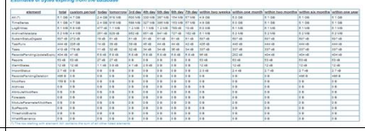
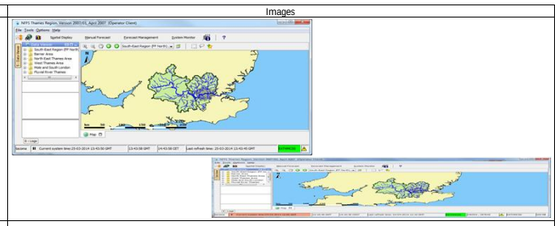
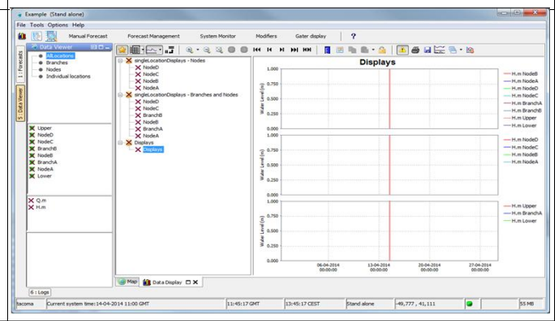
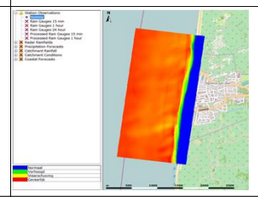
Delft-FEWS Release Notes 2014.01

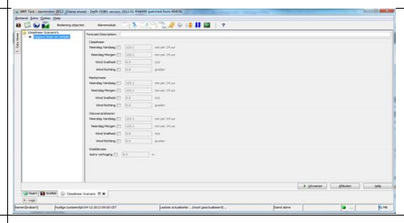
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Admin Web User Interface	FEWS-9361	FEWS-4830 Display Last MetricTime (LiveSystemMetrics) by MCSystemMonitor	The admin interface system status page now includes the timestamp when the status page information was made.	The admin interface system status page now includes the timestamp when the status page information was made. Through refreshing the system status page it can be found out whether the system monitor is slower than expected or even stuck. It is also useful for FEWS-support when screenshots of the admin interface are sent to them.	No additional configuration required.	
App - Admin Web User Interface	FEWS-10562	SQL scripts for monitoring	Two views have been added to the master-controller database. These views contain the same information that is also available via the system status page in the admin interface.	Two views have been added to the master-controller database. These views contain the same information that is also available via the system status page in the admin interface (except that these statistics use the database GMT time instead of the JVM time of the SystemMonitor). McStatusView |mcId|schemaVersionId|schemaDate|versionId| |COREMC01 |v2014.01_20140512_0 |2014-05-14 12:09:15 |MasterController:development_2014.01 (46516) | ... |systemMonitorStartTime|lastStatusCheckTime|lastStatusCheckAgeSeconds| |2014-05-14 12:13:28|2014-05-15 13:15:13|4| ... |liveComponentCount|failedOver|remoteMCs|taskQueueLength|numActiveTasks| |16|0|0|0|0| ... |numOCSessions |logTableSize |OCLListener |FSLListener |SynchListener |SynchRunner| |0|8355|1|1|1|1| ... |SynchTaskListener |TMLauncher |TMChaser |TMLogProcessor |SysMonListener | |1|1|1|1|1| ... |SysMonMonitor |SysMonHeartbeat | |1|1| FssStatusView |fssId |queueLength|down| |fss00 |0|0|	No additional configuration required.	
App - Admin Web User Interface	FEWS-10217	Add RecordCount information to Admin Interface (Database Analysis menu)	The admin interface has a new database trend analysis page to view the trends in record count and bytes available based on the current contents of the database.		No additional configuration required.	
App - Admin Web User Interface, Database	FEWS-10857	FEWS-9814 Use user display name instead of user id	Use of User displayed name instead of user id	Some IT systems use a very cryptic number or string as user ID. Those IDs are hard to understand in the logging etc. Therefore FEWS uses from now the user name instead of the id.	No additional configuration required.	
App - Archive	FEWS-10485	FEWS-8462 turn eventsServer in proper webservice	The events in the new archive are exposed by using a webservice	details are available at https://publicwiki.deltares.nl/display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
App - Archive	FEWS-10483	FEWS-8462 archive folder structure: reorganize from yyyy/area/mm/dd to yyyy/mm/area/dd			No additional configuration required.	
App - Archive	FEWS-10415	FEWS-8462 add defaultAreaId to ForecasterNotesDisplay to accommodate archiving without topology	Default area Id for archiving forecaster notes	Forecaster notes are always archived by area. To ensure that every forecaster note will get an areaId, configure default areaId in ForecasterNotesDisplay.xml with element <defaultAreaId> This defaultAreaId will be used if the selected topology node has no area, or if there is no topology node selected and also no default topology node configured. Note that defaultAreaId can be any non empty string, although a string without spaces is recommende as it will be used in a directory path. There is no check if the areaId really exists. In this way one can assign de notes to the imaginary area, if necessary for some reason.	No additional configuration required.	
App - Archive	FEWS-10231	FEWS-8462 archive: create ArchiveToFSS process	The new archive is capable of sending all historical events to the FSS	Details can be found at https://publicwiki.deltares.nl/display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
App - Archive	FEWS-10230	FEWS-8462 archive: create ArchiveFileSweeper			No additional configuration required.	
App - Archive	FEWS-10124	FEWS-8462 archive server: Deletion and update of events			No additional configuration required.	
App - Archive, Plugin - Gui - Archive Display	FEWS-10121	FEWS-8462 archive: enable file attachement to event	The new archive allows the user to attach files to events.	Details are available at ttps://publicwiki.deltares.nl/display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
App - Configuration Manager Gui	FEWS-10727	FEWS-9814 Add color scheme xml's to config manager	The ConfigManager has been adapted so that color schemes can be uploaded in the system confin.	The ConfigManager has been adapted so that color schemes can be uploaded in the system config. The config files ColorSchemes.xml and CustomColors.xml are to be placed under SystemConfigFiles.	No additional configuration required.	
App - Configuration Manager Gui	FEWS-10062	FEWS-9814 Extend Config Manager diff with diff on CSV, PRJ, ASC files	Root config files with the extension properties, txt, csv, asc, prj, svg, css, js, kml can be diffed in ConfigManager.	The Config Manager has been extended to make a file diff on CSV files and other ASCII (rootconfig) files.	No additional configuration required.	
App - Data Import Module (DIM)	FEWS-9901	Import USGS TWIS data		Import type "UsgsTwis"	No additional configuration required.	
App - Data Import Module (DIM), System - PI Service	FEWS-10013	FEWS-9814 Functionality to have in an external forecast a forecast ID that is supplied by the import (e.g. PI import) or PI webservice		Functionality to have in an external forecast a forecast ID that is supplied by the import (e.g. PI import) or PI webservice	No additional configuration required.	
App - Delft-FEWS	FEWS-11330	Incorporate New Icons			No additional configuration required.	
App - Delft-FEWS	FEWS-10621	Converting ASCII to .cta should use prj file			No additional configuration required.	
App - Forecasting Shell Server	FEWS-10291	Automatically compact cache files on FSS			No additional configuration required.	
App - Forecasting Shell Server, App - Master Controller Server, Plugin - Module - General Adapter	FEWS-10061	FEWS-9814 Possibility to have a general adapter run that starts in the future (after T0)		Existing functionality	No additional configuration required.	
App - Master Controller Server	FEWS-10018	FEWS-9814 Send email in case MC restarts from unexpected error + event log		Functionality to have the option to send email in case MC restarts from unexpected error	No additional configuration required.	
App - Master Controller Server, App - Operator Client Gui, Database	FEWS-9257	Add OC version information to 'FewsSessions' table in FEWS database	The contents of the about box are now stored with each logon of the Operator Client.	The contents of the about box are now stored in the central database with each logon of the Operator Client. This includes the Fews build number and patch number, several database and memory statistics. For active users, this information can be viewed from the admin interface in the Active Users overview.	No additional configuration required.	
