VGI Working Group

11/14/2017

November 14, 2017 AGENDA

Location: CPUC Auditorium

505 Van Ness Ave. San Francisco, CA 94102

Webex link: https://van.webex.com/van/j.php?MTID=m6973e0cad87ce31982eb4036b2425b02
Webex password: !Energy1
Call in: 866-811-6884
Meeting ID for WebEx and phone: 8742156

Start Time	Topic	Presenter
10:00 am	Roll Call & Summary of Previous Meeting	Justin Regnier, Facilitator
10:10 am	Appreciation of stakeholders	Justin Regnier, Facilitator
10:15 am	State agencies discussion of comments on hardware proposals	Agencies
10:30 am	Summary of comments received on proposed North Bound requirements	Agencies
10:40	Discussion on proposed North Bound requirements	All Stakeholders
11:20 am	Summary of comments on proposed internal hardware specifications	Agencies
11:30 am	Discussion on proposed internal hardware specifications	All Stakeholders
12: 00 pm	Lunch	
1:00 pm	Discussion on proposed internal hardware specifications (cont.)	All Stakeholders
1:30 pm	Summary of comments received on proposed South Bound requirements	Agencies
1:40 pm	Discussion on proposed South Bound requirements	All Stakeholders
2:20 pm	Other proposal comments and discussion	All Stakeholders
3:15 pm	Deliverable 2 discussion	All
3:45 pm	Action items and next steps	Justin Regnier, Facilitator
3:50 pm	Wrap Up	Agencies
4:00 pm	Adjourn	

Agency Thoughts on Proposal Comments

CPUC

CEC

CARB

Summary of Comments

Hardware function	Functionality Description	Commenters' Suggested Requirements
Installation Segments	Commercial, MUD, Single-family residences	All segments
Power level/Current type (AC v. DC)	AC L1 and L2; DC L1, L2 or L3	AC L2, DC L1 and L3
EVSE ⟷ Utility	IEEE 802.11n compliant hardware, IEEE 802.3 compliant hardware. Wifi and Ethernet connection	OpenADR, Wi-Fi, Ethernet, Cell, Telematics, SEP 2.0
EVSE ⟷ Charging Network Provider or Aggregator	Field upgradable, sufficient processor power to perform real-time protocol translation and encryption/description, supporting IP stack, interface and form factor that provides hardware extensibility	HP-GP, Wi-Fi, OCPP, IPv6, IEEE 802.11n, IEEE 802.3
EVSE ⟷ Car	physical layers that support the currently viable protocols	15118, HP-GP, Plug-n-charge, Control pilot signal connected in IEC 61851-1
Metering		revenue grade meters
Cybersecurity		ISO/IEC 11889, secure processor and memory, tamper detection, penetration proofing, other requirements, NISTIR 7628, UL 2900

Northbound

Commenters suggested these currently viable Northbound protocols that could be applied if hardware meets functionality requirements:

- OpenADR
- Wi-Fi
- Ethernet
- Cell
- Telematics
- SEP 2.0

Westbound

Commenters suggested these currently viable Westbound protocols that could be applied if hardware meets functionality requirements HP-GP

- Wi-Fi
- OCPP
- IPv6
- IEEE 802.11n
- IEEE 802.3

Southbound

Commenters suggested these currently viable Northbound protocols that could be applied if hardware meets functionality requirements:

- 15118
- HP-GP
- Plug-n-charge
- Control pilot signal connected in IEC 61851-1

Installation Segments, Metering, Cybersecurity

- Commenters suggested we consider all installation segments, rather than only multi-user facilities
- Commenters suggested we consider other power levels beyond AC L2
- Commenters recommended we require revenue-grade meters
- Commenters recommended we require hardware that could enable one or more of these currently viable solutions to address cybersecurity issues:
  - ISO/IEC 11889
  - Secure processor and memory
  - Tamper detection
  - Penetration proofing
  - NISTIR 7628
  - UL 2900

Other Proposal Comments and Discussion

Deliverable 2 Discussion

Action Items – Next Steps

Adjourn

Thank you!