the new preload button in the spatial display you can now first download all the grids again to have a smooth animation without pauses. A green line in the time slider shows the progress of the download	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/05-Spatial+Display#id-05SpatialDisplay-TimeSliderToolbar">https://publicwiki.deltares.nl/display/FEWSDOC/05-Spatial+Display#id-05SpatialDisplay-TimeSliderToolbar</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Grid Display	<a href="#">FEWS-23741</a>	Visualization: Improvements Particle tracking	Particle tracking config options for the grid display track layer	The track layers in the spatial display are now more suitable to show floating particles. Extra config options: Dot color, dot fill color, onlyShowDotForCurrentTime. The valueTimeSeriesSet is no longer required.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/01-Grid+Display#id-01GridDisplay-trackLayer">https://publicwiki.deltares.nl/display/FEWSDOC/01-Grid+Display#id-01GridDisplay-trackLayer</a>	<pre>(code:xml) &lt;code:xml&gt; &lt;trackLayer&gt; &lt;dotFillColor&gt;black&lt;/dotFillColor&gt; &lt;dotSize&gt;1&lt;/dotSize&gt; &lt;onlyShowDotForCurrentTime&gt;true&lt;/onlyShowDotForCurrentTime&gt; &lt;geoDatum&gt;WGS 1984&lt;/geoDatum&gt; &lt;xTimeSeriesSet&gt; &lt;moduleInstanceId&gt;ImportDrifters&lt;/moduleInstanceId&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;Longitude&lt;/parameterId&gt; &lt;locationSetId&gt;Drifters&lt;/locationSetId&gt; &lt;timeSeriesType&gt;simulated forecasting&lt;/timeSeriesType&gt; &lt;timeStep unit="nonequidistant"/&gt; &lt;readWriteMode&gt;read_complete forecast&lt;/readWriteMode&gt; &lt;/xTimeSeriesSet&gt; &lt;yTimeSeriesSet&gt; &lt;moduleInstanceId&gt;ImportDrifters&lt;/moduleInstanceId&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;Latitude&lt;/parameterId&gt; &lt;locationSetId&gt;Drifters&lt;/locationSetId&gt; &lt;timeSeriesType&gt;simulated forecasting&lt;/timeSeriesType&gt; &lt;timeStep unit="nonequidistant"/&gt; &lt;readWriteMode&gt;read_complete forecast&lt;/readWriteMode&gt; &lt;/yTimeSeriesSet&gt; &lt;/trackLayer&gt; </pre>	
Plugin - Gui - Grid Display	<a href="#">FEWS-25794</a>	FEWS-25793 Spatial Display - auto download (PI service)	First timestep before system time is preloaded to improve loading initial map	First timestep before system time is preloaded to improve loading initial map	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS+T#FEWSWebMappingServicewithtimesupport:WMAST_GolMan">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS+T#FEWSWebMappingServicewithtimesupport:WMAST_GolMan</a>		
Plugin - Gui - IFD - Forecasts	<a href="#">FEWS-26179</a>	FEWS-26058 IMFS-Sprint 1: Pop-up message when deleting a modifier from IFD	Custom message configurable when moving away from a node containing uncommitted modifiers	It is now possible to define a custom message which will be shown when a user leaves a topology node with uncommitted modifiers.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology">https://publicwiki.deltares.nl/display/FEWSDOC/24+Topology</a>	<pre>&lt;node id="example"&gt; &lt;workflowId&gt;workflow1&lt;/workflowId&gt; &lt;coldState unit="day" multiplier="10"/&gt; &lt;timeZero date="2003-02-15" time="02:00:00"/&gt; &lt;popupMessageUncommittedModifiers&gt;myMessage&lt;/popupMessageUncommittedModifiers&gt; &lt;/node&gt; </pre>	
Plugin - Gui - IFD - Forecasts	<a href="#">FEWS-27237</a>	FEWS-26858 Whatif (Roadmap): only show in OC when persistent flag is true					
Plugin - Gui - IFD - Forecasts	<a href="#">FEWS-27178</a>	FEWS-26858 IFD-config <main panel> misses option whatifEditor					
Plugin - Gui - Product Information	<a href="#">FEWS-26067</a>	FEWS-26058 IMFS-Sprint1: Add Spell checker to FPI entries	Spell checker	Spelling errors are now underlined red. With the menu key suggestions are popped up.	<a href="https://publicwiki.deltares.nl/x/2qhxD">https://publicwiki.deltares.nl/x/2qhxD</a>		

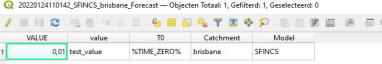
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Schematic Status Display	<a href="#">FEWS-25232</a>	FEWS-23543 SSD: enter values	SSD: enter values	<p>In the Schematic Status Display it's possible to enter values by clicking on a svg element. A popup windows will open where the user can enter the new value which is directly changed in the specified timeseries for the given relativeViewPeriod.</p>  <pre>(code.java) &lt;leftSingleClickAction&gt;   &lt;enterValue&gt;     &lt;variable&gt;  &lt;variableId&gt;-meerpeil_status_afgeleid_aanpassing&lt;/variableId&gt;  &lt;locationId&gt;-Veluwerandmeren&lt;/locationId&gt;   &lt;overrulingRelativeViewPeriod     unit="day" start="-1" end="1"/&gt;   &lt;/variable&gt;   &lt;/enterValue&gt; &lt;/leftSingleClickAction&gt;(code) [15 Schematic Status Display (formerly Scada Display) - DELFT-FEWS Documentation - Deltares Public Wiki https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-</pre>	<a href="https://publicwiki.deltares.nl/x/9IG6">https://publicwiki.deltares.nl/x/9IG6</a>		
