

What is new in Delft-FEWS 2018.02

 Delft-FEWS 2018.02 Solved Features							
Component/s	Key	Summary	Release Note Text	Release Note Text Description	Link to Documentation	Config Example	
App - Admin Web User Interface	FEWS - 20152	Migrate Scheduling and Mapping settings to 2018.02					
App - Admin Web User Interface, System	FEWS - 16778	FEWS-18477 Orchestrator - Expansion of existing FSS workflow mapping semantics (A. 2)					
App - Admin Web User Interface	FEWS - 19593	FEWS-17874 Naming of Clear Caches			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++System+Control		
App - Admin Web User Interface	FEWS - 19588	FEWS-17874 Maintenance Mode cannot be handled on login screen anymore			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++System+Control		
App - Admin Web User Interface	FEWS - 17878	FEWS-17874 A I : Download option for Action Configuration			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++Workflow+and+FSSs		
App - Admin Web User Interface	FEWS - 17877	FEWS-17874 A I : Download option for Event Action Mappings			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++Workflow+and+FSSs		

App - Admin Web User Interface	FEWS - S - 14914	FEWS-17874 A I : Verification of the Event Action setup via Admin Interface.			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS - S - 20799	A d d additional column to the Forecasting Shell Servers tab: current run workflow ID					
App - Admin Web User Interface	FEWS - S - 16852	A d m i n Interface: button to cancel all scheduled tasks	All scheduled tasks can be removed now	All scheduled tasks can be removed now			
App - Admin Web User Interface	FEWS - S - 15958	FEWS-9556 R W s O S Algemeen - M161016479\ 0 1 : suggestions f o r improvements A I 1					

App - Admin Web User Interface	FEW S - 21170	Add option to create own password for Admin Interface					
App - Admin Web User Interface	FEW S - 20866	Improvement o f Information texts in AI					
App - Admin Web User Interface	FEW S - 20818	C a s e insensitive login AI					
App - Admin Web User Interface	FEW S - 20496	FEWS-18050 A I : Scheduled Tasks page - show taskruns after clicking workflow name (left column)					

App - Admin Web User Interface	FEWS - 20486	AI: Improve wording/explanation for Scheduled Task - Run Options					
App - Admin Web User Interface	FEWS - 20623	AI: Download of FSS Group mappings results in a incorrect file	Mappings of deleted FSS Groups were not taken into account	Mappings of deleted FSS Groups were not taken into account			
App - Admin Web User Interface	FEWS - 20624	AI: Deleting of Failover priorities does not work					
App - Admin Web User Interface	FEWS - 19658	FEWS-17874 Schedule Task select TAG from dropdown list		A tag dropdown list is displayed if an tags are configured in the action configuration.	https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++Workflow+and+FSSs		
App - Admin Web User Interface	FEWS - 20225	AI: add name of running task in dashboard	Currently running tasks now visible in status page	On the status display in the FSS list that currently running workflow on an FSS is displayed.			
App - Admin Web User Interface	FEWS - 20026	FEWS-19650 Admin Interface should keep session alive					
App - Admin Web User Interface	FEWS - 19949	FEWS-17874 Add support for uploading Config Manager Patch			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface++Configuration+Management		

App - Admin Web User Interface	FEWS-19650 AI laat FSS'en zien die niet meer bestaan					
App - Admin Web User Interface	FEWS-19650 AI: Show Pending Tasks in Dashboard	pending and running tasks visible on status page	Both the number of pending and running tasks are visible in the admin interface.			
App - Admin Web User Interface	FSS group cannot be removed if used by a FSS once					
App - Admin Web User Interface	FEWS-19650 Add Documentation Menu entries to Wiki and API documentation in admin interface					
App - Admin Web User Interface	AI: Examples of using the REST interface for querying status information					
App - Admin Web User Interface	FEWS-17874 Create Authorization Matrix	Matrix created.	Matrix created.			
App - Admin Web User Interface	FEWS-17874 Incorporate Tomcat 9 for Admin Interface Developments					

App - Admin Web User Interface	FEWS - 17824	FEWS-17874 AI: Workflow mappings [all one-at-a-time] with FSS Groups (TVA)			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS - 17914	In roadmap, add functionality to REST webservice to retrieve log information	Admin Interface API	With the admin interface api it is now possible to get logs, workflow meta data information etc. Almost all functionality of the Admin Interface is exposed as an API.			
App - Admin Web User Interface	FEWS - 15852	FEWS-17266 AI: filter off the one-off tasks from the "Scheduled Task" section	Filter off the one-off tasks from the "Scheduled Task" section in AI	Filter off the one-off tasks from the "Scheduled Task" section in AI can be toggled. By default on-off tasks will be hidden. The settings will be stored in the local storage of the browser (not a cookie). As long as you use the same browser, the setting will be remembered.	https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Forecast+Tasks		

App - Admin Web User Interface	FEWS - 15704	FEWS-17874 Button to remove all workflow F S S mappings on Admin Interface	Remove all Workflow mappings	All workflow mappings can be removed. During upload a checkbox is available as well that allows you to remove all existing mappings as well.	https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Interface+-+Workflow+and+FSSs		
App - Admin Web User Interface	FEWS - 13263	FEWS-18957 N W S : #23347 (FB93) Restrict User Access and Permissions to Administrator Interface					
App - Archive	FEWS - 18910	Allow exporting more than 1 LDS snapshot per day in OpenArchive export		It is now possible to export more than 1 snapshot day to the archive.		use the element <code><allowMultipleDailyExports></code> to enable exporting multiple snapshots a day to the archive.	
App Configuration Manager Gui	FEWS - 19643	FEWS-18245 CM should consistently do file diff / compare: old version left, new version right			https://public.wiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02		
App Configuration Manager Gui	FEWS - 19642	FEWS-18245 CM should import automatically complete config			https://public.wiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02		
App Configuration Manager Gui	FEWS - 19359	FEWS-18957 N W S : #24358 Integrate - prevent_deletion Option Directly Into CM			https://public.wiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02		

App Configuration Manager Gui	- FEWS - 15086	FEWS-18957 N W S : #23445 (FB191) Implement C M Permission System to Restrict User Access to Operational Configuration			https://public.wiki.deltares.nl/display/FEWSDOC/20.2+Configuration+Manager+-+from+2017.02		
App Configuration Manager Gui	- FEWS - 20123	FEWS-19650 FFFS: User ID should have Operator Client or Configuration Manager Info attached	Live system status monitor: users logged in now, shows user id + session type (OC, CM, FS etc.)				
App - Data Conversion Module	- FEWS - 18144	DCM Export: MeteoAlarm (CAP format)	MeteoAlarm Cap export	MeteoAlarm Cap export generates cap files to folder and posts them to SOAP servicew.	https://public.wiki.deltares.nl/display/FEWSDOC/MeteoAlarmCap		
App Forecasting Shell Server	- FEWS - 20007	FEWS-19650 Create Windows Service for FSSLauncher					
App Forecasting Shell Server	- FEWS - 16783	FEWS-18451 Simplified operation of Delft-FEWS FewsShell component (B.2.A)					
App Forecasting Shell Server	- FEWS - 16782	Simplified deployment of Delft-FEWS Forecasting Shell Servers (B.2)					

App Forecasting Shell Server	- FEWS - 20345	FEWS-19650 Number of FSSs in ready state don't match the number in the FSS group					
App Forecasting Shell Server	- FEWS - 20196	FEWS-19650 FSS should be able to belong to different groups	Map or unmap all workflows for a FSS Group	In the workflow mapping matrix the headers now contain a checkbox that can be used to map or unmap all filtered workflows for a FSS group.			
App - Master Controller Server, System Synchronisation	FEWS - 20260	FEWS-10616 TVA: request to disable synchronisation of config in MC-MC synch				<pre> {code} <remotemc mcid=" roadmapmc01 " > <database ...> < /database> <mcSynchroni sation> <recordtype type="Config" > <modifier> <synchlevel level="99"/> < /modifier> < /recordtype> < /mcSynchroni sation> < /remotemc> {code} </pre>	
App - Master Controller Server	FEWS - 17386	FEWS-17996 TVA: Request to not automatically run tasks on primary system when a failover is triggered					

App - Master Controller Server	FEWS - 19242	FEWS-18957 NEWS: #45852 Events Codes should contain specific details to take appropriate action	Add mc id to SYSLOG event codes	There are several SYSLOG event codes which can occur in FEWS, like "SYSLOG.RemoteMCLost" and "SYSLOG.McSynchSuspended" etc. The log message for these events would already include the mcId. These mcId's have now been added to the event codes. For example: "SYSLOG.RemoteMCLost.<mcId>" and "SYSLOG.McSynchSuspended.<sourceMcId>.<destinationMcId>"	https://public.wiki.deltares.nl/display/FEWSDOC/Admin+Interface+-System+Status+-Event+Codes		
App Forecasting Shell Server, App - Master Controller Server	FEWS - 20143	FEWS-18469 Prevent simultaneous runs for certain workflows (import, update runs and amalgamate) - rollback					
App Operator Client Gui (Explorer)	FEWS - 20124	FEWS-19650 FFFS: When uploading a new Patch.jar the OC has an incomplete message					
App Operator Client Gui (Explorer)	FEWS - 18669	FEWS-18445 Create icon for locations not existing at system time					

App Operator Client (Explorer)	- FEWS - S - Gui 18973	FEWS-18957 NWS: #45907 Ability to adjust only plot axis font size via Explorer Options					
--------------------------------	------------------------	--	--	--	--	--	--