App - Master Controller Server, System	FEWS-10022	FEWS-9814 Functionality to have a complete live system running with xx days delay.		Functionality to have a complete live system for testing purpose running with xx days delay.	No additional configuration required.	
App - Operator Client Gui	FEWS-8502	Remove non docking mode: Change Default Setting to docking in 2014.01	FEWS now by default starts with docking mode enabled		No additional configuration required.	
App - Operator Client Gui	FEWS-10756	FEWS-9814 Use windows active directory through kerberos on SQL Server			No additional configuration required.	
App - Operator Client Gui	FEWS-10669	FEWS-9814 Usage of HE24 at DST change: two times 2HE and no 3HE, instead two 1HE and no 2HE		Very special option in case you have a timezone with Daylight Saving and use your hourly timestep as hour-ending time stamp reference, you want those time stamps at the time change to reflect the hourly periods and not the stamps.	<dateTime> <dateTimeFormat>MM-dd-yyyy kk:mm:ss</dateTimeFormat>	
App - Operator Client Gui	FEWS-10599	FEWS-9814 Update message_acknowledged.gif with correct transparency		Icon has been improved	No additional configuration required.	
App - Operator Client Gui	FEWS-10196	Give msgbox with warning on the OC in case the number of rows in the timeseries table becomes too large (default 1 million).	Show popup warning if more time series blobs are in database than configured (default 1 million)		<explorer> <numberOfTimeSeriesBlobsForWarning>5</numberOfTimeSeriesBlobsForWarning> </explorer>	
App - Operator Client Gui	FEWS-10076	FEWS-9814 F12 option to create snapshot to ldb of central database for SA and testing usage		The F12-menu now contains an option to save a replica.fdb in the form of a firebird local datastore. In case of direct database access, this would be a copy of the master-controller database, otherwise this is a replica of the local datastore. This replica.fdb can be copied to a standalone or for example be shared with Delft-FEWS support for investigations.	No additional configuration required.	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
App - Operator Client Gui	FEWS-10074	FEWS-9814 Option in OC to lock T0 instead of going foreward.	Explorer StatusBar element "systemTimePauseButton"	With systemTimePauseButton we can pause (and start again) the automatic adjusting of the system time. If this option is configured, a pause c.q. start icon appears to the left of system time in the Explorer status bar. By clicking on this icon we can pause c.q. start automatic adjusting. Use <systemTimePauseButton visible="true" paused="true"/> if the automatic adjusting should be paused immediately after starting Fews, otherwise use <systemTimePauseButton visible="true"/> Note that the option "systemTimePauseButton " is applicable only in OperatorClient or if the Explorer option "adjustSystemTimeAutomatically" is true.	<statusBarConfig> <dateTimeFormat>HH:mm:ss</dateTimeFormat> <timeGMT>true</timeGMT> <timeCurrent>true</timeCurrent> <timeLastRefresh>true</timeLastRefresh> <statusOfSystem>true</statusOfSystem> <mouseCoordinates>true</mouseCoordinates> <userName>true</userName> <systemTimePauseButton visible="true" paused="true"/> </statusBarConfig>	
App - Operator Client Gui	FEWS-10025	FEWS-9814 Functionality to define visibility of connected TSD table or graph through the IFD node selection.		Functionality to define visibility of connected TSD table or graph through the IFD node selection.	No additional configuration required.	
App - Operator Client Gui, Plugin - Gui - Time Series	FEWS-10654	FEWS-9814 Sort locations using location attributes	Sorting locations by location attributes	The required location sorting can be configured per location set. We can choose between sorting by name or sorting by locationAttribute. All location sets can have the same sorting attribute, or each location set can have its own sorting attribute. Each attribute type (value , text, boolean) can be used for sorting If there are two or more locations in a set with the same attribute value, then these locations are ordnered alphabetically. All location in a set should have the sorting attribute. The locations without the sorting attribute are ordered alphabetically. An Example (pictures and explanation) : Picture FiltersAndTSD_defaultSorting.png shows the default sorting, when no sorting options are configiured in LocationSets.xml. By default, the locations in filters, modifiers and display groups are sorted by name, but not the timeseries in TSD legend. To sort the timeseries in TSD legend by name, we should configure the option 'sortByName' in LocationSets.xml Pictures FiltersAndTSD_sortingByAttributes.png and AttrMods_sortingByAttributes.png shows the sorting if we use the location attributes: Timeseries in TSD legend are listed according to the sorting of the relevant LocationSet:	Example from LocationSets.xml <locationSet id="Nodes"> <sortingLocationAttributeId>NODE_SEQUENCE</sortingLocationAttributeId> <locationId>NodeB</locationId> <locationId>NodeA</locationId> <locationId>NodeD</locationId> <locationId>NodeC</locationId> </locationSet> <locationSet id="Branches"> <sortingLocationAttributeId>BRANCH_SEQUENCE</sortingLocationAttributeId> <locationId>BranchA</locationId> <locationId>BranchB</locationId> </locationSet>	
Configuration	FEWS-10162	Add moduleDataSet configuration option to binDir	Update Module binDir's with content from moduleDataSet	Update a modules external binDir using the content from a module dataset configuration file. Only updates if moduleDataset has been changed.	Add element <moduleDataSetName>ModuleDataSetName</moduleDataSetName> to the module configuration file. **ImportCustomFormatTimeSeriesActivity** <importCustomFormatTimeSeriesActivity> <importFile>ModuleDataSet.txt</importFile> <parserClassName>artis.TestUpdateModuleDataSet</parserClassName> <binDir>$REGION_HOME$/Modules/moduledataset-bin</binDir> <moduleDataSetName>ModuleDataSet</moduleDataSetName> <timeSeriesSets> <timeSeriesSet> <moduleInstanceId>ImportPi</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.obs</parameterId> <locationSetId>ImportPi</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="minute" multiplier="5"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </timeSeriesSets> </importCustomFormatTimeSeriesActivity> **ExportCustomFormatTimeSeriesActivity** <exportCustomFormatTimeSeriesActivity> <exportFile>ModuleDataSet.txt</exportFile> <serializerClassName>artis.TestUpdateModuleDataSet</serializerClassName> <binDir>$REGION_HOME$/Modules/moduledataset-bin</binDir> <moduleDataSetName>ModuleDataSet</moduleDataSetName> <timeSeriesSets> <timeSeriesSet> <moduleInstanceId>ImportPi</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.obs</parameterId> <locationSetId>ImportPi</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="minute" multiplier="5"/> <relativeViewPeriod unit="hour" start="-3" end="-2" startOverrulable="false" endOverrulable="false"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </timeSeriesSets> </exportCustomFormatTimeSeriesActivity>	
Data Access Component	FEWS-10639	Add scheduling of tasks to Tomcat FewsPiService	Added methods to the FewsPiService interface that allow user to run tasks and check status		No additional configuration required.	
Database	FEWS-9922	Attributefile available in (external) database table			<locationSet id="Database"> <table> <databaseFile>$TEST$</databaseFile> <name>Locations</name> <geoDatum>WGS 1984</geoDatum> <id>%ID%</id> <name>%ID%</name> <x>%X%</x> <y>%Y%</y> <z>0</z> <attribute id="region"> <description>Catchment</description> <text>%REGION%</text> </attribute> <attributesTable> <name>Attributes</name> <id>%ID%</id> <startDateTime>%START_DATE%</startDateTime> <endDateTime>%END_DATE%</endDateTime> <attribute id="A"> <number>%A%</number> </attribute> <attribute id="B"> <number>%B%</number> </attribute> </attributesTable> </table> </locationSet>	
Database	FEWS-9391	Export of Database Snapshot	New F12 function that exports a database snapshot.	Duplicate issue (same as FEWS-10076)The F12-menu now contains an option to save a replica.fdb in the form of a firebird local datastore. In case of direct database access, this would be a copy of the master-controller database, otherwise this is a replica of the local datastore. This replica.fdb can be copied to a standalone or for example be shared with Delft-FEWS support for investigations.	No additional configuration required.	
