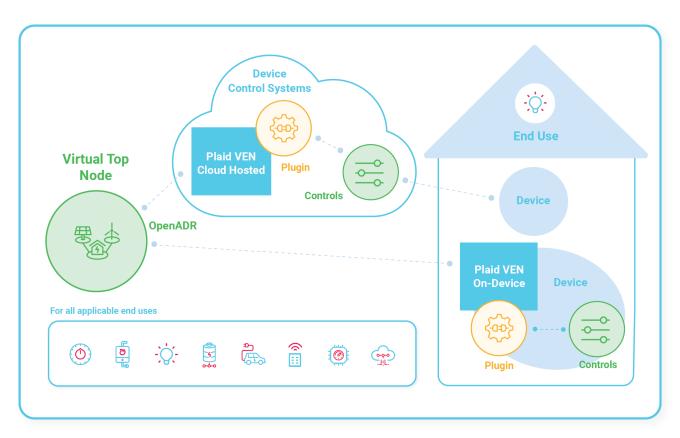# Plaid

OpenADR 2.0b VEN

OpenADR® is the leading load shifting protocol used in utility programs across the world. Adding OpenADR compliance is a regulatory requirement in some regions, such as for certain devices in California.

Plaid is a licensed software solution that fully implements an OpenADR 2.0b Virtual End Node (VEN) as a **microservice**, and may be hosted on your device or in your controls cloud, allowing your product to become OpenADR compliant as though you implemented it yourself. Plaid implements OpenADR logic and communications "under the hood" and exposes a plugin that communicates to your existing APIs.
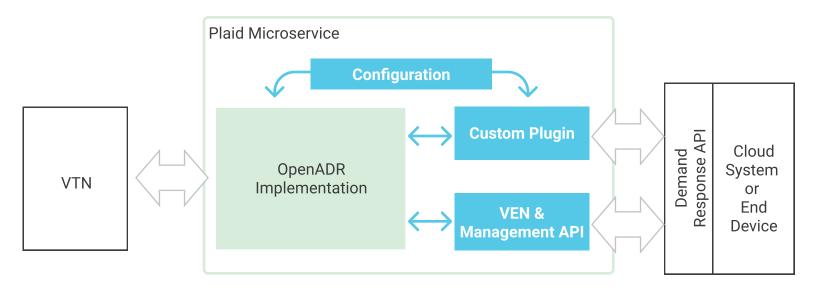

Benefits of using Plaid to implement OpenADR include:
- Easy path to OpenADR compliance
- Host it on device or in the cloud as though you built it yourself
- One fee, run unlimited instances of Plaid
- Save your software development team months of work

GridFabric

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Plaid implementation

Plaid Microservice

Configuration

VTN

OpenADR
Implementation

Custom Plugin

VEN &
Management API

Demand Response API

Cloud
System
or
End
Device

Custom Plugin Functions		VEN & Management API	
Events • OnDistributeEventStart • OnDistributeEventComplete • OnEventStart* • OnEventComplete* • OnEventIntervalStart • OnEvent • OnEventCancel • OnEventImplicitCancel	**Reports** • OnPeriodicReportStart • OnPrediodicReportComplete • OnGenerateOneShotReport • OnGeneratePeriodicReport • OnGenerateHistoricalReport • OnGenerateRegisterReport	**Registration** • Query Registration • Create Party Registration • Cancel Party Registration • Clear Registration • Set VenID **VEN Control** • Start Ven • Stop Ven • Status	**Events** • Request Event • Clear Events • Opt Event • Created Event **Opt Schedules** • Create Opt Schedule • Cancel Opt Schedule
Required for OpenADR Certification			

The custom plugin by default communicates JSON messages via HTTP POST and may be customized to use whichever message transfer your system prefers.

Documentation is available at plaid-docs.gridfabric.io.

About GridFabric

GridFabric has been working in demand response for over 10 years, with 5+ years specializing in OpenADR, with additional work on other protocols such as CTA 2045 and IEEE 2030.5. Our team developed the EPRI open source C# VEN, C++ VEN Library, and VTN, and are actively involved in the OpenADR alliance. We are the OpenADR experts, so your team doesn't have to be.

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