global properties file

Module Name:	global.properties
Description:	Sets global properties for the application
Why to Use?	To override default values and to set global variables
Where to Use?	In the global.properties file in the root dir of the region
Config Example	global.properties
Screendump:	na
Outcome(s):	Updated behavior of the system
Remark(s):	Use with caution
Available since:	DelftFEWS200701

Overview

The global.properties file has two main uses:

1. Define global variables that can be used within the (XML) configuration files to enhance portability over various machines (see also page Global Properties)
   a. if you define NAME_OFPROGRAM=c:\Myexe.exe in the global.properties file you can use the variable $NAME_OFPROGRAM$ in the configuration files
   b. if you specify folder IMPORT_FOLDER=<server>/tofss/Import or IMPORT_FOLDER=d:/fews/Import, you can use the variable $IMPORT_FOLDER$ in the configuration files.
   By adjusting the content in the global.properties, you can make portability easy between a Stand-Alone and a Forecasting Shell
2. To set software options (see Configuration table below).

Known issues

1. all options are case sensitive
2. deprecated/obsolete properties not to be used anymore:
   a. identifier
   b. timeSeriesDefaultCacheSizeMB
   c. timeSeriesTaskRunCacheSizeMB
   d. docking (obsolete since 2014.02)
   e. doCaseConsistencyCheckOnMc (obsolete since 2017.02)
   f. tempDir (obsolete since 2018.01)

Configuration table

A list of special global properties manipulating the system instead of variables in xml is given below (all options are case sensitive):

Name	Default	Value	Description
alwaysAllowDummy ModuleInstanceRuns	false	boolean	TransformationModule is allowed to edit time series created earlier in the same workflow, the Transf ormationModule can create simulated time series for any ModuleInstanceId and this can create unexpected behaviour when making runs current, this can mess up the branching information of other workflows
alwaysAllowWriteSi mulatedBelongingT oAlreadyRunnedMo duleInstance	false	boolean	General adapter import activities time series sets should have the same ModuleInstance as the general adapter
BUFR_TABLES	$REGION_H OME$ /modules/bufr	string	See BUFR documentation
checkFileWillExistO nCaseSensitiveFile System	false	boolean	if configuration runs on Linux, this needs to be true. Only relevant when you use both Linux and Windows

COUNTRY / LANGUAGE / VARIANT	empty string	string	E.g. COUNTRY=AU, LANGUAGE=EN, VARIANT=BOM COUNTRY /LANGUAGE / VARIANT selects the language files that are used in the user interface LANGUAGE default is english. Other supported languages: - Dutch (nl) - German (de) - Spanish (es) - Chinese (LANGUAGE=zh, COUNTRY=CN) - Chinese / Taiwan (LANGUAGE=zh, COUNTRY=TW) - Indonesian (in) - Vietnamese (LANGUAGE=vi or LANGUAGE=vn)
DEFAULT_EXPIRY _DAYS	30 days	Any number of days	Sets the default expiry time for timeseries in the database. You can override this when storing individual timeseries by specifying the expirytime in the timeseriesSet
DEFAULT_EXPIRY _DAYS_LOGEVENT		Any number of days	Sets the default expiry time for logevents in the database.
DEFAULT_EXPIRY _DAYS_LOGEVEN T_MANUAL		Any number of days	Sets the default expiry time for manual logevents in the database.
doCaseConsistency CheckOnMc	false	boolean	(OBSOLETE since 2017.02) Check new config files for case insensitive matches on the MC. Important when you use both Linux and Windows.
docking	false		(OBSOLETE since 2014.02) Determines whether displays can be docked
GA_shiftExternalTi mesToYear2000	false	boolean	This setting is used to export data from the General Adapter always starting in the year 2000. True means this setting is used. This overcomes the issue with running FEWS after the year 10.000 which caused problems. Internally the dates are handled normally.
JdbcServerPort	2000	integer	IP port number on which the JDBC server will listen after startup
localDatastoreForm at	firebird	firebird; derby	(OBSOLETE since 2016.02, please use clientConfig.xml) Use firebird for the local datastore (instead of msaccess). Useful if you have large (> 2GB) datastores. When using firebird the localDataStore should be located at the physical hard disk and not at the network. You can also select derby for the LDS.
localDataStorePool Dir		any local directory	Sets the dir where a pool of max. 10 localdatastore directories is stored to be used by OC at Citrix like systems. Useful in case of using firebird as localdatastoreformat, which requires the localdatastore to be at the physical disk drive (not at the network!). For example: localDataStorePoolDir=C:/FewsLocalDataStores >> creates C:\FewsLocalDataStores\<Region>\localDataStore0, ...1, ...2 etc
mapLayersCacheDir		any local directory	Local directory to keep an up-to-date cache of maplayers which are retrieved from a network drive. Allows central maintenance of MapLayer-files without storage in the central database.
maxConfigFileSize MB	unlimited	real	Maximum size of configuration files that can be imported into the localDataStore using the ConfigManager
PI_SCHEMALOCA TION	http://fews. wldelft.nl /schemas /version1.0/pi- schemas/		If you do not want to use the Deltares schema location server, only used when FEWS writes xml files
readCompleteBranc hSimulatedHistorica lWhenReadComplet eForecast	false		since 2012.01 read complete forecast only reads the current historical run instead of the complete branch used for compatibility with version FEWS 2011.02
REPORT_HTML2P DF_PROGRAM	-	REPORT_HTML2PDF_PR OGRAM=% REGION_HOME% /Modules/Reports/bin /wkhtmltopdf.exe	See also Generate PDF from HTML report.
REPORTS_LEFTC OLMCID		MCID	Reference to MCID (e.g. MC00 or MC01) to put benchmark values in left or right column of a specific system status report
REPORTS_RIGHT COLMCID		MCID	Reference to MCID (e.g. MC00 or MC01) to put benchmark values in left or right column of a specific system status report
runInLoopParallelPr ocessorCount	1	integer	Maximum nr of cores (CPU's) Delft-FEWS can use to run ensemble loops in parallel. Set to 100 to use all available cores.