<p>App Operator Client Gui (Explorer)</p>	<p>- FEWS - S - 17298</p>	<p>Filters take precedence over linked displaygroup plots in topology</p>	<p>Add enableAutoClearParameters config option to Topology.xml</p>	<p>When a filter is configured for a topology node, that filter will be automatically selected when the node is selected. By default, when selecting a filter this way the parameter selection will stay the same, if the selected parameters are present in the new filter, they will remain selected. There was already a config option present to enable FEWS to automatically select all parameters in the new filter (<enableAutoSelectParameters>). An additional config option has been added to enable FEWS to automatically clear the parameter selection (<enableAutoClearParameters>) when the a new topology node is selected for which a filter is configured.</p>	<p>https://public.wiki.deltares.nl/display/FEWSDOC/24+Topology+id-24Topology-Interactionwithotherdisplays</p>		
---	---	---	--	---	--	--	--

App Operator Client Gui (Explorer), Plugin - Gui - Time Series Modifier	-FEWS - S - 18963	FEWS-18957 N W S : #32929 Ability to maintain local modifiers when using DDA	Saving uncommitted modifiers when using DDA OC	Uncommitted modifiers are stored in the database when using OC. When you are exiting an OC session, you can choose between keeping the uncommitted modifiers in the database or deleting them . When OC crashes, t h e uncommitted modifiers are not lost since they are available in the database.			
App Operator Client Gui (Explorer), System	-FEWS - S - 19455	Make FEWS look more modern (no borders, use soft colors as background)					
App Operator Client Gui (Explorer)	-FEWS - S - 16781	FEWS-18469 Delft-FEWS-OC-Launcher B . 1 - Simplified deployment of Operator Client - Client software wrapper					
App Operator Client Gui (Explorer), Plugin - Gui - Grid Display	-FEWS - S - 19106	A d d copyright statements to a maplayers	A d d copyright statements to a maplayers		https://public.wiki.deltares.nl/display/FEWSDOC/28+GeoMap#id-28GeoMap-openStreetMapLayer		
App TeamCity	-FEWS - S - 19969	FEWS-19650 Basebuild jre packaging should be part of teamcity build proces					
Configuration, Database	FEWS - S - 18258	Store and use external meteo forecast time: forecastTimeReferences				{ code: xml title=ForecastLengthEstimator} <?xml version="1.0" encoding="	

```
UTF-8"?>
<forecastLengthEstimator
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
/forecastLengthEstimator.
xsd">
<findLatestCommonExternalForecastTime
externalForecastTimeId="
test">
<eventCodeOnChange>forecast.
newReference
<
/eventCodeOnChange>
<dataFeed
id="
dataFeed1">
<timeSeriesSet
>
<moduleInstanceId>test1<
/moduleInstanceId>
<valueType>scalar<
/valueType>
<parameterId>
par<
/parameterId>
<locationId>loc
<
/locationId>
<timeSeriesType>external
forecasting<
/timeSeriesType
>
<timeStep
unit="hour"/>
```

```
<readWriteMode>read only</readWriteMode>
</timeSeriesSet>
</dataFeed>
<dataFeed id = "dataFeed2">
  <timeSeriesSet >
    <moduleId>test2</moduleId>
    <valueType>scalar</valueType>
    <parameterId>par</parameterId>
    <locationId>loc</locationId>
    <timeSeriesType>external forecasting</timeSeriesType>
    <timeStep unit="hour"/>
    <readWriteMode>read only</readWriteMode>
  </timeSeriesSet>
</dataFeed>
</findLatestCommonExternalForecastTime>
</forecastLengthEstimator>
{code} {code:xml|title=TimeSeriesExport}
<general>
  <exportType>PI 1.5</exportType>
</folder>..
/junit_test_output/nl/wldelft/fews/system/plugin/dataExport/TimeSeriesExportTest/exportPiExternalForecastTi
```

```
meId/export<
/folder>
<exportFileNa
me >
<name>rainfal
lPiExternalFor
ecastTimeId.
xml</name> <
/exportFileNa
me >
<idMapId>Tel
emetry<
/idMapId>
<unitConversi
onsId>UnitCo
nversions<
/unitConversio
n s I d >
<flagConversi
onsId>FlagCo
nversions<
/flagConversio
n s I d >
<exportMissin
gValueString>
-999.0<
/exportMissin
gValueString>
<externalFore
castTimeId>te
s t <
/externalForec
astTimeId> <
/general>
{code} {code:
xml|title=Time
Series in
workflow
after forecast
length
estimator}
<timeSeriesSe
t >
<moduleInsta
nceId>Import
TMSI<
/moduleInstan
ce I d >
<valueType>s
c a l a r <
/valueType>
<parameterId>
P <
/parameterId>
<locationId>R
a i n 9 3 <
/locationId>
<timeSeriesTy
pe>external
forecasting<
/timeSeriesTy
p e >
```


						<pre> <timeStep unit="minute" multiplier=" 10"/> <externalFore castTimeId>te s t < /externalForec astTimeId> <readWriteMo de>read complete forecast< /readWriteMo de > < /timeSeriesSet > {code} </pre>
Configuration	FEWS - 19306	Samenhang workflows: Configuratie workflow dependencies	Forecast Management and displaying workflow dependencies	In Forecast Management display a new tab 'Workflow schema' can be opened, to see the workflows that have been involved to create a forecast. The "Workflow schema" tab can be opened from the tab 'Forecast Overview' or from the tab 'Current Forecasts' by selecting a forecast, opening popup menu and selecting menu 'Workflow Schema Ctrl+S'. See picture ForecastManagerPopupMenu.png The "Workflow schema" tab will be added to the Forecast Management and will show the workflow associate with the selected	https://public.wiki.deltares.nl/display/FEWSDOC/Workflow+Navigators	

forecast, and all input workflows that have generated input for that forecast. See picture ForecastManagerWorkflowSchemaTab.png Each rectangle represents a workflow . The rectangle is green when the workflow has generated any data. Otherwise the rectangle is gray. To see the time series used in a workflow, select a workflow rectangle, open popup menu and select 'Open Workflow Navigator'. The WorkflowNavigator will show the selected workflow. Use the WorkflowNavigator popup menu to display the timeseries that are associated with the forecast that has been selected in the Forecast Management display. Please note that WokflowNavigator should be opened (from the explorer tool

				<p>/menu bar or loaded at startup) to be able to use it from WorkflowSchema tab. The workflow dependencies must be configured in WorkflowDescriptors.xml, with an element 'inputWorkflowId', for example : <pre>{code:xml} <workflowDescriptor id="TransformationMergeSimple" name="Merge" forecast="true" visible="true" autoApprove="true"> <inputWorkflowId>Import1</inputWorkflowId> <inputWorkflowId>Import2</inputWorkflowId> </workflowDescriptor> {code}</pre> inputWorkflowId's can be configured only for a workflow you need to analyze.</p>			
Configuration	FEWS - 19733	FEWS-14299 Allow configuration of rating curve parameters in combination with parameters.csv					

Configuration	FEWS - 16983	client.truststore improvements	client.truststore can no longer be configured in the clientConfig.xml	The clientConfig.xml could be configured in 2017.02. Due to cloud requirements it is no longer feasible to support this feature.	https://public.wiki.deltares.nl/display/FEWSDOC/How+to+configure+secure+https+connection+to+Matroos		
Database	FEWS - 18257	FEWS-18469 Save user settings in central database			https://public.wiki.deltares.nl/display/FEWSDOC/The+F12+menu		

Database	FEWS-19650 S - 20097	FEWS-19650 SystemMetrics depends on view that no longer exist.	See https://public.wiki.deltares.nl/display/FEWSDOC/27+SystemMetrics	The significant changes on the Delft-FEWS architecture for the 2018.02 roadmaps has rendered the FssStatus section meaningless. In below configuration examples it is documented, which configuration elements have been removed from 2018.02 (see "no longer present in 2018.02 and later" comments on this page). In 2018.02 and later, please remove the following elements from the SystemMetrics module configuration file (parameters and filters should probably cleaned up as well) otherwise errors will be logged: <buildVersion ParameterId> M.N.build< /buildVersion ParameterId> <queueLength ParameterId> M.N.fsQL< /queueLength ParameterId> <downParameterId>M.N. fsDown< /downParameterId>			
----------	----------------------------	---	--	--	--	--	--

Database	FEWS - 19553	FEWS-13318 HyFS: Make database field for location attribute text modifiers 2000 characters long					
Database	FEWS - 19324	Make locationAttributeModifiers text 128 characters instead of 64					
Database	FEWS - 19779	FEWS-19403 Improve timeseries blob compression for millisecond time series	Support of milliseconds timestep	The nonequistant timestep is now also able to store times with precision up to the milliseconds. The TimeSeriesDisplay automatically displays milliseconds when relevant. To import nonequistant milliseconds with for example the generalCSV importer, simply define a dateTimePattern like {{<dateTimePattern>dd-MM-yyyy HH:mm:ss.SSS</dateTimePattern>}}, where the .SSS represent the milliseconds.			

