

Wide Area Measurement System (WAMS)

WAMS is basic component of the Wide Area Protection/Emergency Control based on distributed installed, GPS-synchronized phasor measurement units. WAMS solution provided is field-proven in Bonneville of Power Administration of WSCC and accomplishes the following functions.

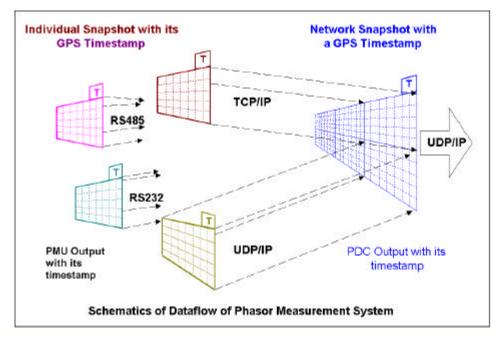
PHASOR MEASUREMENT ACQUISITION

- Collect all the phasor measurement from different phasor measurement sites
- Synchronize all the phasor measurements from different sources
- Package all the phasor measurements from all the phasor measurement as snapshot of the power network with timestamp and send to the advanced applications
- Remotely set up the phasor measurement units





- Support protocols like IEEE 1433, P1597 via serial or Ethernet
- Guarantee the minimum less than 5 ms delay with multiple CPUs and RTOS support



Web Page: www.dsius.com Email: info@dsius.com



REAL-TIME DYNAMICS MONITORING

- Provide real-time dynamics displays of phasors, power, etc.
- Provide alarming/alert

DYNAMIC DISTURBANCE RECORDINGS & DATA LOGGING

- Generate system-wide dynamic disturbance recordings
- Log the system dynamic behavior accordingly.

POWER SYSTEM DYNAMICS ANALYSIS

- Data filtering
- Time/frequency-domain response analysis including:
- Modal/pony analysis
- Spectra analysis

TYPICAL APPLICATIONS

- Wide area protection
- Dynamic transaction limits monitoring
- Dynamics performance monitoring
- Machine model verification
- Damping/oscillation analysis
- FACTS, etc control performance validation