WATER MANAGEMENT SOLUTIONS

ACE1000 & ACE3600 RTU SOLUTIONS

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EBIPAX INCORPORATED

MOTOROLA SCADA SOLUTIONS

SCADA Station

**Conventional Analog Radios,
Trunk Analog radios,
PSTN, TETRA, ASTRO,
MOTOTRBO, CANNOPY
GPRS, CDMA, IP
Microwave, LAN,
Microwave …**

SCADA COMPONENTS

- ## Control Centers
  - Motorola offering supports all major Control Centers

- ## Data Gateway
  - Motorola DG Provides connectivity between the Control center & Communication system

- ## Communication System
  - Motorola SCADA offering supports all communications media and networks but its not limited to Motorola radio systems. Motorola SCADA supports Public and Private communication networks as well.

- ## Remote Terminal Units (RTUs)
  - Motorola RTU supports all communications media and networks and extensive set of industrial and "smart" sensors

- ## Sensors
  - Provide connectivity to various processes such as Oil & Gas, Electricity and water management elements such as pumps, valves, power analyzers, environmental IO and more.

SCADA MAIN APPLICATIONS

- Oil and Gas Pipelines
- Electricity Distribution
- Municipal Water, Waste Water
- Public Safety and Security
- Early Flood Warning
- Irrigation, Water Distribution
- Communication Monitoring
- Transportation
- Environmental Monitoring

WATER CONTROL MANAGEMENT APPLICATION

BASIC WATER SCADA APPLICATIONS

- More Reliable Water Supply
  - Optimal level of water in reservoirs
  - Optimized pressure helps minimize losses
- Smartly operating the pumps
  - Automatic selection of booster pumps
    - Based on their efficiency, and rate of pumping
  - Short pump operation during high tariffs
- Reducing Cost of Maintenance
  - Eliminating excessive pressures
  - Minimizing new bursts in pipes

WATER SCADA OPERATION

- **SCADA allows monitoring of levels and flows:**
  - Timely updating reservoir filling rate process
    - Minimizing the cost of electricity consumption
    - Reservoir levels and flow monitoring
    - Detecting unusual conditions
  - Calculates "In/Out" water quantities and balance
- **Control on Pumps Operation**
  - On-Off Control/ Fail Reporting / Number of Starts
  - Run Time /Flow Rate/Pressure
    - Maintain desired water level, pressure etc.

WATER SCADA OPERATION

- **SCADA optimizes pipe pressure**
  - Results in lower losses via difficult to identify leakages
  - Stable pressure helps saving water by end-users
- **SCADA reacts in real time:**
  - Eliminates/reduces water losses
  - Activation of Pressure Reduction Valves (PRV)
  - Detects the location of bursts
    - Allows isolating of damaged sections
    - Minimizes creation of new pipe bursts

ENHANCED SCADA FUNCTIONS

- Dynamic Pressure Control
  - Helps to optimizing and reduce UFO (WHAT IS UFO???)
- Pump Efficiency Monitoring
  - Monitor the pump health and detect faults
- Power Consumption Reduction
  - Optimizing the operation and reduce energy use
- Water Leak Detection
  - Detect bursts and minor constant leakage
- Trending and Analysis
  - Collecting data to be ready with supply capacity
- Integration of SCADA with IMS
  - Allows for smart planning and cost-effective operation

COST SAVING ANALYSIS

For more info please contact support@ebipax.com

MANAGEMENT & FINANCIAL BENEFITS

- **Operating benefits**
  - Public satisfaction enhanced through improved service
  - Fewer water problems and faster response
  - More convenient handling of the system
  - Better use of skilled manpower
- **Financial benefits:**
  - Long term savings on maintenance
  - Travel time and cost savings
  - Electricity cost savings
  - Better planned investments