






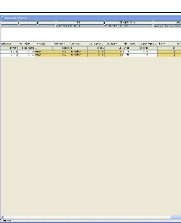


Component/Issue	Issue Type	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Admin Web User Interface	Improvement	FEWS-8217	Please extend the list of synchlevels to be synchronised between two MC by the MC-synchronisation task	Added custom synch levels for timeseries for MC_Synchronisation task (up to 35)	Added custom synch levels for timeseries for MC_Synchronisation task. This will allow users to use higher synchlevel numbers in their configuration when they can't make use of the default synchlevels	Not applicable	
App - Admin Web User Interface, Database	New Feature	FEWS-8214	fb 908: analyzing db sizes catl rfc's and preparing queries and checks for them				
App - Data Import Module (DIM)	New Feature	FEWS-7972	FEWS DeltaModel : Import of NHI data in FEWS				
App - Launcher Gui	New Feature	FEWS-8106	Extension of the flexibility in customizing the fews launcher application	Extending customization of the fews launcher application	Added options to configure: -Skipping the launcher login window -Custom labels in the launcher window for all visible text		
App - Master Controller Server	Improvement	FEWS-7077	Automate MC Unit Tests so they can run on TeamCity				
App - Mobile (HTML5)	New Feature	FEWS-8458	FC2012: create Pumpstatus and TrackRecords apps	Three HTML5-based mobile apps for data entry in Delt-FEWS	Field information is of essential value for operational water management systems, be it flood early warning systems or water information systems. Three mobile apps have been developed that each have a specific way to add data and information to a Delt-FEWS based operational system. Pump Status App Especially in developing countries, control structures are not necessarily connected to a central SCADA system. With this app a pump operator can simply press a button on a GUI to notify that a pump has been switched on or off. The GUI shows the last known status for all pumps, per pumping station.		
App - Mobile (HTML5)	New Feature	FEWS-8458	FC2012: create Pumpstatus and TrackRecords apps	Three HTML5-based mobile apps for data entry in Delt-FEWS	Flood Tracking App During, but also in the aftermath of floods, information on the flood extent is essential. With this app, people in flooded areas can pass on their situation. Every notification contains the location, a depth value and additional comments. The total of notifications show the actual flood extent. Data Entry App This app is helpful for manually adding simple time series, such as daily precipitation or hourly water levels, to an operational system. When opened, the user can select a location and parameter. The app then shows the latest known data in a table, which the user can edit or extend.		
	New Feature as subtask	FEWS-8800	FEWS-8709 Permissions/UserGroups: add form to toggle active/passive membership of a user group (D39)	Switching the permission on/off in the GUI	The user can switch his or her permission on/off in the a popup dialog (see example in the attachment) The popup can be opened from the FEWSExplorer, menu Options -> Permissions. Note that this Permissions menu is only available if there are any permissions configured. The dialog shows all configured permissions, but only the permissions allowed for the current user can be switched on/off.	In the example below we have configured the permissions for two functions, and we have configured the users that have these permissions. Presently the permissions have only id's and no descriptions, but we can use meaningful id's. For example the user "hydrologist" can (temporary) switch off his permission to edit labels. However the user "mlligt" cannot do that since he has no permission at all to edit labels.	
App - Operator Client Gui					When the user confirms the changes, the FEWSExplorer is reloaded to activate the new settings. The permissions, that are switched off, are written in the User_settings.ini file, with "DisabledPermissions" as subject and the user name. If we want that FEWS starts by default with some permission off for certain user, we can enter the section "DisabledPermissions" in User_settings.ini by hand, for example: [DisabledPermissions (tacoma)] import edition=false allow value edit=false		
App - Operator Client Gui	New Feature as subtask	FEWS-8710	FEWS-8804 BoM: Add Australian time zones (D7)	Australian time zones	Overview of implemented Australian time zones. The list shows: time zone id, winter/summer offset and the winter/summer display name, description and associated region ACT: winter GMT+9:30 ACST, summer GMT+10:30 ACDT, Australian Central Standard Time (South Australia) AET: winter GMT+10 AEST, summer GMT+11 AEDT, Australian Eastern Standard Time (New South Wales, Victoria, Tasmania) AWT: winter and summer GMT+8 AWST, Australian Western Standard Time (Western Australia) ACST: winter and summer GMT+9:30 ACST, Australian Central Standard Time (Northern Territory) AEST: winter and summer GMT+10 AEST, Australian Eastern Standard Time (Queensland) Time zone id should be used in configuration files, and is also visible in the drop-down list with time zones in FEWSExplorer. Display name is used for formatting of the date/time string. For example, AET shows in winter 13.06.2013 AEST, and in summer 13.01.2013 AEDT (AEDT = Australian Eastern Daylight Time)		
App - Operator Client Gui	New Feature	FEWS-8680	Display permission-role in UI (i.e. Forecaster or Tribune for RWaOS)	Added display of first occurring usergroup after username in statusbar.			