SCHEMALOCATION	http://fews.wldelft.nl/schemas/version1.0/		If you do not want to use the Deltares schema location server, only used when FEWS writes xml files
tempDir (Obsolete since 2018.01)	Windows default	string	Sets the temp dir to something other than the windows default e.g. =F:/Temp. Now always in regionhome/temp/session.
timeSeriesWriteCacheSizeMB	10 MB	50 MB	Temporary time series (synchLevel 9) are written to a temporary file when the size of the write cache is not large enough to hold them in memory. This will slow down the system. By increasing the size of the the timeseries write cache this can be avoided. In general this is only needed if you process large amounts of gridded data.
T0	-	string	Date/time to set the system time to (only available for stand-alone systems). The date/time should conform the pattern configured in the Explorer xml, or when that is not configured the default yyyy-MM-dd HH:mm:ss is used, for example : T0=2020-10-09 12:00:00
USE_CURRENT_SIMULATED_WITH_COLD_STATE_SELECTION	false	boolean	By default current simulated data of a module instance is visible during a run until the running forecast has started a new chain (i.e. selected a cold state) for that module instance. Setting this property to 'true' allows the use of a cold state selection in combination with timeseries of a current (approved) simulated forecast run
UseLenientPiTimeSeriesParser	false		makes the PITimeSeriesParser more tolerant to other data formats (e.g. 31-02)
EXPIRY_DAYS_OC_SESSION	30	Since 2023.01. By default there is only a history of OC sessions for 30 days	

Predefined variables

The following variables are always available and don't need to be configured. For compatibility reasons the %REGION_HOME% is recognized besides $REGION_HOME$

Variable	Example	Description
REGION_HOME	c:\fews\sealand	Root of the OC/FSS. This dir contains the the root config files, a localDataStore and optional a config dir
BIN_DIR	c:\fews\bin	Bin dir with the FEWS binaries used. Never write to this folder
USER_HOME	c:\users\john	User home dir. Equals the windows environment variable %USERPROFILE%
USER_NAME		Since 2018.02
FSS_ID		Since 2018.02
FSS_INDEX_AT_HOST		Since 2018.02
FSS_GROUP_ID		Since 2018.02
MC_ID		Since 2022.02
MC_NAME		Since 2022.02
HOST_NAME		Since 2020.02
TASK_ID		String 2022.01
TASK_RUN_ID		Since 2020.02
TASK_RUN_ID_FOR_PATH		Since 2022.01
TASK_USER_ID		Since 2022.01
WHAT_IF_ID		Since 2022.01
WHAT_IF_ID_FOR_PATH		Since 2022.01
WHAT_IF_NAME		Since 2021.02

Referencing other global properties in global properties

In the *global.properties earlier listed properties can be used to define a property value.

example

IMPORT_FOLDER=...

IMPORT_PI=$IMPORT_FOLDER$/PI

Referencing environment variables in global properties (Since 2021.01)

In the *global.properties environment variables can be used to define the property value.

example

IMPORT_FOLDER=%IMPORT_FOLDER%

Variable table

A suggested list of global variables that can be used in any xml configuration (except the the clientConfig.xml) with the use of $ signs around the variables (e.g. $EXPORT_FOLDER$). These are suggestions only, all variables can be defined.

Variable	Example	Description
ARCHIVE_EXPORT	=//SERVER/../.. /ARCHIVE /EXPORT	Path definition
ARCHIVE_IMPORT	=//SERVER/../.. /ARCHIVE /IMPORT	Path definition
EXPLORER_SYSTEMCAPTION	=Application Name	Option to set the CLIENT window title of the FEWS Explorer. In Explorer.xml the element <systemCaption> underneath <systemInformation> should contain a reference ($EXPLORER_SYSTEMCAPTION$) to this global property variable
EXPORT_FOLDER	=//SERVER/../.. /EXPORT	Path definition
EXPORT_FOLDER_SOURCE	=//SERVER/../.. /EXPORT /MATROOS	Path definition. Option to control the import/export folders in the global properties. This can be configured in the Import/Export Modules.
IMPORT_FOLDER	=//SERVER/../.. /IMPORT	Path definition
IMPORT_FOLDER_SOURCE	=//SERVER/../.. /IMPORT /ECMWF_DET	Path definition. Option to control the import/export folders in the global properties. This can be configured in the Import/Export Modules.