

# FTS .xml Configuration File Viewer

*Water Survey of Canada*

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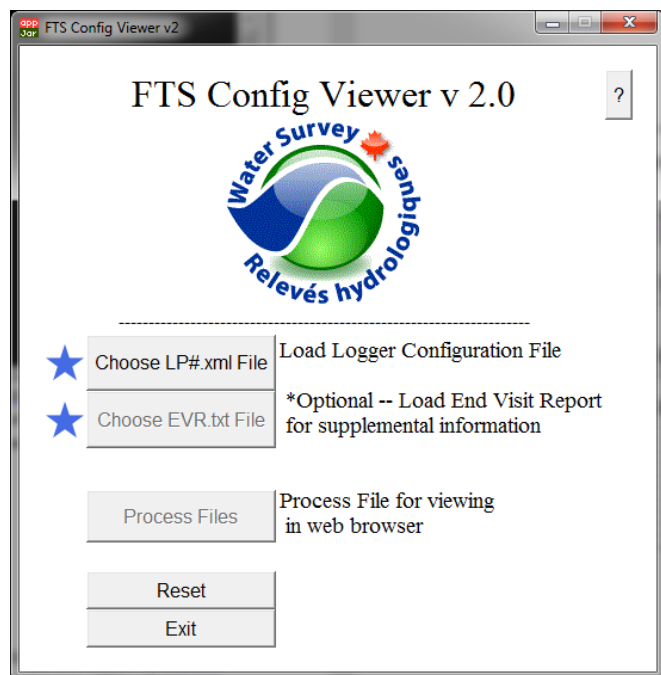
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*Version 2.0 – 2018-08-13*

## Introduction

This program was developed to aid WSC Technicians in the identification of issues with and the archiving of FTS Logger programming. It does not replace proper training and on site problem solving. This program fills the gap between machine readable eXtensible Markup Language (XML) and more human readable formats. This program creates a human readable copy of the configuration file, with the option of including supplemental information from the End Visit Report, which is rendered via a web browser. The rendered file can be printed, converted to PDF, or stored as needed.

The new file created by the program for the purposes of viewing CANNOT then be used in an FTS logger as a configuration file.



## Usage

The downloaded FTS logger config files (.xml) are typically renamed STATION\_DATE\_LP#.xml - this file should be opened by the user. The user can also name the Ending Visit Report as STATION\_DATE\_EVR.txt, place it in the same station folder, and optional open this file. The program reads the file(s) and creates a new configuration file with a copy of the original xml and portions of the EVR embedded. Furthermore, a pointer to a custom xsl (stylesheet) is embedded within the file. The program copies both the new file and the stylesheet to a C:\temp\FTSViewer\ folder. The program then attempts to open the new configuration file in the windows default program (likely a browser window).

1. Open the Program
2. Select the \_LP#.xml file
3. OPTIONAL – Select the End Visit Report that matches the LP#.xml (same date)
4. Process the file(s)
5. Print/Save/PDF the file from within the Browser (or other editor)
6. Exit the program

## Example Output

Once open in a web browser, the user can print, or save to an alternate format such as PDF.

The screenshot shows a web browser displaying the FTSSConfigViewer application. The address bar shows the file path: file:///C:/temp/FTSSViewer/Configuration-2018-7-25-14-52-55\_FTSSConfigViewer.xml. The application interface includes a header section with station details, a time zone selector, and several data tables.

**Station Number:** 02BF014  
**Station Name:** GOULAIS RIVER NEAR KIRBY'S CORNER

**Standard Time Zone:** Eastern Standard Time **Time Bias:** 05:00:00

**Visit Report Supplement**

| Logger Model | Version | S#                          | OS Ver | AS Ver                        | Device 1 | Standard | Serial # | Ant Bearing | Ant Incln | Device 2 |
|--------------|---------|-----------------------------|--------|-------------------------------|----------|----------|----------|-------------|-----------|----------|
| H2-G5-TLM    | 2       | 55686, Mfg Date: 01/04/2013 | 3.11   | 3.5.1.1, Firmware Version: 15 | G5       | CS2      | 11505132 | 167° True   | 35°       | FTS      |

**Satellite Telemetry Summary**  
**Active Transmitter - G5**

| Telem Type | Network | NesID    | Standard | Format | Interval | BitRate | 1stTrans | Window   | Channel | Centering | Satellite | Enabled? |
|------------|---------|----------|----------|--------|----------|---------|----------|----------|---------|-----------|-----------|----------|
| G5         |         | 482907C4 | CS2      | WSC    | 3600     | 300     | 00:15:30 | 00:00:15 | 145     | Y         | EAST      | Y        |

