

NETCDF-CF_TIMESERIES Export

Overview



This export is available in DELFT-FEWS versions after 28-10-2009 (FEWS version 2009.02)

Exports data to NetCDF files which comply to the CF 1.4 standard.

More information about the cf standards can be found at: <http://cfconventions.org/>

There are six types of NetCDF-CF exports which can be defined:

- Time series ([NETCDF-CF_TIMESERIES](#))
- Profiles ([NETCDF-CF_PROFILE](#))
- Grids ([NETCDF-CF_GRID](#))
- Time series ([NETCDF-CF_TIMESERIES_MATROOS](#))
- Profiles ([NETCDF-CF_PROFILE_MATROOS](#))
- Grids ([NETCDF-CF_GRID_MATROOS](#))

Configuring the export

An example of the NETCDF-CF_TIMESERIES export will be given here.

ExportNetcdf_Timeseries 1.00 default.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<timeSeriesExportRun 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/timeSeriesExportRun.xsd">
  <export>
    <general>
      <exportType>NETCDF-CF_TIMESERIES</exportType>
      <folder>%REGION_HOME%/Export/netcdf/0D</folder>
      <exportFileName>
        <name>.nc</name>
        <prefix>
          <timeZeroFormattingString>yyyyMMddHHmm</timeZeroFormattingString>
        </prefix>
      </exportFileName>
      <idMapId>IdExportNetCDF</idMapId>
      <exportMissingValueString>-999</exportMissingValueString>
      <exportTimeZone>
        <timeZoneName>GMT</timeZoneName>
      </exportTimeZone>
    </general>
    <timeSeriesSet>
      <moduleInstanceId>ExportNetcdf_Timeseries</moduleInstanceId>
      <valueType>scalar</valueType>
      <parameterId>Q.udm</parameterId>
      <locationSetId>DMFlowPoints</locationSetId>
      <timeSeriesType>simulated historical</timeSeriesType>
      <timeStep unit="nonequidistant"/>
      <relativeViewPeriod unit="day" start="-365" end="365"/>
      <readWriteMode>add originals</readWriteMode>
    </timeSeriesSet>
  </export>
</timeSeriesExportRun>
```

An example of the IdMapping used for the NETCDF-CF_TIMESERIES export will be given below. In this example, the mapped locations correspond to the locations of the locatiesSet as defined above in the ExportNetcdf_Timeseries.xml.

If the parameter has an entry in the standard name CF table, you can enter it in the externalQualifier1 attribute of the parameter. The value of this qualifier will be added as the standard_name attribute for this variable in the netcdf exported file.

IdExportNetCDF 1.00 default.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<idMap version="1.1" xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/idMap.xsd">
  <parameter internal="Q.udm" external="discharge" externalQualifier1="discharge (not standardname, just
for test)"/>

  <location internal="DMTak_1001" external="1001"/>
  <location internal="DMTak_1002" external="1002"/>
  <location internal="DMTak_1003" external="1003"/>
  <location internal="DMTak_1004" external="1004"/>
  ...
  <location internal="DMTak_6115" external="6115"/>
</idMap>
```