Plugin - Gui - Schematic Status Display	<a href="#">FEWS-25193</a>	FEWS-23543 SSD: thumbnail charts with parameter on y-axis	SSD: thumbnail charts with parameter on y-axis	<p>In the Schematic Status Display you can add small interactive graphs (like on the main map) which update with changing systemtime/timeslider.</p> <pre>(code.java) &lt;chartComponentBehaviourDefinition&gt;  &lt;svgObjectId&gt;-Grafiek_meerpeil_herzien&lt;/svgObjectId&gt;   &lt;title&gt;-Ijsselmeer peil&lt;/title&gt;   &lt;display&gt;     &lt;displayId&gt;-IJG-     ABT_Meerpeil_Herzien_Ijsselmeer&lt;/displayId&gt;     &lt;overrulingRelativeViewPeriod unit="day"       start="-1" end="2"/&gt;     &lt;/display&gt;     &lt;axisLabels&gt;-true&lt;/axisLabels&gt;     &lt;axisTitle&gt;-true&lt;/axisTitle&gt;     &lt;imageScaleFactor&gt;-1.2&lt;/imageScaleFactor&gt;   &lt;/chartComponentBehaviourDefinition&gt; (code) Image-2022-06-13-09-06-55-616.png width=365,height=201,thumbnail!</pre> <p>[15 Schematic Status Display (formerly Scada Display) - DELFT-FEWS Documentation - Deltares Public Wiki https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-15SchematicStatusDisplay(formerlyScadaDispla</p>	<a href="https://publicwiki.deltares.nl/x/9IG6">https://publicwiki.deltares.nl/x/9IG6</a>	<pre>&lt;chartComponentBehaviourDefinition&gt; &lt;svgObjectId&gt;-chart_Ijsselmeer&lt;/svgObjectId&gt;   &lt;title&gt;-Waterstand Ijsselmeer&lt;/title&gt;   &lt;display&gt;     &lt;displayId&gt;-Waterstand_Ijsselmeer&lt;/displayId&gt;     &lt;overrulingRelativeViewPeriod       unit="hour" start="-48" end="72"/&gt;     &lt;/display&gt;     &lt;axisLabels&gt;-true&lt;/axisLabels&gt;     &lt;axisTitle&gt;-true&lt;/axisTitle&gt;     &lt;imageScaleFactor&gt;-1.5&lt;/imageScaleFactor&gt;   &lt;/chartComponentBehaviourDefinition&gt;</pre>	
Plugin - Gui - Schematic Status Display	<a href="#">FEWS-26565</a>	FEWS-23543 IWP: local workflow draaien vanuit SSD-scherm	Implement new config option to run a workflow locally from an SSD panel	<p>Added new, optional booleans localRun and autoSaveToServerAfterLocalRun to runWorkflow in ssd panel config xsd.</p>	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-15SchematicStatusDisplay(formerlyScadaDisplay):runWorkflow">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-15SchematicStatusDisplay(formerlyScadaDisplay):runWorkflow</a>	<pre>(code.xml) &lt;runWorkflow&gt; &lt;workflowId&gt;-ID-/workflowId&gt; &lt;localRun&gt;-true&lt;/localRun&gt; &lt;autoSaveToServerAfterLocalRun&gt;-true&lt;/autoSaveToServerAfterLocalRun&gt; &lt;/runWorkflow&gt;</pre>	<a href="#">_thumb_130976.png</a>
Plugin - Gui - Threshold Display	<a href="#">FEWS-26350</a>	FEWS-26058 IMFS-Sprint1: location column in Triton (Thresholds) display must be locked	The location column of the threshold overview display is locked now, so it will always be visible even though the user scrolls to the right	The location column of the threshold overview display is locked now, so it will always be visible even though the user scrolls to the right	<a href="https://publicwiki.deltares.nl/display/FEWSDC/12+Thresholds+Display+and+TRITON+Display">https://publicwiki.deltares.nl/display/FEWSDC/12+Thresholds+Display+and+TRITON+Display</a>		

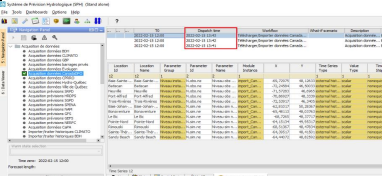
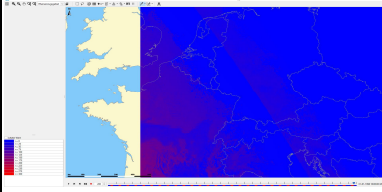
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Time Series	<a href="#">FEWS-26423</a>	Parameter is not drawn with markers configured with step=true	Step time series chart render improvements	Step chart lines are now also painted by the high speed optimized series line renderer. Marker symbols for the data points are now also possible for step line charts.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration#id-02TimeSeriesDisplayConfiguration-step">https://publicwiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration#id-02TimeSeriesDisplayConfiguration-step</a>		
Plugin - Gui - Time Series	<a href="#">FEWS-26041</a>	FEWS-10616 TVA: Time dependent datums (z)	Time dependent location datum (z)	The location z can now be time dependent. The z is used when converting a local datum to a global datum	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/22+Locations+and+attributes+defined+in+CSV+files%2C+Shape+DBF+files+or+external+tables#id-22LocationsandattributesdefinedinCSVfiles+ShapeDBFfilesorexternaltables-timedependentz(since2022.01)">https://publicwiki.deltares.nl/display/FEWSDOC/22+Locations+and+attributes+defined+in+CSV+files%2C+Shape+DBF+files+or+external+tables#id-22LocationsandattributesdefinedinCSVfiles+ShapeDBFfilesorexternaltables-timedependentz(since2022.01)</a>	<pre>(code.java) &lt;locationSet