App - Operator Client Gui, Plugin - Gui - Time Series	New Feature as subtask	FEWS-8625	FEWS-8617 Add DINO and UMaAgo file format to list of export formats in TSD file export and explorer file export	Added DINO and UMaAgo file format to export formats in Time Series Display and explorer file export			
App - Operator Client Gui, Plugin - Gui - Time Series	New Feature as subtask	FEWS-8624	FEWS-8617 Add flagSource to PkXML and CSV export files (in export from TSD and File menu)				
App - Operator Client Gui	New Feature	FEWS-7292	Include patch creating mechanisms in build server				
App - TeamCity	New Feature	FEWS-8659	Automatically create a patch with each new stable build being produced on Team City				
Configuration	New Feature as subtask	FEWS-8152	FEWS-8475 Existing Xsd Schemas should be improved with constraints so that uniqueness is enforced and duplicate ids are no longer allowed in validation within XMLSpy.				
Configuration	Improvement	FEWS-8911	Dump file explosion when dump file destination is included in dump file source dir				
Data Access Component, System - PI Service	New Feature	FEWS-8246	Implement FEWSPIService that interacts with DataAccessComponent				
Data Access Component	New Feature as subtask	FEWS-7380	FEWS-7378 Possibility to write ImportStatus information to file				
Database	New Feature as subtask	FEWS-7381	FEWS-7378 Create a minimal FEWS bin				
Database	Improvement	FEWS-8291	add some safeguard against Foreign Key constraints occurring when using a very old what-if scenario, which was previously not synched to FSS		When starting a task using the ManualForecastDialog with a WhatIfScenario, the whatIfScenario will be modified so that it will be uploaded to the Forecasting Shell.		
Database, Plugin - Gui - Grid Display, Plugin - Gui - Map	New Feature as subtask	FEWS-8728	FEWS-5586 DEM Layer				
Database, Plugin - Gui - Grid Display	New Feature as subtask	FEWS-8719	FEWS-5586 DEM Pre-Tiling tool				
Database	New Feature as subtask	FEWS-8714	FEWS-8709 Use CSV file with location attribute information instead of dbf file				
Database, Plugin - Gui - Time Series	Improvement as subtask	FEWS-8599	FEWS-7855 Thinning data when reading large amounts of data				
Database, Plugin - Gui - Map	Improvement	FEWS-8206	No longer auto generate missing shp/sll/dbz files. Allow dbf without shp/sll. Allow uploading shp file				
Database	New Feature	FEWS-8203	Something to store and visualize distributions (e.g. dropsize distributions of a disdro meter)				
Database, Plugin - Gui - Time Series	Improvement as subtask	FEWS-8138	FEWS-7855 voorkom java heapspaces met te grote timeseriesSets van scalars, samples etc				
Database	New Feature as subtask	FEWS-7379	FEWS-7378 On-the-fly creation of parameters-locations-timeseriessets				
Debug Tool - Database Viewer	New Feature as subtask	FEWS-8678	FEWS-8617 Option to use 'template' to store/open column settings in database viewer				
Debug Tool - Database Viewer	New Feature as subtask	FEWS-7758	FEWS-8617 Uitbreiding van statistiek info in database viewer.	Statistical Columns added to the Database Viewer	A new set of (on-the-fly calculated) columns have been added to the Database Viewer. This functionality enables the user for direct (on-the-fly) assessment of timeseries statistics. To maintain the overview, the user can dynamically store the columns which have been selected. The new columns focus on: * basic statistics: sum, mean, median, percentiles, standard deviation * missing (number, number of periods, average period minimum period, maximum period) * original/reliables (number, number of periods, average period minimum period, maximum period) * corrected/reliables (number, number of periods, average period minimum period, maximum period) * completed/reliables (number, number of periods, average period minimum period, maximum period) * original/doubtful (number, number of periods, average period minimum period, maximum period)		

