Restart Surveyor Utility

This utility is run in order to monitor the analyzer supervisor. It pings the supervisor at 30s intervals and if no response is found after a specified number of attempts, the system is restarted. The program is placed in HostExe\RestartSurveyor.exe.

# The configuration file

The configuration file for the program may be specified on the command line with a –c option. It is typically placed in AppConfig\Config\RestartSurveyor\RestartSurveyor.ini.

## [Main] section

The options in this section are as follows:

* SurveyorApp: File name and path to the program which starts the analyzer software. For Surveyor, this is typically C:\Picarro\G2000\Picarro.Surveyor.Analyzer\Picarro.Surveyor.Analyzer.exe.
* LaunchArgs: Any arguments to be passed to the application which starts the analyzer. This can be blank.
* RestartThreshold: The number of pings that the supervisor needs to miss before the analyzer is restarted.

## [AppsToTerminate] section

These applications are terminated (using the Windows taskkill /f command) when the supervisor is found to be unresponsive. Note that it is necessary to include the SurveyorApp defined in the [Main] section above in this list. However, only the file name (without the path) should be placed here. Each option name should begin with App followed by any characters to make the name unique. Thus for example, we could have

* App1 = Picarro.Surveyor.Analyzer.exe
* App2 = Serial2Socket.exe
* App3 = HostStartup.exe

# Starting up the utility

The utility is placed in the user startup group so that it starts with Windows as follows:

* Name: Restart Surveyor
* Filename: c:\Picarro\G2000\HostExe\RestartSupervisor.exe
* Working Directory: c:\Picarro\G2000\HostExe
* Parameters: -c ..\AppConfig\Config\Utilities\RestartSupervisor.ini

# Required entry in Driver.ini file

When a safe mode error occurs, we need the driver to stop the supervisor. This can be done by adding the option maxSafeModeWarnings = 10 to the [Supervisor] section in the AppConfig\Config\Driver\Driver.ini file.

# Repository Changes

The following files have been modified to implement this functionality:

* Host/Utilities/RestartSurveyor/RestartSurveyor.py and .ini: Source code
* Host/PicarroExeSetup.py: Code to compile utility into an executable in HostExe
* Tools/Release/InstallerScriptsWin7/setup\_FEDS\_Surveyor.iss: Start executable with Windows startup
* Config/FEDS/AppConfig/Config/RestartSurveyor/RestartSurveyor.ini: Configuration file