id="LocationSetWithTimeDependentAttributes"&gt; &lt;csvFile&gt; &lt;file&gt;TimeDependentLocationSet.csv&lt;/file&gt; &lt;id&gt;%id%&lt;/id&gt; &lt;x&gt;0&lt;/x&gt; &lt;y&gt;0&lt;/y&gt; &lt;attributeFile&gt; &lt;csvFile&gt;TimeDependentLocationSetAttributes.csv&lt;/csvFile&gt; &lt;id&gt;%id%&lt;/id&gt; &lt;startDateTime&gt;%START%&lt;/startDateTime&gt; &lt;endDateTime&gt;%END%&lt;/endDateTime&gt; &lt;z&gt;%z%&lt;/z&gt; &lt;attribute id="timeDependentAttribute"&gt; &lt;text&gt;%timeDependentAttribute%&lt;/text&gt; &lt;/attribute&gt; &lt;/attributeFile&gt; &lt;/csvFile&gt; &lt;/locationSet&gt; (code)  (code.java) ID:START-END:timeDependentAttribute:z TD_Loc1:19000101-21000101:A:1 TD_Loc2:19000101-19850103:A:2 TD_Loc2:19850103-21000101:B:3 TD_Loc3:19000101-19850103:B:4 TD_Loc3:19850103-21000101:A:5</pre>	
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-26065</a>	FEWS-26058 IMFS-Sprint 1: Scale panels in Modifier Display	ModifiersDisplay: the position of the splitter between the table and the editor is stored in user_settings.ini	The position of the splitter between the table and the editor is stored in user_settings.ini. When Fews is closed and then launched again, the splitter appears at the previously set position	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays#id-23InteractiveForecastingDisplays-Modifierspanel">https://publicwiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays#id-23InteractiveForecastingDisplays-Modifierspanel</a>		
Plugin - Gui - Time Series Modifier	<a href="#">FEWS-26446</a>	FEWS-21828 multi-value attribute table modifier	Multi-value location attribute modifier	<p>Multi-value attribute modifier is intended to modify multi-value location attributes, for example pump curves. Configuration example:</p> <pre>&lt;attributesTable id="Pump curves"&gt; &lt;attributeld-head&lt;/attributeld&gt; &lt;attributeld-discharge&lt;/attributeld&gt; &lt;/attributesTable&gt;</pre> <p>Both attribute head and discharge are multi-value attributes</p> <p>The values are modified in a table that can be opened from the normal location attribute modifier table by clicking on a cell-button. An example is shown in attached MultiValueLocAttrMod.png and the associated configuration is in the 'Config Example' field</p> <p>The table-popup is updated every time the cell-button is clicked. To confirm the changes in the table-popup, press OK button. To get the original values back, press Reset button. Similar to all other modifier types, the modified table will be stored as a modifier after pressing button Apply</p> <p>Multi-value attribute modifier supports number and text attributes. It does not support boolean and date-time attributes (yet)</p>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-MultiValueAttributeModifiers">https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes#id-25ModifierTypes-MultiValueAttributeModifiers</a>	<pre>(code.java) &lt;locationAttributeModifier id="AttributesTable" name="AttributesTable"&gt; &lt;modifiableGroup name="ModifiableGroup A"&gt; &lt;locationSetId&gt;AllLocations&lt;/locationSetId&gt; &lt;attribute id="January"/&gt; &lt;/modifiableGroup&gt; &lt;/locationAttributeModifier&gt;  &lt;attributesTable id="head-discharge"&gt; &lt;attributeld-head&lt;/attributeld&gt; &lt;attributeld-discharge&lt;/attributeld&gt; &lt;/attributesTable&gt;  &lt;attribute id="February"/&gt;  &lt;tabularLayout&gt; &lt;showOriginalValues=true&lt;/showOriginalValues&gt; &lt;locationOrientation&gt;row&lt;/locationOrientation&gt; &lt;/tabularLayout&gt; &lt;/modifiableGroup&gt; &lt;/locationAttributeModifier&gt; (code)</pre>	

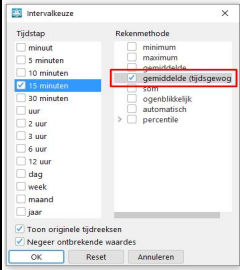
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Gui - Topology Editor	<a href="#">FEWS-26274</a>	FEWS-22443 TopologyEditor: useability improvements overview tree	Topology Editor: usability improvements	Topology Editor: usability improvements	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-26281</a>	FEWS-22443 TopologyEditor: search feature types	Topology Editor: search feature types	Topology Editor: search features by selecting the tree and typing (similar to other search functions in Fews)	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-24716</a>	FEWS-22443 TopologyEditor: useability improvements featureType actions	Topology Editor: useability improvements featureType actions	Topology Editor: automatically detects the editing modus (add or select) based on the feature type selection in the Add Node/Add Link tab. If no feature type is selected, the 'select' modus is applied which allows moving or deleting feature types	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-25341</a>	FEWS-22443 Property editor: knoppen direct actief maken	Property Editor: make buttons active directly	Property Editor: make buttons active directly	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-26275</a>	