Database	FEWS-7690	Improve SQL Server drivers for FEWS	Delft-FEWS now uses JTDS 1.3.0. driver	Delft-FEWS now uses JTDS 1.3.0. driver	No additional configuration required.	
Database	FEWS-11138	Improvements to Cachefiles			No additional configuration required.	
Database	FEWS-10806	snapshot replica should contain versionmanagement table	The localDataStore contains now also a versionmanagement table so that it will be available in a database replica (F12 option).	An F12-replica now also contains a copy of the master-controller database versionmanagement table (the scriptversion and updatedates). {code} ENTRYID COMPONENTID VERSIONID ENTRYDATE 2 CURRENT_SCHEMA v2013.02_20140106_0 2014-04-08 06:50:36 1 DATABASE_SCHEMA v2013.02_20140106_0 2014-04-08 06:50:36 {code}	No additional configuration required.	
Database	FEWS-10683	FEWS-9814 Weekday as user defined timestep		It is possible to have now a weekly repeated time step, like weekend versus week days or working hours versus night / rest hours.	<weeklyTimeStep id="workhours"> <timeZone>CET</timeZone> <monday times="07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00"/> <tuesday times="07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00"/> <wednesday times="07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00"/> <thursday times="07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00"/> <friday times="07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00"/> </weeklyTimeStep>	
Documentation	FEWS-10408	FEWS-10384 Required: Document the new model adapter setup on the wiki	Documentation about NetCDF compliant adapter	https://publicwiki.deltares.nl/display/FEWSDOC/Developing+a+FEWS+Model+Adapter+%28NetCDF-CF%29+%28Since+FEWS+2014.01%29	No additional configuration required.	
MCRecoveryTool	FEWS-10275	Add delete actions to MCRecoveryTool for deleting warmstates and timeseries older than x days.			No additional configuration required.	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Module Adapter - All	FEWS-9703	FEWS-9698 Model Adapter: SWAN (netcdf)	Created new SWAN model adapter	Created new SWAN model adapter for running the SWAN model from FEWS. This model adapter uses the new run info file in NetCDF format. See documentation on wiki page https://publicwiki.deltares.nl/display/FEWSDOC/SWAN+model+adapter	No additional configuration required.	
Module Adapter - All	FEWS-9699	FEWS-9698 Model Adapter: XBeach	Model adapter for XBeach	https://publicwiki.deltares.nl/display/FEWSDOC/XBeach+Adapter	No additional configuration required.	
Module Adapter - All	FEWS-10885	FEWS-9916 Improve SWIFT adapter			No additional configuration required.	
Module Adapter - All	FEWS-10308	FEWS-9698 Memo with requirements and wiki with material for model adapter training			No additional configuration required.	
Module Adapter - Delft3D	FEWS-10364	Adjust Delft3D-WAQ adapter to handle new conventions regarding initial conditions			No additional configuration required.	
Plugin - Gui - Archive Display	FEWS-9761	GUI Development for new Archive	GUI developments for the archive	details can be found at https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Gui - Archive Display	FEWS-10125	FEWS-8462 archive: event creation/update should detect and warn for potential duplications	overlapping events are detected prior to be being created in the new archive	details are available at https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Gui - Archive Display	FEWS-10122	FEWS-8462 archive: caching a portion of catalogue on client side	Performance improvement for the new archive	Details can be found at https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Gui - Grid Display	FEWS-6969	FEWS-3646 Add tooltips to animate buttons in spatial display	Buttons for the TimeSlider in the Spatial display now have tooltips		No additional configuration required.	

Plugin - Gui - Grid Display	FEWS-10132	Colour smoothing interpolation between classbreak colours must be configured explicitly	Configuration has been added to control the smoothing between classbreaks.	Smoothing of colours for classbreaks is done automatically except when there are labels defined. Configuration has been added to control the smoothing between classbreaks. Set the class break attribute colorSmoothing="true" for enabling smoothing of colours when using labels.	`<break color="00FF00" lowerValue="0.3" colorSmoothingEnabled="true" label="green"/>`
					`<break color="FFFF00" lowerValue="0.6" colorSmoothingEnabled="true" label="yellow"/>`
					`<break color="FF0000" lowerValue="0.9" colorSmoothingEnabled="true" label="red"/>`
						

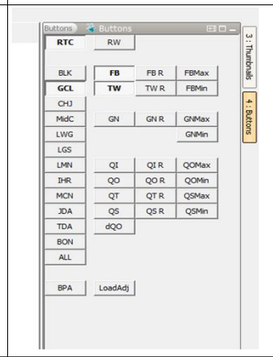
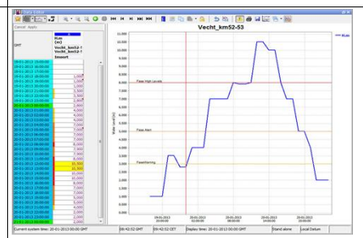
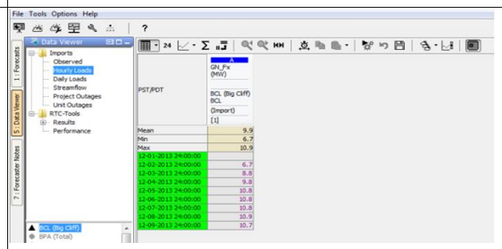
Plugin - Gui - Grid Display, Plugin - Module - Reports	FEWS-9434	New option to export .pngw file for a .png file exported in the reportsModule			No additional configuration required.	
Plugin - GUI - IFD - Forecaster Help	FEWS-10056	FEWS-9814 Possibility to mix nodes and node elements in the topology	Added the possibility to mix folders and nodes als childs for a folder		No additional configuration required.	
Plugin - GUI - IFD - Forecasts	FEWS-10797	FEWS-9814 Possibility to see/edit modifiers at nodes level in IFD instead of node level	Added the possibility to see/edit mods at a folder in the topology	Added the possibility to see/edit mods at a folder in the topology. Previously the modifers were not shown at a group node. When the group node is connected to the server you can only view the modifiers. In the group node is connected to a local run you can also edit and/or create modifiers.	No additional configuration required.	
Plugin - GUI - IFD - Forecasts	FEWS-10712	FEWS-9814 Option to customize toolbar buttons in the IFD	Forecast Tree - new toolbar layout	Versions 2014.01 and higher have got a new layout of the toolbar in the ForecastTree window. The toolbar has two buttons: 1. Run segment or forecast group locally, and 2. Run segment or forecast group at server Button 'Run locally' starts the workflow of the selected segment and also all workflows of the child segments in the forecast tree (i.e. all workflows in the subfolders) Button 'Run at server' works in a similar way, and starts the workflows with localRun=false at server. The workflows with localRun=true will be still started locally. The previous(original) toolbar is still available, with its orignal functionality. To use the original toolbar, configure <enableOriginalButtons>true</enableOriginalButtons> in Topology.xml	No additional configuration required.	
Plugin - Gui - Map	FEWS-10730	New Zealand Transverse Mercator 2000			No additional configuration required.	

