

Alarm time stamping data from PLCs – CL Server/Client Windows application



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- Accurate time stamping and management with any Wonderware software
- ArchestrA compliant
- Rockwell, Siemens, Omron etc. supported

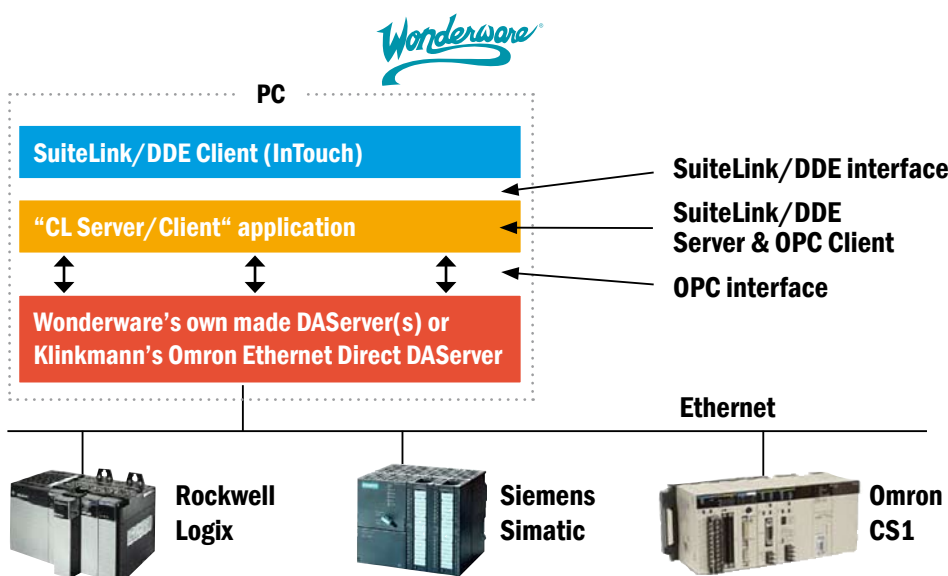
The Klinkmann Automation **CL Server/Client** (Composite Layer Server/Client) application is a Microsoft Windows 32-bit application program that acts as a communication gateway and allows other Windows application programs to access to alarm/event timestamping data from following Programmable Logic Controllers

(PLCs): Siemens S7, Allen-Bradley Control Logix and Omron CS1. The CL Server/Client correspondingly uses Wonderware SIDirect DASServer (DASSIDIRECT), Wonderware ABCIP DASServer (DASABCIP) or Klinkmann Automation Omron Ethernet Direct DASServer (DASOmronEth) for communication with these PLCs.

Free one-hour-use server software and manuals from web:
www.klinkmann.com



Features



CL Server/Client needs additional programming at PLC side to enable appropriate alarm/event timestamping collection in the PLC program. Examples of ready PLC programs are included in CL Server/Client delivery package.

The CL Server/Client application consists of two main parts:

- OPC Client part, for connection to corresponding DASServer via OPC interface;
- SuiteLink/DDE Server part, providing VTQ (Value Time Quality) data for SuiteLink/DDE Clients, e.g. Wonderware InTouch.

While CL Server/Client application is primarily intended for use with Wonderware FactorySuite 2000 and FactorySuite A², it may be used with any Microsoft Windows program capable of acting as a DDE, FastDDE or SuiteLink client.

Specifications

Hardware recommended

PC with 2 gigahertz (GHz) or higher processor clock speed, 1 gigabyte (GB) of RAM or higher (512 MB minimum supported; may limit performance and some features), 8 gigabytes (GB) of available hard disk space, 8 gigabytes (GB) of available hard disk space.

Software

Microsoft Windows 2000 Professional SP2, XP Professional SP2, 2000 Server SP4, 2000 Advanced Server SP4, Server 2003 Standard Edition, XP Embedded.

Devices supported

Siemens S7, Allen-Bradley Control Logix and Omron CS1 PLCs.

Main principles of operation

The CL Server/Client OPC Client part connects to the DAServer OPC interface when some DDE/SuiteLink client

(e.g. Wonderware InTouch) connects to some of configured CL Server/Client topics, and disconnects from DAServer when all CLServer DDE/SuiteLink clients are disconnected. The reading of data from DAServer is activated after activating any data item and deactivated when all data items are deactivated and all pending OPC transactions are completed.

If CL Server/Client OPC Client part receives new I/O item (alarm bit) activation request from SuiteLink/DDE Server part then at first received I/O item is validated - by checking item name syntax and reading and checking presence of corresponding alarm data in the PLC.

If I/O item is valid then continuous reading of alarm status information is started to detect if there are new alarms in the PLC, i.e. CL Server/Client supports the mechanism where

PLC indicates the new alarm/event occurred in PLC and CL Server/Client notifies the PLC when current alarm/event data are read from PLC and provided to SuiteLink/DDE Client.

For SuiteLink Clients (e.g. InTouch), a time stamp is provided on all data values delivered – as SuiteLink Clients are VTQ-aware. For DDE Clients (as they are not VTQ-aware), for each alarm it is necessary to use additional string type DDE item, where time stamp will be provided in following range: from “1990-1-1-0:00:00.000” to “2089-12-31-23:59:59.999”.

For “CL Server/Client” SuiteLink/DDE Server part, the alarm bit I/O item names have the exactly same syntax as DAServer bit items, for example, for DASSIDIRECT the item DB123X4.5 specifies the bit 5 in byte address 4 in DB123.

Ordering information

Description

CL Server/Client application

Order Number

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