

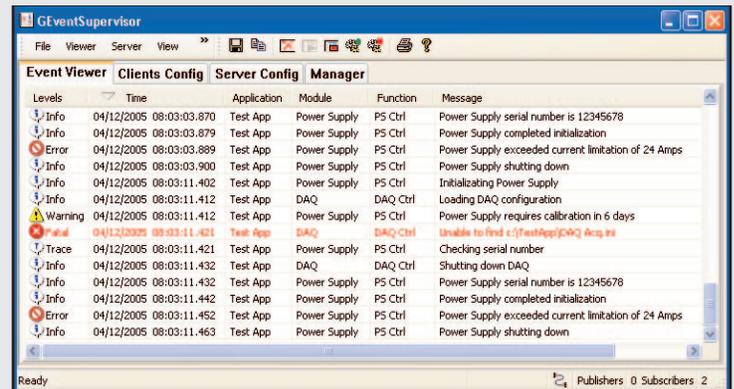
G SYSTEMS EVENT TRACKER

FEATURES

- Timestamps event messages to millisecond resolution
- Logs event messages to disk
- Language independent interface
- Multiple event filtering options
- Log files automatically purged as specified
- LabVIEW toolkit available

BENEFITS

- Reduces costs
- Saves time
- Simplifies debugging of hardware / software
- Improves customer service / feedback
- Live event viewing
- Faster development / debugging



Event Viewer ActiveX control allows live event viewing with little or no programming.

OVERVIEW

G Systems Event Tracker provides an easy-to-use, high performance event logging capability that can be accessed from almost any programming language. It not only logs the events to disk, but provides an Active-X component for viewing events on-screen as they occur.

Event Tracker simplifies the process of debugging a system by giving the developer and operator clear and timely insight into key pieces of information about the operation of the system. For example, hardware and software errors, warnings, status information and

debug messages are clearly identified and filtered. In addition, the information can easily be logged to disk. Several types of information may be associated with each event message:

- Event Level – Errors, Warnings, Information, Debug, Trace + User defined levels
- Date/Time stamp
- Application, Module, Function names
- Message text
- ThreadID – useful for debugging multithreaded apps.

BENEFITS

Event Tracker greatly simplifies the process of debugging hardware and software in a test and measurement system. By adding event messages at key points in the test software, problems can be isolated quickly or user actions can be tracked. Potential timing problems can be resolved by examining the millisecond resolution time stamp associated with each message.

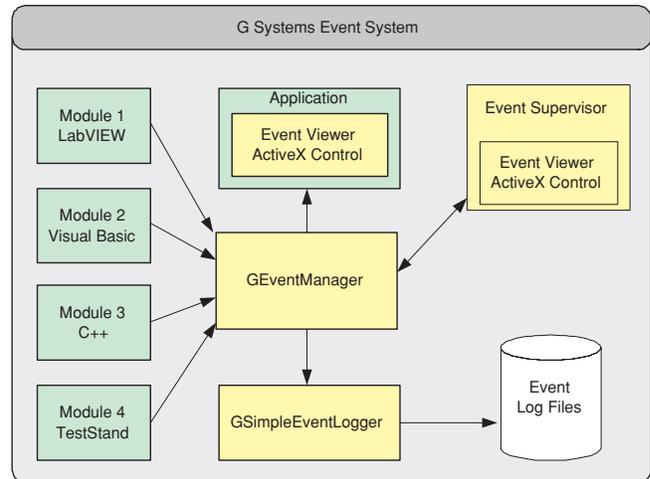
If a problem occurs after a system is deployed, the user can send the event log files to the developer who often can identify and solve the problem without a costly site visit to replicate it.

Event Tracker is particularly useful for solving intermittent problems. In this case, additional Trace and Debug messages can be embedded in the code and Event Logger configured to log them. When the problem occurs, a detailed trace log is available. Once the problem is solved the logging of Debug and Trace messages can be disabled.

Event Tracker also provides an audit trail for test and measurement systems so that information such as the user's name, the system configuration, and hardware serial numbers can be recorded to disk. Event Tracker can also be used to provide real-time feedback to the user about system performance. This feature is particularly useful during time consuming operations such as calibration or data analysis.

Event Tracker Components

Event Tracker consists of several components. The GEventManager is the core of the system and implemented as a Windows Service so that once installed, it runs automatically and does not require user intervention. Any number of clients can connect to the GEventManager to write event messages or to register to receive messages.