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Plugin - Gui - TaskRunDialog	Improvement	FEWS-8728	Location of panels on TaskRunDialog should be configurable	TaskRunDialog : positions of the panels on the Operator/Task page are configurable	By default, all panels on the OperatorTask page are aligned vertically. We can change the default position by specifying the row and the column for each panel. Row and column element are optional, however if we decide to change the default position, we must specify the row and the column for all panels on the specific OperatorTask page.	This example creates a layout as shown in the picture LayoutWithRowColumnConfigured.jpg <pre><taskGroup name="Thames Barrier Forecasts"> <operatorTask name="Manual Tidal Thames Forecasts"> workflow="TIDM,Thames_Forecasts" <panel name="Select a Closing Scenario" row="1" column="1"> ... </panel> <panel name="Closing Options" row="2" column="1"> ... </panel> <panel name="Select Manual Surge adjustment at Sheerness" row="3" column="1"> ... </panel> <panel name="Select Automatic Surge adjustment Sheerness" row="3" column="2"> ... </panel> <panel name="Set Inflow values" row="2" column="2"> ... </panel> </operatorTask> </taskGroup></pre>	
Plugin - Gui - Time Series	New Feature as subtask	FEWS-8709	FEWS-8709 Rating Curve schema: add comment field				
Plugin - Gui - Time Series	Improvement as subtask	FEWS-8799	FEWS-8709 TSDisplay: make unreliable invisibles by hiding values based on quality flags (D5)		Within the TimeSeriesDisplay, a new choice has been added under the 'Chart' dropdown button to 'Hide unreliable' time series values in a graph. When selecting this setting (also available via shortcut Ctrl+Shift+H), the unreliable data points will be removed from the chart but remain available in the table.		
Plugin - Gui - Time Series	Improvement as subtask	FEWS-7538	FEWS-7508 Add time of peak to tooltip	Tooltip text shows time of peak/low	Dateformat in tooltip is equal to date format of FEWS unless format is overruled in configuration.	<pre><statisticalFunction function="showPeaksAbove"> <!-- DateFormat optional. Defaults to FEWS environment dateformat --> <dateFormat="MM/dd/yyyy"/> </statisticalFunction></pre>	
Plugin - Gui - Time Series	Improvement	FEWS-8530	Lock in TimeSeriesDisplay should not by default always be closed				
Plugin - Gui - Time Series	Improvement as subtask	FEWS-8800	FEWS-8709 Flags: enable use of 'void' flag instead of 'unreliable'	English variant of GUI texts for BOM project, Australia	FEWS contains, in addition to english texts, also an english variant of the texts, that has been added for BOM project, Australia. Presently, the only difference is the usage of 'void' instead of 'unreliable'. All other texts are the same, however any of texts can be modified according to the requirements of the client. To use the BOM variant of English, configure in global properties (not case sensitive): LANGUAGE=EN COUNTRY=AU VARIANT=BOM How can I change BOM text? Search in FEWS source code the files 'messages_en_aus_bom.properties' In these files you can enter your custom texts. Currently there are 4 BOM properties files in 4 java packages. You can easily add additional properties file by copying any 'messages_en_aus_bom.properties' file to 'messages_en_aus_bom.properties'		
Plugin - Gui - Time Series	New Feature as subtask	FEWS-8603	FEWS-6858 E7801 - Display Total Amount of Rainfall on Plots	TimeSeriesDisplay and descriptive statistics in DisplayGroups	In addition to the descriptive statistics in TimeSeriesDisplay configuration file, the user can specify descriptive statistics functions for any timeseries (TimeSeriesSet) in DisplayGroups. Every timeseries can have its own statistics functions. When the user opens a preconfigured display that includes statistics function(s), the statistics are visible directly. These preconfigured statistics stay always in the picture, unless the user switches to a display without statistics functions, or unless the general descriptive statistics are switched on with the toolbar button "Statistics (F10)"	A part of DisplayGroups.xml configuration that creates descriptive statistics as shown in the attached picture DescStatisticsDisplayGroups.jpg <pre><plot