The Data timeout plugin
PRINTED MANUAL

Data timeout plugin

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1 Introduction

This filter plugin allows you to generate events if you do not receive data from a data source (for example, a device or port) within a defined interval for any reason. It enables the program to warn you and specify visual or audible alerts with the help of event handling plugins.

By setting up this filter plugin, you can proactively monitor the data flow and ensure that you are promptly notified in case of any disruptions or delays. This can be particularly useful in network monitoring, system administration, and other applications where timely data transmission is crucial for operations.

2 System requirements

The following requirements must be met for "Data timeout" to be installed:

Operating system: Windows 2000 SP4 and above, including both x86 and x64 workstations and servers. The latest service pack for the corresponding OS is required.

Free disk space: Not less than 5 MB of free disk space is recommended.

Special access requirements: You should log on as a user with Administrator rights in order to install this module.

The main application (core) must be installed, for example, Advanced Serial Data Logger.

3 Installing Data timeout

1. Close the main application (for example, Advanced Serial Data Logger) if it is running;
2. Copy the program to your hard drive;
3. Run the module installation file with a double click on the file name in Windows Explorer;
4. Follow the instructions of the installation software. Usually, it is enough just to click the "Next" button several times;
5. Start the main application. The name of the module will appear on the "Modules" tab of the "Settings" window if it is successfully installed.

If the module is compatible with the program, its name and version will be displayed in the module list. You can see examples of installed modules on fig.1-2. Some types of modules require additional configuration. To do it, just select a module from the list and click the "Setup" button next to the list. The configuration of the module is described below.

You can see some types of modules on the "Log file" tab. To configure such a module, you should select it from the "File type" list and click the "Advanced" button.

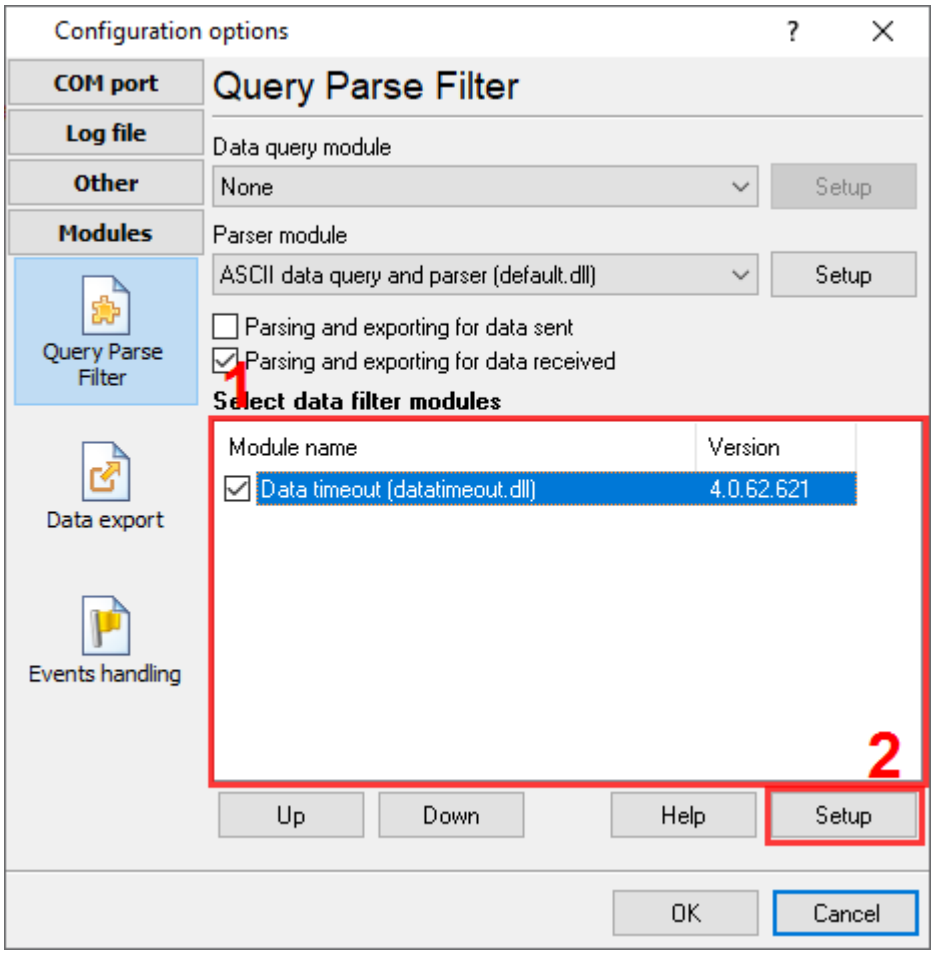

Fig. 1. Example of installed module

4 Glossary

Main program - it is the main executable of the application, for example, Advanced Serial Data Logger and asdlog.exe. It allows you to create several configurations with different settings and use different plugins.