Database	FEWS - 18465	New MS SQL Server database driver	2018.02 new sqlserver jdbc url	<p>The 2018.02 is shipped with the mssql-jdbc-7.0.0.jre10.jar jdbc driver and the jtcs driver from previous versions is no longer supported. When using SQLServer and migrating to 2018.02 or later, note that the all sqlserver jdbc url's in clientConfig.xml / fews.master.mc.conf must be specified using the format of the mssql driver . See also https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url and https://docs.microsoft.com/en-us/sql/connect/jdbc/setting-the-connection-properties for building the connection string and advanced authentication options. The new format is: jdbc:sqlserver://<hostname>:<port>;DatabaseName=<db></p>			
----------	--------------	-----------------------------------	--------------------------------	---	--	--	--

Debug Tool - Database Viewer	FEWS - 20020	FEWS-19650 DatabaseView er: add column FSSGroupID in upper overview	DatabaseView er: added column FSSGroupID in upper overview				
Debug Tool - Workflow Navigator	FEWS - 19308	Samenhang workflows: Use dependencies of workflows in workflow navigator	WorkflowNav igator and displaying time series of the specific forecast	<p>Apart from the current time series, the WorkflowNav igator (WFN) can also show the time series of the specific forecast . The forecasts to inspect should be selected in ForecastMan ager list or in the WorkflowSch ema tab of the ForecastMan ager . The following steps describe how to show the time series of the specific forecast in WFN (see OpenWFNFro mForecastMan ager.png) - open WFN (should be configured in Explorer.xml as explorerTask) - open ForecastMan ager , select a forecast and use forecast popup menu 'Workflow Navigator' And the following steps describe how to show the time series of the specific forecast</p>	https://public.wiki.deltares.nl/display/FEWSDOC/Workflow+Navigator		

				<p>selected in WorkSchema tab : - open WFN (should be configured in Explorer.xml as explorerTask) - open ForecastManager , select a forecast and use forecast popup menu to open WorkflowSchema tab - select a workflow rectangle and use rectangle popup menu to open the WFN (see picture ForecastManagementWorkflowSchemaPopup.png) - in WFN select a workflow or module and use WFN popup menu to display the time series (see WFN.png) - the displayed time series are associated with the forecast selected in ForecastManager WorkflowNavigator and displaying time series of the specific forecast</p>			
Module Adapter - All	FEWS - 19443	Check compatibility all FEWS adapters with Java 11					

Module Adapter - All	FEWS - 20342	Add property to WES PreAdapter			https://public.wiki.deltares.nl/display/FEWSDOC/WES+adapter		
Module Adapter - All	FEWS - 20490	FEWS-20489 Improve WISKI adapter (header)			https://public.wiki.deltares.nl/display/FEWSDOC/NoeWiskiTimeSeriesSerializer		
Module Adapter - Calibration, Plugin - Module Modifiers (ModuleParameters)	FEWS - 18967	FEWS-18957 NWS: #24409 "Preserve ratio/difference" button does not stay unchecked (calibration)		The user can select in the calibration modifier if the ratio/difference between parameters should be preserved. It is also possible to select per parameter if the ratio, difference or that no relation should be preserved. Prior to this release the settings were lost after pressing the apply-button. The settings are now stored into memory so that during the FEWS session the settings are still available.			
Module Adapter - DFlow-FM	FEWS - 19724	Merge DIMR and D-Flow FM Adapter			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter - DIMR	FEWS - 19788	FEWS-19724 Ad PI xml time series export files to netcdf run file			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		

Module Adapter DIMR	FEWS - S - 19777	FEWS-19724 Implement functionality for piTimeSeries AsBin string property			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter DIMR	FEWS - S - 19778	FEWS-19724 Add test case for editing RTC files			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter DIMR	FEWS - S - 19769	FEWS-19724 Add D-Flow FM adapter functionality to DIMR adapter (test case mackay)			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter DIMR	FEWS - S - 19730	FEWS-19724 Add dimrConfig schema and castor build to Dimr Adapter			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Module Adapter DIMR	FEWS - S - 19725	FEWS-19724 Create generic DIMR classes next to Sobek3 classes			https://public.wiki.deltares.nl/display/FEWSDOC/Delft-FEWS-DIMR-adapter		
Plugin - Gui - Forecast Manager	FEWS - S - 19305	Samenhang workflows: Forecast manager log panel	Ability to show the log messages for a workflow selected in Forecast Display	To show the log-message only for a particular workflow, select a workflow in Forecast Display and enter "ctrl L", or choose "Show in Log Browser" from popup menu (right mouse click) Log Brouwer becomes visible and shows log-messages corresponding to the selected workflow.	https://public.wiki.deltares.nl/display/FEWSDOC/Workflow+Navigato		

Plugin - Gui - Forecast Manager	FEWS - S - 18969	FEWS-18957 NWS: #24072 Add ability to see selected run state in Forecast Management hover	Displaying actual used state times in the Forecast Management tooltip	When the individual GeneralAdpter modules contain cold or warm state search periods, then the forecast tooltip shows the earliest and the latest exported state time. An example of this tooltip is shown in the picture ForecastManagementTooltip.png To be able to show the actual used state times, the earliest and the latest exported state time is stored in TaskRunProperties.xml. To inspect the task run properties of a forecast, select a forecast in Database Viewer and use F12-> 6 Open task run properties			
---------------------------------	----------------------------------	---	---	--	--	--	--

Plugin - Gui - Grid Display	FEWS-9563 S - 20868	FEWS-9563 FOEN: Option in Spatial display to show less decimals in values on map	Add option in spatial display to decrease number of decimals in labels	Adds two menu items to the label drop down menu in the spatial display. One to increase and one to decrease the number of decimals shown in the labels and tooltips. If a user has used these buttons to decrease the number of decimals, this will be stored in the user settings. This setting is stored separately for each parameter group. The number of decimals can never be increased to more than the resolution with which the values are stored (the configured value resolution of the parameter group).			
Plugin - Gui - Grid Display	FEWS-20489 S - 20430	FEWS-20489 Allow TimeZone toggle on Spatial Display		Again assigned to Onno as he is mentioned in contract. If assigned to someone else then please let me know as this will require a contract change to allow costs to be billed to project.			

Plugin - Gui - Grid Display	FEWS - 17736	FEWS-17689 T V A Hydrothermal: Extend vertical slider bar for Delft3D-FLOW or D-Flow FM grids from Sigma layers to Z layers					
Plugin - Gui - Grid Display	FEWS - 20859	FEWS-9563 FOEN: Add aggregation timestep in time label of spatial display					
Plugin - Gui - Grid Display	FEWS - 19513	FEWS-18387 Add label to Spatial Display Tooltip	Added label to Spatial Display Tooltip		https://public.wiki.deltares.nl/display/FEWSDOC/01+Grid+Display		
Plugin - GUI - IFD - Forecasts	FEWS - 17008	FEWS-16132 HERMES: FB 95-TFS48635 Make the ST Planning study have a variable start time.		It is now possible to set the time zero of a run by using a modifier, that can be picked up by a forecastLength Estimator module. This new shiftDateTime Modifier reads the dateTime from a single dateTime location attribute. A			

default
modifierTime
can be
configured in
this modifier
to
automatically
set the time to
the desired
hour at the
current day,
or at an offset
of the current
day. In
addition, the
value of the
defined
dateTime can
be shown in a
custom label
in the forecast
panel. The
forecastLength
Estimator
module reads
the (modified)
dateTime
using a new
option called
setToModified
DateTimeAttri
buteValueCo
mplexType. If
the value is
not modified
a default
fallback value
will be used,
similar to
configured in
the
ShiftDateTime
Modifier.
More info
about the
ShiftDateTime
Modifier can
be found here:
<https://publicwiki.deltares.nl/display/FEWSDOC/25+ModifierTypes+Config>
Example:
{ color:
#59afe1 }
<attributeMod
ifiers>
<shiftDateTim
eModifier id="StartRun_STP

```
lanning"
name="
StartRun_STP
lanning">
<attributeId>st
artTime_ST<
/attributeId>
<locationId>B
P A <
/locationId>
<defaultModif
ierTime>
<offset unit="
hour"
multiplier="
23" />
<timeStep
id="daily00"
/ > <
/defaultModifi
erTime>
<customLabel
>startTime
ST run is at:<
/customLabel>
<editablePerio
dTimeSeries>
<moduleInstan
ceId>Publish_
R T <
/moduleInstan
ceId>
<valueType>s
calar<
/valueType>
<parameterId>
GN_Sim<
/parameterId>
<locationId>B
P A <
/locationId>
<timeSeriesTy
pe>simulated
forecasting<
/timeSeriesTy
pe >
<timeStep
unit="hour"/>
<relativeView
Period unit="
day" start="
- 20 "
startOvrrulab
le="false"
end="240"
endOvrrulabl
e="false"/>
<readWriteMo
de>read only<
/readWriteMo
de > <
/editablePerio
```



```
dTimeSeries>
<offsetValidTime unit="day"
 / > <
 /shiftDateTimeModifier> <
 /attributeModifiers>{color}
More info
about the
custom label
can be found
here:
https://publicw
iki.deltares.nl
/display
/FEWSDOC
/24+Topology
Config
Example:
{color:
#59afe1}
<node id="
Big10_RUN_
Riverware_ST
_Planning"
name="
Riverware
(RBS) test">
<workflowId>
Big10_River
Ware_ST_Pla
nning<
/workflowId>
<customInfoL
abel>
<labelText>Se
t Start ST to:
@startTime_S
T @ <
/labelText>
<locationId>B
P A <
/locationId>
<overrulingUn
modifiedDate
TimeAttribute
Value>
<attributeId>st
artTime_ST<
/attributeId>
<offset unit="
hour"
multiplier="
23 "/>
<timeStep
id="daily00"
 / > <
 /overrulingUn
modifiedDate
TimeAttribute
Value> <
```

