Standardize. Automate. Simplify.

OpenADR 2.0 – Technical Update

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Summary

- 80 certified devices

- OpenADR 2.0b in "CD" (Commend Draft) status at IEC

- Test harness upgrade started

- Working on finalizing the DR Program guide

- Working on adding additional test labs

- Europe update

Certified Devices

- New database in place with search functionality

- Products.openadr.org

- Working on refining the search and an input mechanism for marketing information

OpenADR in the IEC

- The OpenADR Alliance has been active in several IEC working groups

  - **IEC PC118** recently published the OpenADR 2.0b Profile Specification as IEC/PAS 62746-10-1. Now in CD phase to become a Technical Specification
  - IEC PC118 and **TC57 WG 21** are working on adapting OpenADR into the CIM framework
  - **IEC TC65 WG17** (Industrial Automation) is leaning on OpenADR 2.0 functionality

Test harness update

- Starting in May 2015

- Three main purposes
  - Fixing bugs that have been submitted, generally minor runtime changes
  - Implement changes that the working groups have identified (from out Mantis bug tracking database). Mostly clarifications and tightening up the spec
  - Implementing DR Program templates defined by the DR Program Guide

- Timeframe late summer

- Test harness licensees will be notified. Depending on the extend of the changes there might be a charge for extra features

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DR Program Guide

Currently OpenADR 2.0 defines the communications interface
- No specific DR Program Definitions & Restrictions
- Very flexible
- Many Implementers (VTN & VEN) seek more Guidance and Harmonization

VTN (Utility, Aggregator, DR Operator)

VEN (C&I, SMB, Residental)

Implementation Working Group started work to expand the domain of the protocol
- Define common DR program goals and objectives
- Reduce the complexity by defining common OpenADR-based DR programs
- Create a decision tree for implementers to select the relevant program to support
- Create testable DR program templates

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Current Work Items

- Collected existing and planned DR Program information
  - All input is still welcome!

- Reviewed Japanese requirements

- Filtered program parameters to establish common criteria

- Define OpenADR 2.0 DR Profiles

- Vendor Guide document 80%

- Still need: Payloads, RFI templates, additional descriptions

Test Houses

- Intertek Pleasanton, CA

- Open for new test service providers

- Korea and Japan locations established

- Interest from some US labs, start training

- Looking at some European locations also

Europe

- Some opportunities in Europe
  - Lots or renewables and also EVs in some countries
  - Utilities are unclear what to do

- Media Opportunities in Germany
  - June in Berlin – Media briefings about Smart Grid
  - January in Frankfurt – Media event

- USEF – Universal Smart Energy Framework – www.usef.info
  - Organization that tries to define "Services" for Smart Grid entities
  - Created their own protocol but realized that this is not going to be acceptable
  - Evaluating OpenADR as their protocol

Thank You!

Q&A

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