

Announcing IEEE 1815.2: DNP3 Communications Standard for DER and Microgrid Projects

The MESA Standards Alliance and the DNP Users Group have partnered with the IEEE to develop an international DNP3 communications standard to enable utilities, manufactures, and integrators to achieve interoperability for DER systems.

WHAT IS IEEE 1815.2?

IEEE 1815.2 provides a standardized mapping of the key IEC 61850-7-420 data objects to the **well-known DNP3 protocol**, thus meeting the interoperability requirements for IEEE 1547 and California's Rule 21. In addition, IEEE 1815.2 includes standardized DNP3 data objects for energy storage systems, controllable load, scheduling, and many market-based functions. IEEE 1815.2 is an update of the MESA-DER Specification and the DNP3 Application Note AN2018-001.

IEEE 1815.2 BENEFITS

- ▲ Provide **standard SCADA-level communications** for utility interactions with DER, IBR, and microgrids
- ▲ **Reduce costs** of technology development and deployment by using well-established DNP3
- ▲ **Meet all DER interoperability requirements for IEEE 1547** DER interoperability standard
- ▲ **Reduce risk** by enabling supplier flexibility
- ▲ **Simplify** long-term maintenance and system upgrades
- ▲ **Reduce training** and compliance testing costs

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