FTS Config Viewer

Water Survey of Canada
ottO Bédard, MSc.
*otto.bedard@canada.ca*
Version 2.4 – 2019-12-06

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
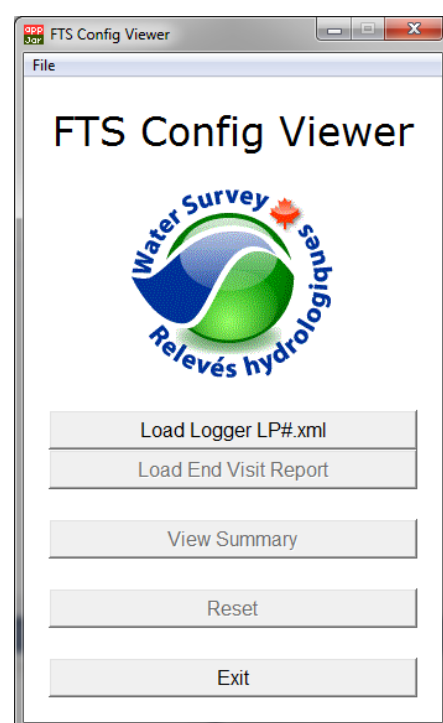
The downloaded FTS logger config files (.xml) are typically renamed STATION_DATE_LP#.xml - this file should be opened by the user. The user can also name the Ending Visit Report as STATION_DATE_EVR.txt, place it in the same station folder, and optional open this file. The program reads the file(s) and 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 (_EVR) that matches the LP#.xml (same date)
4. View the Summary

5. Print/Save/PDF the file from within the Browser (or other editor)
6. Exit the program

Quick Tip

- Be sure that the default program to open .xml files is a web browser (I suggest FireFox or Chrome)

Example Output

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

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 Inclin	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
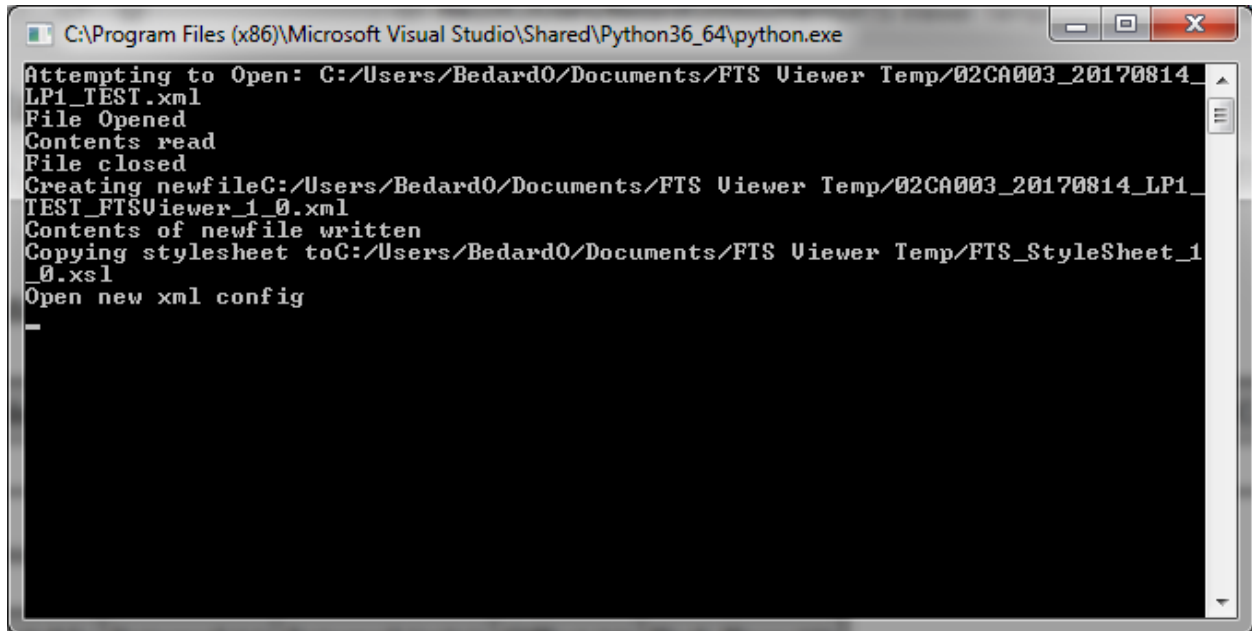
Message Information

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/BedardO/Documents/FTS Viewer Temp/02CA003_20170814_
LP1_TEST.xml
File Opened
Contents read
File closed
Creating newfileC:/Users/BedardO/Documents/FTS Viewer Temp/02CA003_20170814_LP1_
TEST_FTSViewer_1_0.xml
Contents of newfile written
Copying stylesheet toC:/Users/BedardO/Documents/FTS Viewer Temp/FTS_StyleSheet_1
_0.xsl
Open new xml config
```

- Any issues should be directed to otto.bedard@canada.ca with as thorough a description as possible – include screenshots if possible.

Changelog

Version 2.4
- Overhaul of the "Check Version" algorithm
    - Switched to gitraw from FTP storage

Version 2.3
- GUI complete overhaul
- Addition of File… menu to include About, Help, Version
- Version Checking looks to FTP site for most recent versions
- Addition of error and info messages for user feedback
- Significant changes to stylesheet (see .xsl for development notes)

Version 2.2
- Formatting and minor changes, not released

Version 2.1
- Extended Visit Report information
- Minor formatting

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