




Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
	FEWS-7864	Modifiers can not be deleted or created on LDS free OC				
Plugin - Gui - Time Series	FEWS-7857	Create on-the-fly conversion to longitudinal profile for spectrum data				
Plugin - Gui - Time Series	FEWS-7856	Option to display one or more location attribute values in the header of a column in the TSD		The Time Series Display has now an option that you can show a location attribute (or any other valid description) in the header of the table.	<pre><generalDisplayConfig> <convertDatum>true</convertDatum> ... <headerLine>External ID: @TAG@</headerLine> </generalDisplayConfig></pre>	
Plugin - Gui - Time Series	FEWS-7828	FEWS-7333 BPA: historical analyses display, filter with years (2nd) not updated after selection in first filter				
	FEWS-7827	FEWS-7333 BPA and NERFC: incorrect warning log message: WARN - Error retrieving TimeSeriesSets from the DisplayGroups configuration for selected SegmentNode:				
	FEWS-7793	FEWS-7333 Layer tool window in GridDisplay : icon colors and popudialog broken		Fix: - ShapeType.POLYGON may have fillColor AND lineColor (for borders). Broken with FEWS-7628 - icon should be created again when the user changes colors Broken with FEWS-6821		
Debug Tool - Workflow Navigator	FEWS-7782	FEWS-7333 Workflow Navigator geeft foutmeldingen bij het openen van het Scherm				
Plugin - Module - Transformation	FEWS-7762	FEWS-7333 ArrayIndexOutOfBoundsException using the DisaggregationMeanToInstantaneousFunction transformation function				
Plugin - Module - General Adapter	FEWS-7761	FEWS-7333 java.lang.Exception produced when running workflow with General Adapter to run Delft-3D				
Plugin - Module - Transformation	FEWS-7760	FEWS-7333 StringIndexOutOfBoundsException using the UserSimpleFunction of the Transformation Module				
Plugin - Module - Modifiers (ModuleParameters)	FEWS-7745	FEWS-7333 Attribute modifiers worden niet in de FEWS database opgeslagen				
Configuration	FEWS-7743	FEWS-7333 import configuration werkt wel, maar geeft error dat sessionmanager niet bestaat				
Plugin - Gui - Time Series Modifier	FEWS-7742	FEWS-7333 Workflow die met modifier is gedraaid op Server wordt niet automatisch current				
App - Operator Client Gui	FEWS-7737	Simplified chinese language files	Chinese Language Supported	The Delft-FEWS GUI (menu, buttons, some error message) can now be displayed in Chinese.	Add/change the following lines to the *global.properties file (rootConfiguration file) COUNTRY=CN LANGUAGE=zh	
Plugin - Module - Reports	FEWS-7729	Possibility to export graph as SVG in report module		Exporting charts as SVG To export a chart in SVG format, specify this format using configuration element "fileFormat" : <fileFormat>svg</fileFormat> Default <fileFormat> value is png.	This example creates two reports, one with png chart and one with svg chart: <pre><report> <locationId>M-1000</locationId> <chart id="chart" formatId="chartFormat1" width="500" height="300"> <timeSeries lineStyle="solid;thick" axis="left" visibleInLegend="true" label="ECMWF">Qobserved</timeSeries> <timeSeries lineStyle="solid;thick" axis="right" visibleInLegend="true" label="ECMWF">Hobserved</timeSeries> <fileName>chart_A</fileName> </chart> <template>ReportTemplate_Report_German.html</template> <outputFileName>flowplot_A.html</outputFileName> </report> <report> <locationId>H-2091</locationId> <chart id="chart" formatId="chartFormat1" width="500" height="350"> <timeSeries lineStyle="solid;thick" axis="left" visibleInLegend="true" label="ECMWF">Qobserved</timeSeries> <timeSeries lineStyle="solid;thick" axis="right" visibleInLegend="true" label="ECMWF">Hobserved</timeSeries> <fileName>chart_B</fileName> <fileFormat>svg</fileFormat> </chart> <template>ReportTemplate_Report_German.html</template> <outputFileName>flowplot_B.html</outputFileName> </report></pre>	
Plugin - Gui - Time Series	FEWS-7711	FEWS-6151 When using read complete forecast for simulated historical only read the update run that is current				
Plugin - Module - Data Import	FEWS-7709	BIL file import (.hdr and .tim currently only recognized when lower case) and update on wiki				


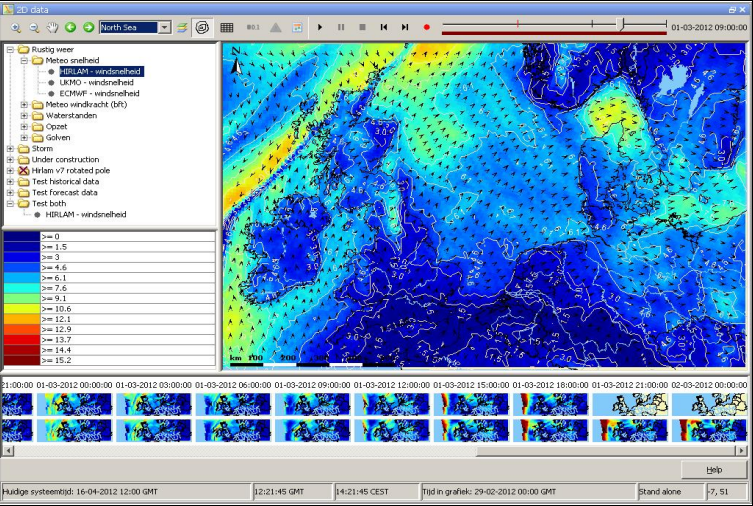
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Plugin - Module - Transformation	FEWS-7688	FEWS-7333 statisticsRelatedlocations met containingPolygon berekening moet ook 1-n relatie aankunnen				
Configuration	FEWS-7686	Ignore historical module instance when read complete forecast is specified				
App - Operator Client Gui	FEWS-7677	Possibility to give the VJDBC port of the local OC as argument to an explorer taskrun.				
Database	FEWS-7672	FEWS-7333 Logmeldingen dat data met andere waarde al in de database zit zijn onnodig				
App - Admin Web User Interface	FEWS-7662	FEWS-7333 Exception is thrown when going to the next page with successful import files using the arrow buttons				
Database, Plugin - Gui - Time Series, Plugin - Module - Data Import	FEWS-7642	FEWS-6151 import netcdf data with spectra for separate locations summed over the direction		In TimeSeriesImport module added new import type NETCDF-CF_SPECTRUM for importing netcdf data with 1D spectrum time series for separate locations.		
Plugin - Gui - Time Series Modifier	FEWS-7627	FEWS-7333 interpolation between points does not work for tschng mod in modifier panel				
Plugin - Gui - Time Series Modifier	FEWS-7615	FEWS-7333 Exception when less than 5 equations are found in the PCA				
Plugin - Module - Data Import	FEWS-7612	Add skipFirstLinesCount option time series import module to skip first rows in text file		Option skipFirstLinesCount in time series import to skip first rows in text file.	<p>Example to read from CSV files where unfortunately the first contains a key instead of the column headers. The CSV files look like:</p> <pre>[DATA] Tagname,TimeStamp,Value,DataQuality WDD.MEM_BER0001_01_LT01_MW,2010-04-01 12:21:00,-0.000,GOOD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:34:05,-0.001,GOOD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:35:00,-0.011,BAD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:36:00,-0.003,GOOD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:37:00,-0.000,GOOD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:38:00,-0.000,GOOD WDD.MEM_BER0001_01_LT01_MW,2011-01-12 10:39:00,-0.000,GOOD</pre> <p>In this example the first line should be skipped, so skipFirstLinesCount = 1</p> <pre><general> <importType>generalCSV</importType> <folder>\$IMPORT_FOLDER_KETEN\$</folder> <fileNamePatternFilter>*.csv</fileNamePatternFilter> <failedFolder>\$IMPORT_FAILED_FOLDER_KETEN\$</failedFolder> <backupFolder>\$IMPORT_BACKUP_FOLDER_KETEN\$</backupFolder> <table> <dateTimeColumn name="TimeStamp" pattern="yyyy-MM-dd HH:mm:ss"/> <locationColumn name="Tagname"/> <flagColumn name="DataQuality"/> <valueColumn name="Value" unit="SI"/> </table> <idMapId>IdKETEN</idMapId></pre>	
Plugin - Module - Modifiers (TimeSeries)	FEWS-7603	FEWS-7333 Creating a FMAP modifier in FEWS NB fails				
Plugin - Module - Data Import	FEWS-7584	iHistorian import		New import type : iHistorian used to import from Proficy iHistorian database	<p>Example to import from iHistorian database</p> <pre>{code:xml} <general> <importType>iHistorian</importType> <serverUrl>http:srvHistorian</serverUrl> <user>*****</user> <password>*****</password> <relativeViewPeriod unit="hour" start="-24" startOverrutable="true" end="0"/> <idMapId>IdKETEN</idMapId> <flagConversionsId>ImportKETENFlagConversions</flagConversionsId> <importTimeZone> <timeZoneOffset>+01:00</timeZoneOffset> </importTimeZone> <dataFeedId>iHistorian</dataFeedId> </general> {code}</pre> <p>Note that special drivers should be installed at the servers, additionally from FEWS, to enable the access to iHistorian database</p>	

