VGI Communications Protocol Working Group Meeting

10/15/2017

Agenda

Start Time	Topic	Presenter
8:30 am	Roll Call, Review of Mission, Professional Conduct	Justin Regnier, CEC
9:00	Future Proofing the EVSE Presentation (proposed inclusion in Deliverable 1.3)	Joshua McDonald, SCE
9:30	Review of Deliverable 1.3 Outcomes	Justin Regnier, CEC
9:45	Comment on Deliverable 1.3 outcomes	All
10:00	Review of working group progress and current status	Noel Crisostomo, CEC Justin Regnier, CEC
10:15	Wrap up and next steps	Justin Regnier, CEC
10:30	Adjournment	Justin Regnier, CEC

Mission Review

- Provide a recommendation as to whether mandating 0,1, or many charging communication protocol (s) is necessary to enable VGI economically and at scale

- "working group to provide a recommendation on whether the CPUC should require a communications protocol or protocols for the electric vehicle service equipment (EVSE) and associated infrastructure that investor-owned utilities (IOUs) support with ratepayer funding. To answer this question, this working group will evaluate whether any existing communications protocol(s) are necessary to enable Plug-In Electric Vehicle-Grid Integration (VGI) to be deployed not just technically, but economically and at scale"

Professional Conduct

Future Proofing the EVSE:
Bridging Communications between Secure End Points (Grid and EV)

Proposal from VGI working group members Josh McDonald, George Bellino, Mike Bourton, Abigail Tinker, Lance Atkins, Rich Scholer, Dave McCready, Bill Boyce, Ralph Troute, Dean Taylor, Jim Tarchinski, Jordan Smith, Jeremy Whaling, Robert Ryueki
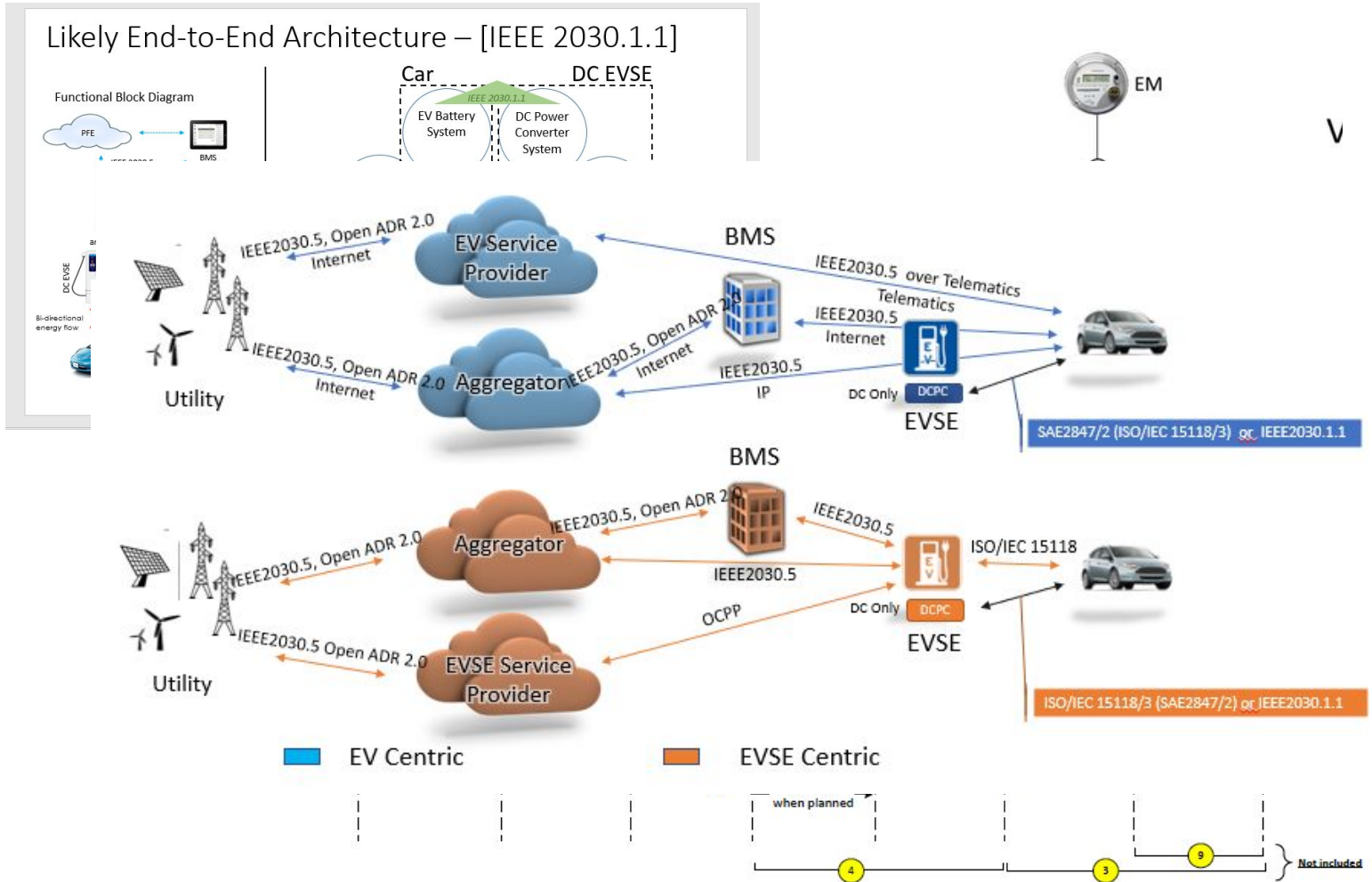
Oct 15, 2017

Sub-Working Group 1.3 Process

- Had group self identify protocols and SMEs for each
- Recast the functional requirements matrix in order to facilitate SMEs to identify capabilities
- Suggested diagrams to enable a deeper discussion of the common architectures
- Regular meetings with SMEs to ensure consistency in completion of materials

Results

- 7 protocols completed process, 1 elected not to participate
- Good communication in the calls and cross pollenation of SMEs on nuances of the other protocols
- Numerous diagrams and formats for data submission

Many, many potential pathways for information

Tabulated Results – Functional Requirements

Functional Requirements Category	OpenADR	IEEE 2030.5	OCPP	Telematics	SAE Suite	IEEE 2030.1.1	ISO 15118
Rule 21	Not Supported	Supported	Not Supported	Supported in Combination	Supported in Combination	Supported in Combination	Not Supported
Pricing	Supported	Supported	Not Supported	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination
Load Control	Supported	Supported	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination
Smart Charging	Supported in combination/ Not Supported	Supported	Not Supported / Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination
Monitoring	Supported in Combination	Supported	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination
Restart	Supported	Supported	Not Supported	Supported in Combination	Supported in Combination	Supported in Combination	Supported in Combination
Miscellaneous	Not Supported	Not Supported	Not Supported	Supported in Combination	Not Supported	Supported in Combination	Not Supported

Comments on Deliverable 1.3

Working Group Progress / Current Status