



PROFILETM



METCO

*...the solution to web enabled
data acquisition and reporting*

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PROFILE™

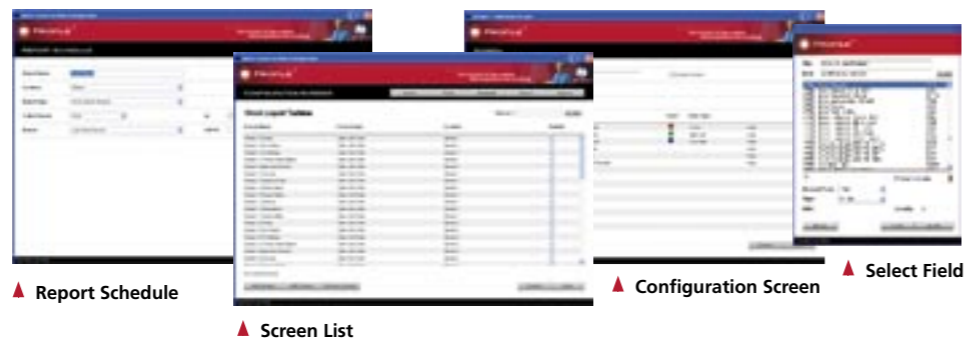
Profile™ is a web based data acquisition and control system that is designed to monitor a wide range of RTUs over diverse network topologies including Ethernet, WiFi, fibre optic, dialup modem, canopy radio and satellite. In fact any RTU that can communicate over Modbus can easily be connected into the system.

CONFIGURATION

Setting up Profile™ is very easy; a complete system can be put together in a matter of minutes with no software skills required.

Profile™ will automatically retrieve the configuration from an RTU to determine the Profile™ set up. From this information Profile™ builds the Modbus map required to communicate with the RTU and then create the default data screens, alarms and report schedules. The default configuration can be customised by dragging and dropping fields on to the data screens, charts and reports.

Configurations can be shared between RTUs that have identical set ups. Modbus maps, data screens, alarms and reports need only to be created once and are applied to every RTU using that configuration. If the configuration is changed then the changes are automatically updated on each RTU.

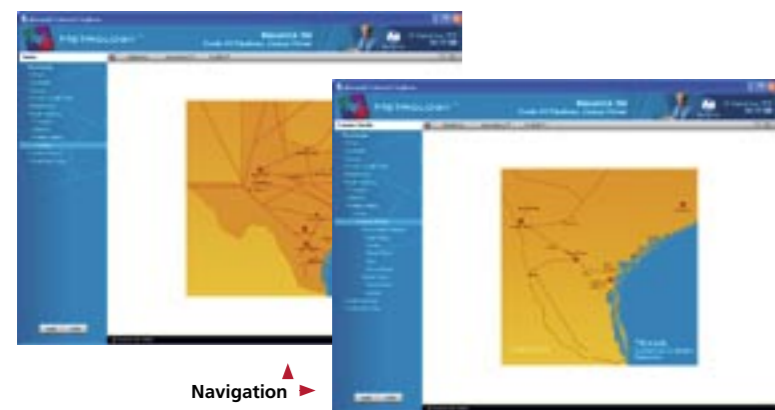


Adding an RTU to the system is a simple task. Having entered the RTU communication protocols and selected a configuration Profile™ will instantly start communicating and collecting data from the new RTU.

INVENTORY™

Profile™ is the fourth element in METCO's Metrology™ application suite, taking advantage of Inventory's™ unique data sharing capabilities and intuitive interface. Users can move from system wide information to minute detail in seconds using Inventory's™ hierarchical navigation or graphical maps and diagrams.

Inventory™ enables data from Profile™ to be shared seamlessly between the logbook, calibration and auditing elements of the Metrology™ suite. Data interchange can also be extended to Acquire™ systems, enabling full interaction across the complete range of METCO metrology solutions.



OPERATION

Profile™ scans each RTU sequentially to gather and store data using Modbus over TCP/IP or conventional serial communications. Users can view real time data from any RTU and with extended access they can also update coefficients, alarm thresholds, set points and commands from anywhere on the network.