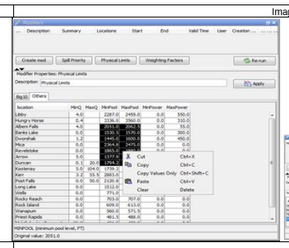
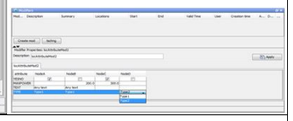
Plugin - Gui - Schematic Status Display	FEWS-9587	FEWS-9559 Add TaskRunDialog (with what-if options) to left-click action of SSD	Mouse clicks can now activate the TaskRunDialog from within the Schematic Status Display.	The Schematic Status Display has a new configuration option that enables the user to activate the TaskRunDialog by clicking on an element.	`<leftSingleClickAction>`
					`<openDisplay>`
					`<taskRunDialog>`
					`<title>IJsselmeerscenario</title>`
					`<taskRunDialogFile>ScenarioIJsselmeer</taskRunDialogFile>`
					`</taskRunDialog>`
					`</openDisplay>`
					`</leftSingleClickAction>`
						

Plugin - Gui - Schematic Status Display	FEWS-9548	FEWS-9559 Add user permissions to SSD panels	The panels in a Schematic Status Display can now be hidden for unauthorized users by adding a permission (SystemConfigFiles/Permissions.xml).	The panels in a Schematic Status Display can now be hidden for unauthorized users by adding a permission (SystemConfigFiles/Permissions.xml).	`<scadaPanel id="Lake_IJssel" name="Lake IJssel">`
					`<svgFile>LakeIJssel.svg</svgFile>`
					`<permission>Managergroup</permission>`
					`</scadaPanel>`	

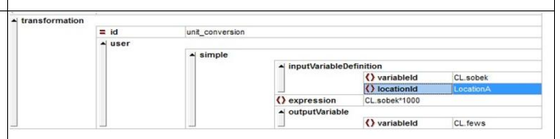
Plugin - Gui - Schematic Status Display	FEWS-9490	FEWS-9559 Add context menu in SSD: copy to clipboard (and more?)	A new context popup menu has been made available in the Schematic Status Display for copying to clipboard, for exporting to png, svg, pdf and for printing.	A new context popup menu has been made available in the Schematic Status Display for copying to clipboard, for exporting to png, svg, pdf and for printing. This popupmenu can be activated by a single right mouse click.	No additional configuration required.	
Plugin - Gui - System Monitor	FEWS-10330	FEWS-9916 Refactoring Manual logEntries (alias ForecasterNotes) text storage in the database field logMessage	Manual message (alias ForecasterNote) is stored as LogMessage.xml in the database field logMessage	Manual messages are (mostly) created manually by the user in the GUI plugins, i.e. in messages makers/viewers. The plugin ForecasterNotesDisplay stores the entered message in een xml file according to the schema LogMessage.xsd Schema LogMessage.xsd has one obligatory field "message" to store any text, and several optional attributes to store message properties. Presently we can use these attributes: userId, topologyNodeId, areaId, templateId, eventDate and eventTime. The components, that read the manual message from the database and are also interested in the field logMessage, should 'unwrap' the content of logMessage using the method LogMessage.createFromXmlText(xmlText), where xmlText is the content of database field logMessage LogEntriesTable: The methods of Fews class LogEntriesTable 'unwrap' the text from the field logMessage, so this class should be used to read the manual messages from the database. In other cases one can use LogMessage.isValidXmlText(text) to see whether the database field contains the xml text, and then 'unwrap' the text usign LogMessage.createFromXmlText(xmlText). Archiving LogEntries: This module already uses the LogEntriesTable to read/write the log entries from/in the database Creating new message makers/viewers The users are free to create their own message makers/viewers	No additional configuration required.	
Plugin - Gui - System Monitor, Third Party	FEWS-9968	FEWS-7492 Open issues JBOSS7: HTTPS/Client Keystore	We will no longer be persuing JBOSS/HornetQ, instead we have moved to ActiveMQ		No additional configuration required.	
Plugin - Gui - Time Series	FEWS-9873	FEWS-9861 NWS: FogBugz 553. Flow and Stage Tresholds in one graph			No additional configuration required.	

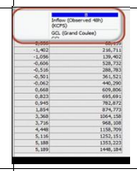
Plugin - Gui - Time Series	FEWS-8954	FEWS-9205 Waternet: construct Legend texts/indicators and plot titles from DBF/CSV (LocationAttributes)	In displayGroups added functionality to use locationAttributes in subPlot element "label" (custom legend label) for line and area graphs.	In displayGroups config file it is now possible to use locationAttributes in subPlot element "label" (custom legend label) for line and area graphs. The label element is new for area graphs. If a @ sign is needed in a label element (other than for specifying a locationAttribute), then need to put an extra @ sign in front of it as an escape character, e.g. "@@" will be replaced with "@".	`<subplot>`
					`<line>`
					`<label>Legend label for @BASIN@</label>`
					`...`
					`</line>`
					`</subplot>`
					`<subplot>`
					`<area>`
					`<label>Legend label for @BASIN@</label>`
					`...`
					`</area>`
					`</subplot>`	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Time Series	FEWS-10963	FEWS-9916 Vertical line in time series display showing Cold State Start	Added option forecastStartTime in timeSeriesDisplay config to show vertical lines for start times of forecast time series in charts.	Added option forecastStartTime in timeSeriesDisplay config. This will show vertical lines in charts for the start times of forecast time series, i.e. time series of type external forecasting or simulated forecasting.	<timeMarkerDisplayOptions marker="forecastStartTime"> <color>purple</color> <lineStyle>dashdot</lineStyle> </timeMarkerDisplayOptions>	
Plugin - Gui - Time Series	FEWS-10961	FEWS-9916 Configure threshold label alignment in Time Series Display	Threshold label alignment can be set using the thresholdDisplayOptions in the timeSeriesDisplayOptions		<timeSeriesDisplay xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesDisplay.xsd" version="1.0"> <defaultViewPeriod unit="day" end="1" start="-4"/> <thresholdDisplayConfig> <thresholdDisplayOptions id="Moderate Flooding"> <color>blue</color> <labelAlignment>right</labelAlignment> </thresholdDisplayOptions> <thresholdDisplayOptions id="Minor Flooding"> <color>green</color> </thresholdDisplayOptions> <thresholdDisplayOptions id="Major Flooding"> </thresholdDisplayOptions> </thresholdDisplayConfig> .... </timeSeriesDisplay>	
Plugin - Gui - Time Series	FEWS-10755	FEWS-9814 Functionality to specify TSD relativeviewperiod in user settings			No additional configuration required.	
Plugin - Gui - Time Series	FEWS-10656	Add same color indicator as corresponding TimeSeries to Comment, Validation and User columns			No additional configuration required.	
Plugin - Gui - Time Series	FEWS-10653	FEWS-9814 Feature to create subplots per location in TSD			No additional configuration required.	