FEWS-22443 TopologyEditor: remove Delft-FEWS dependencies	Code cleanup for computational framework / RIBASIM UI implementation	Code cleanup for computational framework / RIBASIM UI implementation	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Upgrade-and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDQ/C/Upgrade-and+update+strategy</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-27205</a>	FEWS-22443 Save bounding box	Topology Editor: Save bounding box	Topology Editor: Save bounding box of the latest map view to an ini-file when saving network	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Topology Editor	<a href="#">FEWS-24371</a>	FEWS-22443 TopologyEditor: split link add node	Topology Editor: split link add node	Topology Editor: Hoover over the link and click to split drop a node on the link, which is automatically split in two. The node type must have been selected in the 'Add Node' tab.	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/Ribisim+Topology++Editor</a>		
Plugin - Gui - Web Browser Display	<a href="#">FEWS-26874</a>	FEWS-19373 JCEF package update - 2022	The Web Browser Display has been updated to use the current version of JCEF (Java Chromium Embedded Framework) with Chromium version 100.0.4896.75	The Web Browser Display has been updated to use the current version of JCEF (Java Chromium Embedded Framework) with Chromium version 100.0.4896.75. This update has been build and tested for Windows 10 and CentOS 7 and is expected to work with newer versions of Windows and Linux. This update fixes an important Chromium security breach, [CVE-2022-1096] ( <a href="https://publicwiki.deltares.nl/x/Xga0D">https://publicwiki.deltares.nl/x/Xga0D</a> ) and is now used by all supported FEWS	<a href="https://publicwiki.deltares.nl/x/xQIHbW">https://publicwiki.deltares.nl/x/xQIHbW</a>		
Plugin - GUI - WhatIfEditor	<a href="#">FEWS-26689</a>	FEWS-25917 whatif: remove need for autoCommit					
Plugin - GUI - WhatIfEditor	<a href="#">FEWS-26653</a>	Allow new What-ifs to be used with synchronization and replication	The new what-if (templates) are now synchronized between MC-MC/MC-OC	You can now use the what-if templates in a live system.	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/34+Whatif+Templates++Whatif+Editor">https://publicwiki.deltares.nl/display/FEWSDQ/C/34+Whatif+Templates++Whatif+Editor</a>		
Plugin - GUI - WhatIfEditor	<a href="#">FEWS-26148</a>	FEWS-25917 whatifeditor: enable whatIfTemplateId as valueType					
Plugin - GUI - WhatIfEditor	<a href="#">FEWS-24674</a>	FEWS-25917 whatif: create modifiers embedded in whatif editor					
Plugin - Module - Amalgamate	<a href="#">FEWS-26413</a>	Amalgamate errors at WBL. Put more time steps in a blob when high compression can be achieved (e.g. rainfall)	Put more time steps in a blob when high compression can be achieved (e.g. rainfall)	A single time series with more than 20164 time steps can now be stored in a single blob. The run length compression is taken into account to fill the blob with a single time series to 256kB. In many cases a rainfall series with millions of time steps will now be stored in a single blob due the many zero in the series. Multiple time series are merged into a single blob but only when a single imported/amalgamated time series is not stored over multiple blobs (20164 time steps in 2021.02 or before)	<a href="https://publicwiki.deltares.nl/display/FEWSDQ/C/24+ImportAmalgamate">https://publicwiki.deltares.nl/display/FEWSDQ/C/24+ImportAmalgamate</a>		

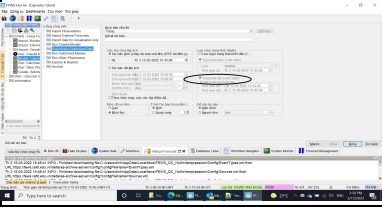
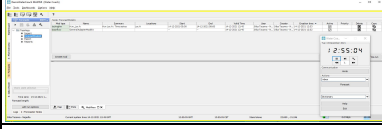


Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Archive Export	<a href="#">FEWS-25978</a>	FEWS-10616 TVA: Enhancement to treat all Archive Exports the same with respect to local/server runs	ExportArchiveModule : option 'allowFD' is available for all export activities	When ExportArchiveModule is running locally from IFD, the data will be exported only if the option allowFD is set to true.  The option 'allowFD' is relevant for all export activities, except for the activity 'migrateOpenArchiveToArchiveDatabase'	<a href="https://publicwiki.deltares.nl/display/FEWSDC/C/22-2+Export+to+Deltares+Open+Archive">https://publicwiki.deltares.nl/display/FEWSDC/C/22-2+Export+to+Deltares+Open+Archive</a>		
