

2030.5 Ecosystem Steering Committee
Industry Connections Activity Initiation Document (ICAID)
Version: 0.1, 31 July 2018

IC18-003-01 Approved by the IEEE-SASB 27 September 2018

Instructions

- Instructions on how to fill out this form are shown in red. It is recommended to leave the instructions in the final document and simply add the requested information where indicated.
- **Shaded Text** indicates a placeholder that should be replaced with information specific to this ICAID, and the shading removed.
- Completed forms, in Word format, or any questions should be sent to the IEEE Standards Association (IEEE-SA) Industry Connections Committee (ICCom) Administrator at the following address: industryconnections@ieee.org.
- The version number above, along with the date, may be used by the submitter to distinguish successive updates of this document. A separate, unique Industry Connections (IC) Activity Number will be assigned when the document is submitted to the ICCom Administrator.

1. Contact

Provide the name and contact information of the primary contact person for this IC activity. Affiliation is any entity that provides the person financial or other substantive support, for which the person may feel an obligation. If necessary, a second/alternate contact person's information may also be provided.

Name: Steve Widergren

Email Address: steve.widergren@ieee.org , steve.widergren@pnnl.gov

Employer: Pacific Northwest National Laboratory

Affiliation: IEEE, SEPA

2. Participation and Voting Model

Specify whether this activity will be entity-based (participants are entities, which may have multiple representatives, one-entity-one-vote), or individual-based (participants represent themselves, one-person-one-vote).

Entity based.

3. Purpose

3.1. Motivation and Goal

Briefly explain the context and motivation for starting this IC activity, and the overall purpose or goal to be accomplished.

To effectively advance the ease of integration (the process to achieve interoperability) of distributed energy resources (DER, including responsive generation, storage, and load) into the electric system, an ecosystem of organizations need to be aligned not only on technical standards, but the profile of standards choices that are tested and certified to make this integration occur simply and reliable. In addition, the encouragement of a business and economic regulatory policy environment that aligns technology solutions with realizable business value propositions is important for driving the need to simplify integration and advance future work on standardization and testing. This effort intends to engage the ecosystem of organizations interested in promoting the IEEE 2030.5 standard and the related areas that will provide visibility and advance interoperability for DER integration.

The initial activity of this group will focus on the development of a roadmap that outlines activities to advance the interoperability dimensions related to DER integration starting with the present state of the 2030.5 standard, supporting material, and related efforts.

3.2. Related Work

Provide a brief comparison of this activity to existing, related efforts or standards of which you are aware (industry associations, consortia, standardization activities, etc.).

This activity is related to the IEEE 2030.5 standards working group's efforts that define and maintain that standard. It intends to review the status of that work and help prioritize future standards activity as well as the related activities to serve the 2030.5 ecosystem. The activity also relates to the United States Department of Energy's (DOE) Grid Modernization Laboratory Consortium (GMLC) Project 1.2.2 Interoperability. Work products from that effort and staff resources will be used to facilitate the development for an interoperability roadmap.

3.3. Previously Published Material

Provide a list of any known previously published material intended for inclusion in the proposed deliverables of this activity.

The deliverables will make reference to the 2030.5 standard and likely refer to material developed or being developed by others for testing and certification to this standard as driven by the marketplace. The deliverables also may use or incorporate concepts, organizational structures, and diagrams derived from DOE's GMLC 1.2.2 Interoperability project. This includes GMLC documents such as The Interoperability Strategic Vision whitepaper PNNL-27320, A Qualitative and Quantitative Approach for Measuring Interoperability PNNL-26412, and

Interoperability Roadmap Methodology, V1.1 PNNL-271491, as well as associated slides and presentation material.

3.4. Potential Markets Served

Indicate the main beneficiaries of this work, and what the potential impact might be.

The beneficiaries of this work include the 2030.5 standards working group, the consortium that exist or are emerging around the integration of DER (e.g., the Sunspec Alliance and MESA), governmental agencies that are looking to address DER integration concerns, electricity service organizations interested in purchasing compliant products and services to that make the deployment of the technology more efficient and reliable, technology solutions providers (suppliers, integrators, and consultants) who develop and assist with the deployment of related technology.

4. Estimated Timeframe

Indicate approximately how long you expect this activity to operate to achieve its proposed results (e.g., time to completion of all deliverables).

