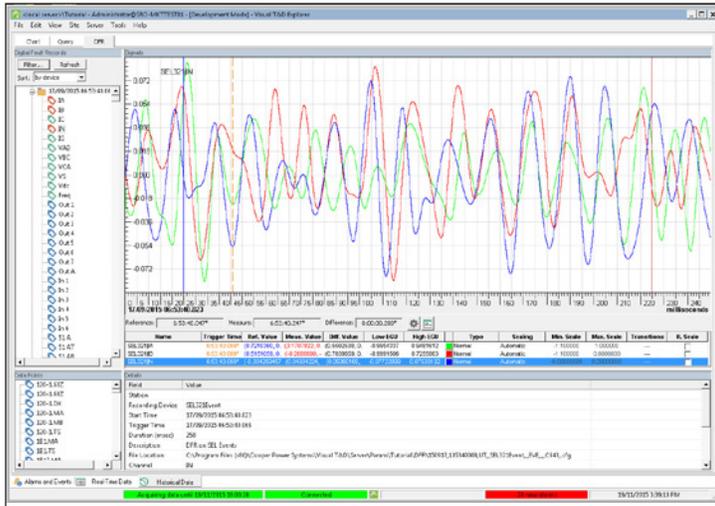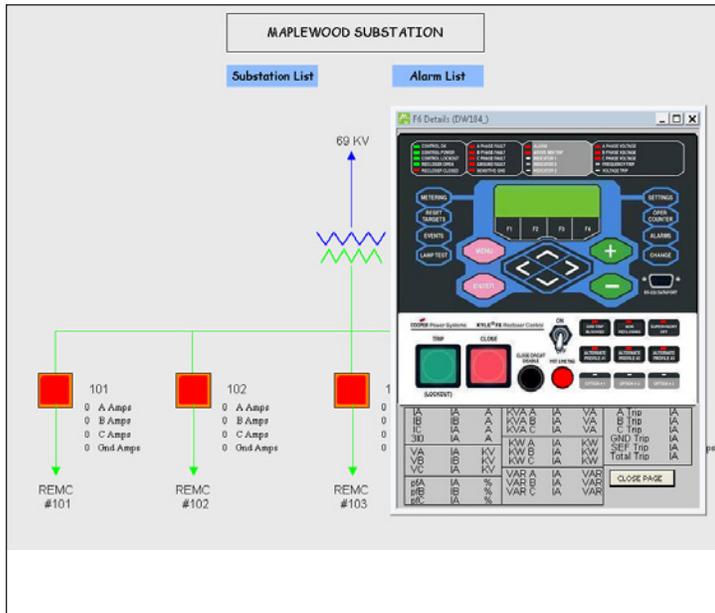# Visual T&D™

General

Eaton's Visual T&D™ is a smart monitoring and control alternative to traditional SCADA. Many utility customers want the benefits of a SCADA system, but do not have the resources to implement a complicated project or to staff a 24/7 control room. Visual T&D provides a scalable, pre-configured, easy-to-use alternative.

Visual T&D is an application that continuously monitors substation and distribution equipment operation and performance. It provides all of the information regularly provided by traditional SCADA systems in a way that is less complex and simpler to implement and use. The system collects a long-term, detailed operational history that allows utilities to understand their system operation and to plan maintenance and capital expenditure programs more efficiently.

(Shown at top is the Visual T&D DFR view and bottom is s single-line diagram for Form 6 recloser control.)

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Table 1. Visual T&D Ordering Information

Part Number	Description
Visual T&D HMI/SCADA	
P-PVTD-0101-0A	**Visual T&D 1500 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP™ Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 1,500 I/O points
P-PVTD-0404-0A	**Visual T&D 3,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 3,000 I/O points
P-PVTD-0405-0A	**Visual T&D 5,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 5,000 I/O points
P-PVTD-0406-0A	**Visual T&D 10,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 10,000 I/O points.
P-PVTD-0407-0A	**Visual T&D 15,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 15,000 I/O points.
P-PVTD-0408-0A	**Visual T&D 20,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 20,000 I/O points.
P-PVTD-0413-0A	**Visual T&D 100,000 Point System** Real-Time Client-Server HMI/SCADA System Includes server program, Explorer and Diagram Editor client programs. Supports SMP Gateway and OPC data sources. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to two (2) client connections. Supports connection to MS SQL Server and PostgreSQL databases. Supports up to 100,000 I/O points.
P-PVTD-0409-00	**Visual T&D additional 10,000 points** Adds 10,000 points to Visual T&D capability. Available only for systems with 20,000 points and more.
P-PVTD-0412-00	**Visual T&D additional 5,000 points** Adds 5,000 points to Visual T&D capability. Available only for systems with 10,000 points and more.
P-PVTD-0419-00	**Visual T&D additional 50,000 points** Adds 50,000 points to Visual T&D capability. Available only for systems with 1,500 points and more.
P-PVTD-0416-00	**Visual T&D additional 1,500 points** Adds 1,500 points to Visual T&D capability. Available only for systems with 1,500 points.
P-PVTD-0417-00	**Visual T&D additional 2,000 points** Adds 2,000 points to Visual T&D capability. Available only for systems with 3,000 points.
P-PVTD-0418-00	**Visual T&D additional 5,000 points** Adds 5,000 points to Visual T&D capability. Available only for systems with 5000 points.