id="Overview-Sobek"> <subplot> <inverted>true</inverted> <plotHeight>1</plotHeight> <descriptionFunction function="sum"> <timeSeriesSet> <moduleInstanceId>Vecht_BA_Prep_Forecast</moduleInstanceId> <valueType>scalar</valueType> <parameterId>merged</parameterId> <locationId>locationIdVecht_BA_Prep_Forecast</locationId> <timeSeriesType>simulated forecasting</timeSeriesType> <timeStep unit="hour"/> <relativeViewerPeriod unit="day" start="-10" end="5"/> <readWriteMode>read only</readWriteMode> </timeSeriesSet> </subplot> <subplot> <plotHeight>2</plotHeight> <descriptionFunction function="min"> <timeSeriesSet> <moduleInstanceId>Vecht_Rydr_Sobek_Forecast</moduleInstanceId> <valueType>scalar</valueType> <parameterId>updated_yoorger</parameterId> <locationId>locationIdVecht_Rydr_Sobek_Forecast</locationId> <timeSeriesType>simulated forecasting</timeSeriesType> <timeStep unit="hour"/> <relativeViewerPeriod unit="hour" start="-96" end="36"/> <readWriteMode>read complete forecast</readWriteMode> </timeSeriesSet> <timeSeriesSet> <moduleInstanceId>ImportBalland</moduleInstanceId> <valueType>scalar</valueType> <parameterId>merged</parameterId> <locationId>locationIdBalland_ImportBalland</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour"/> <relativeViewerPeriod unit="hour" start="-96" end="36"/> <readWriteMode>add original</readWriteMode> <synchLevel>1</synchLevel> </timeSeriesSet> <timeSeriesSet> <moduleInstanceId>Import</moduleInstanceId> <valueType>scalar</valueType> <parameterId>merged</parameterId> <locationId>locationIdAll_Import</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour"/> <relativeViewerPeriod unit="hour" start="-96" end="36"/> <readWriteMode>add original</readWriteMode> <synchLevel>1</synchLevel> </timeSeriesSet> </subplot> </plot> </subplot> </plot></pre>	
Plugin - Gui - Time Series	Improvement as subtask	FEWS-8698	FEWS-8709 BoM-HyFS: Toggle display unit in TSD/TSE			<pre><explorer version="1.1" xmlns="http://www.widelift.nl/fews"> xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.widelift.nl/fews http://www.widelift.nl/schemas/version1.0/explorer.xsd" <description>desc</description> <systemInformation> <systemCaption>CHRS - Alaska-Pacific River Forecast Center</systemCaption> </systemInformation> <globalDatum> <displayUnitLabel>M</displayUnitLabel> <systemUnitLabel>Metric</systemUnitLabel> <units>system</units> </explorer></pre>	
Plugin - Gui - Time Series	New Feature as subtask	FEWS-8622	FEWS-8617 Excel-like filter in columns of TSD table on contents, units, flag				
Plugin - Gui - Time Series Modifier	Improvement as subtask	FEWS-9002	FEWS-8709 Attribute Modifiers scherm heeft default een Export button op het modifier scherm, die moet je ook uit kunnen zetten				
Plugin - Gui - Time Series Modifier	Improvement as subtask	FEWS-8719	FEWS-6151 Grafische Aanpas Module - alle vaste punten in 1x aan of uit				
Plugin - Gui - Time Series Modifier	Improvement as subtask	FEWS-8778	FEWS-6151 Grafische Aanpas Module - manipuleer middelen (pijles)toetsen				
Plugin - Module - (Primary) Validation	New Feature as subtask	FEWS-8621	FEWS-8617 Add optional configurable comments to values in validationRules	Labels and comments in ValidationRuleSets	Every validation criterion can be provided with label and comment. If a criterion is violated, the configured label and/or comment is added to relevant time series element. In case of labels we can choose from the values "dried", "inundated", "ice", "above detection range", "below detection range" and "varying". Comment can be any non empty string accepted by the xml schema	<pre><example 1> <extremeValueFunction> <charMin constantLimit="0.999999" comment="meetwaarde boven meetbereik" label="inundated"/> <charMin constantLimit="0.999999" comment="sensor droogtevallen" label="dried"/> </extremeValueFunction> <rateOfChangeFunction> <rateOfChangeFunction> <constantLimit>0.001</constantLimit> <rateOfChangeFunction> <constantLimit>0.001</constantLimit> </rateOfChangeFunction> </rateOfChangeFunction> </rateOfChangeFunction> </example 1> <example 2> <extremeValue> <charMin constantLimit="0.001" label="above detection range"/> <extremeValue> <charMin constantLimit="0.02"/> </extremeValue> </extremeValue> </example 2> <example 3> <nameReading> <label>dried</label> <comment>afname van de gemiddelde vloed</comment> <nameReadingDeviation constantLimit="0.01"/> <nameReadingPeriod constantLimit="3600"/> </nameReading> <temporaryShift> <label>dried</label> <comment>afname van de gemiddelde vloed</comment> <rateOfTemporaryShift constantLimit="0.01"/> <temporaryShiftPeriod constantLimit="194000"/> </temporaryShift> </example 3></pre>	
