DNP Users Group Training Course Series

Managing Distributed Energy Resources Using the IEEE Std 1815.2™ DNP3 Profile – Part 2

Tuesday, June 23, 2026, 1:30 – 3:00 PM ET

This training course is offered at no charge to our members.

Register

Description

The DNP Users Group (DNP-UG) is continuing our series of training courses led and instructed by industry and Users Group leaders addressing important topics relevant to our members and the industry. Training courses will often follow public workshops on related topics.

The DNP-UG is proud to present the **second** session in a two-part training course focused on IEEE® Std 1815.2™-2025, *"IEEE Approved Draft Standard Profile for Communications with Distributed Energy Resources (DERs) using IEEE Std 1815™ [Distributed Network Protocol (DNP3)]" (the standard),* which defines how Distributed Energy Resources (DERs) can be managed using the DNP3 protocol. In this session of six modules, participants will build on the foundational topics included in Part 1.

In Part 2 participants will explore core DER functions and how they work together. Covered topics include compliance, data types, timing of the functions, priorities and schedules. This session will then address the basic DER capabilities, active power functions and reactive power functions that are defined in the standard. The final module in Part 2 will include a review of the material covered in Part 1 and Part 2, the challenges that remain, and the advantages and benefits of the standard.

DNP Users Group Training Course Series

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Our member training courses are recorded and will be distributed and posted to our website as soon as possible.

The following topics (modules) will be covered in Part 2:
(Each topic is a 15-minute module):

1. DER Function Descriptions
2. Functions Working Together
3. Basic DER Capabilities
4. Active Power Functions
5. Reactive Power Functions
6. Review

Time will be allotted for audience participation and discussion.

DNP-UG is grateful for the support and participation of SaskPower in the development and presentation of Part 1 and Part 2 of this course.

Speakers (see bios below)

- John McDonald, Session Chair, JDM Associates
- Grant Gilchrist, Instructor, DNP Users Group, Tesco Automation

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To receive periodic updates and news, click here: **Enroll**

The DNP-UG is a non-profit group with the mission to actively support measures to improve interoperability and cybersecurity in DNP systems by developing technologies and standards, implementing a conformance program, and providing education to the industry. Utilities and vendors benefit significantly with reduced project and development costs and risks due to a broadly adopted, well managed, highly interoperable and secure protocol (if implemented).

To participate and support our work please join us! Click here: **Membership Guide** or **Join**

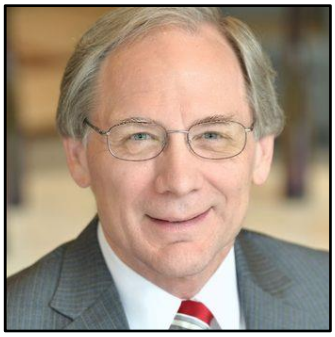
For more information click here: **dnp.org home**

Follow us on **LinkedIn**

For assistance or more information, contact Sara at membership@dnp.org

DNP Users Group Training Course Series

Speaker Pictures and Bios



John D. McDonald, P.E., Founder & CEO of JDM Associates, LLC, Panel Chair

John D. McDonald has 50 years of experience in the electric utility transmission and distribution industry. John received his B.S.E.E. and M.S.E.E. (Power Engineering) degrees from Purdue University and an M.B.A. (Finance) degree from the University of California-Berkeley.

John is a Life Fellow of IEEE (member for 53 years), member of IEEE-HKN (inducted 53years ago) and Tau Beta Pi (inducted 51 years ago), member of the Delta Sigma Phi Fraternity, and was awarded the IEEE Millennium Medal, the IEEE Power &Energy Society (PES) Excellence in Power Distribution Engineering Award, the IEEE PES Substations Committee Distinguished Service Award, the IEEE PES Meritorious Service Award, the 2024 CIGRE US National Committee (USNC) Philip Sporn Award, the2016 CIGRE Distinguished Member Award, the 2016 CI GRE USNC Attwood Associate Award, the 2021 CIGRE Honorary Member Award, the Smart Energy Consumer Collaborative (SECC) Lifetime Achievement Award, and the Delta Sigma Phi Fraternity Career Achievement Award.

John received the 2009 Purdue University Outstanding Electrical and Computer Engineer Award and the 2023 Purdue University Distinguished Engineering Alumni Award. John teaches Smart Grid courses at the Georgia Institute of Technology and the University of Tennessee at Chattanooga, and Smart Grid courses for various IEEE PES local chapters as an IEEE PES Distinguished Lecturer (since 1999). John has published one hundred fifty papers and articles, has co-authored five books and has one US patent

DNP Users Group Training Course Series

Grant Gilchrist, P. Eng., Systems Engineer, Tesco Automation. Founding Member of the DNP-UG Technical Committee, Panelist

Grant Gilchrist, P. Eng., is a Systems Engineer specializing in grid modernization for Tesco Automation. He is a member of several utility data communications standards groups including the IEC working groups for SCADA and utility protocol security. He is a founding member of the Technical Committee for the Distributed Network Protocol (DNP3) and was secretary of that committee for seven years. Grant is an active member of the Cybersecurity Task Force. He was editor and primary author of several standards documents, including the IEC 62351-5 standard for cyber-security of the IEC 60870-5 and DNP3 protocols, the award-winning IEEE 1815.1 standard for gateways between IEC 61850 and DNP3, and the DNP3 Application Note AN2018-001, soon to become IEEE standard 1815.2 (in collaboration with MESA), which describes how to use DNP3 to communicate with Distributed Energy Resources (DERs). He has helped several major utilities develop technical requirements for their Advanced Metering Infrastructures (AMI) and other grid modernization programs, including some of the original use case definitions for AMI. He specializes in visualizations of the Smart Grid and developed the NIST Smart Grid Framework "cloud" diagrams.