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ChargePoint Comments on VGI Standard - Dec 7 Slides

Attached are modified slides presented as a comment at the workshop on December 7, 2016.

Additional submitted attachment is included below.

ChargePoint's perspective on ISO/IEC 15118

VGI Communications Standards
Joint Staff Workshop (CEC, CPUC)
CEC - Rosenberg Room - Sacramento, CA

Craig Rodine – Director, Standards

7 December 2016

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Summary

- The ISO/IEC 15118 series of standards is a mature, viable technology for present and future EV charging infrastructure.
- ChargePoint is investing in further development of 15118: R&D projects, standards development, and supporting auto OEM EV roadmaps.
- 15118 does not fully address some business and technical aspects of the EV charging infrastructure framework that's been effective and successful in CA and throughout North America.
  - For example: roles and motivations of site owner and service provider
- Transitions and scale matter: need to support today's EV drivers, site hosts, and a potential continuing *majority of EVs* supporting non-standard communications

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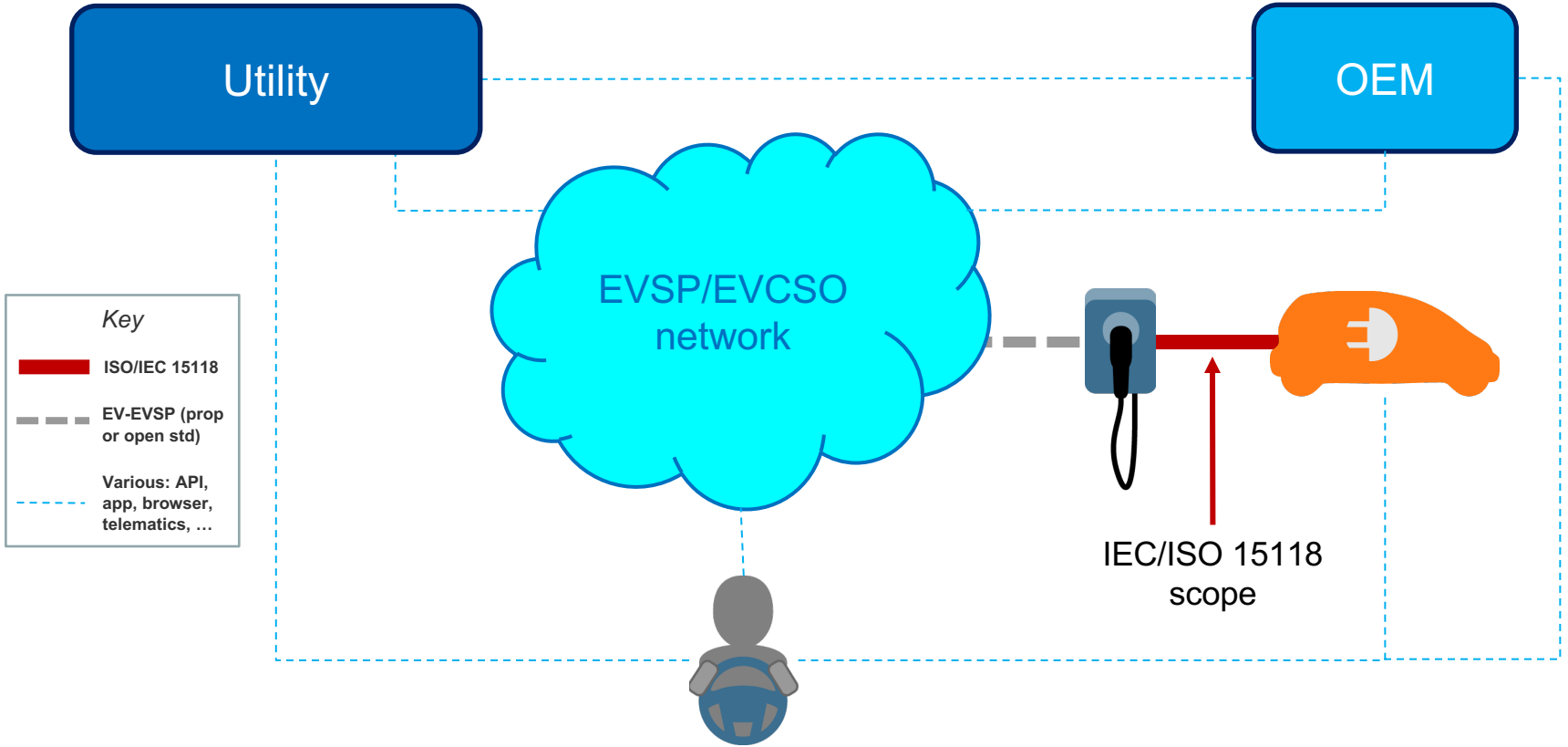
VGI Ecosystem and IEC/ISO 15118 Scope