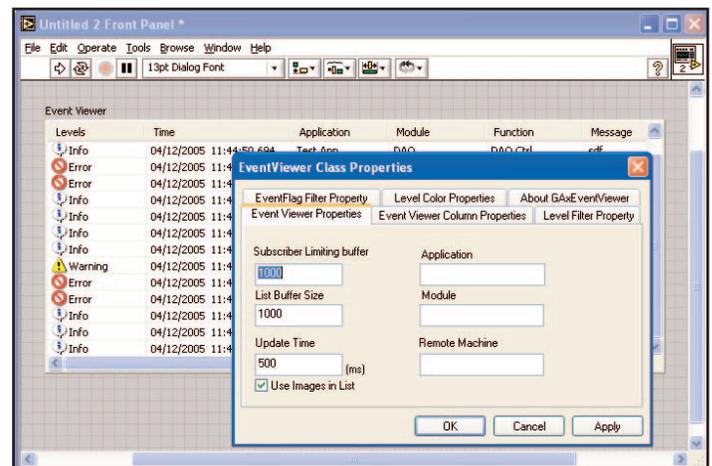


Event Tracker Architecture

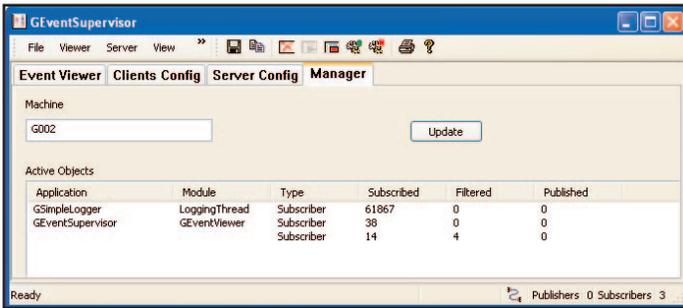
The GEventManager provides very high throughput while having minimal performance impact on its client applications. Bursts of over 10,000 event messages per second can be processed allowing for event logging even in very fast loops. Also, the GEventManager filters event messages allowing clients to immediately discard unneeded event records.

The Event Viewer ActiveX Control provides the following features:

- Design time configuration and Column Sorting
- Event Filtering on Flags and Levels
- Copy To Clipboard functionality
- Custom formatting based on event level



Event Viewer ActiveX Control with Properties



GEventSupervisor

The GSimpleEventLogger retrieves event messages from the GEventManager and writes them to a simple ASCII text file. It can be configured to filter the events by level or by user defined flags. It also provides for automatic log file purging after a defined number of days to optimize disk space. Event Tracker allows multiple event loggers to be executed simultaneously, and custom event loggers are easily developed.

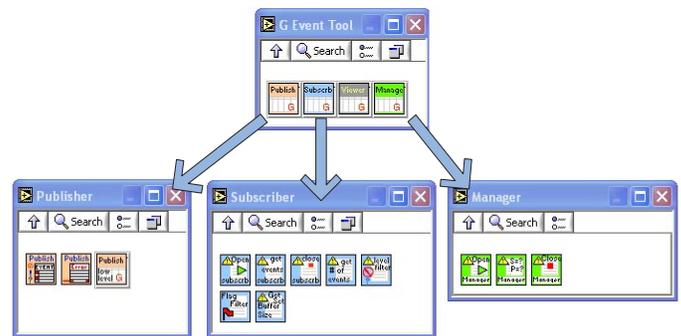
The GEventSupervisor is a standalone application that provides control and configuration of all features of the Event Tracker.

The GEventSupervisor provides the following features:

- Viewing of current event messages on local or remote machines
- Automatic startup of client applications such as event loggers
- Configuration of client applications
- Viewing of connected event clients on local or remote machines
- Generation of custom XML-based reports.

Event Tracker LabVIEW Toolkit

As the GEventManager is a COM/DCOM component, it is easy to use from almost any programming language including LabVIEW, C++, LabWindows/CVI, Visual Basic and Excel. In order to further simplify the use of Event Tracker for LabVIEW programmers, a LabVIEW toolkit has been developed that wraps the functionality of Event Tracker so that LabVIEW developers can directly access its features from the LabVIEW Functions palette.



LabVIEW Toolkit Palette

SUMMARY

G Systems Event Tracker provides a powerful and flexible tool for developing test and measurement systems that are easy to debug and maintain. G Systems has used Event Tracker in numerous projects to save time and cost in development, deployment, and maintenance of the systems.



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