Plugin - Module - Archive Export, Plugin - Module - Archive Import	<a href="#">FEWS-26749</a>	FEWS-25409 enable import/export multi-value attribute modifier to archive and to filesystem	Import and export of multi-value location attribute modifiers	In addition to the single-valued location attribute modifiers also the multi-valued attribute modifiers can be imported from and exported to the pi_modifiers.xml The import and export of multi-valued attributes is available in any module that imports from exports to the pi_modifiers.xsd format  An example of the pi_modifiers.xml file:  (code:java) <modifier> <name>name1</name> <modifierId>1</modifierId> <systemActivityDescriptorId>dummy</systemActivityDescriptorId> <enabled>true</enabled> <modifierType>URBS</modifierType> <userId>tacoma</userId> <creationTime date="2000-12-30" time="00:00:00"/> <locationAttributeMultiValueModifier locationId="locA" attributeId="textAttr"> <text>text1</text> <text>text2</text> </locationAttributeMultiValueModifier> <locationAttributeMultiValueModifier locationId="locA" attributeId="numberAttr"> <number>1.0</number> </locationAttributeMultiValueModifier> </modifier>	<a href="https://publicwiki.deltares.nl/display/FEWSDC/C/25+ModifierTypes#id-25ModifierTypes-Multi-valueattributionmodifiers">https://publicwiki.deltares.nl/display/FEWSDC/C/25+ModifierTypes#id-25ModifierTypes-Multi-valueattributionmodifiers</a>		
Plugin - Module - Data Export	<a href="#">FEWS-26579</a>	Export based on creationtime of timeseries	TimeSeriesExport module: new option 'exportChanges'	Use option "exportChanges" to only export changes in the configured period.  An example: (code:java) <general> <exportType>PI</exportType> <folder>\${EXPORT_FOLDERS}</folder> <exportFileName> <name>exportedTimeSeries.xml</name> </exportFileName> <exportChanges> <dbChangeViewPeriod unit="day" multiplier="2"/> </exportChanges> </general>	<a href="https://publicwiki.deltares.nl/display/FEWSDC/C/Export+module#Exportmodule-exportChanges">https://publicwiki.deltares.nl/display/FEWSDC/C/Export+module#Exportmodule-exportChanges</a>		

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	Images
Plugin - Module - Data Export	<a href="#">FEWS-26388</a>	FEWS-26408 Transformation to convert regular grid data to polygons for certain class (and export to shapefile)	New spatial interpolation transformation to convert (regular) grid cells to polygons for certain class breaks	Create (and export) nice polygons shape files based on gridded data, e.g. flood extent. The polygons are created on the basis of class breaks which can be configured	<a href="https://publicwiki.deltares.nl/x/KAlnD">https://publicwiki.deltares.nl/x/KAlnD</a>	<pre>(code:xml) &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;transformationModule version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.widelft.nl/fews" xsi:schemaLocation="http://www.widelft.nl/fews http://www.widelft.nl/schemas/version1.0/transformationModule.xsd"&gt; &lt;transformation id="gridToPolygon"&gt; &lt;interpolationSpatial&gt; &lt;gridToPolygons&gt; &lt;inputVariables&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceId&gt;SpatialInterpolationGridToPolygonsTest&lt;/moduleInstanceId&gt; &lt;valueType&gt;grid&lt;/valueType&gt; &lt;parameterId&gt;T.historical&lt;/parameterId&gt; &lt;locationId&gt;ECMWF&lt;/locationId&gt; &lt;timeSeriesType&gt;external historical&lt;/timeSeriesType&gt; &lt;timeStep unit="day"/&gt; &lt;relativeViewPeriod unit="day" start="0" end="0"/&gt; &lt;readWriteMode&gt;add originals&lt;/readWriteMode&gt; &lt;/timeSeriesSet&gt; &lt;/inputVariable&gt; &lt;polygonValue&gt;-10&lt;/polygonValue&gt;</pre>	
Plugin - Module - Data Export	<a href="#">FEWS-26484</a>	FEWS-26408 add .prj file to shp export function	PRJ file added to Shapefile export	PRJ file added to Shapefile export	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Grid-to+ESRI+Shapefile+Export">https://publicwiki.deltares.nl/display/FEWSDOC/Grid-to+ESRI+Shapefile+Export</a>		
Plugin - Module - Data Export	<a href="#">FEWS-26678</a>	FEWS-26408 Support location/parameter/qualifier/moduleInstance attributes in -metadata- of timeSeriesExportRun	FEWS attributes can now be exported to the metadata of a NetCDF file	Location/Parameter/Qualifier and ModuleInstance attributes are supported	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-metadata">https://publicwiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-metadata</a>	<pre>(code:xml) &lt;metadata&gt; &lt;customAttributes&gt; &lt;string key="model_type" value="\$MODELS"/&gt; &lt;string key="model_reg" value="{*@REGION_DESCRIPTION@(*)}"/&gt; &lt;string key="model_id" value="{*@MODEL_NUM@(*)}"/&gt; &lt;string key="model_name" value="\$CATCHMENTS"/&gt; &lt;string key="issue_freq" value="\$ISSUE_FREQ_HRS hrs"/&gt; &lt;string key="t_issue" value="%CURRENT_TIME(yyyy-MM-dd HH:mm:ss z)"/&gt; &lt;string key="t_step_int" value="\$TS_HRS hrs"/&gt; &lt;string key="variable" value="\$PARAMS"/&gt; &lt;string key="prod_type" value="forecast"/&gt; &lt;string key="t_start" value="%TIME_ZERO(yyyy-MM-dd HH:mm:ss z)"/&gt; &lt;string key="t_end" value="%FORECAST_END_TIME(yyyy-MM-dd HH:mm:ss z)"/&gt; &lt;string key="BOM_region" value="\$BOM_REGION"/&gt;</pre>	