Plugin - Gui - Time Series	FEWS-10637	FEWS-9814 Time series buttons panels		With the TimeSeriesButtonsPanels you can make a different selection panel for selecting time series through buttons. This panel can be used as alternative for the DisplayGroup Thumbnails, which are always a thumbnail of the graph only. For users who do not use a graph, the button panel is much more useful. Button panels have a strong relation to the topology (and subsequent displaygroups) and can not be used without those. In general the button panel filters or selects one or more time series that are defined in the displaygroup.	<?xml version="1.0" encoding="UTF-8"?> <timeSeriesButtonsPanels xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesButtonsPanels.xsd"> <panel id="RT_Constraints_Project"> <resolveInWorkflow>false</resolveInWorkflow> <resolveInPlots>true</resolveInPlots> <button groupId="location" name="GCL" row="1" column="1"> <toolTip>GCL</toolTip> <locationId>GCL</locationId> </button> .... <button groupId="location" name="BON" row="10" column="1"> <toolTip>BON</toolTip> <locationId>BON</locationId> </button> <button groupId="parameter" name="UO" row="1" column="2"> <toolTip>UO</toolTip> <parameterId>OutageFactor</parameterId> </button> ... <button groupId="parameter" name="GNO" row="10" column="2"> <toolTip>GN_Obs</toolTip> <parameterId>GN_Obs</parameterId> </button> </timeSeriesButtonsPanels>	
Plugin - Gui - Time Series	FEWS-10052	FEWS-9814 Enable configurable threshold colors in table, independant of theme	Display threshold crossings in TimeSeriesDisplay table	The threshold crossing is visible as a thin bar in the table cell. The bar colors correspond with the colors of the threshold lines in the chart. The threshold colors can be configured with <thresholdDisplayConfig> in TimeSeriesDisplay.xml Displaying of the threshold crossings in TimeSeriesDisplay table can be switched on/off with table dropdown menu, item "Threshold crossings"	Configure threshold colors in TimeSeriesDisplay.xml : ..... <thresholdDisplayConfig> <thresholdDisplayOptions id = "FaseWarning"> <color>gold1</color> <lineStyle>solid</lineStyle> </thresholdDisplayOptions> <thresholdDisplayOptions id = "FaseAlert"> <color>orange</color> <lineStyle>solid</lineStyle> </thresholdDisplayOptions> <thresholdDisplayOptions id = "FaseHighLevels"> <color>red</color> <lineStyle>solid</lineStyle> </thresholdDisplayOptions> </thresholdDisplayConfig>	
Plugin - Gui - Time Series	FEWS-10027	FEWS-9814 Functionality in TSD to show statistic functions without showing original data + shortcut toolbarbutton for directly access of this function	Quick view statistic function for directly access of chosen (configured) statistical function	Beside the common statisticalFunctions we can also configure any statistical function as so called 'quick view' function. For this purpose the element <quickViewStatisticalFunction> should be used. One or more quick view functions can be configured next to the common functions (see quickViewFunctionAndOtherStatFunctions.png), or we can configure only the quick view functions (see quickViewFunctionsOnly.png) With quick view function we have directly access to the chosen statistics through the toolbar button. Optionally we can configure button icon, label, tooltip and skortcut key combination. The label will be also visible in the caption of the statistical timeseries.	Example shown with quickViewFunctionsOnly.png has been created with this configuration (a part of TimeSeriesDisplay.xml) : <quickViewStatisticalFunction function="accumulationAggregation"> <movingAccumulationTimeSpan unit="hour" multiplier="6"/> <label>AAGR 6h</label> <toolTip>AccumulationAggregation 6 hours</toolTip> <accelerator>ctrl A</accelerator> </quickViewStatisticalFunction> <quickViewStatisticalFunction function="accumulationAggregation"> <movingAccumulationTimeSpan unit="hour" multiplier="12"/> <label>AAGR 12h</label> <toolTip>AccumulationAggregation 12 hours</toolTip> <accelerator>ctrl B</accelerator> </quickViewStatisticalFunction> <quickViewStatisticalFunction function="durationExceedence"> <iconName>statisticsChart.png</iconName> <label>DC</label> <accelerator>ctrl C</accelerator> </quickViewStatisticalFunction>	
Plugin - Gui - Time Series	FEWS-10021	FEWS-9814 Functionality to have CTRL+ArrowUp/ArrowDown key combination in TSD to jump to previous/next day.	TimeSeriesDisplay - CTRL+ArrowUp and CTRL+ArrowDown key combinations to jump to next or previous higher time step	To use this functionality, select first timeseries and certain time in the table. Then use CTRL+ArrowDown or CTRL+ArrowUp key combinations to jump to next or previous higher time step in the table For timesteps smaller than 1 hour the cursor moves to the next hour, for timesteps smaller than 1 day the cursor moves to the next day, for timesteps smaller than 1 week the cursor moves to the next week, for timesteps smaller than 1 month the cursor moves to the next month, for timesteps smaller than 1 year the cursor moves to the next year. An example: the timestep is 3 hours and the selected time is 25-01-2014 09:00:00. With CTRL+ArrowDown we move the cursor to 26-01-2014 09:00:00.	No additional configuration required.	
Plugin - Gui - Time Series	FEWS-10020	FEWS-9814 Functionality to have visibility of toolbar buttons in TSD configurable	Visibility of 24N and TimeSeriesEditable buttons can now be configured.	Visibility of 24N and TimeSeriesEditable buttons in the timeseries dialog can now be configured in the timeSeriesDisplayOptions xml.	No additional configuration required.	
Plugin - Gui - Time Series	FEWS-10019	FEWS-9814 24-N display for one timeseries with all values per day in one column	Timeseries Dialog options added for viewing timeseries table in daily, weekly or monthly mode	The Timeseriesdialog (TSD) now contains options to switch the graph from 'normal' to 'daily', 'weekly' or 'monthly' mode (day/week/month per column) which enables quick comparisons. Above that, another option has been added to switch on the (on-the-fly) column statistics for minimum, maximum and mean value. The view always relates to the Relative View Period of the selected timeseries. Multiple timeseries can be inspected in this view. It is also possible to use shading in Low Light Hours (configurable) and so-called thumbnail buttons (for opening graphs) can be configured in columns.	No additional configuration required.	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Gui - Time Series Modifier	FEWS-10686	FEWS-9814 Some lay-out changes to locationAttributeModifiers and context menu	locationAttributeModifier context menu	Context menu has the following items: Cut, Copy, Paste and Clear "Copy" copies the table values. Headers are not copied. The values are separated by tabs.	No additional configuration required.	 
Plugin - Gui - Time Series Modifier	FEWS-10622	FEWS-9814 TimeseriesModifier: Hardlimits in modifiertypes, add ability to fill minimumValue and maximumValue from attributes			No additional configuration required.	
Plugin - Gui - Time Series Modifier, Plugin - Module - Modifiers (ModuleParameters)	FEWS-10023	FEWS-9814 New modifier type that allows to order a list of stations to define their priorities.		New modifier type that allows to order a list of stations to define their priorities.	No additional configuration required.	
Plugin - Module - Archive	FEWS-9909	FEWS-8462 Archive Storage: Configuration			<exportArchiveModule xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/exportArchiveModule.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wldelft.nl/fews"> <exportConfig> <general> <archiveFolder>$ARCHIVE_FOLDER$/national</archiveFolder> </general> <activities> <exportCurrentConfig> <areaId>test</areaId> </exportCurrentConfig> </activities> </exportConfig> </exportArchiveModule>	
Plugin - Module - Archive	FEWS-9904	FEWS-8462 Don't allow import data, mods etc on a OC	Data from the archive should not be importable at an OC	Only Historical Events can be imported at an OC. Other data can only be imported at an SA.	No additional configuration required.	
Plugin - Module - Archive	FEWS-9903	FEWS-8462 Add possibility to delete events, and add permission to delete events	Events can be deleted by selected group of users	Details are available at https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Module - Archive	FEWS-9847	FEWS-8462 improve download facility in archive gui (make suitable for high volume downloads)	Downloading data should be done in a background thread in the new archive	Details are available at https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Module - Archive	FEWS-9846	FEWS-8462 Export forecasts should export each export type to a dedicated directory	The data in the archive is stored in dedicated directories with self-explaining names	https://publicwiki.deltares.nl//display/FEWSDOC/25.+The+Deltares+Open+Archive	No additional configuration required.	
Plugin - Module - Data Export	FEWS-10832	FEWS export grids can not be displayed as WMS in THREDDS	The export of netcdf grids have been modified so that forecast time also has dimension		No additional configuration required.	
Plugin - Module - Data Export	FEWS-10805	FEWS-9814 exportParameterActivities: include locationID when using templateLocationLooping	LocationId is now included in the templateLocation looping	When using the templateLocation looping in the exportParameters facility the locationId was not filled in at the locationId tag in the exported parameter group.	No additional configuration required.	
Plugin - Module - Data Export	FEWS-10578	netCDF/Matroos export improvements			No additional configuration required.	
Plugin - Module - Data Export, Plugin - Module - Data Import	FEWS-10016	FEWS-9814 Functionality to have web service import and export to support backup hosts		Functionality to have web service imports and exports to support backup hosts.	No additional configuration required.	
Plugin - Module - Data Import	FEWS-9720	FEWS-9698 Support for Model Adapter Development			No additional configuration required.	
Plugin - Module - Data Import	FEWS-11222	FEWS-10616 TVA: new import Kentucky-Barkley forecast			No additional configuration required.	
Plugin - Module - Data Import	FEWS-10741	FEWS-9698 Import for Netcdf 1D statistics parameters			No additional configuration required.	
Plugin - Module - Data Import	FEWS-10617	FEWS-10616 TVA: new import format 'SAT_transaction_files'	New ImportTypes "TvaHourlyWaterViewCsv", "TvaDailyWaterViewCsv" and "TvaTransaction"		No additional configuration required.	
