2572-DDS2 I/O Server

Description

The CTI 2572 I/O Server is a Microsoft Windows program that allows compatible client applications to access data stored in CTI 2500 Series or Simatic® 505 PLCs. The server communicates via TCP/IP to a CTI 2572 or 2572-A TCP/IP module installed in the I/O base, or via the built-in ethernet port on a CTI 2500 Series controller.

The I/O Server is intended for use with Wonderware application software, including Factory Suite 2000 applications. It supports Wonderware Fast DDE, Net DDE and SuiteLink. However, any Windows program that is capable of acting as a DDE client, such as Microsoft Excel, can also use the facilities of this program.

NOTE: 2572-DDS2 IS NOT SUPPORTED FOR WINDOWS VERSIONS AFTER WINDOWS XP, AND IS NOT SUPPORTED FOR WONDERWARE VERSIONS ABOVE V8.0. FOR COMMUNICATIONS SERVERS FOR WINDOWS 7 AND WONDERWARE 9 OR ABOVE, WE RECOMMEND CHANGING TO CTI 2500-OPC KEPSERVEREX OPC AND COMMUNICATIONS SERVER.

The CTI 2572 I/O Server maps a Topic to a corresponding TCP/IP socket. Each socket represents a logical connection to a 2572 module or CTI processor. A socket can use either the UDP or TCP protocol.

Multiple topics can be assigned to the same 2572 module or CTI processor and each topic can be configured for a different polling rate. Thus, a system designer can group data points by topic to optimize update times for each group.

In addition to polling for data, the CTI 2572 I/O Server will also accept unsolicited messages from the 2572 module. Standard PLC logic can be used to initiate these messages, which may contain event-based data, such as alarms. This capability reduces the polling load and potentially reduces the latency in reporting events.

Features

Enables access data in 545, 555, and 565 and CTI 2500 Series PLCs

Communicates with one or more 2572, 2572-A modules, or CTI processors using the TCP/IP protocol.

Supports multiple topics per CTI module.

Accepts unsolicited data messages, eliminating thepolling overhead for event-based data items such as alarms.

Interfaces to multiple clients and coexists with other I/O servers.

Supports high-speed Fast DDE, Net DDE, and SuiteLink protocols when used with Wonderware FS2000 products.

Provides data time and quality information when used with Wonderware SuiteLink.

Includes option to run as an NT Service.

Specifications

Computer System - A computer system capable of running the required operating system and application software.

Operating Software - Microsoft Windows NT 4.0 SP6, Windows 2000 Pro SP3, Windows XP Pro SP1

Application Software - Wonderware FS2000 application suite or other software capable of acting as a DDE client. Please access the CTI web site, www.controltechnology.com, to view Wonderware service pack requirements and restrictions

Network Interface - Microsoft TCP/IP

PLC Network Modules - CTI 2572, CTI 2572-A, CTI 2500 Series controllers, or Siemens® 505-CP2572

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Supported Point Types

Most Commonly Used Variables

Word Input (WX)
Word Output (WY)
Discrete Input (X)
Discrete Output (Y)
Internal Coil (C)
V-memory
Status Word
Constant Memory
Timer/Counter Preset
Timer/Counter Current
Drum Step Preset
Drum Current Step
Drum Counts/Step
Drum Current Count [1]

Special Case Variables

V-memory 32-bit Integer
V-memory Signed 16-bit Integer
V-Memory Floating Point
V-Memory BCD Decimal
Word Input Bit [2]
Word Output Bit [2]
V-memory Bit [2]
Null Terminated String
Length Byte followed by String
String Blank-Padded on right

[1] *Not supported for TI565*
[2] *Read Only variables.*

Special Variables - Analog Alarm

Alarm C-flags
Error
High Alarm Limit
High High Alarm Limit
Low Alarm Limit
Low Low Alarm Limit
Orange Deviation Limit
Process Variable
Process Variable High Limit
Process Variable Low Limit
Rate of Change Limit
Setpoint
Setpoint Low Limit
Sample Rate
Alarm Flags
Yellow Deviation Limit

Special Variables - Loop

Bias
C-Flags
Error
Gain
High High Alarm Limit
High Alarm Limit
Low Low Alarm Limit
Low Alarm Limit
Orange Deviation Limit
Output
Process Variable
Process Variable High Limit
Process Variable Low Limit
Rate of Change Limit
Ramp/Soak Flags
Setpoint
Rate
Reset
Sample Rate
V-Flags
Yellow Deviation Limit