Table 1. Visual T&D Ordering Information (continued)

Part Number	Description
Visual T&D Communication Server	
P-PVTD-0301-00	**Visual T&D Communication Server** Allows Visual T&D to directly communicate with devices using TCP/IP or serial ports. Supports a maximum of 128 devices. Includes one (1) class 1 master protocol license.
Visual T&D Options	
P-PVTD-0201-00	**Visual T&D Client License** Allows an additional user to access the Visual T&D system. Per connection.
P-PVTD-0401-00	**Visual T&D Redundancy Support** Provides the capability to group two Visual T&D servers in a redundant configuration. The standby server automatically takes over if the main server fails. Add 50% to price of total system configuration. Maintenance plan is required for redundant systems.
P-PVTD-0302-00	**Visual T&D MultiSpeak SCADA server interface** Enables the Multispeak SCADA server interface in Visual T&D. Available in version 5.1 and later.
P-PVTD-0410-00	**Visual T&D Alarm Notification** Adds the capability to notify users of alarm conditions by email or SMS.
P-PVTD-0411-00	**Visual T&D Event File Processing** Adds the capability to retrieve and display event files. Retrieve event files from selected relays using the SMP Gateway, convert files to COMTRADE format, and provide basic display functions.
P-PVTD-0420-00	**Visual T&D data import** Allows import of legacy datalog into Visual T&D 4x database.
Visual T&D Upgrade (without maintenance plan)	
P-PVTD-1601-00	**Major Visual T&D software upgrade** Single major Visual T&D software upgrade
Visual T&D License (mandatory): at least one (1) of the following option must be selected	
P-LIC-0001-00	**Software key license** License file generated by Eaton based on specific characteristics of the computer hosting the software.
P-LIC-0002-00	**USB key license** Hardware key (USB dongle). Must be installed on the computer hosting the software.
P-PVTD-0201-01	**Visual T&D Network Ready License** Visual T&D USB key with complete granular security remote access manager. Manage multiple sites and virtual deployments. Available in version 4.3R4 and higher.
Visual T&D License upgrade (USB key)	
P-PVTD-2010-00	**USB key with Visual T&D license upgrade** USB key that includes existing Visual T&D License version. Applicable for licenses already installed on an SMP SP discontinued platform and/or through a parallel prot key. At least one of the following condition must be met: • Visual T&D on SMP SP platform: SMP platform's serial number and written confirmation that the SMP Platform will not be used to run Visual T&D must be provided to Eaton. • Visual T&D on a third party computer: parallel port key must be sent to Eaton.
Visual T&D Warranty and Maintenance Options (mandatory)	
P-VTDM-2100-01	**Visual T&D Maintenance Plan** Annual Visual T&D Software Maintenance Plan. Annual Maintenance is mandatory for three (3) years; year 1 is calculated at 18% of software license value. Annual maintenance cost is subject to a 3% increase beginning Year 2 and shall automatically renew unless Licensee provides notice at least 30 days prior to renewal date. This item may be omitted if Capitalized option is selected.
P-TENG-0301-00	**Hourly Engineering Rate (Mexico, Canada, US, UK)** Hourly Engineering rate (off-site or on-site) to assist you in the design or the implementation of your automation project. Does not include traveling expenses.
P-TENG-0301-00	**Hourly Engineering Rate (International market)** Hourly Engineering rate (off-site or on-site) to assist you in the design or the implementation of your automation project. Does not include traveling expenses.

For more information about how Eaton's products can benefit grid integration, security and communications, contact PSMO-Sales@Eaton.com and request a demonstration.

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