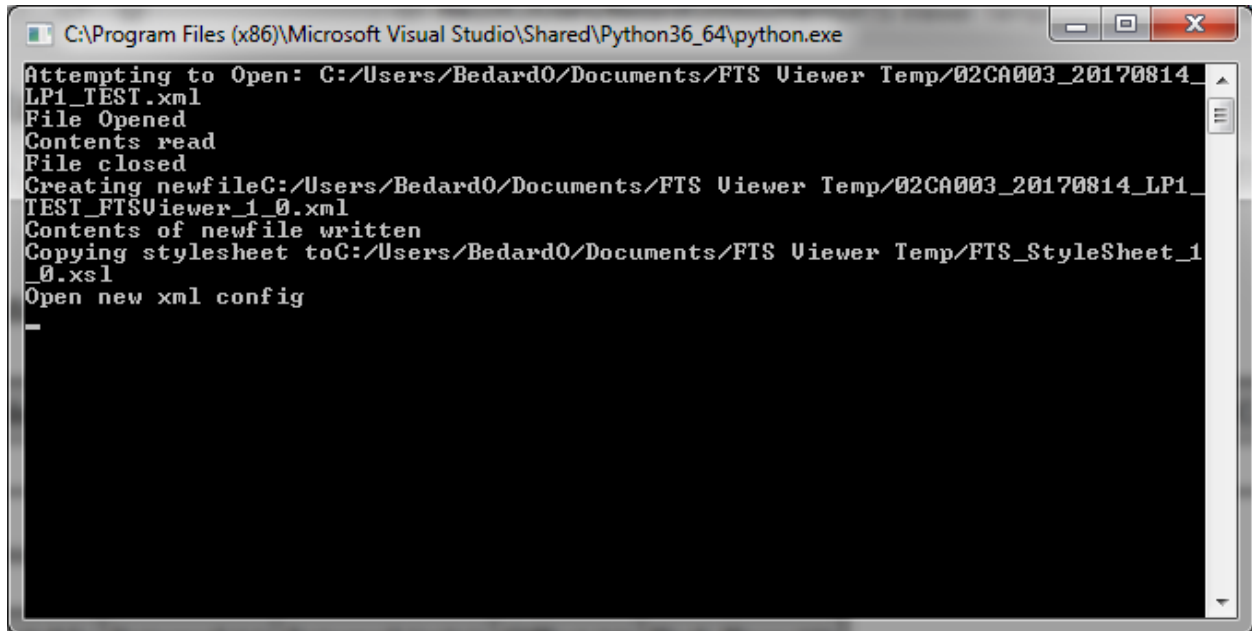
**Message Information**

| Telem Type | Variable | Interval (s) | Interval (min) | Offset (s) | Red. Recs (#) |
|------------|----------|--------------|----------------|------------|---------------|
| G5         | HG       | 300          | 5              | 0          | 0             |
| G5         | VB       | 3600         | 60             | 0          | 0             |
| G5         | YI       | 3600         | 60             | 0          | 0             |
| G5         | YP       | 3600         | 60             | 0          | 0             |
| G5         | TA       | 3600         | 60             | 0          | 0             |
| G5         | TW       | 3600         | 60             | 0          | 0             |
| G5         | PP       | 3600         | 60             | 0          | 0             |
| G5         | PC       | 3600         | 60             | 0          | 0             |
| G5         | YF       | 3600         | 60             | 0          | 0             |
| G5         | YR       | 3600         | 60             | 0          | 0             |
| G5         | SWR      | 3600         | 60             | 0          | 0             |

**Sensors**

## Troubleshooting

- Ensure that you have read/write privileges in the file folder (if not, copy to a local folder)
- The command window offers insight into the background happenings. More user feedback is provided for troubleshooting purposes.



```
C:\Program Files (x86)\Microsoft Visual Studio\Shared\Python36_64\python.exe
Attempting to Open: C:/Users/Bedard0/Documents/FTS Viewer Temp/02CA003_20170814_LP1_TEST.xml
File Opened
Contents read
File closed
Creating newfileC:/Users/Bedard0/Documents/FTS Viewer Temp/02CA003_20170814_LP1_TEST_FTSViewer_1_0.xml
Contents of newfile written
Copying stylesheet toC:/Users/Bedard0/Documents/FTS Viewer Temp/FTS_StyleSheet_1_0.xsl
Open new xml config
-
```

- Any issues should be directed to [otto.bedard@canada.ca](mailto:otto.bedard@canada.ca) with as thorough a description as possible – include screenshots if possible.

# Changelog

## Version 2.0

- Added option to include End Visit Report Supplemental Information
- Updated Stylesheet to include End Visit Report information
- Reset Button Added
- Help Button added
- Minor formatting

## Version 1.5

- Minor formatting
- Expanded information for Processes, including scripts, delta, maxmin, etc
- Reduction of duplicate information in Telemetry section
- Updates to styling information

## Version 1.4

- Minor formatting
- Added FieldNum to sensors table

## Version 1.3

- Sticky Station Name/Number
- Expansion of SDI-AM information into separate tables
- Link to photo of SDI-AM
- Fix for Time Zone Bias
- Updates to Manual

## Version 1.2

- Files now stored in c:\temp\FTSViewer for clarity

## Version 1.1

- Formatting fixes
- Add Test for multiple Telemetry modes

## Version 1.0

- Initial Release

## Version 0.9

- Development Release