				<pre> /customInfoLabel> </node> { color } Config example of the setToModified DateTimeAttribute ValueComplexType: { color: #59afe1 } <setToModifiedDateTimeAttribute ValueComplexType> <attributeId>startTime_ST< /attributeId> <locationId>BPA < /locationId> <offset unit="day" multiplier="1" /> <timeStep id="daily00" /> < /setToModifiedDateTimeAttribute ValueComplexType> < /forecastLengthEstimator> { color } </pre>			
Plugin - GUI - IFD - Forecasts	FEWS - 20201	FEWS-18050 FFFS: Forecast Tree Status is not correct when task is killed					
Plugin - Gui - Schematic Status Display	FEWS - 20024	FEWS-9556 IWP: & in "node name" gives exception order: Windows10 in query to MATROOS	Added a boolean field to importType noos_1dmapse ries that allows to choose between node and node_id in query		https://public.wiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties		

Plugin - Gui - Schematic Status Display	FEWS - 16361	Klikbare SSD-elementen, die van kleur veranderen en waardes manipuleren		<p>A new feature has been added to the SSD display (scada) that allows the user to click on an SSD element to step over the possible values in a variable which has been defined as an enumerator. This feature can for example be used to control structures, ie. open & close sluice gates in a system.</p>	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=8684020#id-15SchematicStatusDisplay(formerlyScadaDisplay)-LeftSingleClickActionandLeftDoubleClickActionConfigurationOptions		
Plugin - Gui - Time Series	FEWS - 19448	FEWS-17996 TVA: ability to display external forecasts when forecast time is in the future					

Plugin - Gui - Time Series	FEWS - 19394	FEWS-17996 TVA: Improve TSD to integrate directly with Archive to display selected years of data (enhanced Historical Analysis display)					
Plugin - Gui - Time Series	FEWS - 19080	FEWS-9563 FOEN: add configurable displaygroups feature to make scales identical	add configuration option to displaygroups to make scales identical	There is a new configuration element in the DisplayGroups.xml. Configuring this option as true for a plot, will result in synchronized parameter axes for subplots displaying time series of the same parameterGroup. The range of the parameter axes will be identical for these subplots.	https://public.wiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-plot	In DisplayGroups.xml: {code:xml} <plot id="my_plot"> <synchronizeParameterAxis> true </synchronizeParameterAxis> <subplot> ... </subplot> <subplot> ... </subplot> </plot> {code}	

Plugin - Gui - Time Series	FEWS - 18439	Save a set of filtered timeseries to a favorites list					
Plugin - Gui - Time Series	FEWS - 17809	FEWS-17996 T V A Hydrothermal: new TSD timeline plot (color-coded time x-axis; similar to raster hydrographs)	New "horizontalColorCode" subPlotType, plot a horizontal colored bar series	A new "horizontalColorCode" was added. In a plot of this type, each time series is drawn as a horizontal bar. The color of the bar differs depending on the value of the time series. As part of this development, one can now also specify a <barMarginPercentage> for each subPlot in the DisplayGroups.xml separately, overruling the already present config option in the generalDisplayConfig of the	https://public.wiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-horizontalColorCode	<pre>{code:xml} <plot id="HorizontalColorCodePumps" > <description>testing the horizontal color code plots</description> <subplot> <subPlotType>horizontalColorCode</subPlotType> <barMarginPercentage>30</barMarginPercentage><!-- Optional config option to have whitespace between bars --> <classBreaksId>TOWER_C LASS_BREAKS </classBreaksId> </subplot> <timeSeriesSet> <moduleInstanceId>Preproc</pre>	

				TimeSeriesDisplayConfig.xml.	<pre> ess_Units_HTM S < /moduleInstanceId> <valueType>scalar< /valueType> <parameterId>PO_BFN< /parameterId> <locationId>B FN Tower 1< /locationId> <locationId>B FN Tower 2< /locationId> <locationId>B FN Tower 3< /locationId> <locationId>B FN Tower 4< /locationId> <locationId>B FN Tower 5< /locationId> <locationId>B FN Tower 6< /locationId> <locationId>B FN Tower 7< /locationId> <timeSeriesType>simulated forecasting< /timeSeriesType> p e > <timeStep unit="hour" multiplier="1" / > <readWriteMode>read only< /readWriteMode> < /timeSeriesSet > </subplot> < /plot> {code} </pre>
--	--	--	--	------------------------------	--

Plugin - Gui - Time Series, Plugin Module - Reports	FEWS - 18606	FEWS-17996 TVA: area legends do not support "rectangle" markerStyle	Changed legend item for an area to a filled rectangle	When plotting an area (filled area between two time series) the legend item displayed a line. This has been changed to a filled rectangle to better represent the way the data is shown in the graph.			
Plugin - Gui - Time Series	FEWS - 17891	FEWS-17812 Create Dialog for on-the-fly expression series			https://public.wiki.deltares.nl/display/FEWSDOC/30+Visibility+Dialog+and+On+The+Fly+Expression+Series		

Plugin - Gui - Time Series	FEWS - 19439	Possibility to display both time series and their legends in a consistent way	DisplayGroup - option drawingOrderInverted in subplots	The subplot option 'drawingOrderInverted' can be used to invert drawing order of the lines. By default the lines are drawn in the same order as shown in the legend : the first line first, the last line last. The last line is then on top. If drawing order is inverted the last line in the legend is drawn first and the first line last. The first line is then on top.			
----------------------------	------------------------------	---	--	---	--	--	--

Plugin - Gui - Time Series	FEWS - 19360	FEWS-18957 NWS: #22589 Rating Display: Flood Thresholds are vertical lines when displaying a discharge plot	TimeSeriesDisplay configFile: new option 'thresholdType' in ratingCurveDisplayConfig	By default rating curve display shows the same threshold type as in the (scalar) chart. For example, If the chart shows discharge thresholds, the rating display shows discharge thresholds too. To change the default behaviour, an option 'thresholdType' can be used. Use <thresholdType>stage</thresholdType> if always stage threshold should be visible, and use <thresholdType>discharge</thresholdType> if always discharge threshold should be visible.	https://public.wiki.deltares.nl/display/FEWSDOC/02+Time+Series+Display+Configuration	Example from TimeSeriesDisplay configFile: {code} <ratingCurveDisplayConfig> <stageAxisOrientation>vertical </stageAxisOrientation> <thresholdType>stage</thresholdType> </ratingCurveDisplayConfig> {code}	
Plugin - Gui - Time Series	FEWS - 18966	FEWS-18957 NWS: #34815 Fix thumbnail locking feature to use <ensembleId> in addition to location /parameter					

Plugin - Gui - Grid Display, Plugin - Gui - Time Series	FEWS - 17737	FEWS-17689 T V A Hydrothermal: Predefined longitudinal profiles from spatial display grids to create predefined vertical profile cross sections in TSD with time slider bar				
Plugin - Gui - Time Series	FEWS - 19470	Make vertical station lines optional in longitudinal plot	Make vertical station lines optional in longitudinal plot		https://public.wiki.deltares.nl/display/FEWSDOC/02+LocationSets#id-02LocationSets-chainageLabelLocationAttributeId	
Plugin - Gui - Time Series	FEWS - 19284	FEWS-18957 N W S : #24897 Display time series in table, plot, or both	Added new SubPlotComplexType config. option (default=true). If visibleInTable is set to false, the time series can be shown in the plot, but will never be visible in the table.		https://public.wiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line	_thumb_75024.png _thumb_75023.png

Plugin - Gui - Time Series	FEWS - 20438	FEWS-20126 Add option in DisplayGroups.xml to set default visibility			https://public.wiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line		
Plugin - Gui - Time Series	FEWS - 21045	DisplayGroups: add visibleInLegend, visibleInTable to all subplot elements			https://public.wiki.deltares.nl/display/FEWSDOC/03+Display+Groups#id-03DisplayGroups-line		

Plugin - Gui - Time Series Modifier	FEWS - S - 16035	FEWS-17996 TVA. ability to configure or define which column field are visible in mod display summary	Add ability for the user to influence the modifier table layout	The modifier table shown in the modifiers panel already had a context-menu (right-click) option to add user defined description columns. This option has been changed to "Select Columns", to allow the user to show / hide the regular columns in addition to the user defined description columns. The column visibility and order is stored in the user settings. The columns can be reordered by dragging the column header to a different position.	https://public.wiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		
-------------------------------------	----------------------------------	--	---	--	---	--	--

Plugin - Gui - Time Series Modifier	FEWS - 16036	FEWS-17996 TVA. Filter on multiple location or parameters in modifier display summary		<p>It is now possible to filter the modifiers by selected locations or parameters. The context menu in the modifiers panel now has a new option "filter by selected locations and / o r parameters). After selecting this option a display will appear which shows the available locations and parameters. This display can be used to select the locations and parameters by which the modifiers should be filtered.</p>	https://public.wiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		
Plugin - Gui - Web Browser Display	FEWS - 20392	FEWS-19373 Implement a whitelist of domains/urls that can be visited using web browser		<p>For the embedded web browser display, a domain whitelist has been implemented to restrict the domains from which content can be displayed in the internal web browser. When the user follows hyperlinks to sites that are not whitelisted the system default browser will be opened instead.</p>			

Plugin - Gui - Web Browser Display	-FEW -S - 20362	FEWS-19373 Chromium embedded framework (JCEF) update warning					
Plugin - Gui - Web Browser Display	-FEW -S - 20110	FEWS-19650 Enable "display config" for Web Browser Display					
Plugin - Gui - Web Browser Display	-FEW -S - 19386	FEWS-19373 Backwards compatibility EWB Display with new JX /JCEF package			https://public.wiki.deltares.nl/display/FEWSDOC/24+Web+Browser+Display		
Plugin Module Archive	-FEW -S - 20151	Javall and Elastic: connection settings					
Plugin Module Archive	-FEW -S - 20239	Only reindex observed meta data					
Plugin Module Archive	-FEW -S - 18128	FEWS-17996 TVA: Config option to indicate archive export to occur at subworkflow instead of main workflow level					

