Public Review Comments of Energy Interoperation v1.0 using working draft 26 dated 8 July 2011

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The OpenADR Alliance is pleased to submit these Comments in response to the Energy Interoperation v1.0 working draft. The OpenADR Alliance was formed to build on the foundation of technical activities to support the development, testing, and deployment of commercial OpenADR and facilitates its acceleration and widespread adoption. This approach needs to engage service providers (such as electric utilities and systems operators) within the domain of the Smart Grid that publish OpenADR signals, as well as the facilities or third-party entities that consume them to manage electric loads. The OpenADR Alliance will enable all stakeholders to participate in automated DR, dynamic pricing, and electricity grid reliability. Furthermore, the OpenADR Alliance will serve as the ITCA for the OpenADR 2.0 specification.

The Alliance is following the OpenADR profile described in section 12.1 of the Energy Interop specification to create the OpenADR 2.0 profile specification. While working through the EI, the following questions/issues were raised. Generally these are not specific suggestions or fixes but should identify areas that might need additional descriptions, references, or explanation.

Question # 1: Section 4.4 of the EI specification (second to last paragraph) says that "These durations are expressed in the Emix Resource Description". This is referring to the ramp up, recovery time, etc. The "Emix Resource Description" is defined in the Resources.xsd file which is not included as part of the EI schema or any of its downstream imports. The Resources.xsd files should be included in the specification

Question # 2: Section 10 of the EI specification describes Market Context indicating that both parties in a transaction can have a "market context". Furthermore, the narrative framework (section 5.3) describes VEN's querying VTNs for their market context. However, when looking at the schema, the only two places where market context appears in the payload is as follows:

1) Various eiOpt payloads, in both the requests and responses. We assume that the responses are just a mirror of the requests marketContext. If not, this needs to be described.
2) In eiRequestStatusPayload and as part of eiSentStatusPayload eiEventDescriptor.

Several Questions arise from this.
- There is confusion about how to get a VTN Market Context outside the framework of a specific event
- Why would the requestStatus operation contain market context in the payload? Perhaps having an ID of some sort might make sense to filter the request response, but why the entire marketContext?
- How does one know whether the marketContext returned in a Status response is just a confirmation of the request or something different?

Question # 3: The schema payload for eiRegisteredParty contains the following ID's...
-eitc:registrationID
-eitc:PartyID (below registarParty)
-eitc:registeredPartyID (below eiRegistrations - Can be mulitple ID's here - Why?)
-eitc:registarPartyID (below eiRegistration)

The meaning of all these different IDs is not described and will need additional definition.

Question # 4: There is confusion about who is allowed to initiate a registration cancellation. If a VEN registers with a VTN, who exactly can cancel the VEN to VTN registration relationship? Just the VEN, just the VTN, or either? If the VTN can cancel the relationship, how would that work in a pull model with the VEN behind a firewall? More description is needed.

Question # 5: It is unclear exactly how the EiAvail force filter works. What would happen if a DR event intersects with more than one availability period when Force in in effect? What if the VEN is always available? Is the intersect between the availability and the DR event time frame that triggers a "FORCE" the start of the event, then end of the event, or any point during the event time frame? More description is needed.

Question # 6: The eiCreateAvailPayload has one confusing issue: It is our understanding that the VEN would specify the behavior characteristic (Force, etc) but behavior does not appear in the create payload. Oddly it does get returned in eiCreatedAvailPayload. It doesn't seem to make sense that the

VTN would dictate how events get mapped to the VENs availability schedule. More description is needed.

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