



IEEE Conformity Assessment Program

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Understanding Conformity Assessment

- What is Conformity Assessment?
 - Conformity Assessment is defined as the process or processes that are used to demonstrate that a product or service meets specified requirements (set forth in Standards, Test Plans, etc.)
- Conformity Assessment Activities Include:
 - Conformance, Interoperability, Inspection, Accreditation
 - “Catch-all” term to address range of test-related activities
- Demand Driver for successful implementation
 - User should require IEEE certified products or implementations

Benefits of Implementing a Conformity Assessment Program

- Benefits of conformance test before deployment/implementation
 - Resolves interpretation differences
 - Early identification of non-conformances
 - Exact functionality of the protocol is identified
 - Multi-vendor solutions will have interoperability issues – helps addressing those
 - New offerings will have bugs – helps catching those
- Provides assurance and confidence a product or service meets requirements
- Empowers the user to make better purchasing decisions
- Establishes a baseline for performance expectation
- Establishing a baseline for future improvement and enhancements
- Eases interoperability

Formation of SCASC

- In March 2012, ICAP co-hosted Synchronphasor Workshop with Washington State University (WSU)
 - Idea of developing a certification program based on IEEE 37.118 std was socialized with participants
 - Consensus to investigate the advantages and viability of a synchronphasor conformity assessment program
- IEEE-ISTO formalizes the Synchronphasor Conformity Assessment Steering Committee (SCASC) in Q2 2013
 - Allen Goldstein, NIST was elected as chair
 - Participation from industry stakeholders
 - Press Release issued - <http://bit.ly/162q1Tf>

Role of SCASC

- Create a Test Plan for Synchrophasor Testing based on IEEE C37.118.1
 - SCASC determined the need for a Test Suite Specification (TSS)
 - IEEE C37.118.1 & PC 37.242 were reviewed
 - TSS development began in H1 2013
- Lab Qualification Checklist
 - To be used for auditing test laboratories
- Test Report Template – Creation & Approval
- Review and approve program governing documents
 - Certification Program Policy
 - Certification Agreement
 - Test Lab Agreement
 - Certificate, registry and Certification Mark (usage guidelines)
- Test Program Effectiveness
 - Feedback loop from program participants and end users (utilities)

Test Suite Specification (TSS)

- TSS development led by Allen Goldstein ongoing with monthly teleconferences with SCASC members
- Draft 1 to be circulated to SCASC and wider audience for review and comments
- Approval Process
 - SCASC – Subject Matter Expert Approval
 - ICAP Steering Committee – Approve TSS for certification program use
- ICAP to look into further coordination with SGIP 2.0 SGTCC

IEEE Conformity Fostering Update

- The following programs are currently being fostered
 - IEEE C37.118.1 – Synchrophasors
 - IEEE C37.238 & IEEE 1588 – Timing & Sync in Power Systems
 - IEEE C37.111 – COMTRADE
 - H26 Task Force met in Albuquerque
 - H26 WG has been formed to develop Test Plan
 - COMTRADE CASC to be formed
 - IEEE C37.240 – Cybersecurity for Substation Automation
 - Support from NERC
 - Task Force to be setup and will meet in 01/2014

Future Meetings

- F2F meeting planned for
 - January 12 in New Orleans, LA
 - May 11 in Fort Lauderdale, FL
 - September 8, Milwaukee, WI
- Program Launch Event in H2 2014
 - Venue - TBD
 - To include workshop to introduce TSS

Thank You

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