Plugin Module Archive	- FEWS-20739 - S - 20745	TVA: Ability to use startOverrulab le and endOverrulabl e in relativePeriod in any export archive module					
Plugin Module Archive	- FEWS-18957 - S - 17621	N W S : #38312 tempDir too small to use exportArchive Module exportSnapSh ot				<pre> {code:xml} <? xml version=" 1.0 " encoding=" UTF-8"?> <exportArchiv eModule xsi: schemaLocati on = " http://www. wldelft.nl /fews http://fews. wldelft.nl /schemas /version1.0 /exportArchiv eModule.xsd" xmlns:xsi=" http://www. w3.org/2001 /XMLSchema -instance" xmlns=" http://www. wldelft.nl /fews"> <exportSnapS hot> <general> <archiveFolde r>\${ARCHIVE _DIR\$< /archiveFolder > <tempFolder> </pre>	

```
$ARCHIVE_  
DIR$../temp<  
/tempFolder>  
</general>  
<activities>  
<exportSnapS  
h o t >  
<areaId>test<  
/areaId>  
<filter id="<br>  
only time<br>  
series">  
<xmlConfig<br>  
enabled="<br>  
false" name="<br>  
Default xml<br>  
config"<br>  
synchLevel="<br>  
1 1 "/>  
<coldStates<br>  
enabled="<br>  
false" name="<br>  
Default cold<br>  
states"<br>  
synchLevel="<br>  
1 1 "/>  
<moduleData<br>  
S e t s<br>  
enabled="<br>  
false" name="<br>  
Default<br>  
module data<br>  
s e t s "<br>  
synchLevel="<br>  
1 1 "/>  
<mapLayers<br>  
enabled="<br>  
false" name="<br>  
Default map<br>  
layers"<br>  
synchLevel="<br>  
1 1 "/> <icons<br>  
enabled="<br>  
false" name="<br>  
Default<br>  
i c o n s "<br>  
synchLevel="<br>  
1 1 "/>  
<reportTempl<br>  
ates enabled="<br>  
false" name="<br>  
Default report<br>  
templates"<br>  
synchLevel="<br>  
1 1 "/>  
<reportImages<br>  
enabled="<br>  
false" name="<br>  
Default report<br>  
images"<br>  
synchLevel="<br>  
1 1 "/>
```



```
<continuousTimeSeries
enabled="
true" name="
Simulated"
synchLevel="
0" maxAge="
1000" unit="
week"/>
<continuousTimeSeries
enabled="
true" name="
Telemetry"
synchLevel="
1" maxAge="
1000" unit="
week"/>
<continuousTimeSeries
enabled="
true" name="
Manual"
synchLevel="
5" maxAge="
1000" unit="
week"/>
<continuousTimeSeries
enabled="
true" name="
Astronomical
and
climatological
"
synchLevel="
4" maxAge="
1000" unit="
week"/>
<continuousTimeSeries
enabled="
true" name="
Small
external
forecast
grids"
synchLevel="
6" maxAge="
1000" unit="
week"/>
<continuousTimeSeries
enabled="
true" name="
Large
external
forecast
grids"
synchLevel="
16"
maxAge="
```

						<pre> 10000" unit=" week"/> <warmStates enabled=" false" name=" Warm states" maxAge=" 10" unit=" week"/> <logEntries enabled=" false" name=" Log Entries" maxAge="1" unit="week" / > <thresholdEve nts enabled=" false" name=" Threshold Events" maxAge="1" unit="week" /> </filter> < /exportSnapSh ot> < /activities> < /exportSnapSh ot> < /exportArchiv eModule> {code} </pre>
Plugin Module Data Export	-FEW -S - 18959	FEWS-18957 NEWS: #38123 Addition of displayValueR esolution for better control over precision of PIXML and SHEF exports	Add option to configure precision to export module	A <precision> can now be configured in an export module config file in the <general> section. This <precision> can be used set the number of decimals in the exported values.	https://public.wiki.deltares.nl/display/FEWSDOC/Export+module#Exportmodule-precision	{code:xml} <export> <general> <exportType> P I < <exportType> <exportMissin gValueString> -999.999< <exportMissin gValueString> <precision>3< </precision> < </general> ... < </export> {code}
Plugin Module Data Export	-FEW -S - 20232	Add Geodatum to timeseries export configuration				
Plugin Module Data Export	-FEW -S - 18974	FEWS-18957 NEWS: #54049 Add <Part A> field to HecDss export				

Plugin Module Archive, Plugin Module Data Export	- FEWS - S - 17916	FEWS-16132 HERMES: Magic Button for Local Archive in 2018 build					
Plugin Module Data Import	- FEWS - S - 19357	FEWS-18957 N W S : #46492 Expand the shef import capabilities to include .B and .BR data fields			https://public.wiki.deltares.nl/display/FEWSDOC/SHEF+-+Standard+Hydrometeorological+Exchange+Format		

Plugin Module Data Import	- FEWS-19335 - S -	FEWS-19535 NOE: questions about handling BIL files in import module and GA module	A new importer for BIL / BIP / BSQ format according to ESRI specifications		https://public.wiki.deltares.nl/display/FEWSDOC/BIP+BIP+BSQ+Parser		
Plugin Module Data Import	- FEWS-19501 - S -	Enable OAuth2 in existing WaterML2 import			https://public.wiki.deltares.nl/display/FEWSDOC/WaterML2Import#WaterML2Import-BasicAuthentication	Configuration before 2017.02 { code } <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"> > <import> <general> <parserClassName>nl.wldelft.waterml.timeseriesparser.WaterMLServerParser</parserClassName>	

```
<binDir>%  
REGION_HO  
M E %  
/Modules/bin  
/waterml-bin<  
/binDir>  
<serverUrl>htt  
ps://hicws2.  
vlaanderen.be  
/Ki WIS  
/Ki WIS<  
/serverUrl>  
<user>****  
user id ****<  
/user>  
<password>**  
** user secret  
*** <  
/password>  
<relativeView  
Period start="<br>- 9 6 "<br>startOverrulab<br>le="true"<br>end="0"<br>unit="hour"/>  
<idMapId>IdI<br>mpportWML_h<br></idMapId>  
<unitConversi<br>onsId>Import<br>UnitConversio<br>n s <br>/unitConversio<br>n s I d >  
<missingValu<br>e>-999.0<br>/missingValue<br>>  
<importTimeZ<br>one >  
<timeZoneOff<br>set>+00:00<br>/timeZoneOffs<br>et > <br>/importTimeZ<br>one >  
<dataFeedId>I<br>mpportWML<br>/dataFeedId>  
</general>  
<properties>  
<string key="<br>requestTempla<br>te" value="<br>datasource=4<br>& a m p ;<br>format=wml2<br>& a m p ;<br>from=@startti<br>me@& ;<br>request=getTi
```

```
meseriesValue
s & amp;
service=kister
s & amp;
ts_id=@locati
onid@& amp;
type=querySer
vices" />
<string key="
RequestsOutp
utDirectory"
value="%
REGION_HO
ME%/debug
/" /> <int
key="
ReadTimeout
Millis"
value="
100000"/>
<int key="
ConnectionTi
meoutMillis"
value="
10000"/>
<string key="
authUrl"
value="
https://hicwsa
u t h .
vlaanderen.be
/auth" />
<string key="
issuer"
value="
http://localhos
t:8080
/KiWebPortal
/auth" /> <
/properties>
{code}
Configuration
2017.02 and
later {code}
<general>
<importTypeS
tandard>wml2
_server<
/importTypeSt
andard>
<serverUrl>htt
ps://hicws2.
vlaanderen.be
/KiWIS
/KiWIS<
/serverUrl>
<user>****
user id
*****<
/user>
<password>**
** user pw
```

```
*****<
/password>
<oauth2Config>
<authUrl>https://hicwsauth.vlaanderen.be/auth</authUrl>
<issuer>http://localhost:8080/KiWebPortal/auth</issuer>
</oauth2Config>
<relativeViewPeriod start="-96" startOverrutable="true" end="0" unit="hour"/>
<idMapId>IdImportWML_h</idMapId>
<unitConversionsId>ImportUnitConversions</unitConversionsId>
<missingValue>-999.0</missingValue>
<importTimezone>
<timeZoneOffset>+00:00</timeZoneOffset>
</importTimezone>
<dataFeedId>IdImportWML</dataFeedId>
</general>
<properties>
<string key="requestTemplate" value="datasource=4&format=wml2&from=@starttime&request=getTimeseriesValues&service=kister
```

						<pre>s& amp; ts_id=@locati onid@& amp; type=querySer vices" /> <string key=" RequestsOutp utDirectory" value="% REGION_HO ME%/debug /" /> <int key=" ReadTimeout Millis" value=" 10000"/> <int key=" ConnectionTi meoutMillis" value=" 10000"/> < /properties> {code}</pre>
Plugin Module Data Import	-FEW -S - 20327	FEWS-18236 Improve WIWB import with check on availability before requesting data				
Plugin Module Data Import	-FEW -S - 19254	FEWS-18236 Add extent argument to WIWB grid imports			https://public.wiki.deltares.nl/display/FEWSDOC/WIWB	
Plugin Module Data Import	-FEW -S - 18533	FEWS-18236 Only request data that is not imported in FEWS yet.			https://public.wiki.deltares.nl/display/FEWSDOC/WIWB	
Plugin Module Data Import	-FEW -S - 18914	FEWS-18236 Validate on invalid aggregation periods			https://public.wiki.deltares.nl/display/FEWSDOC/WIWB	

