# SmartThings OpenADR Pseudo-VEN Cloud API Documentation

## API 1. VEN Registration

Method: POST  
Endpoint: /EiRegisterParty

Purpose: Register SmartThings Cloud as a VEN with the Utility VTN

Request Body Fields:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Mandatory | Description |
| venID | String | M | Virtual End Node ID |
| profile | String | M | OpenADR Profile (e.g., 2.0b) |
| transport | String | M | Communication mode (e.g., HTTP) |

Request Sample:

{'venID': 'VEN\_ST\_001', 'profile': '2.0b', 'transport': 'HTTP'}

Sample Response:

{'registrationID': 'reg\_123456', 'venID': 'VEN\_ST\_001', 'pollFreq': 'PT15M'}

**A diagram of a software company

AI-generated content may be incorrect.**

## API 2. Polling for Events

Method: POST  
Endpoint: /OadrPoll

Purpose: Periodically check VTN for new DR events or requests

Request Body Fields:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Mandatory | Description |
| venID | String | M | Virtual End Node ID |

Request Sample:

{'venID': 'VEN\_ST\_001'}

Sample Response:

{'eventID': 'evt\_001', 'signal': 'setpoint +3F', 'schedule': '2025-05-26T13:00:00Z'}

A diagram with text and arrows

AI-generated content may be incorrect.

## API 3. Receive and Process DR Event

Method: POST  
Endpoint: /api/v1/dr/events

Purpose: Process incoming DR event and translate to SmartThings commands

Request Body Fields:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Mandatory | Description |
| eventId | String | M | Event ID |
| startTime | String | M | Event start time |
| actions | Object | M | DR Actions like setpoint change |

Request Sample:

{'eventId': 'evt\_001', 'startTime': '2025-05-26T13:00:00Z', 'actions': {'setCoolingSetpoint': '+3'}}

Sample Response:

{'eventId': 'evt\_001', 'status': 'scheduled'}

A screenshot of a diagram

AI-generated content may be incorrect.