



Implementation Workshop
OpenADR Virtual Summit
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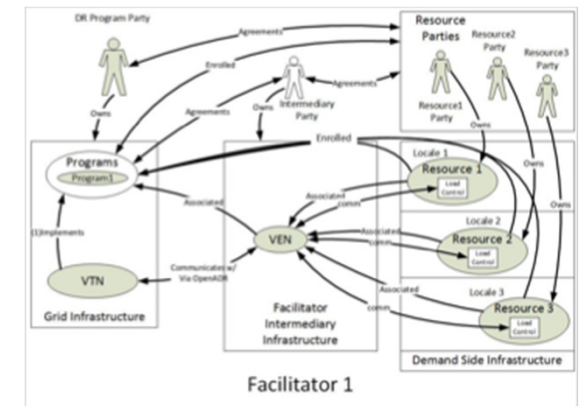
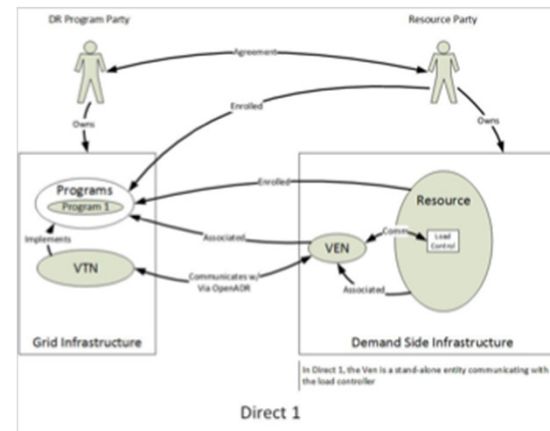
The Standards Balancing Act

- Addressing diverse use cases results in wider applicability of the standard
- This requires greater flexibility in the standard to accommodate the diverse use cases
- Greater flexibility implies more optionality in the standard
- More optionality complicates interoperability based on the standard



Evolution of OpenADR

- Typical Early Deployments
 - One use case (CPP)
 - Physical VENs at DR sites
 - One service (EiEvent) only
 - One signal (SIMPLE) per event
 - No reporting
- Today's Expanded Deployments
 - Multiple use cases (Tstats, RTP, TOU, DER,...)
 - Virtual (cloud) VENs, Aggregators
 - Report, Registration, and Opt services
 - Nine signals (for price, control, dispatch,...)
 - Full (often customized) reporting



What Does This Mean for OpenADR Implementations?

- What interoperability challenges exist with OpenADR now?
 - Are the challenges adequately addressed by reference implementations, the Implementation Guide, and other tools?
- Should OpenADR be modified to improve interoperability and to achieve wider use in the future?
 - If so, in what ways (protocol changes, documentation, etc.)?
- Workshop Participants:
 - Denver Hinds, Grid Evolution R&D, SMUD
 - Matt Hale, Cofounder, GridFabric
 - James Mater, GM Smart Grid, QualityLogic