

Description: Guide to running TraceWorX32 to find OPC Communication issues.

OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7

General Requirement: N/A

Introduction

TraceWorX32 provides online diagnostics and tuning of applications running in the GENESIS32 system. It is designed for system integrators, OEMS, and customers who want tools for doing their own troubleshooting and diagnostics.

TraceWorX32 tracks the runtime activity for each GENESIS32 applications and logs the runtime data to a log file based on user-configured trace levels. The log file provides a thorough, color-coded report detailing all activity for the application, including the time, the date, the severity level, and the description of the even or problem.

This document will list the steps you should take to turn on TraceWorX32 to monitor OPC communication issues on your server and client machine.

Setting up TraceWorX32 on the Server

- 1. Open TraceWorX32 from Start → Programs → ICONICS Tools → TraceWorX32
- 2. The file opens in your web browser with all the modules that are available for tracing.

NOTE: Internet Explore may have restricted you from viewing this file. You should click on the message and select “Allow Blocked Contents...” to view the modules.

- 3. Select GenBroker Server in the list of modules.

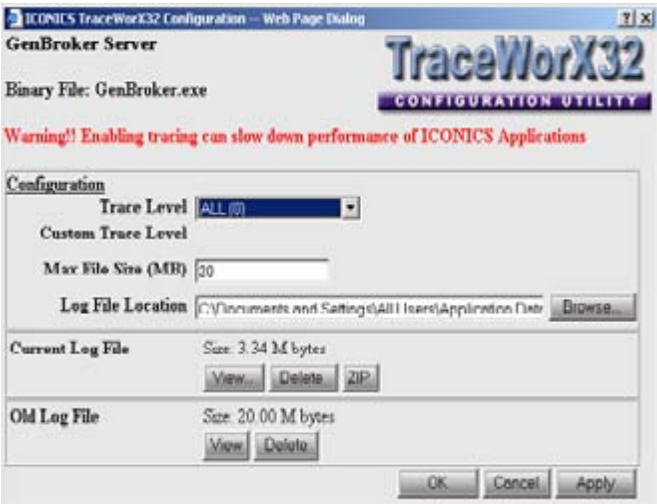


Figure 1 - GenBroker Server Trace Configuration

- 4. In the window that comes up, set the Trace Level to ALL(0).You can change the Max File Size, by default it is 0, which means that the file can grow infinitely large. You can also change the Log File Location to somewhere that is more convenient for you to find later.
- 5. Figure 2 shows an example of the GenBroker log file. If your file does not look similar to it or does not continuously increase in size, then there is a communication problem that may be better diagnosed by looking at the client-side.

