



## Semaphore T-VIEW



*T-VIEW optimizes the capabilities of T-BOX automation/telemetry products and facilitates efficient configuration of SCADA networks using Internet technology.*

### **T-VIEW — advanced, front end interface for T-BOX networks**

T-VIEW is Semaphore's intelligent communications interface between remote sites and central control rooms. T-VIEW is a data aggregator that fully exploits the power of the Internet by providing software tools to transfer and export archive data from remote stations to the majority of database software in use today.

T-VIEW is, in a sense, the missing link between conventional SCADA architecture and decentralized Internet-based architecture. It provides the best of both worlds by offering a solution that is expandable, powerful, intuitive, ultra-simple, and low-cost.

By using the existing infrastructure of Internet providers, a computer system running T-VIEW does not require a huge bank of modems to communicate with remote stations. Only one Internet or Intranet connection with the e-mail or FTP server is required.

## T-VIEW Capabilities

### Push and pull communications with remote stations

While traditional SCADA systems poll remote stations to upload historical data ("pull" technology), T-VIEW allows files to be sent on the initiative of the local RTU. Upon event or on a schedule, the RTU can provide alarms and historical archives to T-VIEW via e-mail or FTP transfer.

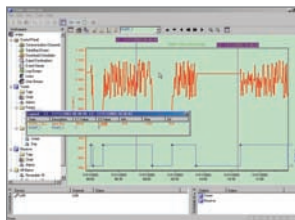
For compatibility with existing systems, which use "pull" communications, T-VIEW also supports conventional polling of remote stations over a variety of networks, including Ethernet, GSM/GPRS, PSTN, radio, and satellite. A schedule for regular communication ensures automatic management of the SCADA network, regardless of its size.

Bidirectional communications provide for complete monitoring of live conditions, uploading of historical archives, and downloading of set-point changes, commands, etc.



### Intuitive display presentation

T-VIEW is extremely simple and user-friendly. Presentation is in the form of directories in a manner that is similar to Windows Explorer. Remote stations are sorted according to zones or geographical areas. Each station can have multiple Web page screens to display alarms, live information, historical data, and trend graphs.



### Powerful historical trending capabilities

T-VIEW includes a graphical trend display tool for presentation of historical data based on a user-specified, absolute, or relative time interval. Zoom, cursor selection, analysis boxes, and export to Excel or clipboard are all available for a precise analysis of any information in the historical database.

### Unlimited client access over the Network

Any number of "View Node" client PC's can connect to the T-VIEW system with only a simple Internet browser required. ActiveX controls are automatically downloaded when the user connects to T-VIEW for the first time.

### Automatic transfer of historical archives to RDBMS

T-VIEW automatically converts the historical data in a T-BOX controller or RTU to formats that include Microsoft Access, Excel, Oracle, SQL Server, MySQL, dBase, ADO, and others without complex programming. Numerous filtering and formatting options are available to best suit each database.

### Auto-configuration

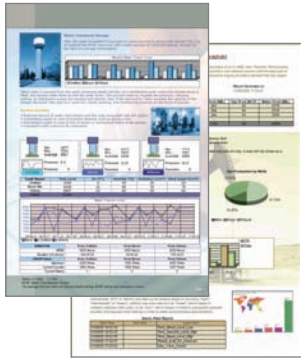
As soon as a new station comes into service on the telemetry network, T-VIEW self-configures and automatically introduces definitions for alarms, tags, and trends. This error-free technique considerably reduces network configuration and eliminates the double programming that is required in some systems. If the content of a station changes, T-VIEW will automatically adapt to the new configuration.





### GPS mapping and representation

Whether assets are at fixed locations or mobile, practically all SCADA systems can greatly benefit from a well-designed and managed GIS. T-VIEW supports the "shape" (.shp) file format and provides fast and reliable RTU locating and mapping representation without the high cost and steep learning curve associated with many GIS packages. T-VIEW's vector-based mapping features produce high-resolution results at any scale.



