



Niagara 4 VEN Driver for OpenADR 2.0

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Q&A

1. Is Tridium a 3rd party service that acts as the link between the Customer and Utility once the N4 ADR 2.0 Controller is installed? Is a contract required with The Utility?

Niagara acts as a VEN so it can receive the DR signals from the VTN and make them available for the Niagara User to balance their load consumption.

2. Is there a penalty charge if you do not respond to an Event?

Utility provider will have the control on these if the DR signals are not implemented.

3. How do you set a load shed strategy to respond to the event metadata within Niagara? For example, on market context "CBP" increase setpoints on RTUs by 4F.

All the DR Event metadata is available as properties under the "Active Event", so Niagara User can create the control logic to shed their loads based on the active DR signals from VTN.

4. Is there a list of Energy providers this driver works with, or do we need to contact the energy provider for the customer to make that determination?

This works with any VTN which follows the OpenADR 2.0 specification.

5. Is there anything built into the driver to show compliance to the VTN, meaning the load was curtailed as asked?

The VTN can request a one-shot report of the current online status or usage of the Resource in question to confirm that it has changed. The VEN does not automatically send these reports - they must be requested by the VTN.

6. What can be done if the local utility provider does not have OpenADR 2.0?

OpenADR 2.0 is currently the only protocol for demand response offered by Tridium. Other drivers for other protocols may be offered by other vendors.



7. Since the events are dynamic components, how can those be linked from automatically?

There is a static slot for active event signals that can be linked from to control logic. The values of these slots will update according to the signal payload received from the VTN in the form of an event.

8. Is there any integration available on VEN side in the driver to configure bql or neql type queries to batch shed loads once DR signal is received from VTN?

The links from the Resource signal payloads to device control logic must be created by the user. This can be done individually with the Wiresheet, as a batch link with the Link Mark feature, or programmatically using a Program Object. It would be possible to create a program object that accepts a bql or neql query as input and links a resource's signal target payload slot to the command components of devices returned by that query. Such functionality is not built into the driver.