Plugin - Module - Data Export	New Feature as subtask	FEWS-8722	FEWS-5586 Improve/Adjust NetCDF-CF export		According to Onno the netcdf files exported from FEWS work already in combination with the 3Di model, so no changes are needed for this issue.		
Plugin - Module - Data Export	Improvement	FEWS-8400	Export van missing data naar LMW moet een flag 1 hebben, moet hard in de code staan	fixed quality characteristic for LMW export in case of missing values			
Plugin - Module - Data Export	New Feature as subtask	FEWS-8706	FEWS-8709 Add HHRR Export function	HHRR timeseries export, BOM Australia	The HHRR file format is a special ASCII format for hydrological event data interchange, used by Australian Bureau of Meteorology. This file format has the following rows: HHRR 1.7 <number of rows in the file> <event row> <event row> HHNN Each timeseries event is written as a separate row in the file. Only non-missing values are written. The fields are separated by spaces. The number of fields and the meaning of some fields are slightly different per parameter. The HHRR export currently supports parameters P, H and Q. These parameter IDs should be used in export ID mapping. Exporting of P accumulated is not supported yet, P values are put in the translated field. Also the export of <raw> field is not supported yet. This export type requires unit and flag conversions, otherwise the hrr format cannot be written correctly	<pre><example (part of) TimeSeriesImportRun.xml: <general> <exportType>hrr</exportType> <folder>./hrr</folder> <exportFileName> <name>hrr</name> </exportFileName> <idMapId>hrr</idMapId> <unitConversionId>hrr</unitConversionId> <flagConversionId>hrr</flagConversionId> </general> <metadata> <comment>HRR</comment> </metadata> <timeSeriesSet> <moduleInstanceId>ExportHRR</moduleInstanceId> <valueType>scalar</valueType> <parameterId>merged</parameterId> <qualifierId>Q</qualifierId> <locationId>2001</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonperiodic"/> <relativeViewerPeriod unit="hour" start="0" end="1"/> <readWriteMode>add original</readWriteMode> </timeSeriesSet> </example (part of) flag mapping file <flagConversion> <inputFlag> <flagConversionId> <inputFlag> <name>SET_FLAG_ONLY_TO_ORIGINAL_UNRELIABLE</name> <valueId>value</valueId> </inputFlag> <outputFlag> <name>D5</name> <valueId>value</valueId> </outputFlag> </flagConversion> </flagConversion> <defaultOutputFlag> <name>D5</name> <valueId>value</valueId> </defaultOutputFlag> <missingValueFlag> <name>MISSING</name> <valueId>value</valueId> </missingValueFlag> </flagConversion></pre>	
				Information per field(s): Field <SensorNo> The Hrr export expects that the series has exactly one qualifier. This qualifier is written in the field <SensorNo> If the series has no qualifier, number 0 is put in this field and a debug message is written. If the series has more qualifiers, only the first one is used and a debug message is written Fields <Event Mode> and <Quality Code> The flag conversions must be used to write these HHRR fields correctly. Each FEWS flag, used in the export timeseries, should be mapped to one of the HHRR flags. Also flag names must be specified. Flag name is used to write <Event Mode> field, flag value is used to write <Quality Code>. See config example of the flag mapping file. Field [comment] If there is a user name attached to the timeseries event, for example when the value has been edited, this user name is put in the comment field. Also, default comment can be configured in TimeseriesExportRun.xml, with element <comment> from Metadata section.			