Plugin - Module - Data Import	FEWS-10582	Develop variant WDTF import format (GMW)	WdtfTsoXml import type	WdtfTsoXml is a variant of WdtfXml import type. The only difference is the element the location is read from. WdtfTsoXml reads the location from the id attribute of the element 'TimeSeriesObservation', while WdtfXml reads the location from element 'featureOfInterest' For example, the location Id 'tso-T27970' is read from the file sample below : <wdtf:observationMember> <wdtf:TimeSeriesObservation gml:id="tso-T27970"> <gml:description>William Hovell Level</gml:description> .... </wdtf:TimeSeriesObservation> </wdtf:observationMember>	<import> <general> <importType>WdtfTsoXml</importType> <folder>$REGION_HOME$/import</folder>	
Plugin - Module - Data Import	FEWS-10405	Extend Aquarius Import to include rating curves	Implemented a service import for importing ratingcurves from a Aquarius server		<?xml version="1.0" encoding="UTF-8"?> <timeSeriesImportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/timeSeriesImportRun.xsd"> <!-- This is an example import configuration file for importing Observations and Measurements data from a service --> <import> <general> <parserClassName>nl.wldelft.aquarius.ratingcurveparsers.AquariusRatingCurveSoapServerParser</parserClassName> <binDir>%REGION_HOME%/Modules/aquarius</binDir> <serverUrl>http://w2k8-aquarius.adasasistemas.com/AQUARIUS/Publish/AquariusPublishService.svc?wsdl</serverUrl> <user>deltares</user> <password>deltares</password> <relativeViewPeriod unit="day" start="-365" end="0" startOverrulable="true" endOverrulable="true"/> <idMapId>IdImportAquariusRatingCurves</idMapId> <unitConversionsId>UnitConversionsAquarius</unitConversionsId> <flagConversionsId>ImportFlagConversion</flagConversionsId> <importTimeZone> <timeZoneOffset>-10:00</timeZoneOffset> </importTimeZone> <comment> <commentForAllValues>Aquarius data</commentForAllValues> </comment> </general> <locationSetId>Aquarius.Ratings</locationSetId> </import> </timeSeriesImportRun>	<?xml version="1.0" encoding="UTF-8"?> <idMap version="1.1" xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/idMap.xsd"> <!-- IdMapping for the Aquarius import requires that the FEWS parameter is mapped to: externalQualifier = Aquarius ratingcurve input parameter, externalQualifier1 = Aquarius ratingcurve output parameter externalQualifier2 = either StageDischarge or DischargeStage --> <locationIdFunction internalLocationSet="Aquarius.Ratings" externalLocationFunction="@AQUARIUSID@" externalQualifierFunction="HG" externalQualifierFunction1="QR" externalQualifierFunction2="StageDischarge"/> </idMap>
Plugin - Module - Data Import	FEWS-10229	Make matroos_netcdfspectrumseries more flexible (for different Matroos paths)	Added new optional properties "database" and "server_path" for importType "matroos_netcdfspectrumseries".	Added new optional properties "database" and "server_path" for importType "matroos_netcdfspectrumseries". Optional property: database, e.g. "mapsId". Optional property: server_path, e.g. "/direct/get_netcdf.php". If not configured, this is set	<properties> <string key="database" value="mapsId"/> <string key="server_path" value="/direct/get_netcdf.php"/> </properties>	
Plugin - Module - Data Import	FEWS-10173	TimeSeriesServer import from and export to Wabis service	Created service import and export to a Wabis FewsPiService		No additional configuration required.	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - Data Import	FEWS-10171	FEWS-9814 TimeSeriesService import for Hermes webservice	Implemented a service import for importing Hermes services; THOR, LORA, UO and StreamFlow		`<!-- This is an example import configuration file for importing Observations and Measurements data from a service --> <import> <general> <parserClassName>nl.wldelft.hermes.timeseriesparsers.HermesTimeSeriesServerParser</parserClassName> <binDir>%REGION_HOME%/Modules/hermes-bin</binDir> <serverUrl>http://localhost/MyMockService/HermesDataIntegration.asmx?WSDL</serverUrl> <relativeViewPeriod unit="day" start="-30" end="0" startOverrulable="true" endOverrulable="true"/> <idMapId>IdImportHermes</idMapId> <importTimeZone> <timeZoneOffset>+06:00</timeZoneOffset> </importTimeZone> </general> <properties> <string key="RequestType" value="THOR"/> <string key="RequestsOutputDirectory" value="c:/temp/testHermes"/> <bool key="UseRelativeUpdatePeriod" value="true"/> <string key="RelativeUpdatePeriodUnit" value="day"/> <int key="RelativeUpdatePeriodStart" value="-1"/> <int key="RelativeUpdatePeriodEnd" value="0"/> </properties> <timeSeriesSet> <moduleInstanceId>ImportHermes</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Q.obs</parameterId> <locationId>BDY</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="nonequidistant"/> <readWriteMode>add originals</readWriteMode> <synchLevel>1</synchLevel> </timeSeriesSet> </import> </timeSeriesImportRun>`	
Plugin - Module - Data Import	FEWS-10011	FEWS-5586 Extend NetcdfScalarTimeSeriesParser so that it can find station id variables using the cf_role="timeseries_id" attribute instead of the variable name	Extended netcdf scalar time series import/export to recognize the cf_role="timeseries_id" attribute.	Netcdf scalar time series import (importType NETCDF-CF_TIMESERIES) now also recognizes station id variables that do not have "station" in their name but have the cf_role="timeseries_id" attribute instead. Netcdf scalar time series export now also writes the cf_role and featureType attributes, as	No additional configuration needed.	
Plugin - Module - Error Correction	FEWS-9612	Option in ARMA to WARN or INFO in case of missing data. Now it is a WARN only, which creates too many warnings.	In ErrorModel added option to configure the log level for log message when all observed values are missing.	Added option to schema to specify the log level for the log message that is logged when all observed values are missing for a given input time series. Can be error, warn or info. Default is warn.	`<logLevelNoObservedValues>info</logLevelNoObservedValues>`	
Plugin - Module - General Adapter	FEWS-10834	FEWS-9814 GA export parameter loop of multiple locations into a table	Add the possibility to create a table by looping over a locationSet when exporting parameters in the GA.	In the GA it is now possible to create a table by looping over a locationSet. A template for each row should be defined by refering to location attributes.	`<exportActivities> <exportParameterActivity> <fileName>LocationTableLoopTest</fileName> <templateLocationLooping> <locationTableLoop> <locationSetId>gegevensdump_ruw</locationSetId> <parameterId>test</parameterId> </locationTableLoop> </templateLocationLooping> <moduleInstanceId>LocationTableLoop</moduleInstanceId> </exportParameterActivity> </exportActivities>`	
Plugin - Module - General Adapter	FEWS-10773	FEWS-10384 Optional: Add actual log level from FEWS to netcdf run file		Added netcdf character variable with log_level_char_length = 5: char log_level(log_level_char_length); Possible values: "DEBUG", "INFO", "WARN", "ERROR"	No additional configuration required.	
Plugin - Module - General Adapter	FEWS-10771	FEWS-10384 Required: add maximumSnapDistance as an option in importNetcdfActivity	Added option maximumSnapDistance to ImportNetcdfActivity in GeneralAdapter	Added option maximumSnapDistance to ImportNetcdfActivity in GeneralAdapter. When the parser provides location coordinates the location mapping can be done by matching the coordinates. The snap distance is the tolerance used to detect which internal and external coordinates are the same.	`<importNetcdfActivity> <importFile>..\output\SPEC2D_P1.nc</importFile> <timeSeriesSets> ... </timeSeriesSets> <maximumSnapDistance>50</maximumSnapDistance> </importNetcdfActivity>`	
Plugin - Module - General Adapter	FEWS-10667	FEWS-9814 General Adapter should log an INFO message with the exact run period (start and end)			No additional configuration required.	
Plugin - Module - General Adapter	FEWS-10664	Add State time to "Internal GA variables"			No additional configuration required.	
