niagara⁴ VEN Driver for OpenADR 2.0

OVERVIEW

The Niagara 4 VEN Driver for OpenADR 2.0 enables a Niagara station to use the OpenADR (Automated Demand Response) 2.0 standard to exchange pricing and demand information with energy providers. This driver empowers site owners to participate in demand response programs for energy use optimization. This driver allows Systems Integrators to find a link-ready interface between OpenADR and the rest of the Niagara station.

CONTEXT

OpenADR is "an open, highly secure, and two-way information exchange model and global Smart Grid standard" fostered by the OpenADR Alliance (www.openadr.org). This standard allows utilities to communicate pricing and load information with energy consumers. The OpenADR standard can be used in commercial, industrial, and residential settings to reduce cost and promote interoperability among demand response technologies. The OpenADR standard assists utilities and energy providers with managing pricing and critical load issues while actively engaging with their consumers. The OpenADR standard conforms to NIST Smart Grid Interoperability Framework.

A Virtual Top Node (VTN) registers and manages sets of resources, creates and transmits event notices, and requests data from a Virtual End Node (VEN). A VEN authenticates with a VTN, receives events and responds to them, controls demand side loads, and provides telemetry usage and status reports.

APPLICATION

Created by Tridium Professional Services, the Niagara 4 VEN Driver for OpenADR 2.0 enables a Niagara station to act as a VEN, giving the user the ability to link the resulting data to Niagara station logic and components for automated control responses. The driver currently supports both Niagara Supervisors and JACEs, and is certified by the OpenADR Alliance to conform to its 2.0 specification.

## Niagara 4 VEN Driver for OpenADR 2.0 delivers OpenADR into Niagara Framework®

openADR™ | 2.0a CERTIFIED   openADR™ | 2.0b CERTIFIED

FEATURES

- Certified by OpenADR Alliance
- Conforms to the NIST Smart Grid Interoperability Framework
- Eases demand response implementation
- Polls and receives events from VTN
- Stores events in a Niagara station
- Updates event status from far to near to active to completed
- Presents event details in Niagara slots for integration
- Clears completed events from station
- Accommodates standard and custom signals
- Displays usage, status, and history reports
- Differentiates event classes using market context
- Supports Opt In / Out schedule for resources

powered by

niagara
framework®

DELIVERING OPENADR INTO NIAGARA
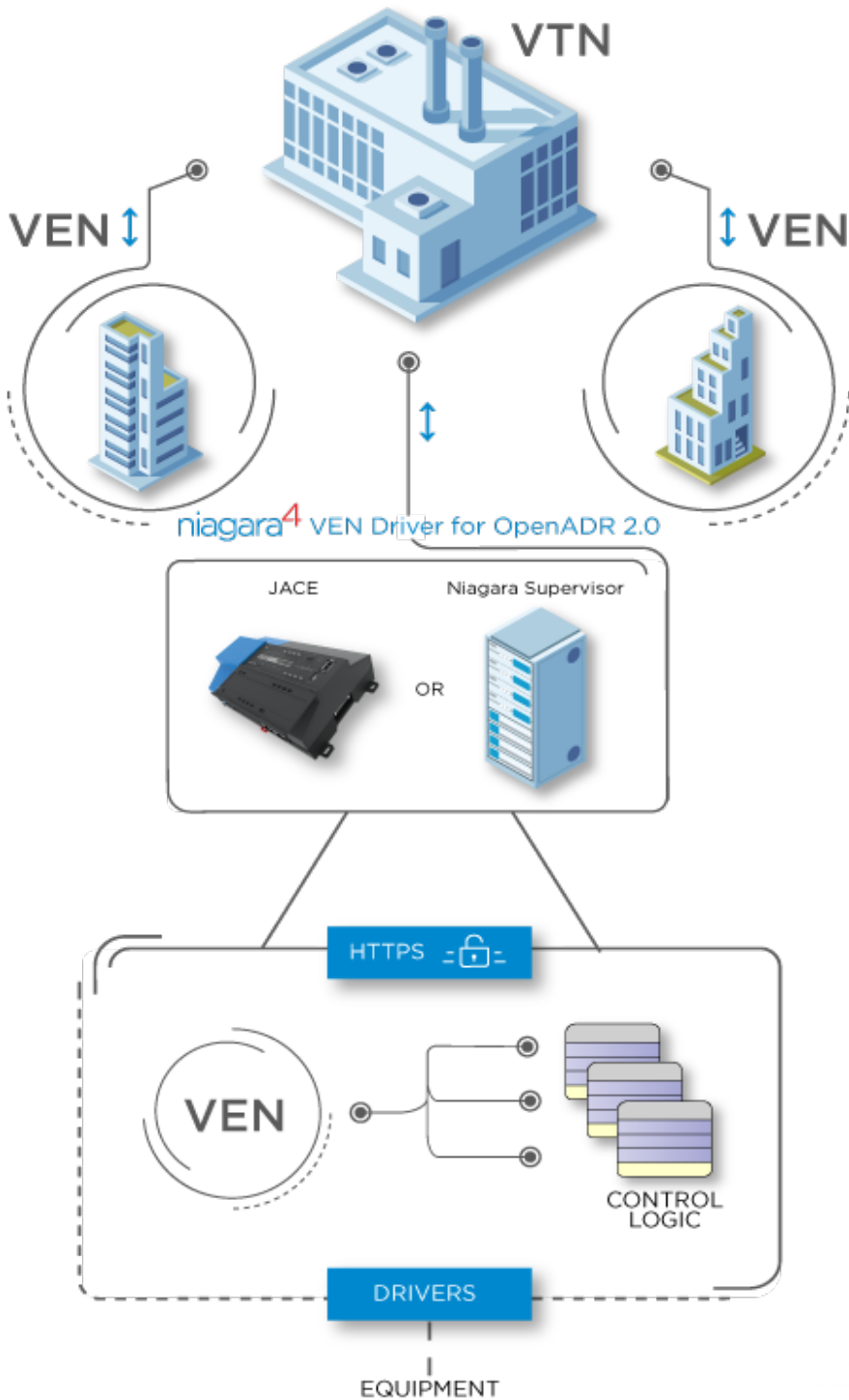
niagara⁴ VEN Driver for OpenADR 2.0

ORDERING INFORMATION

Part number	Description
DR-OADR	Niagara4 VEN JACE Driver for OpenADR 2.0 - OpenADR Alliance Certified - enables a single VEN connection; multiple purchases allowed.
DR-S-OADR	Niagara4 VEN Supervisor Driver for OpenADR 2.0- OpenADR Alliance Certified - enables a single VEN connection; multiple purchases allowed.
OADR-SVCS	Niagara4 VEN Driver for OpenADR 2.0 Technical Support (up to 8 hours in 90 day period following order placement)

The Niagara 4 VEN Driver for OpenADR 2.0 is not included in the Niagara core software and must be downloaded from Software downloads in Niagara Licensing.

To learn more about how to purchase, install, and start using the Niagara 4 VEN Driver for OpenADR 2.0, please contact your Tridium account manager or Niagara partner.

TRIDIUM

tridium.com

Locations and customer support, worldwide

Headquarters **North America** 1 804 747 4771	**Support** **North America & Latin America** 1 877 305 1745	**Europe, Middle East & Africa** 44 1403 740290	**Asia Pacific** 86 400 818 6088