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

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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