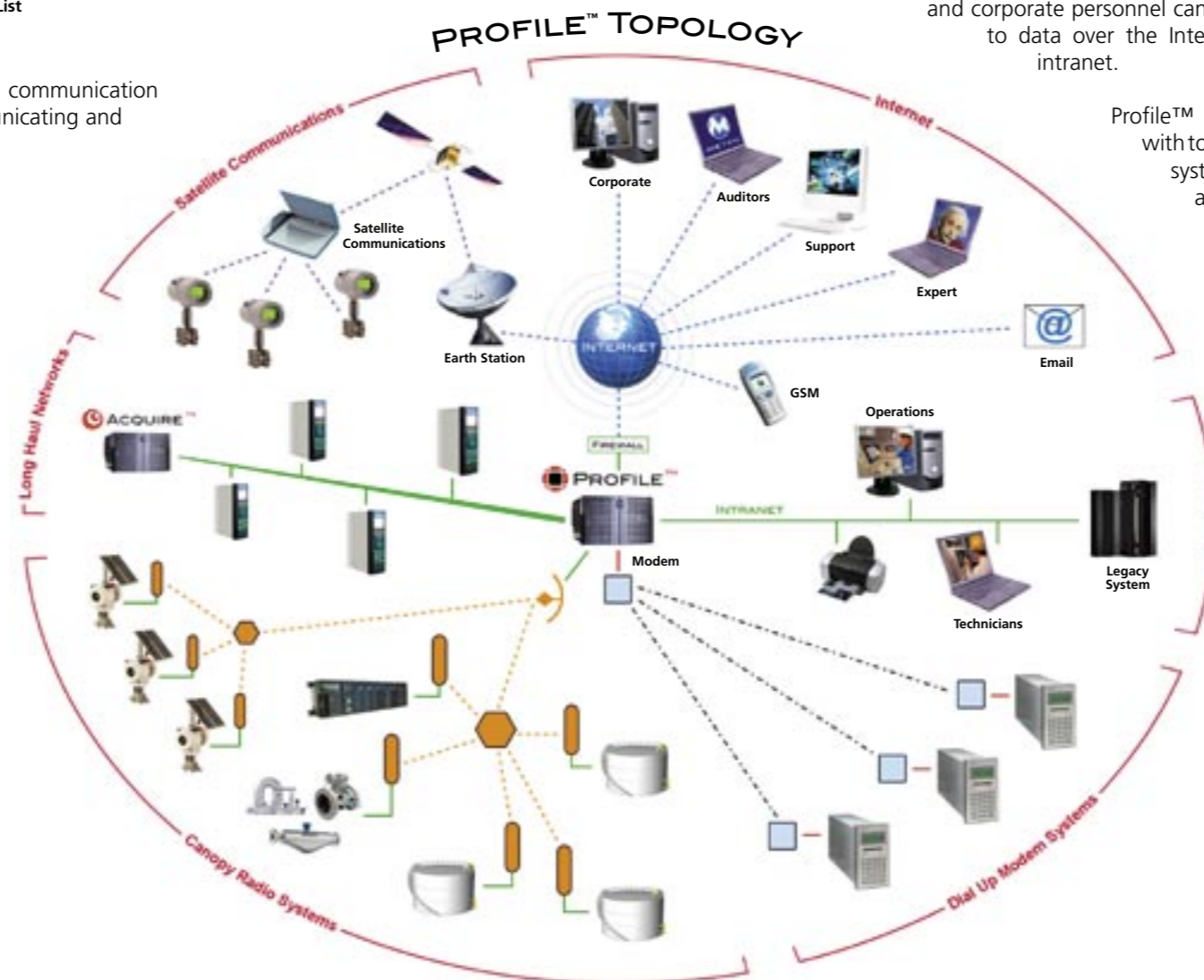
Data collected by Profile™ is stored in the historical database. Complex queries can be performed on historical data with the results presented either as detailed charts or in raw data format that can be exported to Microsoft® Excel® for external analysis.

Profile™ constantly monitors all RTUs for alarms and if an alarm is detected the operator is informed immediately. Alarms can be presented for an individual RTU, site or for the whole system. Profile™ can also apply expert systems knowledge to the data, creating a global condition monitoring solution.

Reports are automatically collected from the RTU as they become available and stored in the Profile™ database, where they can be retrieved by and presented to the user. Historical reports can be accessed through an intuitive graphical calendar and archived to disk, printed to a networked printer or distributed to users as email attachments.