Plugin - Module - Data Export	<a href="#">FEWS-26527</a>	FEWS-26408 Add configurable attribute table in shp export	grid2shp export now supports custom metadata attributes	When there are only a few shapes in the exported shape file you can now add custom attributes (dbf-columns). The values are the same for every shape (dbf-row). grid2shp can also be used to export polygons time series type. In this case there not so many shapes	<a href="https://publicwiki.deltares.nl/x/sIQhC">https://publicwiki.deltares.nl/x/sIQhC</a>		
Plugin - Module - Data Export	<a href="#">FEWS-24423</a>	FEWS-23877 Use Case 3.1 - Implementatie toelever API BRO (gevalideerde tijdreksen)	Export to BRO server for GldAddition documents	Export to BRO server including validation for GldAddition documents	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/BRO+Gld+Addition+Server">https://publicwiki.deltares.nl/display/FEWSDOC/BRO+Gld+Addition+Server</a>		
Plugin - Module - Data Import	<a href="#">FEWS-26431</a>	New import: BSH MARNET ASCII fixed width fields with separate headerfile	New import type: BSH MARNET ASCII	New dedicated import type: BSH MARNET ASCII	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/BSH-MARNET">https://publicwiki.deltares.nl/display/FEWSDOC/BSH-MARNET</a>		

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Plugin - Module - Data Import	<a href="#">FEWS-26340</a>	FEWS-25712 HyFS: Import GFS forecast	Grib2: import of HyFs GFS accumulated series	<p>In GFS grib2 files there are 2 types of accumulated precipitation series : series accumulated from the start of the forecast and series accumulated from the nearest 6 hr interval</p> <p>However, NetCdf library , used to decode the grib2 format , does not provide a separate variable for each series. Netcdf library combines both accumulated series in one series (mixed intervals series)</p> <p>See attached USGFSOp25-AUS_gfs.t00z.pgrb2.0p25.f012.png . For observation time 2021-10-11 12:00 there are two values :</p> <ul style="list-style-type: none"> <li>- the first one is accumulated value from the start of the forecast</li> <li>- the second one is accumulated value for the last 6 hours</li> </ul> <p>Using property "Read_Grib2_Accumulation_Message_Number" we can specify which one is required:</p> <pre>&lt;int Key="Read_Grib2_Accumulation_Message_Number" value="1"/&gt; or &lt;int Key="Read_Grib2_Accumulation_Message_Number" value="2"/&gt;</pre>	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/GRIB2">https://publicwiki.deltares.nl/display/FEWSDOC/GRIB2</a>		
Plugin - Module - Data Import	<a href="#">FEWS-23114</a>	FEWS-16663 Québec: Support of web API of Canadian Ministry of Fisheries and Ocean	Import module: added web API for Canadian Ministry of Fisheries and Oceans	Import module: added a web API import for Tidal Information for the Canadian Ministry of Fisheries and Oceans	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/CanadaDFO">https://publicwiki.deltares.nl/display/FEWSDOC/CanadaDFO</a>		
Plugin - Module - General Adapter	<a href="#">FEWS-26502</a>	FEWS-26408 add geoDatum option in exportNetcdfActivity in General Adapter	ExportNetcdfActivity fo GA module improved	The General adapter ExportNetcdfActivity can now perform a coordinate system transformation for scalar data	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/05-General-Adapter+Module#id-05GeneralAdapterModule-exportNetcdfActivity">https://publicwiki.deltares.nl/display/FEWSDOC/05-General-Adapter+Module#id-05GeneralAdapterModule-exportNetcdfActivity</a>		
Plugin - Module - Secondary Validation	<a href="#">FEWS-26666</a>	FEWS-25560 Split run period for time dependent changes in Secondary Validation	For location sets based on a time dependent constraint and time dependent location relations the Secondary Validation module now splits the run period over all time dependent changes within that period and resolve all time series for each sub period individually	For location sets based on a time dependent constraint and time dependent location relations the Secondary Validation module now splits the run period over all time dependent changes within that period and resolve all time series for each sub period individually	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/21+Time+Dependent+Locations#id-21TimeDependentLocations-TimeDependentLocationrelationsandTimeDependentLocationsetconstraints.(since2022.01)">https://publicwiki.deltares.nl/display/FEWSDOC/21+Time+Dependent+Locations#id-21TimeDependentLocations-TimeDependentLocationrelationsandTimeDependentLocationsetconstraints.(since2022.01)</a>		
