

# Welcome and Overview SNIA Emerald V4.0 Training

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SNIA Emerald<sup>™</sup> Training

SNIA Emerald™ Power Efficiency Measurement Specification

Version 4.0.0

September 16, 2020







- The Storage Networking Industry Association welcomes you.
- Several groups have worked together to prepare the SNIA Emerald<sup>TM</sup> Training session:
  - SNIA Green Storage Initiative and Green Technical Working Group
  - EPA Energy Star Data Center Program
  - SNIA Staff



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- Training format Zoom ; 1 day, 2 hours
- Session being audio recorded; posted 2-3 weeks later
- Slides posted at <u>https://www.snia.org/emerald/education/vendor-training</u>
- Agenda has time per session for Q&A ; will have time at end for Q&A
- Questions can be either emailed to emerald-training@snia.org or put question into Zoom chat window
- Audio controls
  - With your PC , find the microphone icon and click to mute/unmute
  - If calling in on a landline/cellphone, use the phone device options to mute/unmute

#### Moderator may mute all lines

SNIA Emerald<sup>™</sup>



- Understand the purpose of the SNIA Emerald Program and the EPA ENERGYSTAR Program for Data Center Storage
  - Timing of the EPA V2.0 Program that references SNIA Emerald V4.0
- Understand what has changed from V3.0.3 to V4.0.0
- Understand the expanded V4.0.0 storage system taxonomy
- Understand the steps to enroll and submit test results to EPA ENERGYSTAR Program
- Understand available industry resources for support and answers; and where to obtain specification, tools, and resources



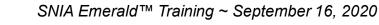
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# **Intended Audience**



#### Independent Test Labs

- Test engineers ; Program Managers
- Vendors/Service Providers with in-house Test Labs
  - Test engineers; Compliance Officers; Product Managers
- National Bodies Leveraging the Program
  - Labs affiliated with that National Body program
  - Certifying Bodies affiliated with that National Body
- Interested Stakeholders
  - IT Professionals that perform in-house assessments
  - Industry Associations and Consortia



# Training Agenda Overview



- Welcome and Overview 10 Minutes
- EPA Energy Star DCS Update 20 Minutes
  - Ryan Fogle, EPA Energy Star Data Center Programs
  - John Clinger, ICF, Program Management EPA Energy Star
- SNIA Emerald Testing Resources 15 Minutes
  - Dave Thiel, SNIA Emerald Program Director
- SNIA Emerald What has Changed V3.0.3 to V4.0.0 35 Minutes
  - Dave Thiel, SNIA Emerald Program Director
- SNIA Emerald V4.0.0 Taxonomy 35 Minutes
  - Don Goddard, NetApp, co-chair SNIA Green TWG
  - Herb Tanzer, Industry consultant, co-chair SNIA Green TWG



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### **Questions?**



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