OpenADR 3 Enables Next-generation Features and Speeds Time-to-Market

Published just over a year ago, the OpenADR 3 communications standard makes it easier than ever for utilities, grid operators and aggregators to manage the growth in distributed energy resources (DER) and automate demand response to improve energy management efficiency. This is becoming more critical as more innovative products enter the market. After a first generation of consumer products such as smart thermostats, a second generation of EV charging systems, equipment manufacturers can now more quickly add more complex functionality for new products such as energy storage, virtual power plants and and electric vehicle batteries as grid resources.

The OpenADR 3 standard is not intended to replace the OpenADR 2.0a/b Profile specifications but rather provide an additional, simplified way to add OpenADR functionalities in current, as well as different and new scenarios.

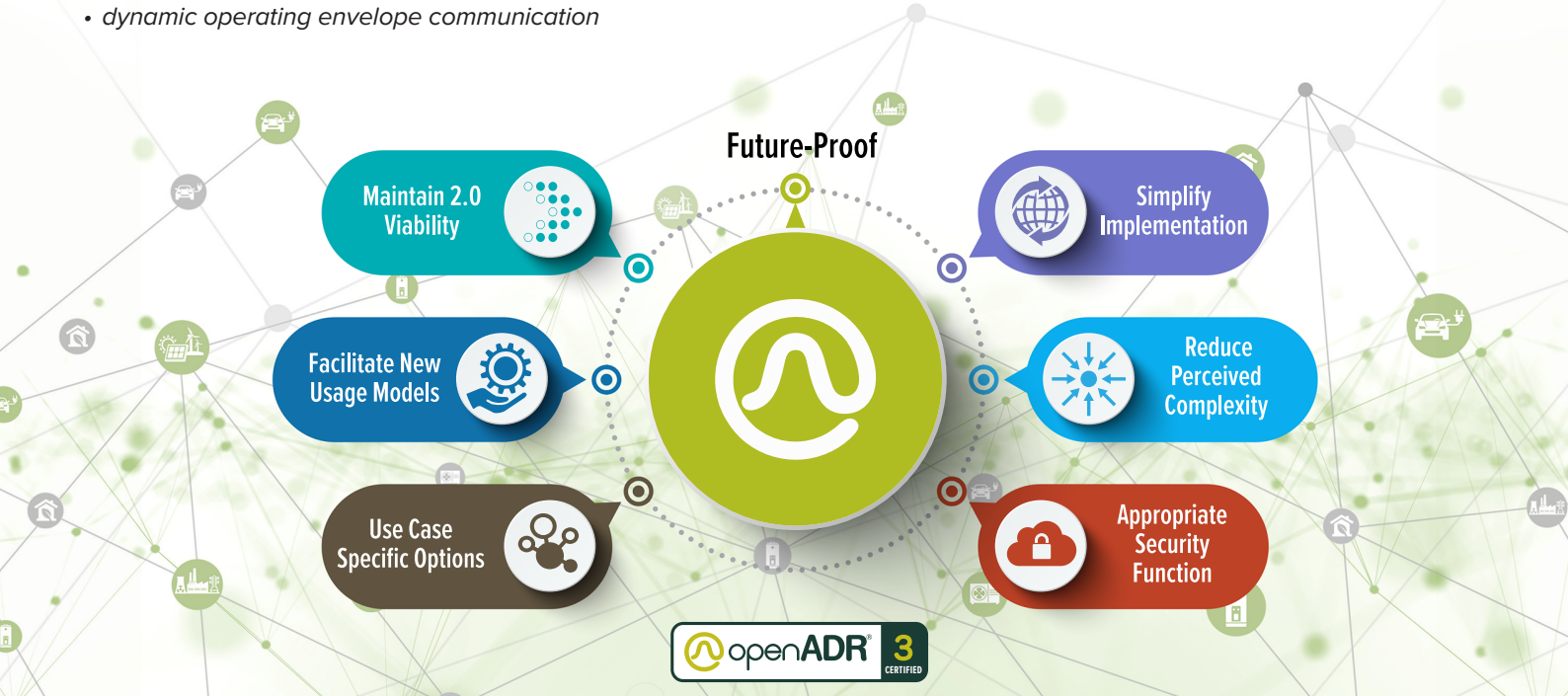
An open standard, OpenADR 3 provides highly secure, fast, and reliable two-way information exchange for utility applications with simple communications needs like dynamic price and event signals. OpenADR 3 simplifies messaging, including pricing, offering more dynamic pricing structures, as well as better enabling greenhouse gas signaling, grid code adjustments, and capacity management communication.