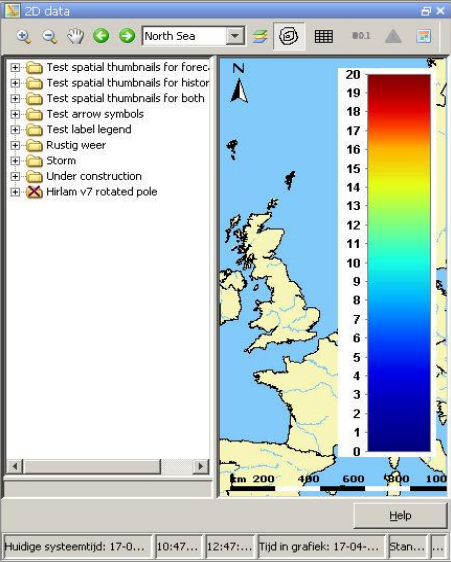
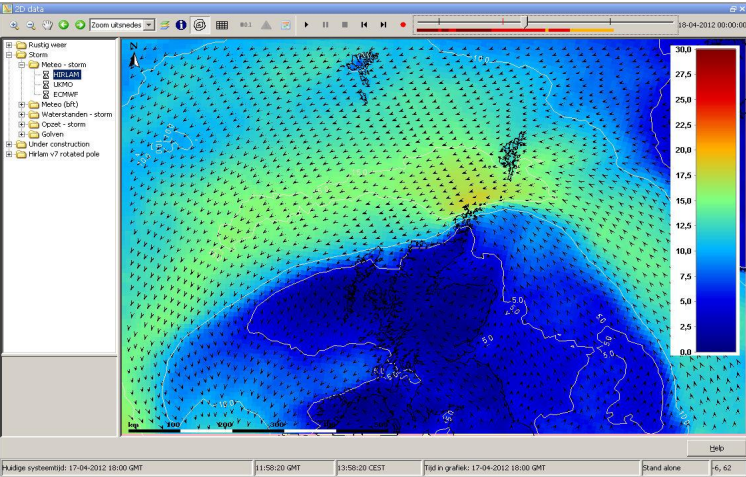
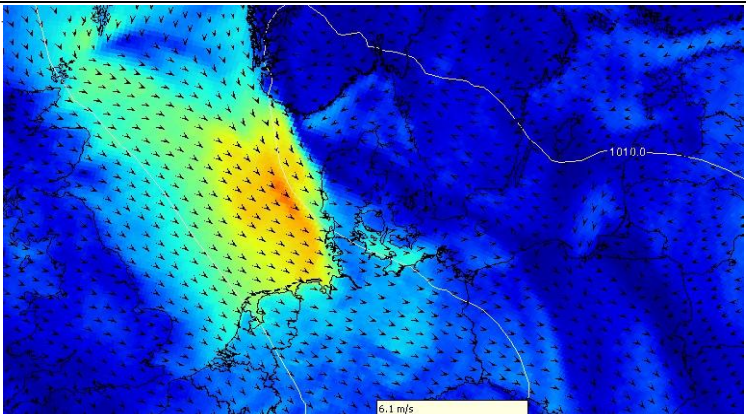
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App - Data Import Module (DIM)	FEWS-7556	UMAquo import controleert of de paramters voldoen aan de domeintabellen (schma's). Optie toevoegen om deze check uit te zetten.	New option to make validation more lenient	new configuration option the allows incorrect values to be imported without throwing exception.	<pre><?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 Umaquo CSV data from an import directory --> <import> <general> <!-- Class name of Umaquo CSV parser --> <parserClassName>nl.deltares.umaquo.timeseriesparsers.UmaquoXmlTim eSeriesParser</parserClassName> <!-- Path to directory containing Umaquo libraries and schemas. If omitted then the content of the umaquo-bin can be placed in the FEWS-bin dir --> <binDir>%REGION_HOME%/Modules/umaquo-bin</binDir> <!-- Directory from which CSV files are to be imported --> <folder>\$IMPORT_FOLDER\$/Umaquo/XML</folder> <failedFolder>\$IMPORT_FAILED_FOLDER\$/Umaquo/XML</failedFolder> <backupFolder>\$IMPORT_BACKUP_FOLDER\$/Umaquo/XML</backupFolder> <idMapId>IdImportUmaquo</idMapId> <importTimeZone> <timeZoneOffset>+00:00</timeZoneOffset> </importTimeZone> </general> <properties> <!-- Optional: select Umaquo schema version 2009 or 2011. Default = <int key="SCHEMA_VERSION" value="2009"/></pre>	
Plugin - Gui - Time Series Modifier	FEWS-7553	FEWS-7333 not possible to create sacbasef mod for 1 location				
Plugin - Gui - Time Series Modifier	FEWS-7552	FEWS-7333 applying a mfc mod to multiple segments is broken				
Plugin - Gui - Time Series Modifier	FEWS-7551	FEWS-7333 timeshift buttons are enabled in ignorets-mod				
Plugin - Module - Modifiers (TimeSeries)	FEWS-7550	FEWS-7333 UnitHG is broken				
Plugin - Module - Modifiers (TimeSeries)	FEWS-7548	FEWS-7333 ERROR when modifying ROP timeseries in FEWS NB				
Plugin - Module - Transformation	FEWS-7542	Add posibility to define NaN (missing) as result in User simple transformation > IfThenElse statement			<pre><transformation id="Ber_LichtKritisch_Meerjarig"> <user> <simple> <expression>if(PercLicht_Meerjarig &gt; norm, 1, if(PercLicht_Meerjarig &lt;= norm, 0, PercLicht_Meerjarig*NaN))</expression> <coefficientSetFunctions> <coefficient id="NaN" value="-999"/> <coefficient id="norm" value="@L_ESF2_meetnet:NORMPL@" /> </coefficientSetFunctions> <outputVariable> <variableId>LichtKritisch_Meerjarig</variableId> </outputVariable> </simple> </user> </transformation></pre>	
Module Adapter - Delft3D	FEWS-7541	FEWS-7540 Change FileVersion in header of Delft3D-FLOW meteo files from 1.02 to 1.03				
Debug Tool - Database Viewer	FEWS-7539	FEWS-7508 Hide workflow panel when started as TimeSeriesInfo	hide forecasts when listening to explorer selection	when using timesereriesinfo panel in combination with explorer selection it is confusing to see the forecasts list. make it possible to hide the list.	<pre><explorerTask name="Tijdseries informatie"> <iconFile>tableInfo.png</iconFile> <arguments>hideForecasts</arguments> <taskClass>nl.wldelft.fews.gui.plugin.timeseriestableviewer.TimeSe riesTableView</taskClass> <toolbarTask>true</toolbarTask> <menubarTask>true</menubarTask> <accelerator>ctrl T</accelerator> </explorerTask></pre>	
Plugin - Gui - Manual Forecast	FEWS-7507	FEWS-7333 CLONE - FOEN:Error on operational system				
Plugin - Module - Secondary Validation	FEWS-7437	FEWS-7373 Check if JEP is fully supported	New option in SecondaryValidation SeriesComparison to use .and. and .or. as logical expressions in XML.	Allow SecondaryValidation SeriesComparison check expression to use .and. and .or. as logical expressions in XML. Logical Or preceeds logical And, but bracelets can be used to make the expression more readable.	<pre><?xml version="1.0" encoding="UTF-8"?> <secondaryValidation 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/secondaryValidation.xsd" > <seriesComparisonCheck id="checkWithScalar"> <variableDefinition> <variableId>H_obs_location1</variableId> <timeSeriesSet> <moduleInstanceId>SeriesComparisonCheck</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H_obs</parameterId> <locationId>location1</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="minute" multiplier="15"/> <relativeViewPeriod unit="day" start="-30" end="0"/> <readWriteMode>read only</readWriteMode> </timeSeriesSet> </variableDefinition> <expression>H_obs_location .lt. 10 .or. H_obs_location .gt. 1000</expression> <validatingVariableId>H_obs_location1</validatingVariableId> <outputFlag>unreliable</outputFlag> <logLevel>INFO</logLevel> <logEventCode>TimeSeries.Check</logEventCode></pre>	

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Plugin - Module - Secondary Validation	FEWS-7436	FEWS-7373 Logmessage without %TAG%	Additional tag %NONE% in secondary validation to hide location and period within generated log messages.	Secondary validation checks that alter the flags do include in the logmessage the location and period. If the %NONE% tag is used this information will not automatically be included.	For instance without %NONE% WARN - IWP.2102-MIP2: Sluis 2101 < MIP2[Sluis21_boven H.meting Sun Mar 18 14:40:00 CET 2012..Sun Mar 18 20:40:00 CET 2012] is replaced by 18-03-2012 21:09:15 WARN - IWP.2102-MIP2: Sluis 2101 < MIP2 with the %NONE% option. <seriesComparisonCheck id="..."> <variableDefinition> ... </variableDefinition> <expression>...</expression> <validatingVariableId>...</validatingVariableId> <outputFlag>...</outputFlag> <logLevel>...</logLevel> <logEventCode>...</logEventCode> <logMessage>IWP.2102-MIP2: Sluis 2101 < MIP2%NONE%.</logMessage> </seriesComparisonCheck> </secondaryValidation>	
Plugin - Module - Secondary Validation	FEWS-7436	FEWS-7373 OutputFlag unchanged	New option <outputMode>logs_only</outputMode> in secondaryValidation FlagsComparisonCheck, SeriesComparisonCheck and SpatialHomogeneityCheck.	Secondary Validation checks are designed used to validate conditions on one or between multiple timeseries and report on it by generating log messages. Several Secondary Validation checks (e.g. SeriesComparisonCheck, FlagsComparisonCheck, SpatialHomogeneityCheck) generate log messages but also alter timeseries output flags to mark data as doubtful or unreliable. With this new option the log messages are still generated, but the output flags for the timeseries will remain untouched. For the SpatialHomogeneityCheck, this option can be specified per threshold condition.	Add option <outputMode>logs_only</outputMode> in secondaryValidation FlagsComparisonCheck, SeriesComparisonCheck and SpatialHomogeneityCheck. <secondaryValidation 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/secondaryValidation.xsd"> <seriesComparisonCheck id="checkWithScalar"> <variableDefinition> <variableId>H_obs_location1</variableId> <timeSeriesSet> <moduleInstanceId>SeriesComparisonCheck</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.obs</parameterId> <locationId>location1</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="minute" multiplier="15"/> <relativeViewPeriod unit="day" start="-30" end="0"/> <readWriteMode>read_only</readWriteMode> </timeSeriesSet> </variableDefinition> <expression>H_obs_location1 .ge. 13</expression> <validatingVariableId>H_obs_location1</validatingVariableId> <outputFlag>unreliable</outputFlag> <outputMode>logs_only</outputMode> <logLevel>INFO</logLevel> <logEventCode>TimeSeries.Check</logEventCode>	
Plugin - Gui - Time Series	FEWS-7428	Never show location name in legend when all series share the same location		More compact chart legends. When all series share the same location the location name is no longer repeated in every series name. The shared location name is automatically added to the chart title.		
Plugin - Gui - ScenarioEditor (NGMS)	FEWS-7423	FEWS-7252 Another IndexOutOfBoundsException				
Plugin - Module - Reports	FEWS-7408	FEWS-6512 Improve scaling of left axis in chart of reports		In Reports and ChartLayer a fixed number of ticks can be configured using element <ticksNumber>. The tick values depend on the axis range, and can be optionally rounded using scaleUnit.	<chartFormat id="chartFormat1"> <includeTime0>true</includeTime0> <leftAxis> <min>100</min> <max>2000</max> <ticksNumber>5</ticksNumber> <scaleUnit>50</scaleUnit> <caption>Abfluss [m3/s]</caption> </leftAxis> <rightAxis> <tickUnit>100</tickUnit> <caption>Pegel [m]</caption> <format>##0.00</format> </rightAxis> <relativeWholePeriod start="-2" end="10" unit="day"/> </chartFormat>	