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					<p>Field <code><mb></code> (only relevant for H parameter) Code LGH (local datum) or AHD (Australian datum) can be used as measurement reference. The unit conversions must be used to write these codes correctly. OutputUnitTypes should be configured as LGH or AHD. For example, to convert mm to m, we use unit type LGH and not m: <pre><unitConversion> <inputUnitType>mm</inputUnitType> <outputUnitType>m</outputUnitType> <multiplier>0.001</multiplier> <incrementer>0</incrementer> </unitConversion></pre> </p> <p>If the same conversions (from mm to m) is applicable also to another parameter, it can be still used, since the LGH or AHD code is written only in case of H parameter.</p> <p>If Few's internal unit is already m, the unit conversion must be still added, to be able write LGH or AHD. For example: <pre><unitConversion> <inputUnitType>mm</inputUnitType> <outputUnitType>m</outputUnitType> <multiplier>1</multiplier> <incrementer>0</incrementer> </unitConversion></pre> </p> <p>Precision of the values <pre><add-as-able> <unitConversion> <inputUnitType>mm</inputUnitType> <outputUnitType>m</outputUnitType> <multiplier>1</multiplier> <incrementer>0</incrementer> </unitConversion></pre> </p>		
Plugin - Module - Data Export	New Feature	FEWS-8722	FOEN: GN Export for update run / measured data (PQT-datascheme)	Added an additional GN Timeseries Export	Added a TimeseriesExport that is similar to the GN Export, but exports each location in a different file.		
Plugin - Module - Data Export	New Feature as subtask	FEWS-8726	FEWS-8709 TSE export: enable export of manually entered/corrected data only	added possibility of exporting only manually changed timeseries events	Within the Time Series Editor, time series events can be changed manually. The value or the flag can be changed (i.e. reliable, unreliable) or an altogether new event (time stamp) can be added. When exporting a time series it is now possible to filter on any or all of these manual changes. The ViewPeriod filters based on the time of change as written to the database and not the date in the event itself. Note that this ViewPeriod is relative to dispatch time of the task. Please do not specify a relativeViewPeriod in the timeseriesSet. This functionality can only be used in combination with an event based output file format.	<pre><timeseriesExport xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/version1.0/timeseriesExportRun.xsd"> <export> <exportType>P1</exportType> <folder>./testExportManualValuesAndFlags</folder> <exportFileName> </exportFileName> <manualChangeViewPeriod unit="week" multiplier="1" /> <exportManualChanges>true</exportManualChanges> <exportManualFlagChanges>true</exportManualFlagChanges> <exportManualValueChanges>true</exportManualValueChanges> </export> </timeseriesExport></pre>	
Plugin - Module - Data Export, Plugin - Module - Data Import	New Feature as subtask	FEWS-6177	FEWS-6175 Import / Export NetCDF				
Plugin - Module - Data Import	New Feature	FEWS-8728	Data import from Aquarius to FEWS (OMS)				
Plugin - Module - Data Import	New Feature as subtask	FEWS-8227	FEWS-8230 SCADAConnect import routine		As part of the Goulburn-Murray Water project (Victoria, Australia) we need to create three new import routines. This is 3 of 3. Example of the data to be imported and a description of the format will be provided on or before the 05/11/12. Project number is 1207257. The budget for this activity is 3 days including testing and documentation. Please let me know if it will be more.		
Plugin - Module - Data Import	New Feature as subtask	FEWS-7382	FEWS-7378 Add the possibility to loop over each importfile				
Plugin - Module - Data Import	New Feature as subtask	FEWS-8721	FEWS-5586 Improve/Adjust NetCDF-CF import	Adjust NetCDF import/export routines to be able to read 3Di NetCDF files	3Di NetCDF outputfiles can already be read by Delt-FEWS. No adjustments made.		
