AlazarTech API Flags

Version 0.0.8
April 25, 2011

Introduction

ATSApi.dll version 5.6.10 and later can write messages to a log file named ATSApi.log. The ApiFlags program allows you to control the location of this file, and the type of information that is written to it.

Installation

Double-click on the API Flags setup program. The setup program installs the ApiFlags program on your computer, and creates a link to it on your desktop. Use the Windows "Add/Remove Programs" Control Panel applet to uninstall the program.

ApiFlags requires AlazarTech digitizer board drivers version 5.6.10 or later. If you have an earlier driver version, you must update to 5.6.10 or later to use this software. You can download the latest drivers from our website:

http://www.alazartech.com/support/downloads.htm.

Usage

Before running the ApiFlags program, you should exit any programs that are using ATSApi.dll, such as LabVIEW and AlazarDSO. This is because any changes made by ApiFlags will only take effect the next time that ATSApi.dll is loaded.

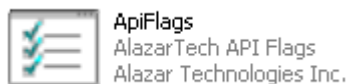Double click on the ApiFlags icon to run the program.

Figure 1 ApiFlags Program Icon

Check the "Log API calls" check box to enable logging calls into ATSApi.dll and then press the OK button.

Next run a program using ATSApi.dll. The DLL will write debugging information to a log file as the test program runs. Once you have finished your experiment, exit the test program.

Run the ApiFlags program again. You should be able to click on the "View" button to open the log file in the default Windows text editor. You may want to save this file to a convenient location so that you can email it to AlazarTech support. Uncheck the "Log API calls" check box and press the OK button.
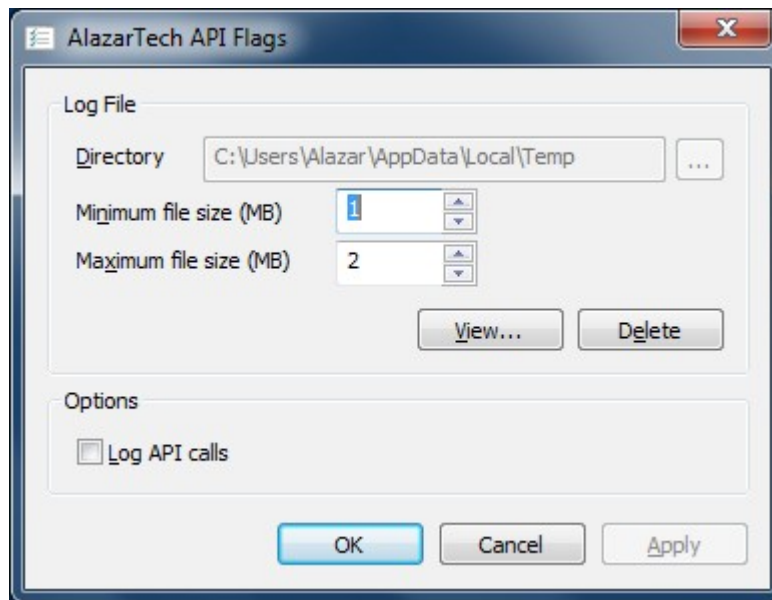
Reference

Figure 2 ApiFlags Main Window

Directory
This is the directory where ATSApi.dll creates its log file named ATSApi.log.
In ATSApi.dll version 5.6.10, this directory is the Windows temporary files directory.

Minimum log file size
Maximum log file size
Enter the minimum and maximum size for the log file in MB. If the file grows bigger than the maximum size, then it will be truncated to the minimum file size by discarding the least recent log file entries.

View
Press this button to display the AlazarTech API log file. Note that this button is only enabled if a file named "ATSApi.log" file is found in the log file directory.

Delete

Press this button to delete the AlazarTech API log file. Note that this button is only enabled if a file named "ATSApi.log" file is found in the log file directory.

Log API calls

Check this box for to enable logging API calls by client applications to ATSApi.dll. The date, time, API name, parameters, and return value of each API call will be written to the log file.

For example, if a program such as LabVIEW calls AlazarPostAsyncBuffer, then an entry such as the one below will be appended to the log file:

```
2008/11/05 13:18:41.019 AlazarPostAsyncBuffer (0x00000C90, 0x07ED0020,
2048000) = ApiSuccess
```

OK

Apply the current settings and exit.

Cancel

Discard the current settings and exit.

Apply

Apply the current settings. Note that this button is only enabled if the currently displayed settings are not the same as the most recently applied settings.

Contact us

Please contact us if you have any questions or comments about this software.

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Release History

Date	Version	Description
2011/04/25	0.0.8	• Add an "Apply" button
2010/05/27	0.0.7	• Fix manifest resource identifier
2009/08/06	0.0.6	• Add code to check periodically for a log file.
2008/11/26	0.0.5	• Add setup program and update documentation.
2008/11/19	0.0.4	• Update documentation
2008/11/12	0.0.3	• Add "Delete" button to delete log file.
2008/11/10	0.0.2	• Add "View" button to display log file. • Add support for 64-bit Windows • Change registry path from HKLM to HKCU so that Vista x64 users do not require elevation.
2008/11/06	0.0.1	• Initial release.