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Plugin - Module - Reports	FEWS-7407	FEWS-6512 Extend HTML reports with Chart title config options		<p>Tick label font can be configured in Reports and in ChartLayer .</p> <p>Each axis - horizontal, left and right - may have an own font configuration</p>	<pre><chartFormat id="chartFormat1"> <includeTime0>true</includeTime0> <leftAxis> <caption>Abfluss [m3/s]</caption> </leftAxis> <thresholdAxisScaling>all thresholds</thresholdAxisScaling> <bottomAxis> <format>d.M.\nE</format>\ <tickUnit unit="day"/> <minorTickUnit unit="hour" multiplier="6"/> <centerLabelsBetweenTicks>true</centerLabelsBetweenTicks> </bottomAxis> <relativeWholePeriod start="-2" end="10" unit="day"/> </chartFormat></pre>	
	FEWS-7396	Several improvements to PCA	Improvements to the statistical function Principal Component Analysis	<p>Several improvements have been made to the statistical function Principal Component Analysis.</p> <p>The most important improvement is that for each regression line now also the 95% confidence interval will be shown. However the confidence band will only be shown when 1 equation is visible in the plot.</p> <p>The icons which were different per equation are now always boxes. The box for the current observation will be filled box, the open boxes will be used for the historical observations. In addition the data table doesn't show the data for the regression line anymore.</p>		
	FEWS-7371	FEWS-6472 Transformatie user expressie werkt niet goed bij missing values in reeks	Fixed two bugs in UserSimple transformation, concerning if statements in combination with missing values and concerning the == and != signs.	Fixed two bugs in UserSimple transformation: 1. There was a bug in the UserSimple transformation. With an expression that contains an if statement it can be the case that some of the input variables are not used at a given time. In this case when an input variable had a missing value, but was not used, then the output was still always a missing value. This has been fixed, so that missing input values that are not used do not cause the output value to become a missing value. 2. There was a bug in the UserSimple transformation that caused the == and != signs to malfunction. This has been fixed now.	<pre><transformation id="Sel_WaterstandAanAfv"> <user> <simple> <expression>if(PEILISSP ==1, Streefpeil, AanAf_Waterstand_tijdelijk)</expression> <coefficientSetFunctions> <coefficient id="PEILISSP" value="@PEILISSP@" /> </coefficientSetFunctions> <outputVariable> <variableId>AanAf_Waterstand</variableId> </outputVariable> </simple> </user> </transformation></pre>	
Plugin - Gui - Time Series Modifier	FEWS-7347	FEWS-Rivieren: referentie tijdserie zichtbaar in Modifier Display				
Plugin - Module - Modifiers (TimeSeries)	FEWS-7346	Offset for valid time modifiers	Valid time for modifier can be configured with an offset time	In the previous release the configurator had two options for configuring a valid time. Either set the valid time to timezero or let the modifier not use the valid time. Now it is also possible to define an offset for the valid time relative to time zero. By using this option it is now possible to let the valid time default to for example time zero plus 2 hours.	<pre><timeSeriesModifier id="aanpassen.h.voorspeld" name="aanpassen voorspelde waterhoogte"> <timeSeries> <parameterId>H.voorspeld</parameterId> </timeSeries> <defaultStartTime>start run</defaultStartTime> <defaultEndTime>end run</defaultEndTime> <defaultValidTime></defaultValidTime> <offsetValidTime unit="hour" multiplier="1"/> <resolveInWorkflow>true</resolveInWorkflow> <resolveInPlots>true</resolveInPlots> </timeSeriesModifier></pre>	
Plugin - Gui - Grid Display	FEWS-7339	Menu items in Pop-up menu of spatial Display are not clear, must be improved		Now the expand/collapse (all) items in the right-click pop-up menu in the spatial display are only visible when clicking on the tree.		
Module Adapter - SOBEK	FEWS-7329	FEWS-7074 SOBEK-RE adapter: aansturen van triggers vanuit FEWS				
App - Operator Client Gui	FEWS-7316	Do not gray out the icons while automatically adjusting the system time		Icons on the explorer map are no longer grayed out when the system time is automatically adjusted. The system time in the status bar now has a magenta background while the icons are updated.	no configuration required	
Plugin - Module - Data Import, Plugin - Module - Reports	FEWS-7315	Fish Class Counter - Import & Output				
Plugin - Module - Data Export	FEWS-7311	FEWS-7074 Rekenfaciliteit en Deltaportaal: export van shape in FEWS				

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Plugin - Module - Data Export	FEWS-7296	FEWS-6151 Add NOOS format to available export formats	Add NOOS format to available FEWS export formats	Up to now it was not possible to export data from FEWS in the NOOS format. This functionality has been added.	<pre><export> <general> <exportType>noos_timeseries</exportType> <folder>\${EXPORT_FOLDER_METINGEN\$}</folder> <exportFileName> <name>noos</name> </exportFileName> <idMapId>IdExport_Kf</idMapId> <exportMissingValueString>-9999.0</exportMissingValueString> </general> <timeSeriesSet> <moduleInstanceId>MATROOS_Import_meting</moduleInstanceId> <valueType>scalar</valueType> <parameterId>H.meting</parameterId> <locationSetId>Real_Time_Waterlevel</locationSetId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="minute" multiplier="10"/> <relativeViewPeriod unit="day" start="-3" end="1" startOvrrulable="true" endOvrrulable="true"/> <readWriteMode>add_originals</readWriteMode> <synchLevel>1</synchLevel> <expiryTime unit="week" multiplier="2"/> </timeSeriesSet> </export></pre>	
App - Configuration Manager Gui, App - Launcher Gui, App - Operator Client Gui	FEWS-7291	Incorporate Deltares logo in FEWS				
	FEWS-7290	FEWS-6472 Update locationrelations in open database through database maintenance workflow on FFS	Update location relations in FEWS open (unblobbed) database from Forecasting Shell	When using a FEWS unblobbed database for external historical time series an update mechanism has been made to update location relations. The open database contains a locations table with characteristics of all locations. Characteristics in the location table are not automatically updated when a new locations.xml file or location attribute files is updated. An update class must be started from a workflow on the FSS that performs this task.	<p>3 configuration files need to be updated to include this feature in the FEWS configuration.</p> <pre>SystemConfigFiles\ModuleDescriptors.xml <moduleDescriptor id="ExternalConfigTablesUpdate"> <description>Copies the FEWS region config to the external open database config tables configured in the clientConfig.xml</description> <className>nl.wldelft.fews.system.plugin.externalconfigtables.Exte rnalConfigTablesUpdate</className> </moduleDescriptor> RegionConfigFiles\ModuleInstanceDescriptors.xml <moduleInstanceDescriptor id="ExternalConfigTablesUpdate"> <description>Update de informatie in de opendatabase welke in de config bestanden staat zoals locatierelaties, etc.</description> <moduleId>ExternalConfigTablesUpdate</moduleId> </moduleInstanceDescriptor> WorkflowFiles/Workflow.xml <activity> <runIndependent>true</runIndependent> <moduleId>ExternalConfigTablesUpdate</moduleId> </activity></pre>	
Plugin - Gui - Time Series	FEWS-7288	FEWS-6512 Show statistics for the first series (default)	By default the first timeseries in a plot will be displayed in the descriptive statistics box	In previous releases the descriptive statistics box was only filled when a time series was selected. Now by default (if no selection is made) the first time series will be selected.		
App - Master Controller Server	FEWS-7287	Create stand-alone version of the MC-MC Synchronisation process	Stand-alone version of the MC-MC Synchronisation process	When adding a new MC to an existing System the initial MC-MC Synch can take quite a while. For some systems with certain tables with large amounts of data (e.g. TimeSeries) this can take longer than the default hearbeat time of 3600 seconds for the MC Synchronsation component, which casues the MC-MC Synchronisation task to fail. This tool enables the MC-MC Synchronisation to run outside the MC task-chaser framework. This should not be running while the MC is running. For details on how to use, see http://publicwiki.deltares.nl/display/FEWSDO C/Delft+FEWS+Installation+-+Stand+Alone+MC-MC+Synchronisation		
	FEWS-7286	FEWS-7285 Separate DataStore code from Delft-FEWS code				
Plugin - Gui - Schematic Status Display	FEWS-7277	FEWS-Rivieren: uitbreiding schematic status display met bestaade report tags				
Plugin - Module - Transformation	FEWS-7275	FEWS-6151 dataHierarchyIndexOutput/VariableId voor new merge transformation	The transformation Merge/Simple is now able to output which input timeseries was used in the merge operation	The transformation Merge/Simple is now able to output which input timeseries was used in the merge operation. This can be done by configuring an additional output timeseries in which the index of the used input timeseries will be stored. If the first input timeseries (highest in hierachy) is used the output will be 1. If the second timeseries is used the output will be 2.	<pre>{code:xml} <transformation id="example"> <merge> <simple> <inputVariable> <variableId>input</variableId> </inputVariable> <outputVariable> <variableId>output</variableId> </outputVariable> <indexUsedInputVariable> <variableId>outputForIndexUsedInput</variableId> </indexUsedInputVariable> </simple> </merge> </transformation> {code}</pre>	

