

Unlocking The Value of Your Substation DATA!

- Enabling your Smart Grid migration
- Simplifying substation automation systems
- Migrating to IEC 61850 substation
- Complying to the NERC CIP cyber security
- Improving substation operation and maintenance
- Monitoring of critical substation assets
- Managing increasing volume of substation data



Platform For Your Substation
Modernization

The DAPserver™ is a substation hardened information server designed specifically for the electric utility industry. The DAPserver addresses your needs by integrating substation devices, managing substation data, and providing consolidated views of substation information.

Substation Dashboards

What can the DAPserver™ do?

- Integration of multi-vendor IED
- Conversion from serial to IP based network
- IEC 61850 gateway
- Network security and authentication
- Visualization of actionable substation information
- Data concentrator and communication gateway
- Protection relay management
- Remote retrieval of non-operational data
- Equipment condition monitoring



Substation HMI



Protection Relay
Management



Equipment
Condition
Monitoring

How can you benefit from the DAPserver™ ?

- Migration roadmap to IEC 61850 and Smart Substation
- NERC CIP compliance
- Reduce unnecessary trips to the substation
- Improve visibility to enable faster decision making
- Remote access to accurate information and data
- Reduce engineering, configuration and maintenance time



Substation
Annunciator

Intelligent Technologies, Smart Substations™



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Functions:

- Data concentration and alarm management
- Protocol conversion
- Substation Ethernet LAN interface
- Communication gateway to SCADA/EMS/DMS
- Integrated HMI for local and remote substation visualization
- Virtual connection to IEDs
- Non-operational data and file retrieval
- Access authentication and reports
- Time synchronization of IEDs
- Remote IED diagnostics and maintenance
- Data traffic monitoring and capture

Hardware Features:

- Substation hardened hardware platform
- MPC8270 450/300/100Mhz CPU, 850 MIPS
- 64MB Flash, 256 MB SDRAM
- 2x Compact Flash
- 3x 10/100 Base T Ethernet LAN
- 10x serial communication ports
 - 2x RS-232 with full modem signals
 - 8x RS-232/RS-485 with IRIG-B distribution
- RS-232 console port
- IRIG-B input
- 4x USB ports
- SVGA Port
- Power supply: 100-240 Vac/85-300Vdc

Protocol Library:

- DNP3 Serial, TCP/IP, and UDP/IP
- IEC 60870-5-101/103/104
- Modbus RTU, ASCII and TCP/IP
- Relay protocols: SPA-Bus, SEL, Courier
- PLC protocols: AB DF1, GE SNP, Mitsubishi FX
- IEC 61850 GOOSE

Software Features:

- Embedded Linux operating system
- Real-time database
- MySQL historic database
- Redundant servers and communication architecture
- Integrated soft logic application
- Intuitive DAPstudio™ configuration software and diagnostic tool
- Easy to use multi-vendor IED template library
- DAPview™ integrated HMI
- VPort™ for virtual connection
- Network routing and firewall



Front View



Rear View



For more information, please visit www.asatsolutions.com
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