Plugin - Module - General Adapter	FEWS-10644	FEWS-9814 Add eventcode to pi-diagnostics		A PI diagnostics file can contain a eventCode that will be used for logging. This eventcode will be used then instead of the default event code from the General Adapter.	`<line description="rtcToolsRuntime: RTC-Tools, version 1.0.157 (revision date: 2014/05/01 14:37:08 UTC time)" level="3" eventCode="RTCTools.RunInfo"/>`	
Plugin - Module - General Adapter	FEWS-10628	FEWS-10384 Required: Definition of files in importStateActivity relative to new element "stateImportDir" instead of relative to importDir.			No additional configuration required.	
Plugin - Module - General Adapter	FEWS-10518	FEWS-9814 Extension in pi_modelparameters.xsd / pi_sharedtypes.xsd for including meta data in columns of tables	Pi_modelparameters: parameter type <table> extended with unit and metadata	Both units and metadata are show in the default parameter modifier. Units are displayed in the column header. Metadata are shown in the table rows. The first column shows metadata id's. Note that metadata type may be different from the type specified for the column data.	`<parameter id="ExampleTable"> <table> <columnIds A="Col strings" B="Col boolean" C="C double" D="Col int"/> <columnTypes A="string" B="boolean" C="double" D="int"/> <columnUnits A="" B="" C="m" D="%"/> <columnMetaData A="" B="Info col B" C="Info col B" D="Info col D" id="Description"/> <columnMetaData A="" C="15.00" id="Max value" type="double"/> <columnMetaData A="" D="75" id="Recomended" type="int"/> <row A="row 1" B="false" C="1.11" D="55"/> <row A="row 2" B="false" C="1.22" D="55"/> <row A="row 3" B="false" C="1.33" D="60"/> <row A="row 4" B="true" C="1.44" D="30"/> <row A="row 5" B="false" C="1.55" D="80"/> <row A="row 6" B="true" C="1.66" D="80"/> </table> </parameter>`	
Plugin - Module - General Adapter	FEWS-10395	FEWS-10384 Required: Extend executeActivity so that it can retrieve relevant messages in one or more log files that are written by the model and/or OpenDA	Option to extract relevant logging from external files after model/OpenDA run	Specify one or more text files that contain log information from the module that is executed. After the module has executed, the lines from these files that follow the specified line pattern will be imported in FEWS as log messages with the specified log level.	`<executeActivity> <command> <executable>xbeach.exe</executable> </command> <logFile> <file>XBerror.txt</file> <!-- Import every line as a separate FEWS error log message. --> <errorLinePattern>*</errorLinePattern> </logFile> <logFile> <file>XBwarning.txt</file> <!-- Import every line that contains "warning" as a separate FEWS info log message. --> <infoLinePattern>*warning*</infoLinePattern> </logFile> <logFile> <file>XBlog.txt</file> <!-- Import every line that contains "ERROR" as a separate FEWS debug log message. --> <debugLinePattern>*ERROR*</debugLinePattern> </logFile> <timeOut>99999999</timeOut> </executeActivity>`	
Plugin - Module - General Adapter	FEWS-10394	FEWS-10384 Optional: importPiNetcdfActivity in GeneralAdapter should be called importNetcdfActivity			No additional configuration required.	
Plugin - Module - General Adapter	FEWS-10393	FEWS-10384 Required: Extend exportPlaceHolderFile in importPiNetcdfActivity so that it also works for scalar time series			`<importPiNetcdfActivity> <exportPlaceholderFile>true</exportPlaceholderFile> <importFile>grid.nc</importFile> <timeSeriesSets> <timeSeriesSet> <moduleInstanceId>GeneralAdapterRun</moduleInstanceId> <valueType>grid</valueType> <parameterId>P.obs</parameterId> <locationId>SX.A</locationId> <timeSeriesType>external historical</timeSeries Type> <timeStep unit="hour"/> <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </timeSeriesSets> </importPiNetcdfActivity>`	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
Plugin - Module - General Adapter	FEWS-10386	FEWS-10384 Required: Make input/output state description xml files optional in GeneralAdapter	Made state description file optional in export/importStateActivity in GeneralAdapter.	For the exportStateActivity and importStateActivity in the GeneralAdapter it is no longer required to use state description files. Added new config option to specify the import state files directly in the importStateActivity. Can also configure a new relative pathname for these files, so that they are renamed within the state stored in FEWS. The exportStateActivity then just exports the state as-is.	ExportStateActivity: <exportStateActivity> <moduleInstanceId>ExportStateActivity</moduleInstanceId> <stateExportDir>%WORK_DIR%</stateExportDir> <stateSelection> <warmState> <stateSearchPeriod unit="hour" start="-96" end="-6"/> <insertColdState>true</insertColdState> </warmState> </stateSelection> </exportStateActivity> ImportStateActivity: <importStateActivity> <stateFile> <importFile>%WORK_DIR%/state.out</importFile> <relativeExportFile>state.inp</relativeExportFile> </stateFile> <stateFile> <importFile>%WORK_DIR%/state2.out</importFile> <relativeExportFile>state2.inp</relativeExportFile> </stateFile> </importStateActivity>	
Plugin - Module - General Adapter	FEWS-10385	FEWS-10384 Required: Create new "ExportNetcdfRunFileActivity" in GeneralAdapter		New export activity for general adapter. Run file in netcdf format that contains the minimal required info, i.e. start/endTime, input/outputFile paths and configurable properties. An example of an exported netcdf run file can be found on: http://publiciwiki.deltares.nl/display/FEWSDOC/05+General+Adapter+Module#05GeneralAdapterModule-Exampleofanexportednetcdfrunfile%28convertedtotextformat%29%3A	<exportActivities> <exportNetcdfRunFileActivity> <description>This run file is passed as argument to XBeachPreAdapter</description> <exportFile>run.nc</exportFile> <properties> <string key="TIME_UNIT" value="seconds since 2001-01-01"/> </properties> </exportNetcdfRunFileActivity> </exportActivities>	
Plugin - Module - Modifiers (TimeSeries)	FEWS-10958	FEWS-9916 Control the order of the sub-catchments in Modifier display		Getest en het werkt	No additional configuration required.	
Plugin - Module - Reports	FEWS-10953	Removal of TimeStamp in SnapShot plots in Report	Reports & Grid plot snapshots : optional element dateTimeLabelVisible	Use element 'dateTimeLabelVisible' to indicate whether the time, the plot applies to, should be painted in the snapshot. If 'paintTime' is not configured, the time will be painted.	<spatialPlotSnapshots id="RunoffLow3-9"> .... <width>270</width> <height>324</height> <snapshot id="RunoffLow3-9"> <dateTimeLabelVisible>false</dateTimeLabelVisible> <snapshot> </spatialPlotSnapshots>	
Plugin - Module - Reports	FEWS-10067	FEWS-9814 Apply displayunit in reports			No additional configuration required.	
Plugin - Module - Secondary Validation	FEWS-10811	FEWS-9559 new tag in logmessage SecondaryValidationModule	A new tag %VALUE% can be added to log message in secondary validation. This will display the value of the last updated flag.	A new tag %VALUE% can be added to log message in secondary validation. This will display the value of the last updated flag.	%VALUE% can be added to log message in secondary validation. This will display the value of the last updated flag.	
Plugin - Module - Transformation	FEWS-10901	FEWS-9814 merge-relation should have an OPTIONAL comment instead of REQUIRED	Merge Relation Transformation has OPTIONAL comment	Merge Relation Transformation has OPTIONAL comment in stead of REQUIRED. It is named outputComment	No additional configuration required.	
Plugin - Module - Transformation	FEWS-10900	FEWS-9814 Possibility to use string attributes in user expressions IF statements.		You can use now a string attribute in an IF statement. For performance reasons, this string should be referenced in a coefficient. The coefficient is then handled as a boolean (true/false) that is converted to a numerical value (true=1 and false=0).	<expression>IF(myOption ==1, varA, varB)</expression> <coefficientSetFunctions> <coefficient id="myOption" value="@option@=="hard""/> </coefficientSetFunctions> In the above example the attribute "option" is used. This option can be "hard" or "soft". Notice that for XML reason, the double quote is spelled as ". If the attribute "option" is "hard", the coefficient with id "myOption" will become true, so myOption=1. Else, the value will be 0.	
