



SUNSPEC ALLIANCE / EVENT GUIDE

Interoperability Plugfest

FEBRUARY 4-5, 2027

Hosted at the ASU Power Lab | Arizona State University

24 hours to a working solution. By the end of the day, the goal is to have your device interoperable.

About the event

The SunSpec Alliance Interoperability Plugfest brings developers, equipment vendors, DER technology providers, and other participants together for hands-on testing and collaborative problem solving. Teams will test implementations against one another, debug issues in real time, share technical knowledge, and report on the results.

Objectives

- Test and confirm interoperability among SunSpec Modbus and IEEE 2030.5 clients, aggregators, and servers.
- Encourage software developers from different companies to work together, deepen their understanding of the technologies, and learn from one another.
- Support real-time debugging and collaborative troubleshooting.
- Program using the Satori open-source stack.
- Use multi-vendor software test tools from Codibly, DERSec, Quality Logic, Kalkitech, EPRI, and Enetrics.

What participants will do

The core activity is scheduled, pair-wise testing of products across a range of interoperability use cases. Participants will also evaluate new use cases proposed by attendees, compile test results, and present lessons learned in a face-to-face group session. An evening social hour, prizes, and swag are also planned.

Testing scenarios

- CSIP, CSIP-AUS, and CSIP-India
- Pricing data exchange
- Meter profile
- Vehicle-to-grid (V2G)
- IEEE 1547
- SunSpec Modbus Poland Profile
- Modbus inverters with KNX load management
- SunSpec client/server profile against another protocol, with translational mapping supplied by the participant
- Other scenarios proposed by participants

Format and schedule

February 4-5, 2027 | Duration: 1.5 days. One full day is dedicated to testing, followed by a social hour. A further half day is reserved for results reporting and shared lessons learned.

Lab setup and participation limits

Communications testing

Maximum 50 participants. Testing will use W-LAN and Wi-Fi.

End-to-end testing

Communications configuration and inverter testing in the ASU Power Lab. Maximum 10 participants. Participation in this phase is available only after successful software-based testing.

Who can attend

Complimentary participation

SunSpec Alliance members, ASU graduate students and faculty, and SRP employees.

\$75 participation

Software developers, equipment vendors, and DER simulator providers. The fee covers a T-shirt, food, and drinks.

Expected outcomes

- A public report of event outcomes and product profiles, anonymized where required.

- A matrix summarizing test results, such as the number of tests completed and the number completed successfully.
- Recognition and prizes for the most tests completed, most exotic use case, most vendors tested against, implementations with the most successful tests, top student, and additional categories.

Recommended lodging

Camping

- Rowland Campground at McDowell Mountain
- Usery Park Campground

Hotels

Suggested three-star options with a target rate under \$250; actual rates and availability should be checked when booking.

- Hampton Inn and Suites Tempe
- Hyatt Place Tempe/University
- Moxy Phoenix Tempe/ASU