Plugin - Module - Transformation	<a href="#">FEWS-26335</a>	FEWS-11613 Allow InterpolationSerial Linear transformation to fill gaps in grid timeseries	New option for serial linear interpolation of grid cells with missing values (cells are filled by interpolating values at time steps before and after)	A new option was added to the InterpolationSerial Linear transformation of grids that allows interpolating missing pixels by interpolation between the pixels for previous and next timesteps. (Before, only grids that are completely missing for some time step could be interpolated: so now also per grid cell).	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Transformation+-+InterpolationSerial+Linear">https://publicwiki.deltares.nl/display/FEWSDOC/Transformation+-+InterpolationSerial+Linear</a>	<pre>&lt;code&gt;XML &lt;transformation id="fill_gap"&gt; &lt;interpolationSerial&gt; &lt;linear&gt; &lt;inputVariable&gt; &lt;variableId&gt;IN_GLOB&lt;/variableId&gt; &lt;/inputVariable&gt; &lt;maxGapLength&gt;6&lt;/maxGapLength&gt; &lt;interpolateMissingGridCells=true&lt;/interpolateMissingGridCells&gt; &lt;outputVariable&gt; &lt;variableId&gt;TMP_GLOB_FILLED&lt;/variableId&gt; &lt;/outputVariable&gt; &lt;/linear&gt; &lt;/interpolationSerial&gt; &lt;/transformation&gt;</pre>	
Plugin - Module - Transformation	<a href="#">FEWS-21632</a>	FEWS-25560 Transformation must trim output time series when configured	A boolean option <trimOutput> has been added to transformations. When true, missing values at the start and end of the output will be removed before writing the data to the database. This can prevent existing values to be overwritten with missings.	A boolean option <trimOutput> has been added to transformations. When true, missing values at the start and end of the output will be removed before writing the data to the database. This can prevent existing values to be overwritten with missings.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/20+Transformation+Module+-+Improved+schema#id-20TransformationModuleImprovedschema.TrimOutput">https://publicwiki.deltares.nl/display/FEWSDOC/20+Transformation+Module+-+Improved+schema#id-20TransformationModuleImprovedschema.TrimOutput</a>		

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Plugin - Module - Transformation	<a href="#">FEWS-26767</a>	Sample nonequidistant time weighted average function for instantaneous values			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Nonequidistant+Nonequidistant+TimeWeightedAverage">https://publicwiki.deltares.nl/display/FEWSDOC/Nonequidistant+Nonequidistant+TimeWeightedAverage</a>		
Plugin - Module - Transformation	<a href="#">FEWS-26611</a>	FEWS-21828 FOEN-SA: zeroDegreeAltitude is not documented, or implemented?			<a href="https://publicwiki.deltares.nl/display/FEWSDOC/zeroDegreeAltitude">https://publicwiki.deltares.nl/display/FEWSDOC/zeroDegreeAltitude</a>		
Plugin - Module - Transformation	<a href="#">FEWS-26609</a>	FEWS-21828 IMFS-SA: Add disaggregation - constant function to transformations			<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=210371640">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=210371640</a>	<pre>(code.xml) &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;transformationModule version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wildelft.nl/feWS" xsi:schemaLocation="http://www.wildelft.nl/feWS http://feWS.wildelft.nl/schemas/version1.0/transformationModule.xsd"&gt; &lt;variable&gt; &lt;variableId&gt;input&lt;/variableId&gt; &lt;timeSeriesSet&gt; &lt;moduleInstanceld&gt;DisaggregationConstantFunction&lt;/moduleInstanceld&gt; &lt;valueType&gt;scalar&lt;/valueType&gt; &lt;parameterId&gt;O_obs&lt;/parameterId&gt; &lt;locationId&gt;H-2001&lt;/locationId&gt; &lt;timeSeriesType&gt;external historical&lt;/timeSeriesType&gt; &lt;timeStep unit="day"/&gt; &lt;relativeViewPeriod unit="day" start="-1" end="12"/&gt; &lt;readWriteMode&gt;editing visible to all future task runs&lt;/readWriteMode&gt; &lt;/timeSeriesSet&gt; &lt;/variable&gt; &lt;variable&gt; &lt;variableId&gt;output&lt;/variableId&gt; &lt;timeSeriesSet&gt;</pre>	
System	<a href="#">FEWS-26880</a>	Use java.net.useSystemProxies=true by default	By default the Windows OS / Linux Gnome proxy settings are now used	There is no longer the need to add the -Djava.net.useSystemProxies=true to the clientConfig. You can add -Djava.net.useSystemProxies=false as JVMOption to the clientConfig.xml to get the <del>same behavior</del> <b>same behavior</b>	<a href="https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8683755">https://publicwiki.deltares.nl/pages/viewpage.action?pageId=8683755</a>		
System - Binaries	<a href="#">FEWS-26506</a>	FEWS-26097 Consistent order of classpath entries under linux and allow unlimited classpath for winrun4j	Consistent order of jar files in the bin dir on Linux allow deep directory structure	On Linux the order of entries in a directory is not sorted alphabetically. When two jar files contain a class/resource with the same name but with different content that can lead to inconsistent behavior. The bin dir can now also be located in a deep directory structure without "max class path exceeded" error	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Launching+Delft-FEWS+-+2018.02+and+later">https://publicwiki.deltares.nl/display/FEWSDOC/Launching+Delft-FEWS+-+2018.02+and+later</a>		