Plugin - Module - Transformation	FEWS-10700	FEWS-10616 TVA: alllow locationAttributeModifier for AdjustQ transformation	Added coefficientSetFunctions for transformations AdjustQUsingObservedInstantaneousDischarge, AdjustQUsingMeanDailyDischarge and AdjustQ	Added option to configure coefficientSetFunctions for transformations AdjustQUsingObservedInstantaneousDischarge, AdjustQUsingMeanDailyDischarge and AdjustQ.	No additional configuration required.	
Plugin - Module - Transformation	FEWS-10668	FEWS-9814 Allow to mix up the variables and transformations for readability in transformationmodule			No additional configuration required.	
Plugin - Module - Transformation	FEWS-10560	FEWS-9559 Extend VariableDefinition of UserSimple Transformation with LocationId element	Define a variable by creating a subset of a global variable	In the user simple function it is now possible to define a variable which is a subset of a global variable. The global variable is defined for a locationSet. The variable used in the transformation is than the global variable filtered for a certain location.	<transformation id="user simple example with location filter"> <user> <simple> <inputVariableDefinition> <variableId>localInput</variableId> <locationId>H-2001</locationId> <templateVariableId>inputTemplate</templateVariableId> </inputVariableDefinition> <expression>localInput*10</expression> <outputVariable> <variableId>output</variableId> <locationId>H-2002</locationId> </outputVariable> </simple> </user> </transformation>	
Plugin - Module - Transformation	FEWS-10379	FEWS-9915 Improve the 3 generation transformation functions with error trapping and additional feature	Improved error logging and added an offset possibility to the 3 generation transformations		No additional configuration required.	
Plugin - Module - Transformation	FEWS-10000	New Transformation: calculate gradient (dy/dt)		Transformation that calculates the gradient of a timeserie: (y1-y0)/(t1-t0). This is the change in the value per time unit (currently seconds)	<variable> <variableId>input</variableId> <timeSeriesSet> <moduleInstanceId>FirstOrderGradientTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>T.historical</parameterId> ... <readWriteMode>add originals</readWriteMode> </timeSeriesSet> </variable> <variable> <variableId>output</variableId> <timeSeriesSet> <moduleInstanceId>FirstOrderGradientTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>T.historical</parameterId> <locationId>H-2011</locationId> ... </timeSeriesSet> </variable> <transformation id="gradient"> <gradient> <firstOrder> <inputVariable> <variableId>input</variableId> </inputVariable> <outputVariable> <variableId>output</variableId> </outputVariable> </firstOrder> </gradient> </transformation>	
System	FEWS-10957	FEWS-9916 HyFS OC must show when MC is down			No additional configuration required.	
System - PI Service	FEWS-10017	FEWS-9814 Extend error logging of PI webservice	Added logging of DAC to the LogEntries table		No additional configuration required.	

Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Images
System - PI Service	FEWS-10015	FEWS-9814 Extend error logging of server components through windows event log		Extend error logging of server components through windows event log https://publicwiki.deltares.nl/display/FEWSDOC/Admin+Interface+-+System+Status+-+Event+Codes	<clientConfiguration....clientConfig.xsd"> <clientType>Operator Client</clientType> <!-- Set windowsEventLogEnabled to true in order to enable logging to Windows EventLog (ignored on Unix) --> <!-- Set linuxSyslogFacility for system logging under linux, ignored under Windows. Valid options are user, daemon, local0, local1, ..., local7. --> <logging> <windowsEventLogEnabled>false</windowsEventLogEnabled> <linuxSyslogFacility>local6</linuxSyslogFacility> </logging> </clientConfiguration> For the live system the MC configuration can be manually adjusted, or preferrably using the configurator template, so that fews.master.mc.conf and fews.master.mcproxy.conf contain <!-- Set windowsEventLogEnabled to true in order to enable logging to Windows EventLog (ignored on Unix) --> <!-- Set linuxSyslogFacility for system logging under linux, ignored under Windows. Valid options are user, daemon, local0, local1, ..., local7. --> <logging> <windowsEventLogEnabled>false</windowsEventLogEnabled> <linuxSyslogFacility>local6</linuxSyslogFacility> </logging> In order to get rsyslog working under linux, specify a linux facility such as local6 (see above) and modify accordingly /etc/rsyslog.conf # Provides UDP syslog reception $ModLoad imudp $UDPServerRun 514 local6.* /var/log/fews.log	
System - PI Service	FEWS-10014	FEWS-9814 Functionality to have PI webservice with JAVA - .NET integration for authentication		JAVA - .NET integration in webservice for authentication	No additional configuration required.	
System - Synchronisation	FEWS-10390	add synchprofile for IFD systems			No additional configuration required.	
System - Synchronisation	FEWS-10118	FEWS-7492 Investige possibilities to use Stand Alone HornetQ instead of JBOSS	Currently testing ActiveMQ, expected release will be 2014.02	We will not be continuing with HornetQ but instead we are now testing ActiveMQ. ActiveMQ offers more possibilities when it comes to SSL connections	No additional configuration required.	
System, Third Party	FEWS-9967	FEWS-7492 Open issues JBOSS7: Memory Leak	This issue is no longer relevant as we plan to step over to ActiveMQ			
Third Party	FEWS-10119	Add SIP-library for Linux				
	FEWS-10933	FEWS-10753 time series table	Column header in data set table now has the correct height			
	FEWS-10872	FEWS-9814 Allow importing hourly time series with daylight saving time		When an import file contains two subsequent rows with the same time and the import time zone has daillight saving, FEWS assumes the first row is summer time and the second row is winter time.	No additional configuration required	
	FEWS-10320	FEWS-9814 Direct database access in combination with dual MC	The OC can be setup with multiple direct database connections. The user can select the database to connect to via a popup. Cache files for a specific master-controller are stored in their own subdirectory.	The OC can be setup with multiple direct database connections. The user can select the database to connect to via a popup. Cache files for a specific master-controller are stored in their own subdirectory. When this scenario is used, old cache files will be deleted from the localdatastore directory.	<?xml version="1.0" encoding="UTF-8"?> ... http://fews.wldelft.nl/schemas/version1.0/clientConfig.xsd"> <connection id="SEPA00" name="direct database access stand alone SEPA00"> <databaseServer> <dbServerType>oracle</dbServerType> <dbServerName>fewsdbsvr10</dbServerName> <dbServerPort>1521</dbServerPort> <dbInstanceName>SEPA00</dbInstanceName> <dbInstanceUser>fews</dbInstanceUser> <dbInstanceEncryptedPassword>...</dbInstanceEncryptedPassword> </databaseServer> </connection> <connection id="SEPA00" name="direct database access OC SEPA00"> <databaseServer> <dbServerType>oracle</dbServerType> <dbServerName>fewsdbsvr10</dbServerName> <dbServerPort>1521</dbServerPort> <dbInstanceName>SEPA00</dbInstanceName> <dbInstanceUser>fews</dbInstanceUser> <dbInstanceEncryptedPassword>...</dbInstanceEncryptedPassword> </databaseServer> <jmsServer> <appServerType>jboss</appServerType> <appServerName>tl-jb007.deltares.nl</appServerName> <appServerPort>1099</appServerPort> <rootJNDI>PR/SEPA/MC00/</rootJNDI> </jmsServer> </connection> <connection id="SEPA01" name="direct database access OC MC01"> <databaseServer> <dbServerType>oracle</dbServerType> <dbServerName>fewsdbsvr10</dbServerName> <dbServerPort>1521</dbServerPort> <dbInstanceName>SEPA01</dbInstanceName> <dbInstanceUser>fews</dbInstanceUser> <dbInstanceEncryptedPasswor>...</dbInstanceEncryptedPassword> </databaseServer> <jmsServer> <appServerType>jboss</appServerType>	
	FEWS-10239	FEWS-9814 TimesOfDayDaylightSavingTimeStep. Times of day with time zone that supports daylight saving.				