



MV-90 xi

Solution

Itron's MV-90 xi software is the industry's leading system for collecting and processing interval data from complex metering devices. In addition to its unparalleled data collection capabilities, it offers powerful tools for analyzing and applying that data for use by other applications and decision makers within your company. With MV-90 xi, utilities can reduce their cost of data collection operations and ensure data integrity and process consistency along the way.

With MV-90 xi you realize many benefits, including:

- » Reduced O&M costs and increased productivity operating one system for interval data collection and management
- » Improved revenue from improved integrity in interval data used for billing purposes
- » Operational flexibility from a scalable solution that can grow with your needs

A PROVEN SOLUTION

MV-90 xi is a proven solution to your interval data collection and analysis needs. The system can be operated as a collection engine for utilities with existing data management and analysis capabilities, or as a complete, end-to-end interval data management solution. The architecture behind MV-90 xi provides a very stable and completely scalable solution. The architecture includes a full 32-bit Windows application, a high-performance database, and a powerful task manager for all system operations. Translation interface modules complete the system and are used for all meter interrogations. This architecture enables true scalability, efficient data storage and retrieval, and unmatched multi-vendor data retrieval capabilities.

With MV-90 xi your utility has a powerful tool that enables you to process and utilize interval data more efficiently and effectively.

MV-90 xi delivers these valuable capabilities:

- » The ability to collect data from over 150 electric and gas metering devices
- » Support for a variety of communications including PSTN, Cellular, HHF file import, TCP/IP
- » Support for a variety of communication configurations including inbound and outbound calls, daisy chaining and master/slave configurations
- » Industry best-practice techniques for data validation, editing and estimation
- » Powerful analysis tools including graphs and reports, data aggregations, time-of-use, loss calculations, billing determinant calculations
- » Flexible data export capabilities including spreadsheet and ODBC file formats

MV-90's track record as a robust interval data collection system equally applies to collecting, validating, and reporting for gas metering. MV-90 xi enables data retrieval from most electronic volume correctors and load profile recorders used for gas metering.

With MV-90 xi you can fully automate your interval data collection processes. Using the system's automation capabilities, you gain operational efficiencies and improved utilization of existing resources. Your personnel spend more time creating value from the data collected in MV-90 xi, and therefore maximize your investment in the system.

Utilizing the system's powerful multi-threaded data processing, MV-90 xi can provide even more cost savings. Not only is the infrastructure required to perform system operations reduced but so is the time spent by your IT personnel to support your operation.

SCALE YOUR SYSTEM AS OPERATIONS GROW

MV-90 xi is a truly scalable solution. The system can be licensed as a network or single PC solution. Regardless of license, the architecture ensures the system can grow with your business operations. In a network setting, additional processing power is achieved simply by adding additional workstations. MV-90 xi's centralized task management system distributes the processing load among workstations creating a true distributed processing environment with no loss of performance.

MV-90 XI BASE FUNCTIONALITY

- » Remote Interrogation is used to dial up and retrieve interval, register and event data from recorders/meters via phone lines or other communication methods
- » Validation is used to confirm the quality of data extracted from the meter using a host of user selected criteria. General, channel and interval based validations can be defined as well as validation comparisons to previous time periods
- » Editing and estimation is used to make adjustments to data that has failed validation. Data can be added, deleted, replaced, restored, adjusted, or altered by a multiplier. Estimation techniques include plug, copy, redundant/check meter, and linear interpolation
- » Direct upload of Handheld Readers is used to unload data directly from the handheld reader through a direct connection using an RS232 cable or via modem to a remote cradle
- » Aggregation is used to combine interval load data from any number of metering points into summary files. All reports and graphics can be produced on summary files as well as pulse files
- » Time-Of-Use (TOU) supports user defined rate schedules to apply to interval load data for implementation of TOU rates and for billing purposes
- » Reports includes the Translation Summary Report, Interval Pulse Data Report, Interval Load Data Report, KVA Analysis Report, and Peaks Report. Reports can be produced for any operator-selected time with demand on a clock or rolling interval summed up to 60 minutes
- » Graphics is used to plot interval or summary load data for Daily Load Curves, Typical Days Analysis Curves, Load Duration Plots, Daily Summary Plots, and Monthly Summary Plots
- » Spreadsheet File Format is used to build interval or summary files that can be exported to an ASCII Spreadsheet file
- » File/Data Transfer is used to export interval load data to other systems in the format specified for importing data from those systems
- » xi COMM is a data retrieval option for network operations allowing multiple meter interrogations to be handled simultaneously on the same workstation. This capability is designed for systems that require large scale meter interrogations. xi COMM supports multiple connection types on the same workstation, allowing a workstation to handle outgoing and incoming phone calls using a multi-port serial board



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