Plugin - Module Data Import	- FEWS - S - 17772	FEWS-17944 Request to overwrite existing sample with new location			https://public.wiki.deltares.nl/display/FEWSDOC/General+Csv		
Plugin - GUI - Sample Viewer, Plugin - Module - Data Import	- FEWS - S - 17770	FEWS-17944 Request to overwrite existing sample with new time			https://public.wiki.deltares.nl/display/FEWSDOC/WQCSV		
Plugin - Module Data Import	- FEWS - S - 17014	FEWS - Accelerator: Import GPM-iMerge satellite data	Import GMP-iMerge satellite data added	Extended the NetCDF gridded dataset import so it can read the GMP-iMerge satellite data	https://public.wiki.deltares.nl/display/FEWSDOC/NetcdfGridDataset	{code:xml} <?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"> <import><general><importType>NetcdfGridDataset</importType><folder>\$IMPORT_FOLDER\$/imerg</folder><fileNameDateTimeFilter subFolderLevel="0"> <!--201412--><timeStep unit="month" / ><dateTimePattern>yyyyMM</dateTimePattern	

```
e r n >
<preFixLengt
h > 0 <
/preFixLength
>
<postFixLengt
h > 0 <
/postFixLengt
h > <
/fileNameDate
TimeFilter>
<fileNameDat
eTimeFilter
subFolderLev
el="1"> <!--3
B-HHR-E.
MS.MRG.
3IMERG.
20141231-
S173000-
E175959.
1050.V04A.
RT-H5-->
<timeStep
unit="minute"
multiplier="
30"/>
<dateTimePatt
ern>yyyyMM
d d ' -
S'HHmmss<
/dateTimePatt
e r n >
<preFixLengt
h > 23 <
/preFixLength
>
<postFixLengt
h > 24 <
/postFixLengt
h > <
/fileNameDate
TimeFilter>
<failedFolder
>$IMPORT_F
AILED_FOL
DER $ <
/failedFolder>
<backupFolde
r>$IMPORT_
BACKUP_FO
LDER $
/imerg<
/backupFolder
>
<idMapId>IdI
mportGPM<
/idMapId>
<unitConversi
onsId>Import
UnitConversio
n s <
```

					<pre> /unitConversion sId> <importTimeZone one> <timeZoneOffset>+00:00< /timeZoneOffset> </importTimeZone one> <dataFeedId> GPM_IMERG < /dataFeedId> </general> <timeSeriesSet > <moduleInstanceId>Import _GPM< /moduleInstanceId> <valueType>grid< /valueType> <parameterId> P.obs< /parameterId> <locationId>I MERG_world </locationId> <timeSeriesType>temporary < /timeSeriesType > <timeStep unit="minute" multiplier=" 30"/> <readWriteMode>add originals< /readWriteMode > </timeSeriesSet > <externUnit parameterId=" P.obs" unit=" mm/hr"/> </import> </timeSeriesImportRun> {code} </pre>	
Plugin Module Data Import	-FEW -S - 19668	Import of RAW binary data			https://public.wiki.deltares.nl/display/FEWSDOC/EARS+Satellite+Rainfall+Image	<pre> <?xml version="1.0" encoding=" UTF-8"?> <timeSeriesImportRun xmlns=" http://www. </pre>

```
wldelft.nl
/fews" xmlns:
xsi="
http://www.
w3.org/2001
/XMLSchema
-instance" xsi:
schemaLocati
on="
http://www.
wldelft.nl
/fews
http://fews.
wldelft.nl
/schemas
/version1.0
/timeSeriesIm
portRun.xsd"
> <import>
<general>
<importType>
EARS_Satellit
e_Rainfall_Est
imate<
/importType>
<folder>$IMP
ORT_FOLDE
R$\SATH<
/folder>
<fileNameObs
ervationDateT
imePattern>'N
I_'yyyyMMdd'
.prc'<
/fileNameObs
ervationDateT
imePattern>
<unitConversi
onsId>Import
UnitConversio
ns<
/unitConversio
nsId>
<importTimeZ
one>
<timeZoneOff
set>+00:00<
/timeZoneOffs
et> <
/importTimeZ
one>
<geoDatum>
WGS_1984<
/geoDatum>
<dataFeedId>
SATH_AFRI
CA<
/dataFeedId>
</general>
<timeSeriesSe
t>
<moduleInsta
```

						<pre> nceId>Import SATH< /moduleInstan ceId> <valueType>g rid< /valueType> <parameterId> P< /parameterId> <locationId>S ATH_AFRIC A< /locationId> <timeSeriesTy pe>external historical< /timeSeriesTy pe> <timeStep unit="day"/> <readWriteMo de>add originals< /readWriteMo de> <expiryTime unit="day" multiplier=" 400"/> < /timeSeriesSet > <externUnit unit="0.1 mm" parameterId=" P"/> < /import> < /timeSeriesIm portRun> </pre>
<p>Plugin - FEW Module - S - Data Import, 19045 Plugin - Module - Transformation</p>	<p>RW s OS Waterbeher: process to sort and select a subset of ensemblemem bers and process to do following transformations with said subset</p>	<p>New transformation type <generationEn semble> <selectRanked Members></p>	<p>This transformation first selects ensemble member Id's , using the time series configured with element 'rankingVaria ble' . 'rankingVaria ble' should be an ensemble timeseries and each member should have only one value. For example, the value can be a result of the statistical</p>	<p>https://public.wiki.deltares.nl/display/FEWSDOC/GenerationEnsemble+Transformation</p>	<pre> {code:xml} <transformatio n id=" selectMember s "> <generationEn semble> <selectRanked Members> <selectVariabl e> <rankingVaria ble> <variableId>P mean< /variableId> < /rankingVaria ble> <sortAscendin g>true< /sortAscendin g> <numberOfM </pre>	

analysis of the ensemble member. Transformation

<selectRankedMembers> sorts (asc or desc) the 'rankingVariable' ensemble members according to this value. Then, if for example 2 is configured with <numberOfMembers>, first two ensemble member Id's are selected. The selected member Id's are used to copy the associated members from the input time series to the output ensemble time series. The resulting time series contains only the selected ensemble member Id's.

```

members>2<
/numberOfMembers> <
members> <
/selectVariable >
<inputOutput>
<inputVariable >
<variableId>Hm <
/variableId> <
/inputVariable >
<outputVariable >
<variableId>Hsim <
/variableId> <
/outputVariable >
<inputOutput>
<inputOutput>
<inputVariable >
<variableId>Qm <
/variableId> <
/inputVariable >
<outputVariable >
<variableId>Qsim <
/variableId> <
/outputVariable >
<inputOutput>
<inputOutput>
<inputVariable >
<variableId>Tm <
/variableId> <
/inputVariable >
<outputVariable >
<variableId>Tsim <
/variableId> <
/outputVariable >
<inputOutput>
<
/selectRankedMembers> <
/generationEnsemble> <
/transformation> {code}

```

Plugin Module Data Import	-FEW -S - 18996	New import for SMN ETA based on previous UruguaySMN ETA	EtaSmn Import type	EtaSmn imports gridded time series from asci file format. File example : {code} lon lat p01 p02 p03 p04 p05 p06 -56.9874 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 -56.9250 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 -56.8625 -28.0166 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 {code} The forecast time is read from the file name. The file name should comply with the following file name pattern: ????????? yyyyMMddH H????, for example Datos_WRF_2 018062000. txt. Event times are stored in the column headers p01, p02,... where the numbers correspond to the hours. The dates/times are always in GMT. This reader needs a geometry configured in the region config			
---------------------------------	-----------------------	--	-----------------------	---	--	--	--

Plugin Module Data Import	- FEWS - S - 18964	FEWS-18957 NEWS: #36265 Expand supported variables in NetCDF timeseries imports	Import type NETCDF-CF_TIMESERIES recognizes variable name 'feature_id' as variable that stores station Id's	Import type NETCDF-CF_TIMESERIES recognizes variable name 'feature_id' as variable that stores station Id's. The variable 'feature_id' don't necessarily need to have an attribute cf_role = "timeseries_id"		
Plugin Module Data Import	- FEWS - S - 20339	Matroos import: add an import type for get_netcdf.php	New import type MATROOS_NETCDF-CF_GRID and MATROOS_NETCDF-MATROOS_TIMESERIES first download the nc file from Matroos and then read the downloaded files. To read the downloaded file, MATROOS_NETCDF-CF_GRID uses imported type NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES uses import type NETCDF-CF_TIMESERIES Both import types support the following Matroos query: http://matroos.rws.nl/direct/get_netcdf.php?database=&so	MATROOS_NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES first download the nc file from Matroos and then read the downloaded files. To read the downloaded file, MATROOS_NETCDF-CF_GRID uses imported type NETCDF-CF_GRID and MATROOS_NETCDF-CF_TIMESERIES uses import type NETCDF-CF_TIMESERIES Both import types support the following Matroos query: http://matroos.rws.nl/direct/get_netcdf.php?database=&so		This example uses mandatory fields only: {code:xml} <general> <importType> MATROOS_NETCDF-CF_GRID</importType> <serverUrl>http://matroos.deltares.nl</serverUrl> <idMapId>IdMapGrid</idMapId> </general> <properties> <string key="database" value="maps2d"/> <string key="source" value="nhi30_maps_cmf_det"/> </properties> {code} This example uses mandatory and optional fields: {code:xml} <general> <importType> MATROOS_NETCDF-CF_TIMESERIES</importType>