Plugin - Module - Data Import	Improvement	FEWS-8704	For import files from the Environment Agency containing both 15 min and hourly data for the same location with the external qualifier will need to be interpreted			<pre><importRun xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/version1.0/importRun.xsd"> <import> <folder>./import</folder> <idMap>idMap</idMap> </import> </importRun></pre>	
						<pre><timeseriesSet> <moduleInstanceId>ImportTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>mc</parameterId> <locationId>H-2004</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="minute" multiplier="15" /> <readWriteMode>add original</readWriteMode> </timeseriesSet></pre>	
						<pre><timeseriesSet> <moduleInstanceId>ImportTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>mc</parameterId> <locationId>H-2004</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="hour" multiplier="1" /> <readWriteMode>add original</readWriteMode> </timeseriesSet></pre>	
						<pre><idMap xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.wideft.nl/FEWS" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/idMap.xsd"> <map internalLocation="H-2004" externalParameter="Rainfall" internalParameter="P_m" externalLocation="1339" externalQualifier="1 HOUR" /> <map internalLocation="H-2004" externalParameter="Rainfall" internalParameter="P_m" externalLocation="1339" externalQualifier="15MIN" /> <enableOneToOneMapping> </idMap></pre>	
Plugin - Module - Data Import	New Feature	FEWS-8226	Import of tab delimited data	Import type GeneralCsv imports also TAB separated files	To import Colombian 'climatologica' and 'hidrologica' files, import type GeneralCsv can be used. Since this is a general import type, you should enter some information about your file in TimeSeriesImportRun.xml, element <table>. The documentation can be found on http://publicwiki.deltares.nl/display/FEWSDOC/generalCsv . In addition to this documentation, the strings as // are handled also as missing values.	<pre><importRun xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.wideft.nl/FEWS" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/importRun.xsd"> <import> <folder>./import</folder> <idMap>idMap</idMap> </import> </importRun></pre>	
						<pre><table> <thead> <tr> <th dataTimeColumn name="TIME" pattern="yyyy-MM-dd HH:mm:ss"/> <th dataColumn name="WS" unit="m" parameterId="WS_meas"/> <th dataColumn name="WD" unit="m" parameterId="WD_meas"/> <th dataColumn name="PA" unit="m" parameterId="PA_meas"/> <th dataColumn name="TA" unit="m" parameterId="TA_meas"/> <th dataColumn name="RH" unit="m" parameterId="RH_meas"/> <th dataColumn name="DP" unit="m" parameterId="DP_meas"/> <th dataColumn name="PR" unit="m" parameterId="PR_meas"/> <th dataColumn name="VB" unit="m" parameterId="VB_meas"/> </thead> </table> </table></pre>	
						<pre><table> <thead> <tr> <th dataTimeColumn name="TIME" pattern="yyyy-MM-dd HH:mm:ss"/> <th dataColumn name="WS" unit="m" parameterId="WS_meas"/> <th dataColumn name="WD" unit="m" parameterId="WD_meas"/> <th dataColumn name="PA" unit="m" parameterId="PA_meas"/> <th dataColumn name="TA" unit="m" parameterId="TA_meas"/> <th dataColumn name="RH" unit="m" parameterId="RH_meas"/> <th dataColumn name="DP" unit="m" parameterId="DP_meas"/> <th dataColumn name="PR" unit="m" parameterId="PR_meas"/> <th dataColumn name="VB" unit="m" parameterId="VB_meas"/> </thead> </table> </table></pre>	
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Plugin - Module - Data Import	New Feature as subtask	FEWS-8226	FEWS-8230 Theiss CSV format import routine	TheissCsv import type for Goulburn-Murray Water project (Victoria, Australia)	TheissCsv import type This is a reader for Theiss CSV file format, created for Goulburn-Murray Water project (Victoria, Australia) File example: <pre>"TOAS";"5701";"CR800";"5701";"CR800.Sid.21";"CPU:405214A_2012-05-23_GMWSC_CR8";"5121";"PushData" "TIMESTAMP";"RECORD";"BV";"LT1";"FR1";"TAB";"RT";"mm" "TS";"RV";"405214A_200.09_BV1_S";"405214A_100.09_LT1_S";"405214A_141.09_FR1_S";"405214A_223.09_TBL_S";"405214A_010.09_RT1_SD" "";"Smp";"Smp";"Smp";"Smp" "2012-09-06 11:15:00";0686.13;62.0;41.455;6962.19;29.60003 "2012-09-06 11:30:00";0687.14;21.0;41.455;6962.19;29.60003</pre>	<pre><importRun xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.wideft.nl/FEWS" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/importRun.xsd"> <import> <folder>./import</folder> <idMap>idMap</idMap> </import> </importRun></pre>	