### Advanced report generator

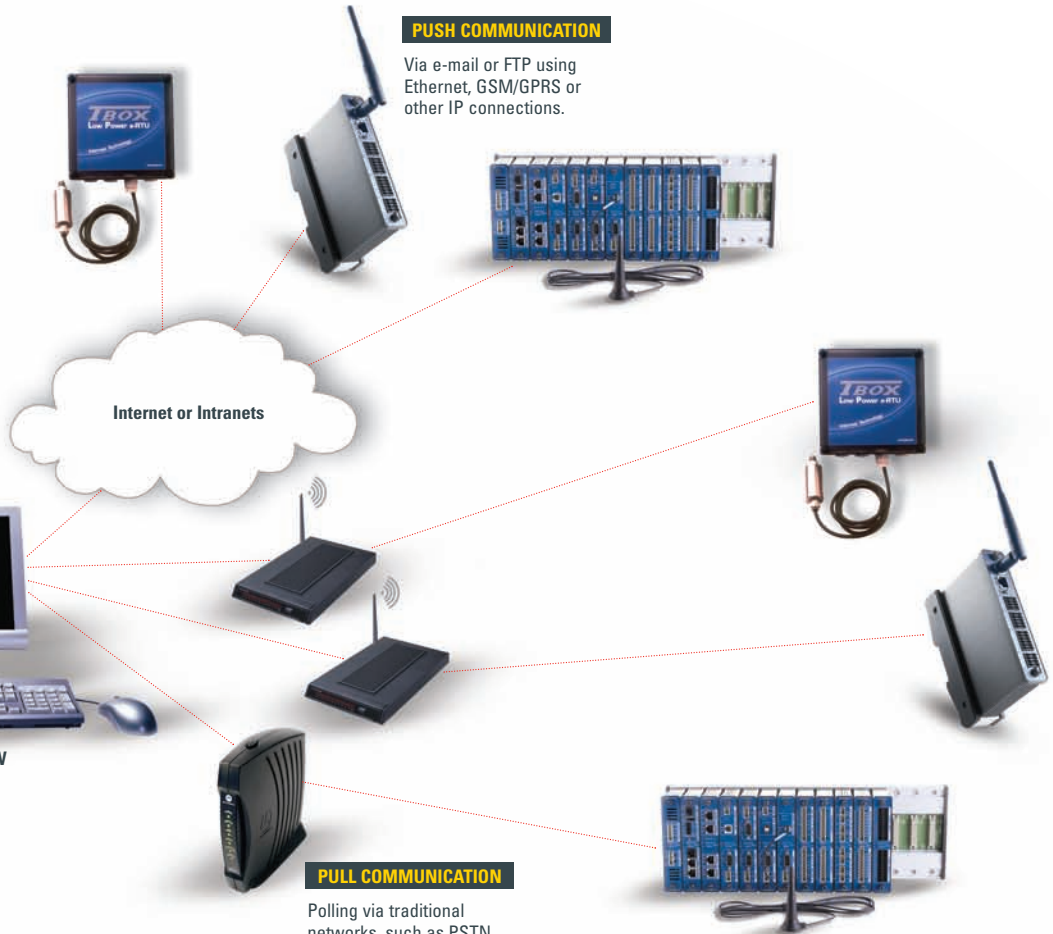
An optional, advanced reporting module based on Dream Report™ can be added to T-VIEW. Dream Report is a professional solution that enables statistical report generation using the information in the T-VIEW database. Intuitive and user-friendly, Dream Report allows definition of report templates with background, logos, images, text, and predefined objects.

### CLIENTS

Virtually unlimited number of PC's using Browser HMI such as Internet Explorer

### PUSH COMMUNICATION

Via e-mail or FTP using Ethernet, GSM/GPRS or other IP connections.



### PULL COMMUNICATION

Polling via traditional networks, such as PSTN, radio, satellite, Ethernet, RS 485, etc.

## T-VIEW COMPUTER REQUIREMENTS AND TECHNICAL SPECIFICATIONS

Supported Operating Systems	Microsoft Windows 2000, Windows XP, Windows 2003 Server, Windows Vista
Minimum computer specifications	Pentium IV, 256 MB RAM, HD 10 GB, CD-ROM, Network Card for remote access to T-VIEW
Browser	Microsoft Internet Explorer version 5.0 or higher
Graphical interface	Animated views for monitoring and control, alarms, trends, and optional advanced reporting
Communications to RTU	Ethernet, PSTN, GSM, GPRS, Radio, Satellite, RS 232/485
TCP/IP services	FTP client, e-mail client, embedded Web server (virtually unlimited number of clients)
Dial-up scheduler	Standard
RTU configuration	Automatic
Database compatibility	Oracle, ODBS, SQL, MySQL, MS Access, MS Excel, dBase, ADO, FoxPro, and more
Maximum number of view node clients	Virtually unlimited
Maximum number of RTU's	Virtually unlimited

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