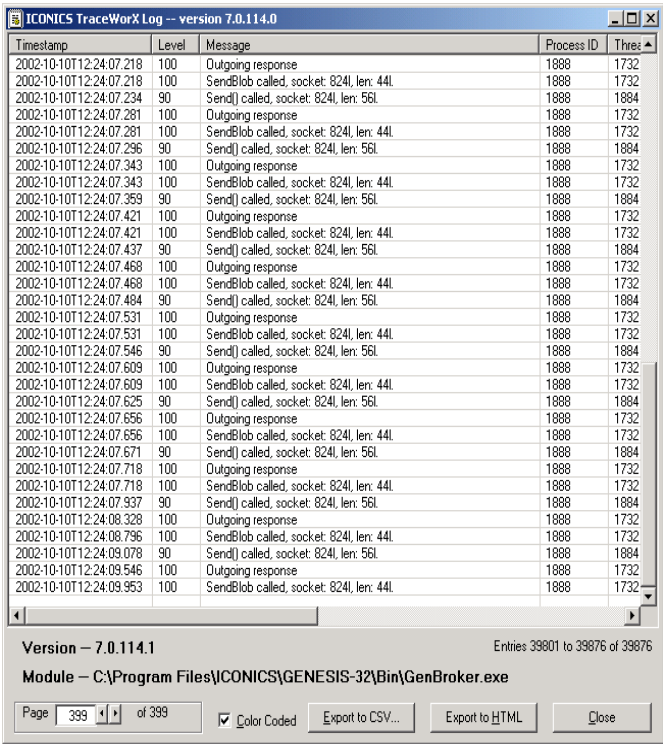


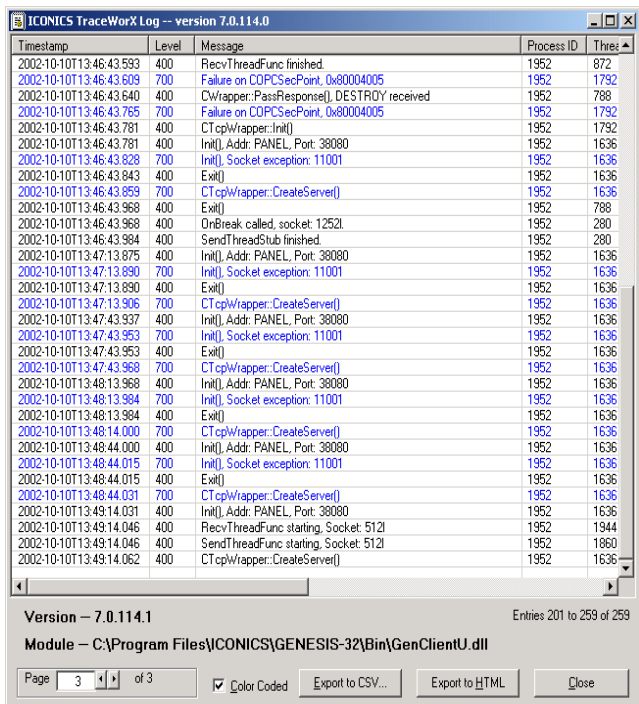
Figure 2 - Sample GenBroker Log File

Setting up TraceWorX32 on the Client

- 1. Open TraceWorX32 the same way you launched it on the server machine.
- 2. Turn on tracing for GenClient, GenClientU, and any ICONICS modules that requests OPC data..

NOTE: You can follow Step 4 in the previous section to setup the tracing level and trace log file path.

- 3. If there is disruption between communications, you will see message with high severity on your GenClient log similar to Figure 3.



ICONICS TraceWorkX Log -- version 7.0.114.0

Timestamp	Level	Message
2002-10-09T21:52:31.593	400	Registry: Use Language Aliasing = 1
2002-10-09T21:52:46.078	800	Severely: 750, Message: GraphW/oc\32/HVAC_AHU1: Failed to get localeID for language
2002-10-09T21:53:31.109	400	Open VBFX Project
2002-10-09T21:53:31.250	400	AddOLEClientItems
2002-10-09T21:53:35.265	400	Open VBFX Project
2002-10-09T21:53:35.328	400	AddOLEClientItems
2002-10-09T21:53:37.468	800	Severely: 750, Message: GraphW/oc\32/HVAC_Chiller1: Failed to get localeID for language
2002-10-09T21:54:08.375	400	Open VBFX Project
2002-10-09T21:54:08.463	400	AddOLEClientItems
2002-10-09T21:54:10.843	800	Severely: 750, Message: GraphW/oc\32/LaserDontMeasure: Failed to get localeID for language
2002-10-09T21:55:04.125	400	Registry: Use Global Aliasing = 1
2002-10-09T21:55:04.943	400	Registry: Use Language Aliasing = 1
2002-10-09T21:55:04.500	400	Open VBFX Project
2002-10-09T21:55:04.515	400	AddOLEClientItems
2002-10-09T21:55:07.250	800	Severely: 750, Message: GraphW/oc\32/Microsoft_Demo_BikeAssembly: Failed to get localeID for language
2002-10-09T21:55:48.390	400	Open VBFX Project
2002-10-09T21:55:48.421	400	AddOLEClientItems
2002-10-09T21:55:48.203	800	Severely: 750, Message: GraphW/oc\32/Microsoft_Demo_BikePaintShop: Failed to get localeID for language
2002-10-09T22:13:31.140	400	Registry: Use Global Aliasing = 1
2002-10-09T22:13:31.140	400	Registry: Use Language Aliasing = 1
2002-10-09T22:13:31.453	400	Open VBFX Project
2002-10-09T22:13:31.468	400	AddOLEClientItems
2002-10-09T22:13:59.953	800	Severely: 750, Message: GraphW/oc\32/test: Failed to get localeID for language " Cant find
2002-10-09T22:15:53.484	800	Severely: 750, Message: GraphW/oc\32/test: Failed to get localeID for language " Cant find
2002-10-10T00:17:59.968	700	UpdateOPCDa[...].point \Vpanel\CONICS_Simulator\1\Simulate\PLC.Ramp\does not exist
2002-10-10T00:17:59.984	700	UpdateOPCDa[...].point \Vpanel\CONICS_Simulator\1\Simulate\PLC.Inl[...].AnSp\does not exist
2002-10-10T12:15:37.906	400	Registry: Use Global Aliasing = 1
2002-10-10T12:15:37.921	400	Registry: Use Language Aliasing = 1
2002-10-10T12:15:39.062	400	Open VBFX Project
2002-10-10T12:15:39.109	400	AddOLEClientItems
2002-10-10T12:15:43.250	800	Severely: 750, Message: GraphW/oc\32/test: Failed to get localeID for language " Cant find
2002-10-10T12:22:56.295	800	Severely: 750, Message: GraphW/oc\32/test: Failed to get localeID for language " Cant find

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Module -- C:\Program Files\ICONICS\GENESIS-32\Bin\Gwx32.exe

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