



Testing and Validating Timing

Our Testing Services focuses on conformance and interoperability testing of such standards as those based on IEEE 1588 Precision Time Protocol (PTP) solutions while supporting industry efforts to advance the use of Time Sensitive Networks.



Testing Services for the following:

- IEEE 802.1AS (gPTP) ^{*1}
- IEEE 1588 Power Profile & Default Profile

Continuing Development of:

- Timing Security & Performance
- PTP Profiles: Default, Power, Telecom, Enterprise, AS-Rev
- Redundancy: .1AS-Rev, HSR/PRP

Industry Involvement

- **National Institute of Standards and Technology:** Updated NIST Interagency Report 8002 published July 7, 2014: IEEE 1588 Power Profile Test Plan. We have collaborated with NIST to develop the initial C37.238 test plan and continues to seek input from the PSRC/H24 committee and other industry leaders to expand and further this test effort with the power distribution industry.
- **IEEE Conformity Assessment Program:** Working with NIST and ICAP, we are working to develop a validation program for the 1588 Power Profile.
- **International Symposium for Precision Clock Sources:** We have been supporting ISPCS since hosting the annual event in 2010.
- **IEEE 802.1 Time Sensitive Networks:** We have contributed numerous comments to IEEE 802.1AS, 802.1AS-cor1, 802.1AS-cor2, and 802.1AS-Rev.
- **IEEE 1588 Revision:** Contributing to the ongoing 1588 revision effort. (Now in Sponsor Ballot!)

Testing Solutions

- IOL vIOlett Conformance Test Tool Software
 - Custom conformance test tool utilizing Oregon Systems, standard COTS NICs + Industry tools available for member in-house use.
- Industry tools from Ixia, Ixia/Anue, Calnex, and Spirent.

*1 - Note, 802.1AS testing services at UNH-IOL is restricted to Avnu Alliance members. UNH-IOL's vIOlett's in-house testing for 802.1AS is available to any company.

Learn More Today!

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Key Benefits

- Increased confidence in your product.
- Save money by reducing time to market.
- Use industry recognized test reports for sales and certifications.
- Access to custom test equipment and software saving you time and money.
- Ability to shape our roadmap to better serve industry needs.
- Ability to test multiple standards against globally recognized products all in one lab.
- Acts as an extension of in-house test labs providing debugging and

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