				<p>urce=&analysis=&timezone=&hindcast=</p> <p>The query fields 'database' and 'source' are mandatory, 'analysis', 'timezone' and 'hindcast' are optional. The values for the query fields should be configured in the <properties> section of the import module. The downloaded nc file is automatically deleted after import. If you want to keep it, add key 'keep_downloaded_file' to the <properties> section</p>		<pre><serverUrl>http://matroos.deltares.nl</serverUrl> <idMapId>IdMapScalarNc</idMapId> </general> <properties> <string key="database" value="maps1d"/> <string key="source" value="fews_meren_eps_ijsselmeer"/> <string key="analysis" value="201901010000"/> <string key="timezone" value="GMT+1"/> <string key="hindcast" value="1"/> <bool key="keep_downloaded_file" value="true"/> /> </properties> {code}</pre>
Plugin Module Data Import	-FEW -S -19157	New Import type: NEA real-time measurements from data.gov.sg	New importer for Singapore real-time weather data from NEA (National Environmental Agency)		https://public.wiki.deltares.nl/display/FEWSDOC/SingaporeNEA+Import	
Plugin Module Data Import	-FEW -S -19625	LocationsIdsHeaderCsv: skip last column when empty while importing CSV file				
Plugin Module Data Import	-FEW -S -20352	Improve CMEMS import with properties			https://public.wiki.deltares.nl/display/FEWSDOC/CMEMS	

Plugin Module Data Import	-FEW -S - 19601	Extend get_mapsId_s eries with ensemble retrieval	Extended get_mapsId_s eries parser with ensemble retrieval, to be configured in properties		https://public.wiki.deltares.nl/display/FEWSDOC/NOOS#NOOS-ConfiguringProperties		
Plugin Module Data Import	-FEW -S - 19505	Environment Canada xml parser	created Environment Canada xml parser		https://public.wiki.deltares.nl/display/FEWSDOC/CanadaMeteo		
Plugin Module Data Import	-FEW -S - 19353	FEWS-18957 N W S : #46281 Enhance the ImportDataCard module to allow for preceding 0 in date column	Enhance the ImportDataCard module to allow for preceding 0 in date column				
Plugin Module Data Import	-FEW -S - 19561	Parser Port of Rotterdam service			https://public.wiki.deltares.nl/display/FEWSDOC/RotterdamPort		
Plugin Module Data Import	-FEW -S - 19612	parser KIWIS webservice	parser KIWIS webservice		https://public.wiki.deltares.nl/display/FEWSDOC/Kiwis		
Plugin Module Data Import	-FEW -S - 19433	Improve authentication for import AKVO (API)	AkvoImport now supports AkvoFlow api v2	AkvoImport now supports AkvoFlow api v2.	https://public.wiki.deltares.nl/display/FEWSDOC/Akvo		
Plugin Module Data Import	-FEW -S - 17164	FEWS-17145 Import Module: CMEMS ocean model data (forecast - 2D)			https://public.wiki.deltares.nl/display/FEWSDOC/Cmems		
Plugin Module Error	-FEW -S - 18483	FEWS-18050 FFFS: Allow use of			https://public.wiki.deltares.nl/pages	{code:xml} <autoOrderMethod>	

Correction	attributes in Error module parameters			/viewpage.action?pageId=8683839	<pre> <orderSelection>@ORDER_SELECTION@ </orderSelection > <parameters> <parameter type="ar" order="1" >@AR_1@</parameter> <parameter type="ar" order="2" >@AR_2@</parameter> <parameter type="ar" order="3" >@AR_3@</parameter> <parameter type="ma" order="1" >@MA_1@</parameter> <parameter type="ma" order="2" >@MA_2@</parameter> </parameters> <subtractMean>@SUBTRACT_MEAN@ </subtractMean > <boxcoxTransformation>@BOXCOX@</boxcoxTransformation> <lambda>@LAMBDA@</lambda> <observedTimeSeriesId>H. obs </observedTimeSeriesId> <simulatedTimeSeriesId>H. sim </simulatedTimeSeriesId> <outputTimeSeriesId>H. updated</outputTimeSeriesId> </ </pre>
------------	---------------------------------------	--	--	---------------------------------	--

						/autoOrderMethod> {code}	
Plugin Module General Adapter	-FEWS-19605	Adding checkMissing to exportnetcdfactivity					
Plugin Module General Adapter	-FEWS-19393	FEWS-17996 TVA: add new configuration option to GA to ignore missing shapefiles in importShapefileActivity	Added check, if import shapefiles folder is empty, there is no exception thrown.		https://public.wiki.deltares.nl/display/FEWSDOC/05+General+Adapter+Module#id-05GeneralAdapterModule-importShapefileActivity		
Plugin Module Interpolation, Plugin Module Lookup	-FEWS-19416	3D dataset lookup and interpolation module	3D dataset lookup and interpolation module		https://public.wiki.deltares.nl/display/FEWSDOC/Three+dimensional+lookup		
Plugin Module Modifiers (ModuleParameters)	-FEWS-19554	FEWS-13318 HyFS: Option to select all in modifier display			https://public.wiki.deltares.nl/display/FEWSDOC/23+Interactive+Forecasting+Displays		

Plugin Module Modifiers (ModuleParameters)	- FEWS - S - 18968	FEWS-18957 NWS: #23360 SACCO climatology enhancements			https://public.wiki.deltares.nl/display/FEWSDOC/25+Modifier+Types	
Plugin Module Modifiers (ModuleParameters)	- FEWS - S - 18962	FEWS-18957 NWS: #36283 Enhancement request to have ability to limit locationAttributeModifiers (ADJUSTQ) to the active segment	Topology option attributeModifierLocationConstraint to limit locationAttributeModifiers	By default all locations from a workflow or display tied to a segment will become available in locationAttributeModifiers . To limit the locations, the option <attributeModifierLocationConstraint> can be used.	https://public.wiki.deltares.nl/display/FEWSDOC/25+Modifier+Types	An example from Topology. xml: {code: xml} <nodes id="Portneuf - RHFS"> <nodes id="Portneuf" name="Portneuf"> <showModifiers>true</showModifiers > <workflowId>PORTNEUF_Forecast</workflowId> <node id="MCCI_Forecast_Local" name="MCCI - Marsh Creek NR Mccammon" > <locationId>MCCI</locationId> <locationId>MCCI_lo</locationId> <workflowId>MCCI_Forecast </workflowId> </node> <node id="TOPI_Forecast_Local" name="TOPI - Portneuf River at

```
Topaz">
<locationId>T
OPI<
/locationId>
<locationId>T
OPI_lo<
/locationId>
<workflowId>
TOPI_Forecas
t <
/workflowId>
</node>
<node id="
PIHI_Forecast
_Local"
name="PIHI -
Portneuf
River at
Pocatello">
<previousNod
eId>MCCI_Fo
recast_Local<
/previousNode
Id >
<previousNod
eId>TOPI_For
ecast_Local<
/previousNode
Id >
<locationId>P
IHI<
/locationId>
<locationId>P
IHI_lo<
/locationId>
<workflowId>
PIHI_Forecast
<
/workflowId>
<attributeMod
ifierLocationC
onstraint>
<idContains
contains="
PIHI"/> <
/attributeModi
fierLocationC
onstraint> <
/node> <node
id = "
PORTNEUF_
ConsUse_Fore
cast_Local"
name="
PORTNEUF_
ConsUse"/>
<mapExtentId
>PORTNEUF
<
/mapExtentId
>
<filterId>Strea
```

					<pre> mflow< /filterId> <graceTime unit="hour" multiplier=" 12"/> /nodes> /nodes> {code} </pre>	
Plugin Module Modifiers (TimeSeries), System - PI Service	- FEW - S - 20250	FEWS-16132 FB 147 Delete All Mods Flag added to PI Service Mods Import		The putModifiers method of the rest and soap webservice (tomcat and embedded) now have a additional parameter. This parameter (deleteAllModifiers) can be used to delete all existing modifiers prior to inserting a new modifier.		