System - Code clean-up	<a href="#">FEWS-26993</a>	FEWS-26852 NWS: #103256 Upgrade netcdf libraries	NetCDF libraries upgraded	NetCDF libraries upgraded to version 5.5.2	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Upgrade+and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDOC/Upgrade+and+update+strategy</a>		
System - Code clean-up	<a href="#">FEWS-26887</a>	FEWS-21828 Remove old archive import module	Old archive import module removed.	It is no longer possible to import old archives.	<a href="https://publicwiki.deltares.nl/x/qoGE">https://publicwiki.deltares.nl/x/qoGE</a>		
System - Code quality & unit tests	<a href="#">FEWS-26549</a>	Improve unit test (archive - utf 8)					
System - FEWS webservices - Digitale Delta	<a href="#">FEWS-26691</a>	FEWS-25560 Extend FEWS DD-API with parameter/growtheld/unit filtering and parameter_end point					
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#FEWSPIRESTW ebService-GETTimeseries">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-REST+Web+Service#FEWSPIRESTW ebService-GETTimeseries</a>		

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System - FEWS webservices - PI SOAP	<a href="#">FEWS-26843</a>	FEWS-21828 FEWS Code Cleanup: Remove SOAP Webservice	Delft-FEWS Web Services SOAP has been removed	The Delft-FEWS Web Services SOAP has been removed for the WebServices APIs.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-SOAP+Web+Service">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS-PI-SOAP+Web+Service</a>		
System - FEWS webservices - SSD	<a href="#">FEWS-26652</a>	SSD Service - Time dimension	SSD Service: GetCapabilities reponse improved with a default time	SSD Service: GetCapabilities reponse improved with a default time	<a href="https://fewsdocs.deltares.nl/webservices/ssd/#get-ssd-request-GetCapabilities">https://fewsdocs.deltares.nl/webservices/ssd/#get-ssd-request-GetCapabilities</a>		
System - FEWS webservices - WMS	<a href="#">FEWS-26318</a>	FEWS-25299 WMS - parameter unit in getLegend response	GetLegend JSON response unit added	GetLegend JSON response now has unit added as well.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS+T#FEWSWebMappingServicewithtimesupport:WMS+GetLegendGraphic">https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Mapping+Service+with+time+support%3A+WMS+T#FEWSWebMappingServicewithtimesupport:WMS+GetLegendGraphic</a>		
System - Language files	<a href="#">FEWS-26975</a>	FEWS-26858 Vietnamese translations	Vietnamese translations improved	Additions and improvements to the Vietnamese language files.	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+GUI+Languages">https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+GUI+Languages</a>		
System - Security	<a href="#">FEWS-26391</a>	FEWS-16132 Signing of Delft-FEWS executable and libraries	Delft-FEWS executables can now be 'signed' via Teamcity build server	Delft-FEWS executables can now be 'signed' via Teamcity build server. A dedicated place is created to make sure the delivered (java) executables like the Delft-FEWS start executables, createShortcuts and launcher executables are properly signed with Deltars as 'Signer' in the Digital Signatures tab (file --> properties). This is valid for Windows	<a href="https://dpcbuild.deltares.nl/project/SigningAndCertificates?projectTab=overview&amp;mode=builds">https://dpcbuild.deltares.nl/project/SigningAndCertificates?projectTab=overview&amp;mode=builds</a>		
Third Party	<a href="#">FEWS-25228</a>	FEWS-25134 Upgrade NetCDF lib	The NetCDF java libraries used by FEWS have been updated to version 5.5.2	The NetCDF java libraries have been updated to version 5.5.2. The supporting NetCDF-C library for writing NetCDF-4 files has been updated to version 4.8	<a href="https://publicwiki.deltares.nl/display/FEWSDOC/Upgrade+and+update+strategy">https://publicwiki.deltares.nl/display/FEWSDOC/Upgrade+and+update+strategy</a>		
Water Coach	<a href="#">FEWS-25987</a>	WaterCoach: modifiers past watercoach time visible	WaterCoach - only modifiers created before the WaterCoach system time are available	Only modifiers created before the WaterCoach system time are available in WaterCoach mode	<a href="https://publicwiki.deltares.nl/x/OgrkC">https://publicwiki.deltares.nl/x/OgrkC</a>		
	<a href="#">FEWS-26900</a>	FEWS-26858 Organize 2022.01 System Stress Tests					
	<a href="#">FEWS-27423</a>	Log errors when import workflows are not amalgamated.	Error message when amalgamate module is not scheduled for import workflow	FEWS dramatically slows down when runs that produce external historical scalars are not amalgamated. Amalgamate maintenance should run for such workflows at least after every 100 (import) runs.			