Plugin - it is the additional plugin module for the main program. The plugin module extends the functionality of the main program.

Parser - it is the plugin module that processes the data flow, singling out data packets from it, and then variables from data packets. These variables are used in data export modules after that.

Core - see "Main program."

5 Configuration

The module configuration is very simple (fig.1). You should specify one or more parser variables (up to 4) from a data parser plug-in and timeout parameters for each variable.

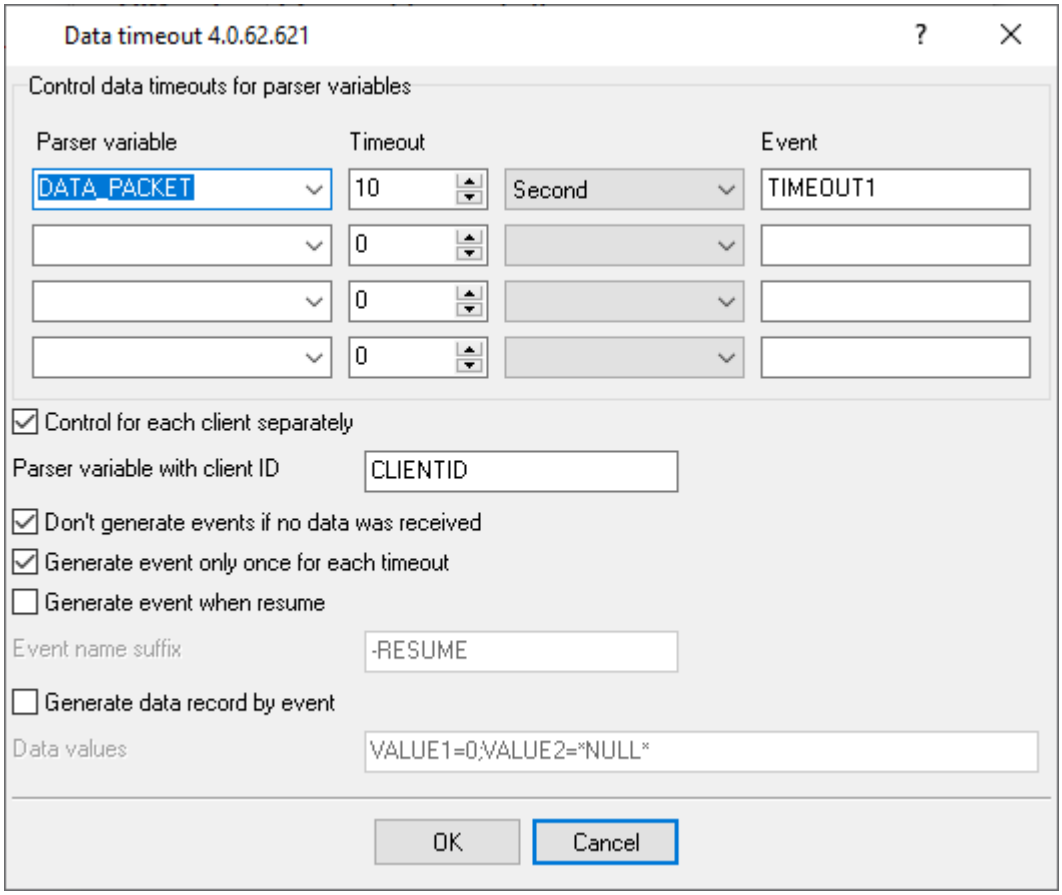

Fig.1. Configuration window

Parser variable - select a parser variable from the list of type its name manually. You can specify the "*" character instead of the parser name. In this case, the defined rule will be checked for all received variables.

Timeout - timeout interval and units.

Event - name of the event. You can specify any name and use this name in an events handling plug-ins (for example, Events notifications).

Do not generate event if not data was received - the plugin will measure timeouts after first data packet.

Generate event only once for each timeout - if enabled, the plugin will generate an event only once when detected a timeout. Otherwise the plugin will generate the event every timeout interval.

Generate event when resume - if enabled, the plugin will generate the specified event a data packet was received after timeout. The specified suffix will be added the event name.

Control for each client separately - if enabled, the plugin will handle data and detect timeouts for each TCP client separately (works only in data loggers with the TCP interface).

Generate data record by event - you can generate a data row instead of an event when the timeout event occurs. It allows you to insert or log this data record for further analysis in your application.

A data row may look like:
VALUE1=0;VALUE2=NULL

VALUE1 - this is the variable name, 0 - this is the value.

Detected timeouts - if the plugin controls many variables and detects data timeouts for some parser variables, you can check the plugin status by clicking the "Show" button. The status window will include the variable name and time since the last data was received (HOURS:MINUTES:SECONDS).