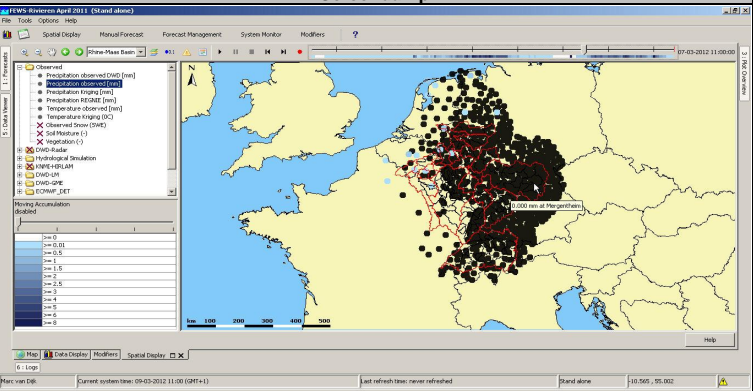
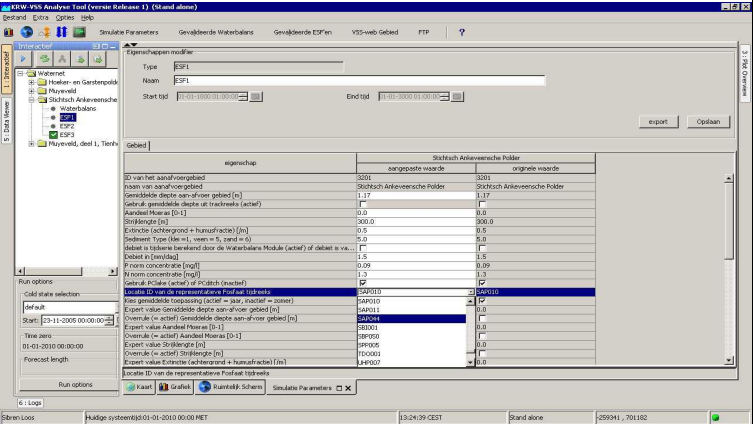
Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Plugin - Module - Data Import	FEWS-7246	Make it possible to use client.truststore file in Stand-Alone mode for ssl opendap netcdf import	Now it is possible in Delft-FEWS to import netcdf files from an opendap server that uses SSL	When importing Netcdf files from an opendap server that uses SSL, then the server certificate needs to be accessible by FEWS. This can be done by adding it to the client.truststore in the FEWS region home folder. Made code changes so that the client.truststore file is also working in stand alone mode.		
Utilities	FEWS-7225	FEWS-7074 Extension of EnsembleMember indication		<p>The element <ensembleMemberIndex> can contain non-integer information. One can add an <ensembleMemberIndex> that contains non-integer information. This has been implemented for the automatic generation of output ensembles from more than one input ensembles in FEWS. As an example: one input ensemble contains 9 members with discharge data and the other input ensemble contains 6 members with water level data. Both input ensembles are the boundaries of a hydrodynamic model. In FEWS it is possible to generate output ensembles with 54 members for both discharge and waterlevel from these two input ensembles. The first ensemble member will then contain an <ensembleMemberIndex> with "Q_1_H_1" for discharge and waterlevel. This way, it is easy to keep track of which input ensemble member produced a specific output ensemble member.</p> <p>Points of attention for testing: Non-integer ensembleMemberIndex works in transformations (see Config Example) and when running models from the General Adapter. Basically, the non-integer ensembleMemberIndex should work the same as the integer ensembleMemberIndex.</p>	<pre><?xml version="1.0" encoding="UTF-8"?> <transformationModule version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wldelft.nl/fews" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/transformationModule.xsd" > <variable> <variableId>input1</variableId> <timeSeriesSet> <moduleInstanceId>UserDefinedFunctionTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Q.m</parameterId> <locationId>H-2001</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <relativeViewPeriod unit="hour" start="-10" end="10"/> <readWriteMode>editing visible to all future task runs</readWriteMode> <ensembleId>QH</ensembleId> <ensembleMemberId>Q_1_H_1</ensembleMemberId> </timeSeriesSet> </variable> <variable> <variableId>input2</variableId> <timeSeriesSet> <moduleInstanceId>UserDefinedFunctionTest</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Q.simulated</parameterId> <locationId>H-2001</locationId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <relativeViewPeriod unit="hour" start="-10" end="10"/> <readWriteMode>editing visible to all future task runs</readWriteMode></pre>	
App - Data Import Module (DIM)	FEWS-7208	Option in TimeSeriesImport to put input files with unknown data (loc/par) into failedFolder	TimeSeriesImport configuration option "failOnUnmappableTimeSeries"	<p>If this option is set to true, the files with unmappable timeseries will be moved to the failedFolder, and a warn message will be logged.</p> <p>Unmappable timeseries are the series whose header id's (parameter, location, ...) cannot be converted to internal id's.</p> <p>If the option "disableImportOnMissingUnitConversion" is set to true, then also series, whose external unit cannot be converted to internal , will be marked as unmappable.</p>	<pre>TimeSeriesImportRun.xml: {code:xml} <import> <general> <importType>PI</importType> <folder>\$IMPORT_TEST_FOLDER_HIST\$</folder> <failedFolder>\$IMPORT_FAILED_FOLDER\$</failedFolder> <failOnUnmappableTimeSeries>true</failOnUnmappableTimeSeries> <unitConversionsId>ImportUnitConversions</unitConversionsId> <disableImportOnMissingUnitConversion>true</disableImportOnMissingUnitConversion> </general></pre>	
	FEWS-7206	FEWS-6151 FEWS-Noordzee tool to generate grids	Tool to generate a shape file (.shp) from a netcdf (.nc) file has been added to the F12 menu	A tool to generate a shape file (.shp) from a netcdf (.nc) file has been added to the F12 menu. This shape file can be used for the definition of the grid in the Grids.xml (see Config example)	<pre><irregular locationId="Grid_Waqua_dcsmv6"> <rows>1261</rows> <columns>1121</columns> <esriShapeFile> <file>dcsm.shp</file> <geoDatum>WGS 1984 Radians</geoDatum> <x>%X\$</x> <y>%Y\$</y> </esriShapeFile> </irregular></pre>	
	FEWS-7205	FEWS-6472 changes in table attributemodifiers				
Plugin - Gui - Grid Display	FEWS-7201	FEWS-6151 FEWS-Noordzee last 3 analysis 2D-data - Spatial Thumbnails	Added option to show a panel with thumbnails in the spatial display	<p>It is now possible to add an option in the gridDisplay configuration to show a panel with spatial thumbnails in the spatial display. Each thumbnail shows a miniature version of the spatial display map area for a given time and a given forecast. For historical data the thumbnails panel shows one row of thumbnails. For forecast data the thumbnails panel shows one row of thumbnails per forecast. The number of forecasts equals the configured number of recent forecasts, unless there are less forecasts available in the database. The thumbnails panel makes it very easy to compare different forecasts.</p> <p>When both historical and forecast data are present in the spatial display, then the thumbnails panel only shows the forecast data.</p> <p>When the user clicks on a thumbnail, then the forecast and timeStep of that thumbnail are shown in the main map area of the spatial display.</p>	<pre>To show the new panel in the gridPlot configuration add: <numberOfRecentForecasts>3</numberOfRecentForecasts> You probably also want to add the following option: <gapBetweenThumbnails>3</gapBetweenThumbnails></pre>	

Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Plugin - Gui - Grid Display	FEWS-7200	FEWS-6151 FEWS-Noordzee reversible legend for spatial display	Direction of values in GridDisplay legend	The legend in GridDisplay can be shown as table legend or as legend with painted scale. The preference can be configured in GridDisplay.xml, with an option legendStyle. You can choose between "table" (default) or "bar" "table" always shows values from low to high and the "bar" always shows values from high to low.	<defaults> <plotGroupId>Meteo</plotGroupId> <legendStyle>bar</legendStyle> <classBreaks>	
Plugin - Gui - Grid Display	FEWS-7199	FEWS-6151 FEWS-Noordzee fluent legend scale	Paint scale legend in GridDisplay	The legend in GridDisplay can be shown as table legend or as legend with painted scale. The preference can be configured in GridDisplay.xml, with an option legendStyle. It is possible to choose a different legend style per gridPlotGroup. "table" is a default legend style. Choose "bar" if the legend should be shown as painted scale. "table" always shows values from low to high and the "bar" always shows values from high to low.	<defaults> <plotGroupId>Meteo</plotGroupId> <legendStyle>bar</legendStyle> <classBreaks>	
Plugin - Gui - Grid Display	FEWS-7198	FEWS-6151 FEWS-Noordzee pressure contour and wind speed in 1 graph	Plot a contour layer for one parameter over the spatial plot of another parameter.	Plot the contour plot of for example air pressure as a separate layer over a map of for example wind speed (both colors and arrows). Distance between contourplot lines is configurable. The contour values are shown in the 2D display, but this does not require a second legend in the display.	GridDisplay.xml <defaults> <plotGroupId>Meteo</plotGroupId> <legendStyle>bar</legendStyle> <classBreaks> <break symbolSize="10" color="000080" lowerValue="0"/> <break symbolSize="10" color="800000" lowerValue="20"/> </classBreaks> <contourValues> <value>980</value> <value>1040</value> </contourValues> <geoMap> ... </geoMap> </defaults> {code} {code:xml} <gridPlotGroup id="Meteo"> <gridPlot id="HiRLAM"> <dataLayer> <arrowColor>black</arrowColor> <arrowSymbol>wind</arrowSymbol> <uTimeSeriesSet> ... <parameterId>Wind.u</parameterId> ... </uTimeSeriesSet> <vTimeSeriesSet> ... <parameterId>Wind.v</parameterId> ... </vTimeSeriesSet> </dataLayer> <dataLayer> <onlyContourLines>true</onlyContourLines> <timeSeriesSet> ...	

Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
	FEWS-7196	FEWS-6151 FEWS-Noordzee tijdgrafiek/data filter	Hot-key combination to switch between the data filter menu and the standard graphs menu in the Graph display (Ctrl-G)	When the Graph display is opened, the hot-key combination Ctrl-G will toggle between the data filter menu and the standard graphs menu.		
Plugin - Gui - Time Series	FEWS-7195	FEWS-6151 FEWS-Noordzee select visible series in time graph				
Plugin - Gui - Time Series	FEWS-7193	FEWS-6151 FEWS-Noordzee accentuated 0 line in time graph	Option to make the horizontal 0-line thicker/colored in configuration	Add a timeMarkerDisplayOption to the TimeSeriesDisplayConfig.xml to accentuate the horizontal 0-line in all graphs.	<pre>TimeSeriesDisplayConfig.xml <timeMarkerDisplayOptions marker="zeroBaseline"> <color>black</color> <lineStyle>solid;thick</lineStyle> </timeMarkerDisplayOptions></pre>	
Plugin - Gui - Map	FEWS-7192	FEWS-6151 FEWS-Noordzee display actual value on map	Display actual values for stations on the map display	Optional element <label> has been added to Locations.xsd and LocationSets.xsd (under <esriShapeFile>) to customize the location label in the main map display. With this optional element added to an esriShapeFile, ALL locations from this file get the label according to this pattern. You can use the following tags: %ID%, %NAME%, %DESCRIPTION%, %LAST_VALUE%, %LAST_VALUE_TIME%, %FORECAST_START_TIME%, %MAXIMUM_VALUE%, %MAXIMUM_VALUE_TIME%, %MINIMUM_VALUE%, %MINIMUM_VALUE_TIME%	<pre>LocationSets.xml <esriShapeFile> <file>pumpingstations</file> <name>%NAAM%</name> <label>%NAAM% %LAST_VALUE%</label></pre>	



Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
	FEWS-7191	Possibility to use location attributes in secondary validation log messages	Possibility to use location attributes in secondary validation log messages	The Secondary Validation module validates time series. If a time series does not pass this validation, these values are flagged and a log message is created It was already possible to use the following tags in the log messages: %HEADER% and %LOCATION_NAME%. The %HEADER% tag will be replaced with the header of the time series. The %LOCATION_NAME% tag will be replaced with the name of the location of the time series. For minNumberOfValuesCheck, minNonMissingValuesCheck, minReliableOrDoubtfulValuesCheck and minReliableValuesCheck it is now also possible to use the location attributes (if available) as additional tags between "@" signs, e.g. "@DISTRICT_ID@". The values of the location attributes can be different for different locations.	<pre><minReliableValuesCheck id="MinReliableValuesCheck"> <variable> <variableId>input1</variableId> </variable> <variable> <variableId>input2</variableId> </variable> <checkRelativePeriod unit="hour" start="-12" end="0"/> <minNumberOfValues>6</minNumberOfValues> <logLevel>WARN</logLevel> <logEventCode>TimeSeries.Check</logEventCode> <logMessage>Not enough values available for time series %header%, district @DISTRICT@</logMessage> </minReliableValuesCheck></pre>	
Plugin - Module - Transformation	FEWS-7188	FEWS-7074 Genereren ensembles (tijd series) in transformatie	TransformationModule function <generationEnsemble> / <copy> (generating ensembles by copying)	This function creates for each output variable a number of ensemble members that equals to the number of all possible combinations between the ensemble members of each input variable. The output timeseries is created as a copy of the associated input variable. Using element <inputOutput> we specify the associated input-ouput, i.e. which input variable should be used to create output variable , by means of copying. Specific requirements: each location in a particular input variable should have the same number of ensemble members. This is checked in the code. The working will be explained using two configuration examples: A) GenerationEnsembleCopyTest.xml (in attachment) input variable 'inputA' has 3 ensemble members : a0,a1, a2 input variable 'inputB' has 2 ensemble members : b0,b1 output variable 'output1' wil be created from 'inputA' , 'output2' wil be created from 'inputB' . Both by means of copying of the associated input variable. "generationEnsemble" function creates for both output variables the series with 6	Example A: <pre><transformation id="generateEnsemble"> <generationEnsemble> <copy> <inputOutput> <inputVariable> <variableId>inputA</variableId> </inputVariable> <outputVariable> <variableId>output1</variableId> </outputVariable> </inputOutput> <inputOutput> <inputVariable> <variableId>inputB</variableId> </inputVariable> <outputVariable> <variableId>output2</variableId> </outputVariable> </inputOutput> </copy> </generationEnsemble></pre> Example B: <pre><transformation id="generateEnsemble"> <generationEnsemble> <copy> <inputOutput> <inputVariable> <variableId>inputA</variableId></pre>	
Plugin - Gui - Grid Display	FEWS-7182	FEWS-6512 BPA: Link Time Series Display dynamically to selected time series in spatial Display	Interactive use of time series display and Spatial Display	In the Spatial Display timeSeriesSets are presented spatially, showing only one time step. When selecting a gridcell or location the time series can be made visible in the Time Series Display, showing multiple time steps for one location. The data transfer between the Spatial Display and the Time Series Display is automated, requiring less mouse clicks when showing time series. When a cell in the Spatial Display is selected, the time Series Display is updated automatically. When multiple series need to be shown in the Time Series Display, the CTRL+SHFT keys need to be pressed before selecting a second location.	No configuration is needed	
Plugin - Gui - Grid Display	FEWS-7177	FEWS-6512 Add extra series in the TSD or TSE on opening in spatial Display	Hide or show timeSeries in TimeSeriesDialog when this dialog is opened from the GridDisplay	From the griddisplay the TimeSeriesDialog can be opened to show (for example) the data for a selected point (or profile) on the grid display. It is now possible to add additional timeseries to the TimeSeriesDialog when opened from GridDisplay. These timeseries will not be shown in the griddisplay. In addition it is also possible to show timeseries in the griddisplay but hide these timeseries when a TimeSeriesDialog is opened from the griddisplay.	<pre><dataLayer> <visibleInTimeSeriesDisplay>true</visibleInTimeSeriesDisplay> <visibleInSpatialDisplay>false</visibleInSpatialDisplay> <onlyCircles>true</onlyCircles> <timeSeriesSet> <moduleInstanceId>QC_SwitchSNWE_RM_to_R2_snotel</moduleInstanceId> <valueType>scalar</valueType> <parameterId>SNWE</parameterId> <qualifierId>qc</qualifierId> <locationSetId>snotel</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour" multiplier="1"/> <relativeViewPeriod unit="hour" start="-120" end="24"/> <readWriteMode>editing visible to all future task runs</readWriteMode> <synchLevel>5</synchLevel> </timeSeriesSet> </dataLayer></pre>	
Plugin - Gui - Grid Display	FEWS-7176	FEWS-6512 When the TSD is opened from the spatial Display, by default open the Data Editor				

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Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Plugin - Gui - Grid Display	FEWS-7175	FEWS-6512 Toggle class breaks to validation flags colors in spatial display		Validation flags in spatial display for scalar time series. There is a new button in the spatial display that toggles between value colors and flag colors. The flag colors used are the same as used by the flag bar in the time series dialog.	There is no configuration required	
Plugin - Module - Transformation	FEWS-7173	Apply something like maxTimeDifference at sample equidistant transformations.		Optional element "timeWindow" in sample-equidistant and sample-nonEquidistant transformations : This optional element defines a time span in which the closest times, found in the original series, should lie. This time window is related to the time in the outputseries. For instance, for interpolation type 'closest' , the closest times, we found in the outputseries, should lie in the period from outputTime-timeWindow to outputTime+timeWindow , where the outputTime is time in the output series.	An example for the transformation sample-equidistant <pre><transformation id="nonEquiToNonEqui"> <sample> <equidistant> <equidistantInputVariable> <variableId>input</variableId> </equidistantInputVariable> <timeReferenceInputVariable> <variableId>reference</variableId> </timeReferenceInputVariable> <interpolationType>closest</interpolationType> <timeWindow unit="hour"/> <outputVariable> <variableId>output</variableId> </outputVariable> </equidistant> </sample> </transformation></pre>	
Database	FEWS-7171	Extend the validation flags with configurable flag codes that correspond to validationrules, so you know, why a value is flagged as unreliable/doubtfull.				
Plugin - Module - Transformation	FEWS-7167	FEWS-6472 add new transformation function to copy locationId from attribute	Added new transformation function Merge-SelectLocation to select (=copy) Timeseries (output) from TimeseriesSet (input)	a new transformation function 'Merge-SelectLocation' was added that is used to copy a Timeseries to an individual output location which can be selected from an input timeseriesset. The 'attributeFunctionId' should contain an Id (or reference to an attribute (in and DBF file)) that is present in the input timeseriesset. This location will then be used and copied to the output timeseriesSet. For example, for selecting an measurement location within a certain area. Interactive selection is possible in the modifierDisplay using a dropdownlist (see screenshot)	<pre><variable> <variableId>Fosfaat_Zomerjr_meetnet</variableId> <timeSeriesSet> <moduleInstanceId>ESF1_Bewerkingen</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Ptot</parameterId> <qualifierId>Zomer</qualifierId> <locationSetId>Meetnet_Kwaliteit_ESF1</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep id="jaar"/> <relativeViewPeriod unit="day" start="-365" end="0" startOverrutable="true"/> <readWriteMode>add originals</readWriteMode> <synchLevel>1</synchLevel> </timeSeriesSet> </variable> <variable> <variableId>Pconc_zomer</variableId> <timeSeriesSet> <moduleInstanceId>ESF1_Bewerkingen</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Ptot</parameterId> <qualifierId>Zomer</qualifierId> <locationSetId>AanAfvoergebieden</locationSetId> <timeSeriesType>external historical</timeSeriesType> <timeStep id="jaar"/> <relativeViewPeriod unit="day" start="-1461" end="0" startOverrutable="true"/> <readWriteMode>add originals</readWriteMode> <synchLevel>1</synchLevel> </timeSeriesSet> </variable> <transformation id="Sel_Fosfaat_Zomer"> <merge></pre>	

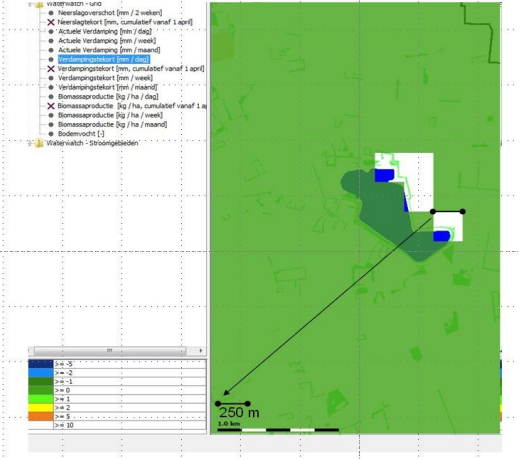



Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
	FEWS-7166	FEWS-6472 add boolean attribute + checkbox in attribute modifier display	Added attribute boolean type (FALSE or TRUE) for use in transformations (e.g. UserSimple) and use in modifier display (as checkbox)	A new attribute type 'boolean' has been added (type 'L' (logical in DBF-file)). The attribute is either FALSE or TRUE and can be used in transformations (e.g. UserSimple) and can be visualized in the modifier display as a checkbox	<div>LocationSets.xml</div> <pre><attributeFile> <dbfFile>aanafvoer_esf3.dbf</dbfFile> <id>%GAFIDENT%</id> <attribute id="IS_JR_ESF3" name="Kies toepassing (actief=jaar, inactief =zomer) "> <description>Kies toepassing (actief =jaar, inactief=zomer) </description> <boolean>%IS_JR_ESF3%</boolean> </attribute> </attributeFile> ModifierTypes.xml <locationAttributeModifier id="ESF1" name="ESF1"> <expiryTime unit="day" multiplier="2"/> <exportFile> <fileName>esf1_waternet</fileName> <postFixTimeFormatString>yyyyMMdd_hhmmss</postFixTimeFormatString> </exportFile> <modifiableGroup name="Gebied"> <exportFileName>aanafvoer_esf1.dbf</exportFileName> <locationSetId>AanAfvoergebieden</locationSetId> <attribute id="GAFIDENT"> <readOnly>true</readOnly> </attribute> <attribute id="NORMOSB"/> <attribute id="IS_JR_ESF1"/> </modifiableGroup> </locationAttributeModifier> ModuleInstanceId.xml <transformation id="Ber_ESFla_Stoplicht"> <user> <simple> <expression>if(IS_JR_ESF1, ESFla_Stoplicht_Jaar, ESFla_Stoplicht_Zomer)</expression> <coefficientSetFunctions> <importTimeSeriesActivity> <exportPlaceholderFile>true</exportPlaceholderFile> <importFile>output.xml</importFile> <timeSeriesSets> </timeSeriesSets> </importTimeSeriesActivity> It is available in the same way for importTimeSeriesActivity, importMapStacksActivity, importPiNetcdfActivity and importProfilesActivity.</pre>	
Module Adapter - DeltaShell	FEWS-7155	FEWS-7305 Export GA model output definitions as files with headers only	General Adapter writes headers of expected output files to provide expected output time series to module adapter	In many cases module adapters have their own configuration, e.g. to define which output results should be exported to the General Adapter. This means that the definition of these output series is configured in both the Module Adapter and the FEWS General Adapter. Since the General Adapter knows already what it expects, the easy way is to provide these definitions to the module adapter. This is done by creating the output files with only headers and still empty time series. By using the element exportPlaceholderFile (default FALSE) in the importActivities one can configure to create the output files.	<pre><importTimeSeriesActivity> <exportPlaceholderFile>true</exportPlaceholderFile> <importFile>output.xml</importFile> <timeSeriesSets> </timeSeriesSets> </importTimeSeriesActivity> It is available in the same way for importTimeSeriesActivity, importMapStacksActivity, importPiNetcdfActivity and importProfilesActivity.</pre>	
App - Operator Client Gui	FEWS-7142	Extend functionality of OC to save and load layout	OC stores and re-loads time series selected in time series dialogue and spatial display	When using dockable windows in Delft-FEWS, the OC stores which time series were selected in the time series dialogue and spatial display when closing the OC. Upon restarting the OC, these time series are re-opened by default.	N.A.	
Plugin - Module - Reports	FEWS-7128	FEWS-6512 Add unit conversion to web-report module	Reports show data in display units	Data in all kind of reports are shown in display units. The display unit can be configured per parameter group in Parameters.xml	<pre>Example of display unit configuration in parameters.xml <parameterGroup id="Discharge"> <parameterType>instantaneous</parameterType> <unit>CMS</unit> <displayUnit>CFS</displayUnit></pre>	
	FEWS-7127	Add macro button to FEWS OC for running local macro files (predefined tasks) via OC (special for GLOWASIS + Deltamodel)				
App - Admin Web User Interface, App - Archive	FEWS-7115	Investigate use of Tomcat 7 with Admin Interface and Archive Server	Tested Admin Interface and Archive server to work with Apache Tomcat 7.0.x	Tested Admin Interface and Archive server to work under Tomcat 7.0.x. It is recommended to set up new systems with Tomcat 7.0.x. Current systems can still run with Tomcat 5.5.x, but may need to be updated in the future. Small changes to install procedure, etc. updated wiki pages with installation instructions: http://publicwiki.deltares.nl/display/FEWSDOC/Delft+FEWS+Installation+-+Install+Apache+Tomcat http://publicwiki.deltares.nl/display/FEWSDOC/Delft+FEWS+Installation+-+Archive+Server+-+Configure		