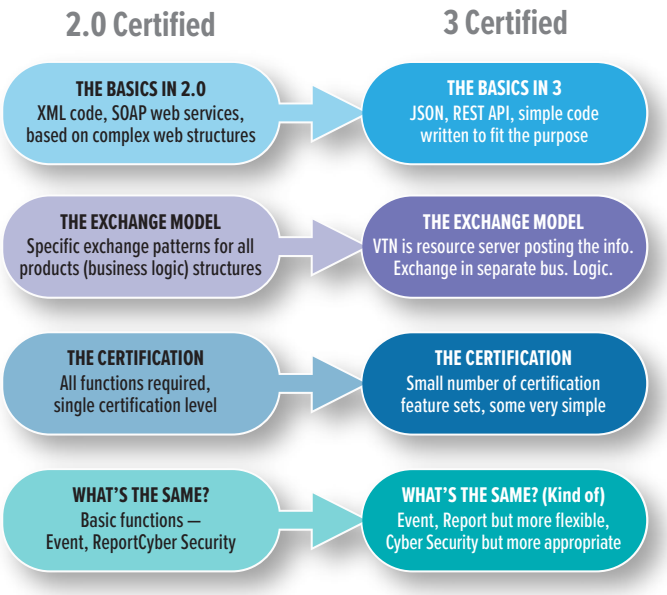
Aside from the well-known functionalities of 2.0, 3 simplifies messaging for each of the following:

- *dynamic pricing*
- *greenhouse gas (GHG) emissions*
- *grid code adjustments*
- *capacity management*
- *dynamic operating envelope communication*

Achieving OpenADR Alliance Certification

OpenADR certification encourages the development of a global ecosystem of standards-based products, eliminating single-vendor lock-in and ensuring interoperability. Only products that have been through the OpenADR Alliance Certification Program can claim OpenADR certified status. Testing is conducted at one of 10 approved test facilities using test assets created by the OpenADR Alliance in collaboration with other vendors.





Be sure to visit the OpenADR Alliance at our **Stand: A.e22,** and many of our member companies and partners at Enlit Europe in Vienna this November.

First OpenADR 3 Certified Products

- The Swedish Distribution System Operator, E.ON Energy Networks with the Flexibility platform SWITCH, has successfully completed interoperability testing to become the first VTN (Virtual Top Node) solution to achieve OpenADR 3 certification. SWITCH provides tooling for grid owners and lets them interface with customers that have controllable resources.
- Leading software-driven Charge Network Operator, EVoke Systems, has released its Energy Services Exchange (ESX) platform with OpenADR 3 integration, developed in collaboration with Argonne National Laboratory and industry partners. ESX enables utilities and grid operators to aggregate and optimize EV load management and DER coordination. By seamlessly communicating demand response and price signals to EV chargers, energy storage systems and other assets, ESX can improve overall system stability and incentivize customers participating in demand energy programs.
- Universal Devices, Inc., has completed the successful certification of its OpenADR 3 Virtual End Node (VEN), immediately available across its platform. Universal Devices has released the VEN implementation as open source, enabling widespread access and innovation. The integration of OpenADR 3 into Universal Devices' eisy product line creates a powerful bridge between utility demand response programs and today's most popular smart home protocols including Matter, Zigbee, and Z-Wave.



About OpenADR Alliance

The OpenADR Alliance brings together system operators, utilities, aggregators, controls vendors and solution providers to support the growth of this international standard (IEC 62746-10-1) Industry stakeholders worldwide work to foster the development, adoption and compliance of the OpenADR standard through collaboration, education, training testing and certification. There are currently over 250 certified OpenADR products. Collaboration includes technical working groups – most recently the creation of an Electric Vehicle Interest Group.

Hear the latest OpenADR Alliance updates by connecting with us on LinkedIn

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