

OpenADR Simple Client Driver



Overview

The Open ADR (Automatic Demand Response) simple client driver is part of Tridium's portfolio of software drivers that enables communication and interface between Niagara^{AX} Hosts and Utilities and allows ISO's and Aggregators to support Automated Demand Response Programs using the Akuacom Demand Response Automation Server (DRAS).

The Open ADR standard was documented by Lawrence Berkeley Labs, Akuacom - a Honeywell company, NIST, University of Pretoria, and Automated Logic Controls. The specification outlines a specific communication model that uses the Internet to send Demand Response signals to end-user facilities to curtail energy loads. Open ADR programs can be used in commercial, industrial and residential settings to reduce cost, promote interoperability among DR technologies, and allow utilities and energy providers to better manage pricing and critical load issues while actively engaging with their consumers.

Applications

The Open ADR Client driver allows utilities to collaborate with end-user facilities to perform automatic load shedding events to curtail energy consumption during peak usage. The system architecture of the Open ADR program includes three parties: the utility or energy provider, the Demand Response Automation Server (DRAS), and the facility that is consuming the energy. This driver is only compatible to work with the Akuacom DRAS.

Features

The Open ADR driver gets installed in a Niagara platform of a JACE or Web Supervisor and creates a client/server relationship between the Niagara Platform and Akuacom DRAS.

- Deployed in standard JACE platforms and enterprise Web Supervisor platforms
- Device integration follows the standard Niagara Driver Framework architecture
- Secure communication over SSL
- Communicates through a REST interface

System Requirements

Niagara^{AX} version 3.5 or later running on a JACE platform and Web supervisory platform with a licensed Open ADR software module.

Ordering Information

Part Number	Description
DR-SimpleADR-AX	Simple Open ADR software driver allows communication between a JACE and an Akuacom DRAS. Limited to one DRAS client connection. * Includes CRYPTO license for the SSL connection
DR-ADRClient-AX	Additional DRAS Client connection, allows a JACE to connect to one additional Open ADR compliant DRAS.
DR-S-Simple ADR-AX	Simple Open ADR software driver allows communication between Niagara ^{AX} Supervisor and Akuacom DRAS. Limited to one DRAS client connection. * Includes CRYPTO license for the SSL connection
DR-S-ADRClient-AX	Additional DRAS Client connection, allows a Niagara ^{AX} Supervisor to connect to one additional Open ADR compliant DRAS.

Architecture