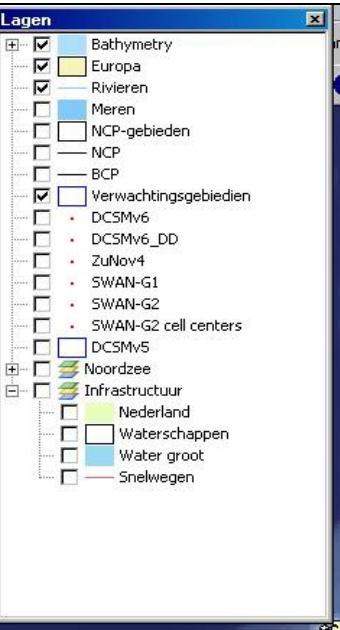
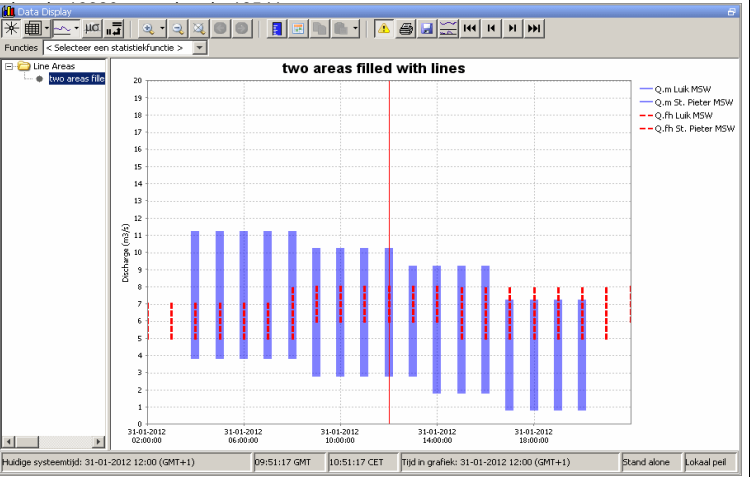
Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
App - Master Controller Server	FEWS-7110	Add some logging to McSystemAlerter e-mail creation/sending code	Added additional log messages to component responisble for e-mail MC System Alerter.	Added log messages (mostly debug-level) to the MC component which is responsible for sending e-mails (SMTPAlerHandler), to facilitate troubleshooting. By default an INFO-level message will be logged to the Database and log file when a message is successfully sent. The debug-level messages are only written to the log file (to see these debug messages: need to set the log-level to DEBUG for the MC Synchronisation component (in Log4jConfig-Synchronisation.xml)).		
	FEWS-7105	add filtering functionality from Forecast Manager to Database Viewer (F12-J)				
App - Master Controller Server	FEWS-7076	Add error message to FSListener when it receives requests from an OC.	Added error message to FSListener when it receives requests from an OC.	Add error message to FSListener when it receives requests from an OC (for when OCs are configured to connect to the wrong JMS queue).		
	FEWS-7066	Add synchlevel 16 to Activity.In.All and Activity.Out.All for FSS profile in synchprofiles	Use synchlevel 16 for ensemble data by default in synchprofiles	Several applications are using ensemble data which is imported using a separate synchlevel (16) to be able to distinct with normal grids. This opens the opportunity to chose to download these ensembles to the client separately (not by default).		
Plugin - Module - Data Import	FEWS-7046	Hessen Time series Import				
Plugin - Module - Transformation	FEWS-7045	Extension of the TransformationModule for the calculation of the length of single events as time-series with the same time-step as the original time-series.				
Plugin - Module - Data Export, Plugin - Module - Data Import	FEWS-7038	FEWS-6472 Import en Export van UM Aquo CSV				
	FEWS-6999	FEWS-6512 Add workflow ID to event code of log message when workflow has successfully completed	Added log message with event code which includes workflow ID when a workflow has successfully completed	Added log messaged for a successfully completed taskrun in to the MasterController TaskManager with event code <code>{{"TASKRUN:Complete."+workflowId}}</code> , so e.g. <code>{{"TASKRUN:Complete.ImportExternal"}}</code> With log type MC (=0), so not visible in / synchronised to an OC. These can e.g. be used to trigger other tasks via an event-action configuration.		
Plugin - Module - Data Import	FEWS-6998	Implement parameter-unit specific conversion options using qualifiers (like UMAQUO import) into WQCSV Import	Import WQ-Csv using UmAquo parser + validation	<pre><?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 WQ CSV data from an import directory --> <import> <general> <!-- Class name of WQ CSV parser is same as UmAquo CSV parser --> <parserClassName>nl.deltares.umaquo.timeseriesparsers.UmAquoCsvTim eSeriesParser</parserClassName> <!-- Path to directory containing UmAquo libraries and schemas. If omitted then the content of the umaquo-bin can be placed in the FEWS-bin dir --> <binDir>%REGION_HOME%/Modules/umaquo-bin</binDir> <!-- Directory from which CSV files are to be imported --> <folder>\$IMPORT_FOLDER\$/WQ/CSV</folder> <failedFolder>\$IMPORT_FAILED_FOLDER\$/WQ/CSV</failedFolder> <backupFolder>\$IMPORT_BACKUP_FOLDER\$/WQ/CSV</backupFolder> <idMapId>IdImportWqCsv</idMapId> <importTimeZone> <timeZoneOffset>+00:00</timeZoneOffset> </importTimeZone> </general> </properties></pre>		
Plugin - Gui - Grid Display, Plugin - Gui - Time Series	FEWS-6959	FEWS-3646 Doubleclick from Spatial Display opens new window				
	FEWS-6943	add ensemble to export NETCDF				




Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Plugin - Module - Data Export	FEWS-6919	FEWS-6151 Netcdf export does not write standard information about the grid mapping (coordinate system)	Changed the export of grid netcdf files from FEWS so that information about the grid mapping is written in the netcdf files when available	<p>Changed the export of grid netcdf files from FEWS so that information about the grid mapping is written in the netcdf files when available. The grid netcdf files exported from FEWS are now fully compliant with the netcdf CF 1.6 convention.</p> <p>See http://cf-pcmdi.llnl.gov/documents/cf-conventions/1.6/cf-conventions.html#grid-mappings-and-projections : When the coordinate variables for a horizontal grid are not longitude and latitude, it is required that the true latitude and longitude coordinates be supplied via the coordinates attribute. If in addition it is desired to describe the mapping between the given coordinate variables and the true latitude and longitude coordinates, the attribute grid_mapping may be used to supply this description.</p> <p>So to make the FEWS grid netcdf export compliant to the CF-1.6 conventions, the following has been changed: - When the x and y projection coordinates are not WGS 84 lat lon, then it adds two extra variables with the true WGS 84 lat lon coordinates that correspond to the x and y projection coordinates.</p>		
Plugin - Module - Data Export	FEWS-6918	FEWS-6151 Make attributes in exported Netcdf files CF compliant	Changed the export of netcdf files from FEWS so that the attributes written in the netcdf files are compliant to the netcdf CF conventions	<p>Made several changes in the export of netcdf files from FEWS so that the attributes written in the netcdf files are compliant to the netcdf CF conventions:</p> <ol style="list-style-type: none">1. the _Fillvalue attribute is now always set to 9.96921e+036f, if not configured.2. if the coordinate values of the data are in the WGS 1984 coordinate system, then the standard names are set to latitude and longitude (was projection_y_coordinate and projection_x_coordinate). This is according to the netcdf CF conventions.3. the units attribute for coordinate variables is now always written, as required by the netcdf CF conventions. <p>These bugfixes might have consequences for other systems that use netcdf files that are exported from FEWS. If so, then those other systems may need to be adapted to the netcdf CF conventions as well. However this is not widely used, so the changes probably only affect FEWS-Noordzee.</p>		
	FEWS-6915	Salto Grande:make creating of modified groups optional	Overwrite parameter values in moduleparameter file when a modifier is made instead of adding groups	<p>When a modifier is made to an module parameter file the modified values are written to the module parameter file in a seperate group. This means that the original values are available in a socalled default group and that the modified values are written to an "modified" group. The drawback of this approach is that the model adapater needs to be able to parse this "modified" group and to construct a module parameter file based on the original values and the modified values. However with a new configuration option it is now possible that the original values are overwritten by the modified values so that the module adapter doesn't need to have to construct a new modified module parameter file.</p>	<pre><moduleParameterModifier id="example" name="example"> <overwriteParameterValues>true</overwriteParameterValues> </moduleParameterModifier></pre>	
Plugin - Gui - Grid Display	FEWS-6913	FEWS-3646 Save *PNG file from griddisplay				
App - Master Controller Server	FEWS-6892	Make DB version check in MC a little more flexible	Made DB version check in SystemMonitor at startup a little more tolerant	Made DB version check in DbSchemaVersionChecker (called by SystemMonitor at startup) a little more tolerant: so e.g. "v2012.01_20120519_13" and "v2012.01_20120519_0" will match. In this way one can fix small things in the DB schema, which don't need an MC update to still run with the same MC build.		

Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Plugin - Gui - Schematic Status Display	FEWS-6884	SSD should show only tabel when timeseriesdisplay is opened, add attribute	Added configuration option to specify whether the graph and/or table are visible in a TimeSeriesDialog/TimeSeriesEditor that can be opened by clicking on an object in the Schematic Status Display.	<p>There are two new configuration options in the Schematic Status Display configuration file in the openDisplay -> timeSeriesDisplay and openDisplay -> timeSeriesEditor elements, called showTable and showGraph. These are optional and can be used to specify whether the graph and/or table are visible in a TimeSeriesDialog/TimeSeriesEditor that is opened when the user clicks on the object for which the openDisplay -> timeSeriesDisplay or openDisplay -> timeSeriesEditor element has been configured.</p> <p>See the schema annotations or wiki documentation (http://publicwiki.deltares.nl/display/FEWSDO/C/15+Schematic+Status+Display+%28former+ly+Scada+Display%29) for more information.</p> <p>Testing: test whether both options work for the values true and false. Also test that the default behaviour (described in the schema annotations) is correct when these options are not configured. Note that the default behaviour is different for timeSeriesDisplay and timeSeriesEditor.</p>	<pre><textComponentBehaviourDefinition> <svgObjectId>EefdeB-1-0-5</svgObjectId> <leftSingleClickAction> <openDisplay> <timeSeriesDisplay> <title>Eefde boven en beneden waterstand</title> <variable> <variableId>input1</variableId> </variable> <variable> <variableId>input2</variableId> <overrulingRelativeViewPeriod unit="day" start="-2" end="0"/> </variable> <showGraph>false</showGraph> <showTable>true</showTable> </timeSeriesDisplay> </openDisplay> </leftSingleClickAction> </textComponentBehaviourDefinition></pre>	
	FEWS-6883	wAM: improve scale bar in explorer map				
Plugin - Module - Data Import	FEWS-6867	Primary validation: make log levels configurable	Log level of validationRuleSets has been made configurable.	By default, the primary validation in Delft-FEWS will generate WARNING log messages whenever data is marked as unreliable. In case of unreliable data feeds, this can cause an excessive number of WARNING messages in the log overview, which subsequently obscure any other WARNING messages generated by the system. To prevent this from happening, the log level of each validationRuleSet has been made configurable. As such, whenever a logLevel is included in the configuration (DEBUG, INFO, ERROR), this log level will overrule the default log level (WARNING) whenever data is marked as unreliable following the exceedance of a validation rule.	<pre><validationRuleSet validationRuleSetId="P.obs.10min" timeZone="0"> <logLevel>DEBUG</logLevel> <extremeValues> <hardMax constantLimit="50"/> </extremeValues> <timeSeriesSet> <moduleInstanceSetId>ImportAll</moduleInstanceSetId> <valueType>scalar</valueType> <parameterId>P.obs</parameterId> <locationSetId>MetGauges</locationSetId> <timeSeriesType>external_historical</timeSeriesType> <timeStep unit="minute" multiplier="10"/> <readWriteMode>add_originals</readWriteMode> </timeSeriesSet> </validationRuleSet></pre>	
Water Coach	FEWS-6865	FEWS-6853 PI Service message determines 'game' mode				
Plugin - Gui - Schematic Status Display	FEWS-6864	New leftSingleClickAction in the scadaDisplay: open PDF document at specified bookmark	Added functionality to open external PDF files and URL's from schematic status display.	The schematic status display has been extended with fuctionality to open an external PDF file at a preconfigured PDF bookmark, following a click action. In a similar way, a web URL can be openen. This option can be configured for each svgObjectld.	<pre><leftSingleClickAction> <openPdfFile> <filename>%REGION_HOME%/example.pdf</filename> <bookmark>chapter_1</bookmark> </openPdfFile> </leftSingleClickAction> <leftSingleClickAction> <openURL> <url>http://deltares.nl/content.html</url> </openURL> </leftSingleClickAction></pre>	
Water Coach	FEWS-6859	FEWS-6853 Selection of log messages (based on EventCode)				

<div>  Delft-FEWS 2012.01 Release - New Features </div>						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Water Coach	FEWS-6855	FEWS-6853 Visibility of Forecast runs	Water Coach / Added option to hide simulated runs after T0	When Fews is used in combination with the WaterCoach, the ForecastDialog will only show forecasts (simulated historical, simulated forecasting) which have simulation time prior to the current system time. The ForecastDialog also takes the watercoachDelay option into account if defined in the WorkflowDescriptors.xml.		
Plugin - Gui - Map	FEWS-6821	FEWS-6472 Gebruik van Geovoorziening WFS lagen	Improved support of WFS and WMS map layers	<p>The FEWS Maps components of the FEWS Explorer and Spatial Display can use WFS and WMS servers to display map layers. The support of WFS and WMS layers has been improved and fully tested for the Dutch Geovoorziening, a Geoserver that hosts map layers for the Waterboards.</p> <p>With the added functionality map layers can be queried on map attributes. In the example below the borders of the "Groot Salland" waterboard is extracted from the inspire:AU.AdministrativeUnit layer. When a WFS map layer is active in the FEWS Explorer the attributes of a selected map feature can be shown as tooltip information, similar to normal map layers.</p> <p>Also WMS layers can be queried on map attribute information using the vendorParameter element.</p>	<p>In the Explorer map section the WFS server can be configured.</p> <pre><serverShapeLayer id="Waterschapsgrenzen"> <connectionId>wfs_geovoorziening</connectionId> <layerId>inspire:AU.AdministrativeUnit</layerId> <attributeTextEqualsConstraint id="naam" equals="Groot Salland"/> <visible>false</visible> <lineColor>black</lineColor> <fillColor>white</fillColor> </serverShapeLayer></pre> <p>And WMS:</p> <pre><wmsLayer id="waterschap" name="Waterschappen"> <url>http://maps.waterschapservices.nl/wms?</url> <wmsLayerName>inspire:AU.AdministrativeUnit</wmsLayerName> <imageFormat>gif</imageFormat> <transparent>true</transparent> <vendorParameter name="cql_filter" value="kbr_id LIKE '%WRO%'"/> <visible>false</visible> <cacheDir>\$MAPCACHES_DIR\$/waterschapmaptiles2</cacheDir> </wmsLayer></pre>	
	FEWS-6820	FEWS-6472 FEWS Explorer moet html pagina opstarten met Location Attribute tag	Use of location attributes in address of HTML pages when started from the FEWS Explorer	Location attributes can be used when starting FEWS Explorer tasks. This can be very usefull when an HTML address contains location characteristics. When opening the URL the exact page can be opened using the default Internet Browser. This feature only works when one location is selected from the FEWS list box of the Data Viewer.	<p>In this example a location has an attribute 'GAFIDENT' that is used in the URL of a Webserver. In the <taskUrl> the attribute must be configured between @ characters.</p> <pre><explorerTask name="Gevalideerde ESF'en"> <mnemonic>L</mnemonic> <taskUrl>\$KRWVSS_WEB\$/portal/#watersysteem/esf-1/aan_afvoergebied/@GAFIDENT@</taskUrl> <toolbarTask>true</toolbarTask> <menubarTask>true</menubarTask> <accelerator>alt E</accelerator> </explorerTask></pre>	
Plugin - Module - General Adapter	FEWS-6819	FEWS-6472 GA moet parameter XML kunnen vullen met Attributes (ook modified)	Module parameter files should be created 'on the fly' based on a template	<p>This enhancement consists of two parts. First part is that it is now possible to refer to an location attribute from an module parameter file. Second part is that the parts of the module parameter are build now in a loop over a configured set of locations. Now the first part will be explained in more detail. For each location it is possible to define socalled attributes. In the moduleParameterFile it is now possible to configure that the value of the parameter should be filled with the value of the location attribute. The syntax used here is @name attribute@.</p> <p>The second part means that for parts for which the looping is enabled a group is created for each location found in a group of locations. In the configuration example below a locationModelLoop is defined for model Bucket and locationSet PumpingStations_3201. If the moduleParameterFile which will be exported here a group in which the model is named Bucket is found the group will be considered a template and for each location found in the locationSet PumpingStations_3201 the group will be repeated in the moduleParameterFile while</p>	<p>Example for using an location attribute in a module parameter file</p> <pre><parameter id="max_outtake" name="Maximum uitlaat capaciteit"> <description>Maximale uitlaat capaciteit voor peilhandhaving [m3/dag]</description> <dblValue>@MAX_UITL@</dblValue> </parameter></pre> <p>Example for dynamicly creating a group by looping over a location set</p> <pre><exportParameterActivity> <fileName>Parameters</fileName> <templateLocationLooping> <locationModelLoop> <locationId>3201</locationId> <model>Area</model> </locationModelLoop> <locationModelLoop> <locationSetId>Grondwatergebied_3201</locationSetId> <model>Bucket</model> </locationModelLoop> <locationModelLoop> <locationSetId>Pumpingstations_3201</locationSetId> <model>PumpingStation</model> </locationModelLoop> </templateLocationLooping> </exportParameterActivity></pre>	
	FEWS-6818	FEWS-6472 Attribute modifier tabel toevoegen aan database				
Plugin - Module - Data Import	FEWS-6763 FEWS-6761	FEWS-6762 Import Inia Add maxValue to report statusShape	Added options addMinValue and addMaxValue in the statusShapeFile element in the reports configuration	Now it is possible to use the option addMinValue and addMaxValue in the statusShapeFile element in the reports configuration. If these options are configured, then extra columns are added to the written status shape file. If addMinValue is true then the minimum reliable or doubtful value of the timeseries is added to the shape file in a column named MIN_VALUE. If addMaxValue is true then the maximum reliable or doubtful value of the timeseries is added to the shape file in a column named MAX_VALUE.	To use these options add one or both of the following lines to the statusShapeFile element in the reports configuration file: <pre><addMinValue>true</addMinValue> <addMaxValue>true</addMaxValue></pre>	

Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
App - Forecasting Shell Server	FEWS-6718	Improve / fasten starting of FSS (takes some 10-20 seconds)				
Plugin - Gui - Time Series	FEWS-6708	FEWS-6512 TSD: allow external forecasting search window to add the official forecasts for multiple previous days to the system	Dynamically search and display (external) forecasts in the TimeSeriesDialog	<p>In the toolbar a new button 'search and select' forecasts is added. In this dialog the user can search for forecasts in a recent period with a maximum of forecasts to be found in a period. Only forecasts which contained timeseries for the timeseries currently displayed in the plot will be displayed. The found timeseries will be displayed in a table. By selecting forecasts and pressing apply or ok the selected forecasts will be shown in the plot. By selecting the option persist selection the selection will persist when selecting another displayed. When for example a search period of 3 days before t0 until t0 is applied then when another plot is selected all forecasts in that period will be displayed.</p> <p>A shortcut for defining which forecasts should be displayed in the plots is offered by the dropdown-menu of the button. When clicking on the arrow at the right of the button a list of options is displayed. The default option is that no selection is made. In the case the current forecasts will be shown. Other options are to show the 1,2,3,4 or 5 most recent forecasts.</p>		
Plugin - Gui - Time Series	FEWS-6705	FEWS-6512 TSD: allow vertical line at timestamp	Filling area between two series with vertical lines	<p>The area between two series can be filled with vertical lines instead of filling with color only.</p> <p>To show the vertical lines, configure solid lineStyle in the <area> element. Also the line width, color and color opaqueness can be customized</p>	<pre> <subplot> <area> <lineStyle>solid</lineStyle> <lineWidth>10</lineWidth> <color>blue</color> <opaquenessPercentage>50</opaquenessPercentage> <timeSeriesSet> <moduleInstanceId>ImportMSW</moduleInstanceId> <valueType>scalar</valueType> <parameterId>Q.m</parameterId> <locationId>H-MS-LUIK</locationId> <locationId>H-MS-SINT</locationId> <timeSeriesType>external historical</timeSeriesType> <timeStep unit="hour"/> <relativeViewPeriod unit="day" start="-2" end="0"/> <readWriteMode>read only</readWriteMode> </timeSeriesSet> </area> </subplot> </pre>	
Plugin - Module - General Adapter	FEWS-6660	FEWS-6664 ImportStateActivity of large state file (swan model) causes OutOfMemoryError: Java Heap Space				
Plugin - Module - General Adapter	FEWS-6644	FEWS-7074 model states in historical (long) ensemble runs				
App - Operator Client Gui, Plugin - Gui - Map	FEWS-6643	WMS layers in Maps are jpg, should also support GIF	WMS layers can be downloaded as JPG, GIF and PNG file formats	WMS layers can be added to the map layers of the FEWS Explorer and Spatial Display. The layers will be downloaded as image format from the WMS server; formats can be JPG, GIF and PNG. In the FEWS configuration the image format can be set, as well as the option to make the image transparent. Only GIF and PNG formats can be transparent, the difference between these two is that PNG can contain more than 256 colours.	The Explorer.xml can have the following map layer configured: <pre> <wmsLayers> <connectionId>WMS_Connection</connectionId> <imageFormat>gif</imageFormat> <transparent>true</transparent> </wmsLayers> </pre>	
	FEWS-6564	new import EASE grids				
Plugin - Gui - Time Series	FEWS-6514	FEWS-6512 Historical analysis plot: allow multiple leading timeseries				
Plugin - Module - Data Import	FEWS-6513	FEWS-7410 BPA Import from Plant-Hydro webservice				
Plugin - Gui - Time Series	FEWS-6511	FEWS-6366 PCA plot: add info button/panel with details				
App - Master Controller Server	FEWS-6446	Refactor MCRestarter class and create unit tests	Refactored MCRestarter to remove some static methods and create unit tests.	Refactored MCRestarter to remove some static methods and create unit tests.		

<div>  Delft-FEWS 2012.01 Release - New Features </div>						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
Configuration, Database	FEWS-6427	FEWS-6422 Support of Locations in Configuration Tables	Reading locations from a table is no longer limited to dbase IV files and can now be read from any database	Locations can now be read directly from a oracle / postgresql / sqlserver database	<pre> <locationSet id="Noordzee"> <description>table containing all location information</description> <table> <databaseServer> <dbServerType>oracle</dbServerType> <dbServerName>oracle</dbServerName> <dbServerPort>1521</dbServerPort> <dbInstanceName>test</dbInstanceName> <dbInstanceUser>test</dbInstanceUser> <dbInstanceEncryptedPassword>P40abQI=</dbInstanceEncryptedPassword> </databaseServer> <name>Noordzee_data</name> <geoDatum>WGS_1984</geoDatum> <id>%ID%</id> <name>%NAME%</name> <description>%NAME%</description> <shortName>%NAME%</shortName> <toolTip>%NAME% T0:%FORECAST_START_TIME%; maximum:%MAXIMUM_VALUE%; max_tijdstip:%MAXIMUM_VALUE_TIME%</toolTip> <x>%X%</x> <y>%Y%</y> <attribute id="EXTLOCID"> <description>Externe Locatie ID</description> <text>%NAME%</text> </attribute> <attribute id="MATROOS_SRC"> <description>Display selector</description> <text>%MATR_SRC%</text> </attribute> </table> </locationSet> </pre>	
Database	FEWS-6426	FEWS-6421 Implement Samples table				
Configuration, Database	FEWS-6425	FEWS-6422 Implement Filters table				
Database	FEWS-6424	FEWS-6421 Test/Implement connection to Oracle				
Database	FEWS-6423	FEWS-6421 Test/Implement connection to MS SQL Server				
Database	FEWS-6420	FEWS-5220 Internal handling of temporary timeseries				
Database, System - Synchronisation	FEWS-6419	FEWS-5220 Caching of LocalRuns information				
Database	FEWS-6413	FEWS-5220 Implementation/support for MS SQL Server				
	FEWS-6395	FEWS-6151 Closest distance is too slow for large irregular grids	Add a searchRadius and a distanceGeoDatum to the closestDistance transformation to speed up the spatial interpolation.	Add a searchRadius and a distanceGeoDatum to the closestDistance transformation to speed up the spatial interpolation.	<pre> TransformSomething.xml <transformation id="TransformSwanGridWaterlevel"> <interpolationSpatial> <closestDistance> <inputVariable> <variableId>Hin</variableId> </inputVariable> <searchRadius>100</searchRadius> <distanceGeoDatum>UTM31N</distanceGeoDatum> <outputVariable> <variableId>Hout</variableId> </outputVariable> </closestDistance> </interpolationSpatial> </transformation> </pre>	
Plugin - Gui - Time Series	FEWS-6377	FEWS-6512 PCA scatter plot: add confidence bands				
Database	FEWS-6286	Enable setting of CURRENT_SCHEMA in rollback_update scripts after branch for 2011.02 has been made				
Plugin - Gui - Time Series Modifier	FEWS-6228	new functionality Modifier Display: show reference timeseries (observations)				

Delft-FEWS 2012.01 Release - New Features						
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Config Example	Screendump
	FEWS-6205	FEWS-5806 Logentries in ArchiveServer	Achiving selected log messages the users are interested in	<p>For Water Coach purposes archiving and extended filtering of log messages is available.</p> <p>This functionality includes:</p> <ul style="list-style-type: none"> -inserting (retrospectively) extended manual messages, -archiving selected log messages the users are interested in, and -downloading archived messages and filtering them from the other messages. <p>The collected and filtered log messages can be used to build Water Coach game.</p> <p>Use constraints to select log messages that should be archived.</p> <p>A log message will be archived when its event code is configured as logEventContstraint option and/or the log message text contains the specified messageText configured as logEventConstraint option.</p> <p>How to configure archiving log messages : Create ArchiveRun module with export task LogEntriesArchive and include it in an archiving workflow. Log messages are archived by (periodically) running this archiving workflow</p> <p>Use constraints to select log messages that should be archived. A log message will be archived if its event code is configured as</p>	<p>ArchiveRun configuration:</p> <pre><exportArchiveRun> <archivePeriod start="-2" end="0" unit="day"/> <archiveType>LogEntriesArchive</archiveType> <logEventConstraint eventCode="Manual."/> <logEventConstraint eventCode="Validation.HardLimit"/> <logEventConstraint eventCode="Validation.SoftLimit" messageText="at Lobith"/> <logEventConstraint eventCode="Workflow.ActivityStarted" messageText="Workflow 'Rijntakken_Forecast'"/> <logEventConstraint eventCode="Workflow.ActivityCompleted" messageText="Workflow 'Rijntakken_Forecast'"/> </exportArchiveRun> {code}</pre> <p>ArchiveDialog configuration</p> <pre>{code:xml} <archiveTask name="Log Entries" workflowId="Import_Archive_LogEntries" iconName="icons/LookUpTable.gif" queryServiceUrl="\$ARCHIVE_SERVER_URL\$" > <archiveRun> <importDirectory>\$ARCHIVE_IMPORT_PATH\$</importDirectory> <importArchiveRun> <archiveType>LogEntriesArchive</archiveType> </importArchiveRun> </archiveRun> </archiveTask></pre>	
Plugin - Gui - Grid Display	FEWS-6178	FEWS-6175 Refactor Spatial Display				
	FEWS-5987	FEWS-5651 TimeSeriesEditor difference in colour between editable (white) and non-editable (grey) is not always clearly visible.				
Plugin - Gui - Schematic Status Display	FEWS-5232	FEWS-3797 Mogelijkheid om door te klikken naar shortcut uit displaygroup	Possible to click to open to display plot in shortcut tree	<p>Added possibility to open timeseriesdialog at a pre configured display in the shortcuts tree.</p> <p>In the scada configuration you must configure a display item instead of a variable. The display item must consist of a valid displayName and displayName. It is optional to add an overrulingRelativeViewPeriod.</p> <p>Note the overrulingRelativeViewPeriod is overruled if a relativeViewPeriod has been configured for the display in the DisplayGroups file.</p>	<pre><leftSingleClickAction> <openDisplay> <timeSeriesDisplay> <title>Afvoer RG Numansdorp Noord</title> <display> <displayGroupName>Gemalen</displayGroupName> <displayName>De Boezemloozende Strijen-sas</displayName> <overrulingRelativeViewPeriod unit="day" start="-5" end="0"/> </display> </timeSeriesDisplay> </openDisplay> </leftSingleClickAction></pre>	
System	FEWS-4488	FEWS-4832 Enabling https in JBoss 5 / JBoss 6 / HornetQ Standalone				
System	FEWS-4487	FEWS-4832 Create a minimal deployment configuration for JBoss 6				
Plugin - Module - Data Export	FEWS-3609	Export of netcdf-cf should allow standard names given by configuration	Export to netcdf-cdf also exports standard names to NetCDF file variables if these are configured in parameters.xml file	<p>In the parameters.xml configuration a standard name can be added to the parameter with the new tag <standardName>.</p> <p>The configured <standardName> should match one of the standard names available in cf-standard-name-table.xml. This tabel is in Delft_Util.jar (also see attachment)</p> <p>The NETCDF-CF_* serializers will export the "standard name" for each variable which have a standard name configured for the corresponding parameter.</p> <p>If there is no matching name found in the cf-standard-name-table.xml, Fews will produce the following error:</p> <p>Config.Error: Unknown standard name given for parameter id in config file.....</p>	<p>Schema: parameters.xsd</p> <pre><parameterGroup id="Water Level"> <parameterType>instantaneous</parameterType> <unit>m</unit> <parameter id="H.m" name="Measured Discharge"> <shortName>H.m</shortName> <standardName>water_surface_height_above_reference_datum</standardName> </parameter> </parameterGroup></pre>	
	FEWS-2491	FEWS-6472 UMAquo XML import en Export				