Users can gain access to the Profile™ server using a web browser from anywhere in the world. Access is carefully controlled and users must satisfy several levels of built in security before they are allowed access to the server. Once the security checks have been passed, interested parties such as experts, auditors, clients and corporate personnel can gain secure, real time access to data over the Internet or their own corporate intranet.

Profile™ provides systems integrators with tools to create high performance systems with low technical risk and cost. Profile™ is the next generation solution to web enabled, secure, real time data acquisition and control.



▲ Detail



▲ Alarms



▲ Historical Data



▲ Report



Calendar ▶



....the solution to web enabled data acquisition and reporting

Profile™ is a web-enabled solution to remote data management, leveraging the latest Internet technology to provide next generation data acquisition and control. Profile™ enables operators, technicians and management to reach out over vast distances to gain secure, real time access to measurement and control data from remote systems regardless of location.

Profile™ enables the creation of long haul SCADA systems without the need for custom software. System integrators can rapidly create a window into networks of distributed RTUs, providing the ideal platform for data acquisition, alarm annunciation, charting and reporting.

Using intelligent, high speed scanning, Profile™ can access data in remote RTUs through a wide variety of data carrying topologies. The data is stored and analysed to provide process management data locally or remotely. Alarms, reports and audit trails can be generated and distributed to other locations and systems in multiple formats.

Any RTU on the system can be focused on at any time to initiate a two-way exchange of information that enables the RTU to be controlled remotely. Profile™ provides an innovative interface to manage this process.

Profile™ is part of METCO's Metrology™ suite of software solutions. At the heart of the suite is Inventory™ which provides a common access point and navigation interface so that system data may be shared seamlessly between Profile™ and the other Metrology™ products: Record™ for online system logbooks; Calibrate™ for management and scheduling of instrument calibration; Inspect™ for streamlining metrology audits. This interaction also extends to Acquire™ based systems, providing a truly integrated solution for all aspects of metrology measurement and control.

Secure - Profile™ can be accessed via a corporate intranet or the Internet using a standard web browser such as Internet Explorer®. Profile™ uses the latest Internet security technologies with 256-bit SSL encryption to rigorously ensure that only authorised users can gain access to the server. Different levels of access can be provided to individual users to provide bespoke access permission on a site-by-site basis.

Multi-Lingual - Profile™ is multi-lingual and can operate simultaneously in any language. This applies to all aspects of the HMI, effortlessly switching between languages as users with different language preferences access the system.

No Software Development - Profile™ takes rapid deployment to the limits. Drag and drop editing make custom software redundant. This is extended to ongoing support allowing Profile™ systems to be maintained remotely regardless of location, reducing cost of ownership to a minimum.

Dependable Platform - Profile™ is powered by Ambricit's Webspring™ software technology, providing a proven dependable technology foundation for this leading edge data acquisition and control system.

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WEB BASED

- Fully HTTP standard compliant
- Browser access using Internet Explorer® 6.0, Firefox® or Safari
- Secure access via private networks (Intranet)
- Secure access via World Wide Web (Internet)
- World-wide integration via Inventory™
- Multi-language support
- Low bandwidth communication

SECURE

- Operating system independent
- Integrated 256 Bit SSL encryption
- Digest Authentication for secure password control
- Multi level user access

REAL TIME ACQUISITION

- Intelligent polling of RTUs
- Link to Inventory™, Record™, Inspect™, Calibrate™ and Acquire™
- Custom device templates
- Intelligent data filtering
- Powerful search facilities

GRAPHIC RICH INTERFACE

- State of the art HMI
- Intuitive navigation
- Graphic maps
- Context specific input fields and pull down menus
- Multi-pen charting

REPORTS

- Scheduled reports
- Snapshot reports
- Auto email with attachments
- Custom reports
- Historical data analysis
- Export to Excel®
- Alarm list

CONFIGURATION

- Simple installation and setup
- Shared configuration between multiple RTUs
- Custom layouts of every screen
- WYSIWYG editors with drag and drop interface
- No custom software required

METCO - Metrology Asset Management

PROFILE™ is one of the components in a suite of web enabled metrology asset management applications:

INVENTORY™
Equipment and location database

RECORD™
Inventory and event logbook

INSPECT™
Audit management and reporting

CALIBRATE™
Calibration schedule



All components are interactive and web enabled, sharing data and events to provide a complete solution to metrology asset management. Further information on Profile™ is available from METCO's web site:

www.emersonprocess.com/metco/profile

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