

WSCC csv

Overview



This import is available in DELFT-FEWS versions after 06-12-2007

Imports time series data in csv format from the Woodleigh System Control Centre in Singapore. The first line is a header for each column indicating the location. The filename encodes the parameter. Eg., in the file **Aname_RF.txt** is parameter is RF (rainfall). If the column after a data columns has a header named "Qf" it is interpreted as a column holding quality flags for the data column. The flags are converted to DELFT-FEWS data flags using the [flagconversions](#) mapping.

Configuring the Import

The reader is named **WSCCcsv** which should be configured in the general section of the import. An [example import](#) configuration is shown below:

```
<?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>WSCCcsv</importType>
      <folder>${IMPORT_FOLDER}/WSCC</folder>
      <failedFolder>${IMPORT_FAILED_FOLDER}</failedFolder>
      <idMapId>IdImportWSCC</idMapId>
      <flagConversionsId>ImportFlagConversions</flagConversionsId>
      <importTimeZone>
        <timeZoneOffset>+08:00</timeZoneOffset>
      </importTimeZone>
    </general>
    <timeSeriesSet>
      <moduleInstanceId>ImportWSCC</moduleInstanceId>
      <valueType>scalar</valueType>
      <parameterId>H.obs</parameterId>
      <locationSetId>WSCC_Level</locationSetId>
      <timeSeriesType>external historical</timeSeriesType>
      <timeStep unit="minute" multiplier="10"/>
      <readWriteMode>add originals</readWriteMode>
      <synchLevel>1</synchLevel>
      <expiryTime unit="day" multiplier="3650"/>
    </timeSeriesSet>
  </import>
</timeSeriesImportRun>
```

An [example IdMapping](#) file (that maps the first column of the also attached [example input file](#)) is shown below:

```
<?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="H.obs" external="LEV"/>
  <parameter internal="Q.obs" external="FLW"/>
  <parameter internal="P.obs" external="RF"/>
  <parameter internal="Q.rated" external="VOL"/>
  <!-- vlume -->
  <location internal="LowerPierce" external="S23-USR-LEV-RES-1"/>
</idMap>
```

An [example flag conversions](#) file for the WSCC data is shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<!--WSCC flag conversion file for Import-->
<flagConversions 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/flagConversions.xsd">
<!-- F - Telemetry Failed
N - Telemetry Normal
M - ManuallySet ( value set by the opeartor)
B - Blocked ( alarm disabled by the operator )
C - Calculation Failure
-->
    <flagConversion>
        <inputFlag>
            <name>Telemetry Failed</name>
            <value>F</value>
        </inputFlag>
        <outputFlag>
            <name>ORIGINAL_MISSING</name>
            <value>9</value>
            <description>Missing value in originally observed series.
Note this is a special form of both ORIGINAL/UNRELIABLE
and ORIGINAL/RELIABLE.</description>
        </outputFlag>
    </flagConversion>
    <flagConversion>
        <inputFlag>
            <name>Telemetry Normal</name>
            <value>N</value>
        </inputFlag>
        <outputFlag>
            <name>ORIGINAL_RELIABLE</name>
            <value>0</value>
            <description>Observed value retrieved from external data source.
Value is valid, marked as original reliable as validation is yet to be done</description>
        </outputFlag>
    </flagConversion>
    <flagConversion>
        <inputFlag>
            <name>ManuallySet ( value set by the opeartor)</name>
            <value>M</value>
        </inputFlag>
        <outputFlag>
            <name>CORRECTED_RELIABLE</name>
            <value>1</value>
            <description>The original value was removed and corrected.
Correction may be through byteerpolation or manual editing</description>
        </outputFlag>
    </flagConversion>
    <flagConversion>
        <inputFlag>
            <name>Blocked ( alarm disabled by the operator )</name>
            <value>B</value>
        </inputFlag>
        <outputFlag>
            <name>ORIGINAL_UNRELIABLE</name>
            <value>6</value>
            <description>Observed value retrieved from external data source.
Value is invalid due to validation limits set. Value is removed.</description>
        </outputFlag>
    </flagConversion>
    <flagConversion>
        <inputFlag>
            <name>Calculation Failure</name>
            <value>C</value>
        </inputFlag>
        <outputFlag>
            <name>ORIGINAL_DOUBTFUL</name>
            <value>3</value>
            <description>Observed value retrieved from external data source.
Value is valid, but marked as suspect due to soft validation limits being exceeded</description>
        </outputFlag>

```

```

    </flagConversion>
    <defaultOutputFlag>
      <name>ORIGINAL_RELIABLE</name>
      <value>0</value>
      <description>The data value is the original value retrieved from an
external source and it successfully passes all validation criteria set.</description>
    </defaultOutputFlag>
    <missingValueFlag>
      <name>ORIGINAL_MISSING</name>
      <value>9</value>
    </missingValueFlag>
  </flagConversions>

```

The file format

Date	Time	TN-1	QF-1	TN-2	QF-2	TN-3	QF-3	TN-N	QF-N
Data Type	date	time	float	Char(1)	float	Char(1)	float	float	
Char(1)	float	Char(1)							
Data Format	ddmmyyyy	hh:mm		xxxx.xxxxxx	xxxx.xxxxxx		xxxx.xxxxxx		xxxx.
xxxxxx									

NOTE :

- All the columns in text file will be separated by comma(,) character
- Value of all the Columns contains the Rain Fall value for that particular time interval.
This rain fall value is derive from current (raw accumulated pulse) value - previous (raw accumulated pulse) value, in other words the rain fall (in mm) within that time interval (i.e. 10 mins).
- Definition of the Data quality flags(QF) as listed below;

F	Telemetry Failed
N	Telemetry Normal
M	ManuallySet (value set by the opeartor)
B	Blocked (alarm disabled by the operator)
C	Calculation Failure

- Name of the text file will be 'yyyymmddhhmm_PARAMETER'
Eg. 200703121500_RF
- TN stands for TagName (parameter name) which defined in the SCADA System. Also user can customise the TN which may different from the SCADA System

Example:

```

Date,Time,S23-USR-LEV-RES-1,Qf,S48(51)-UPP-LEV-RES-1,Qf,S46(50)-LPP-LEV-RES-1,Qf,S46(24)-MCP-LEV-RES-1,Qf
06052007,02:10,2.232906,N,8.376068,N,0.271062,F,0.039377,N
06052007,02:20,2.232906,B,8.376068,N,0.271062,F,0.039377,N
06052007,02:30,2.232906,F,8.376068,N,0.271062,F,0.039377,N
06052007,02:40,2.232906,M,8.376068,N,0.271062,F,0.039377,N
06052007,02:50,2.232906,C,8.376068,N,0.271062,F,0.039377,N
06052007,03:00,2.232906,N,8.376068,N,0.271062,F,0.039377,N

```