Expected Completion Date: 08/2020

IC activities are chartered for two years at a time. Activities are eligible for extension upon request and review by ICCOM and the IEEE-SA Standards Board. Should an extension be required, please notify the ICCOM Administrator prior to the two-year mark.

5. Proposed Deliverables

Outline the anticipated deliverables and output from this IC activity, such as documents (e.g., white papers, reports), proposals for standards, conferences and workshops, databases, computer code, etc., and indicate the expected timeframe for each.

The deliverables of this activity will be a plan to develop an interoperability roadmap for the 2030.5 ecosystem and a resulting roadmap document, which outlines activities and priorities for members of the ecosystem to address.

6. Funding Requirements

Outline any contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities. Indicate how those funds are expected to be obtained (e.g., through participant fees, sponsorships, government or other grants, etc.). Activities needing substantial funding may require additional reviews and approvals beyond ICCOM.

This effort is expected to be facilitated by staff supported by the Grid Modernization Initiative of the U.S. Department of Energy (DOE). DOE has created the Grid Modernization Laboratory Consortium (GMLC) to engage and fund the resources of its National Laboratories to facilitate the creation of the roadmap.

7. Management and Procedures

7.1. IEEE Sponsoring Committee

Indicate whether an IEEE sponsoring committee of some form (e.g., an IEEE Standards Sponsor) has agreed to oversee this activity and its procedures.

Has an IEEE sponsoring committee agreed to oversee this activity?: No

If yes, indicate the sponsoring committee's name and its chair's contact information.

Sponsoring Committee Name: Committee Name

Chair's Name: Full Name

Chair's Email Address: who@where

Chair's Phone: Number, including country code

Additional sponsoring committee information, if any.

7.2. Activity Management

If no IEEE sponsoring committee has been identified in 7.1 above, indicate how this activity will manage itself on a day-to-day basis (e.g., executive committee, officers, etc).

The activity will have a chair, a vice chair, who will also serve as the secretary.

7.3. Procedures

Indicate what documented procedures will be used to guide the operations of this activity; either (a) modified baseline *Industry Connections Activity Policies and Procedures*, (b) Sponsor policies and procedures accepted by the IEEE-SA Standards Board, or (c) Working Group policies and procedures accepted by the Working Group's Sponsor. If option (a) is chosen, then ICCom review and approval of the P&P is required. If option (b) or (c) is chosen, then ICCom approval of the use of the P&P is required.

A modified baseline of the *Industry Connections Activity Policies and Procedures* document will be used.

8. Participants

8.1. Stakeholder Communities

Indicate the stakeholder communities (the types of companies or other entities, or the different groups of individuals) that are expected to be interested in this IC activity, and will be invited to participate.

DER owners and users
 DER equipment suppliers
 DER energy-management system suppliers
 Regulators and government agencies
 Trade associations and industry consortia
 Testing and certification organizations

8.2. Expected Number of Participants

Indicate the approximate number of entities (if entity-based) or individuals (if individual-based) expected to be actively involved in this activity.

Approximately 25 organizations are expected to take part.

8.3. Initial Participants

Provide a list of the entities or individuals that will be participating from the outset. It is recommended there be at least three initial participants for an entity-based activity, or five initial participants (each with a different affiliation) for an individual-based activity.

Use the following table for an entity-based activity:

Entity	First Name	Last Name	Activity Member Rep
IEEE	Ravi	Subramaniam	X
Wi-Sun	Bob	Heile	X
SCE	Anthony	Johnson	X
SCE	Joshua	McDonald	
Gridwiz	David	Kim	X
Com Ed	Russell	De Salvo	X
GE	Robby	Simpson	X
GE	Fulin	Zhuang	
UL	Bill	Colavecchio	X
EPRI	Ben	Ealey	X
SunSpec	Bob	Fox	
SunSpec	Tom	Tansey	X
SDGE	Greg	Smith	X
Kitu	Michael	Bourton	X
Intertek	Mukund	Rana	X
Quality Logic	James	Mater	X
Bee	Song	Deng	X
University of Ottawa	Javad	Fattahi	X
Hydro Ottawa	Raed	Adullah	X
PNNL	Steve	Widergren	X
PNNL	Mark	Knight	
NREL	Dave	Narang	X