Plugin Module Modifiers (TimeSeries)	- FEWS - S - 19361	FEWS-18957 NWS: #23420 Make it easier to tell if the SWITCHTS mod is going to apply to upper zone, lower zone, or both		It is now possible to reverse the order of the merge by creating location attribute modifiers. More information can be found here: https://publicwiki.deltares.nl/display/FEWSDOC/Simple+Merge	https://publicwiki.deltares.nl/display/FEWSDOC/25+Modifier+Types	<pre> <transformation id="MAP"> <merge> <simple> <inputVariable > <variableId>A DAM4_MAP _6 < /variableId> < /inputVariable > <inputVariable e > <variableId>A DAM4_MAP X_6 < /variableId> < /inputVariable > <reverseOrder AttributeId>at tributeId< /reverseOrder AttributeId> <outputVariable l e > <variableId>A DAM4_MAP _6_MAP< /variableId> < /outputVariable e> </simple> </merge> < /transformatio n> </pre>	
--------------------------------------	--------------------	--	--	--	---	---	--

<p>Plugin Module Modifiers (ModuleParameters), Plugin Module Modifiers (TimeSeries)</p>	<p>- FEWS - S - 17738</p>	<p>FEWS-17689 T V A Hydrothermal: add ability to copy a selection of modifiers to similar set of mods with different module instances</p>		<p>A new option is added to facilitate copying time series modifiers. The difference between the regular copy-functionality is that the time series modifiers are copied to a similar modifier but that only the module instance id is changed. The new option is available after selecting 1 or more time series modifiers and pressing the right mouse button. The menu which appears will have a option copy selected time series modifiers to another module instance id. If the copyModifiers option is not configured then the new menu option will not be available.</p>	<p>https://public.wiki.deltares.nl/display/FEWSDOC/25+Modifier+Types</p>	<pre>{code:xml} <copyModifiers> </copyModifiers> <timeSeriesModifiersPattern> </timeSeriesModifiersPattern> <pattern>_0</pattern> <patternDescription>Scenario 0</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> </timeSeriesModifiersPattern> <pattern>_1</pattern> <patternDescription>Scenario 1</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> </timeSeriesModifiersPattern> <pattern>_2</pattern> <patternDescription>Scenario 2</patternDescription> </timeSeriesModifiersPattern> <timeSeriesModifiersPattern> </timeSeriesModifiersPattern> <pattern>_3</pattern> <patternDescription>Scenario 3</patternDescription> </timeSeriesModifiersPattern> </copyModifiers> {code}</pre>	
---	---------------------------	---	--	---	--	--	--

Plugin Module Reports	-FEWS - S - 19342	FEWS-13888 HyFS: Generation of 2 new report xml tables with threshold information			https://public.wiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-forecastThresholdCrossingXml		
Plugin Module Reports	-FEWS - S - 16384	FEWS-18957 NWS: #24940 Report exports in ESRI shapefile format					
Plugin Module Reports	-FEWS - S - 19742	FEWS-13888 HyFS: add additional name to the floodScenario Xml report element			https://public.wiki.deltares.nl/display/FEWSDOC/09+Report+Module		
Plugin Module Reports	-FEWS - S - 16455	FEWS-18957 NWS: #24854 Dual axis charts not supported for PI rating curves in reports			https://public.wiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-Configurationaspects		

Plugin Module Reports	-FEW -S - 19606	Report schematicStatusDisplayPanelSnapshots*: add prefix /suffix with runtime / T0	Report schematicStatusDisplayPanelSnapshots*: add prefix /suffix with runtime / T0		https://public.wiki.deltares.nl/display/FEWSDOC/09+Report+Module#id-09ReportModule-snapshot		
Plugin Module Reports	-FEW -S - 19276	ThresholdWarningLevels: No data --> No warnings	ThresholdWarningLevels: No data --> No warnings		https://public.wiki.deltares.nl/display/FEWSDOC/09+Thresholds#id-09Thresholds-ThresholdWarningLevels		
Plugin Module Reports	-FEW -S - 20455	FEWS-13888 HyFS: Generation of one new XML report			https://public.wiki.deltares.nl/display/FEWSDOC/HyFS+report+model+xml+report+generation		
Plugin Module Thresholds	-FEW -S - 19671	FEWS-13888 HyFS: Thresholds must work with different relative view periods					
Plugin Module Transformation	-FEW -S - 21125	merge->selectDataSource only works for scalar time series, but not for grid time series					
Plugin Module Transformation	-FEW -S - 19285	FEWS-18957 NWS: #45716 Estimation with Spatial Interpolation	Added option to exclude the point of origin in the inverse-distance spatial interpolation transformation		https://public.wiki.deltares.nl/display/FEWSDOC/InterpolationSpatialInverseDistance		
System	FEW S - 20091	Create Delft-FEWS Client Installer (LINUX)					
System	FEW S - 20090	Create Delft-FEWS Client Installer (Windows)					

System	FEWS - 20153	Create script to start and stop MAINTENANCE mode	2018.02 data_update scripts require maintenancemode. Therefore setmaintenancemode scripts have been made available.		https://public.wiki.deltares.nl/display/FEWSDOC/Activate+or+deactivate+Maintenance+Mode+using+setmaintenancemode.sql+script		
System	FEWS - 16779	FEWS-18477 Orchestrator - Automated software bundle formation and non-interactive deployment (A.2)					
Database, System	FEWS - 17668	FEWS-18451 Fews Database Https Proxy (VJDBC for secure remote access)					
System	FEWS - 16774	FEWS-19332 AI: REST API - Non-interactive deployment of compute nodes (A.1)					
System	FEWS - 16775	FEWS-19332 AI: REST API - Public cloud compatibility (A.1)					
System - PI Service	FEWS - 19199	FEWS-17996 TVA FB 212 Cannot Retrieve Simulated Historical data from the REST webservice that is in the archive					
System - PI Service	FEWS - 19947	FEWS-19924 WMS Service: Support Contour lines					

System - PI Service	FEWS - 21074	FEWS-19650 FFFS-PI: WMS kijkt maar 2 folders diep in de spatial display config					
System - PI Service	FEWS - 20423	FEWS web services: use of context files for redirecting to specific filters			https://public.wiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services#FEWSWebServices-AdvancedInstallationandConfiguration		
System - PI Service	FEWS - 20470	FEWS-19650 FEWS Web Services should be readonly by default					
System - PI Service	FEWS - 20350	FEWS-19650 Fews Web Services global properties not working with new client config files					
System - PI Service	FEWS - 19855	Read-only support for FEWS webservices					
System - PI Service	FEWS - 19052	FEWS-16626 WMS – has FEWS WMS Web Service a p i documentation	WMS API has been documented	WMS API documentation can be found at : https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		

System - PI Service	FEWS - 19050	FEWS-16626 WMS - FEWS WMS Web Service GetMap	W M S GetMap request is supported	W M S GetMap request is supported	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS - 19051	FEWS-16626 WMS - FEWS WMS Web Service GetLegendGraphic	legends supported in WMS	legends supported in WMS	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS - 19043	FEWS-16626 WMS - FEWS WMS Web Service GetCapabilities should server all configured layers in the grid display with their time dimensions	GetCapabilities has support for time dimension	GetCapabilities has support for time dimension	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS - 19042	FEWS-16626 WMS - FEWS should generate png based on bounding box	Extent is supported in WMS Service	Extent is supported in WMS Service	https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS - 16625	FEWS-18472 New: Retrieve gridded data			https://public.wiki.deltares.nl/pages/viewpage.action?pageId=134482048		
System - PI Service	FEWS - 16621	FEWS-18470 Improve stability: Handling non-equidistant data	PI REST service now uses time series chunking to improve stability	PI REST service now uses time series chunking to improve stability. This will prevent out of memory issues when querying a lot of time series.	https://public.wiki.deltares.nl/display/FEWSDOC/FEWS+PI+REST+Web+Service		
System Session	FEWS - 19244	automatically refresh FEWS SA client when new localDataStore is provided (snapshot	Updating SA localDataStore when a new one is provided by 'master' SA	This feature makes possible to update SA localDataStore (in Client SA) with a new			

from other
SA system)

one that has
been exported
by an another
SA (Master
SA) This
feature
supports only
firebird
database.
Master SA
exports local.
fdb using
exportArchive
Module, for
example:
{code:xml}
<exportSnapS
h o t >
<general>
<archiveFolde
r > c :
/localDataStor
eSnapshot<
/archiveFolder
>
<zipExportedS
napShot>>false
<
/zipExportedS
napShot>
<singularExpo
rt /> <
/general>
<activities>
<exportSnapS
h o t >
<areaId>NL<
/areaId> <
/exportSnapSh
o t > <
/activities> <
/exportSnapSh
ot> {code}
The option
<singularExpo
rt /> should be
used to
overwrite
local.fdb
every time the
exportArchive
Module is
run. Also the
option
zipExportedSn
apShot should
be set to false,
otherwise
Client SA
will not
update. Client
SA should

have option localDataStore SnapshotDownload in the Explorer.xml, for example:

```
{code:xml}
<localDataStoreSnapshotDownload>
  <file>c:/localDataStoreSnapshot/local.fdb</file>
  <downloadEnabled>true</downloadEnabled>
  <{code} Path configured in <file> should be the same as path configured in <archiveFolder> of exportArchiveModule.
  When localDataStore SnapshotDownload is configured, then an item 'Load latest localDataStore snapshot' appears in menu File. Using this menu item a new localDataStore can be ingested. To make the users aware of the new localDataStore snapshot, there is a field "LDS" in the explorer status bar. This field is green if the localDataStore is up to date,
```


				<p>or red if a new localDataStore snapshot is available . Also a notification appears when the Client SA is started and a new localDataStore snapshot is available: "New localDataStore is available in Do you want to update the current localDataStore?" To keep the Client and Master configs the same, localDataStore SnapshotDownload can be configured also in Master SA, with downloadEnabled = false.</p>			
	FEWS-17996 S - 20559	Allow status MC-MC synchronization while in false failover					
	FEWS-20571 S - 20571	Microsoft install scripts for Hermes for 2018.02					
	FEWS-21191 S - 21191	Create Unit test for 21186					
	FEWS-21177 S - 21177	Investigate what would be necessary to make expressions work with comma decimal separator ','					

	FEWS - 21190	FEWS-20984 FEWS-ONS: Import CPTEC ETA data			https://public.wiki.deltares.nl/display/FEWSDOC/CPTEC+ETA+data		
	FEWS - 21188	FEWS-20984 FEWS-ONS: Import Synoptic Data			https://public.wiki.deltares.nl/display/FEWSDOC/ONS-Synoptic		
	FEWS - 20679	FEWS-19650 NGINX proroxy and 413 Request Entity Too Large for uploading basebuild to admin interface					