Plugin - Module - Data Import	New Feature as subtask	FEWS-8226	FEWS-8230 Water Data Transfer Format (WDTF) import routine	WdtfXmi import type for Goulburn-Murray Water project (Victoria, Australia)	This import type reads scalar time series from Water Data Transfer Format (WDTF). WDTF is an XML format designed by Bureau of Meteorology, Australia. More information can be found on this site: http://www.bom.gov.au/water/regulations/wdtf WDTF format supports large variety of data. This parser reads only scalar timeseries that are stored in the element TimeSeriesObservation. The header values are read from the following elements: - parameter is read from the obligatory element observedProperty - qualifier is read from the obligatory element procedure - location is read from the obligatory element featureOfInterest - unit is read from the optional element defaultUnitsOfMeasure The rules for parsing of parameter, qualifier and location from the elements are: - use value of the element. If not specified, use attribute title. If no title specified, use attribute href. - Attribute href may contain a simple string or path, for instance: "filevel" or "WP-6827-01899-1" or "http://www.bom.gov.au/std/water/xml/wi0.2/property/observedProperty_bom/StorageLevel_m" If a path is specified, only the last component (i.e. StorageLevel_m in the example) will be used.	<pre><importRun xmlns="http://www.wideft.nl/FEWS" xmlns:xsi="http://www.wideft.nl/FEWS" xsi:schemaLocation="http://www.wideft.nl/FEWS http://www.wideft.nl/schemas/importRun.xsd"> <import> <folder>./import</folder> <idMap>idMap</idMap> </import> </importRun></pre>	

* HBA							
Component/s	Issue Type	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
System	Improvement	FEWS-856	Put FEWS Version and Build Number in the Title Bar.		Added build and patch number to main fews window title. Option to hide this in global.properties	in global.properties: HIDE_VERSIONINFORMATION=true	
System	Improvement	FEWS-849	Detecting config file changes on file system is very slow when having many config files				
System	Improvement	FEWS-849	Upgrade to Java 7				
System	Improvement	FEWS-790	Coordinate systems for Vietnam				
System - PI Service	New Feature	FEWS-820	Add option to FewsPIService to retrieve timeseries using DisplayGroupId				
System - UM Aquo Service	New Feature	FEWS-919	Add possibility to skip lines in Import Umaquo CSV	Add option to skip reading first lines	In some cases it is required that the first (header line) should be skipped. Define the property FIRST_LINE. This defines the line (zero based) from which the Umaquo parser must start reading data.	<pre> <properties> <!-- Optional: comment line prefix character. Default = # --> <string key="COMMENT_PREFIX" value="#"/> <!-- Optional: column separator character. Default = ; --> <string key="COLUMN_SEPARATOR" value=";"/> <!-- Optional: decimal character. Default = . --> <string key="DECIMAL_SEPARATOR" value="."/> <!-- Optional: Regular expression for date value. Default = yyyy-MM-dd --> <string key="CSV_DATEPATTERN" value=""/> <!-- Optional: Regular expression for time value. Default = HH:mm:ss --> <string key="CSV_TIMEPATTERN" value="HH:mm:ss"/> <!-- Optional: select Umaquo schema version 2009 or 2011. Default = 2009 --> <int key="SCHEMA_VERSION" value="2009"/> <!-- Optional: allow lenient validation. Default = false --> <bool key="LENIENT" value="true"/> <!-- Optional: allow import to skip the first number of lines --> <int key="FIRST_LINE" value="1"/> </properties> </pre>	
System - UM Aquo Service	Improvement	FEWS-776	Umaquo service allow multiple filter selection and allow timestamp selection.				