(narrowest interpretation)



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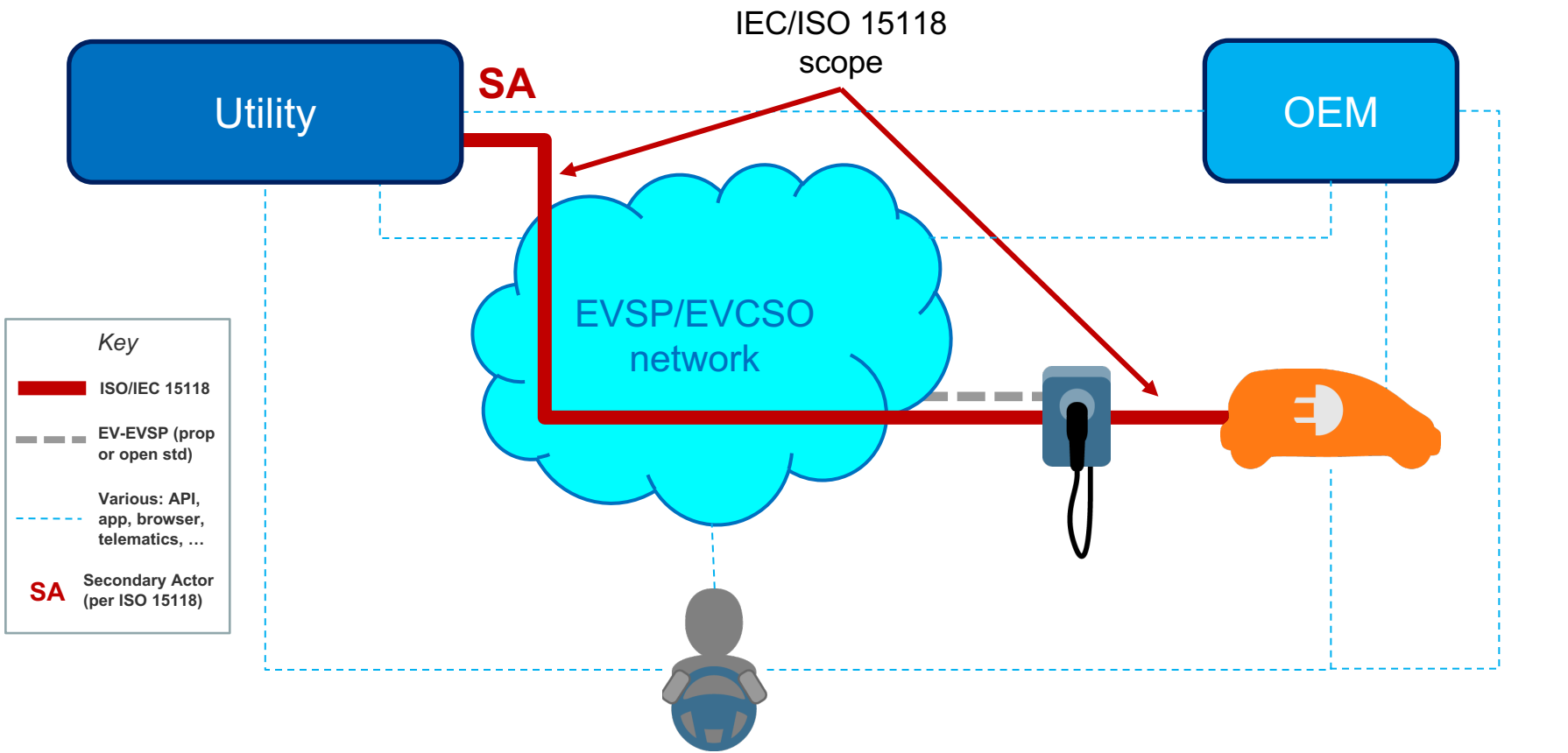
IEC/ISO 15118 Scope (effective, intended use)



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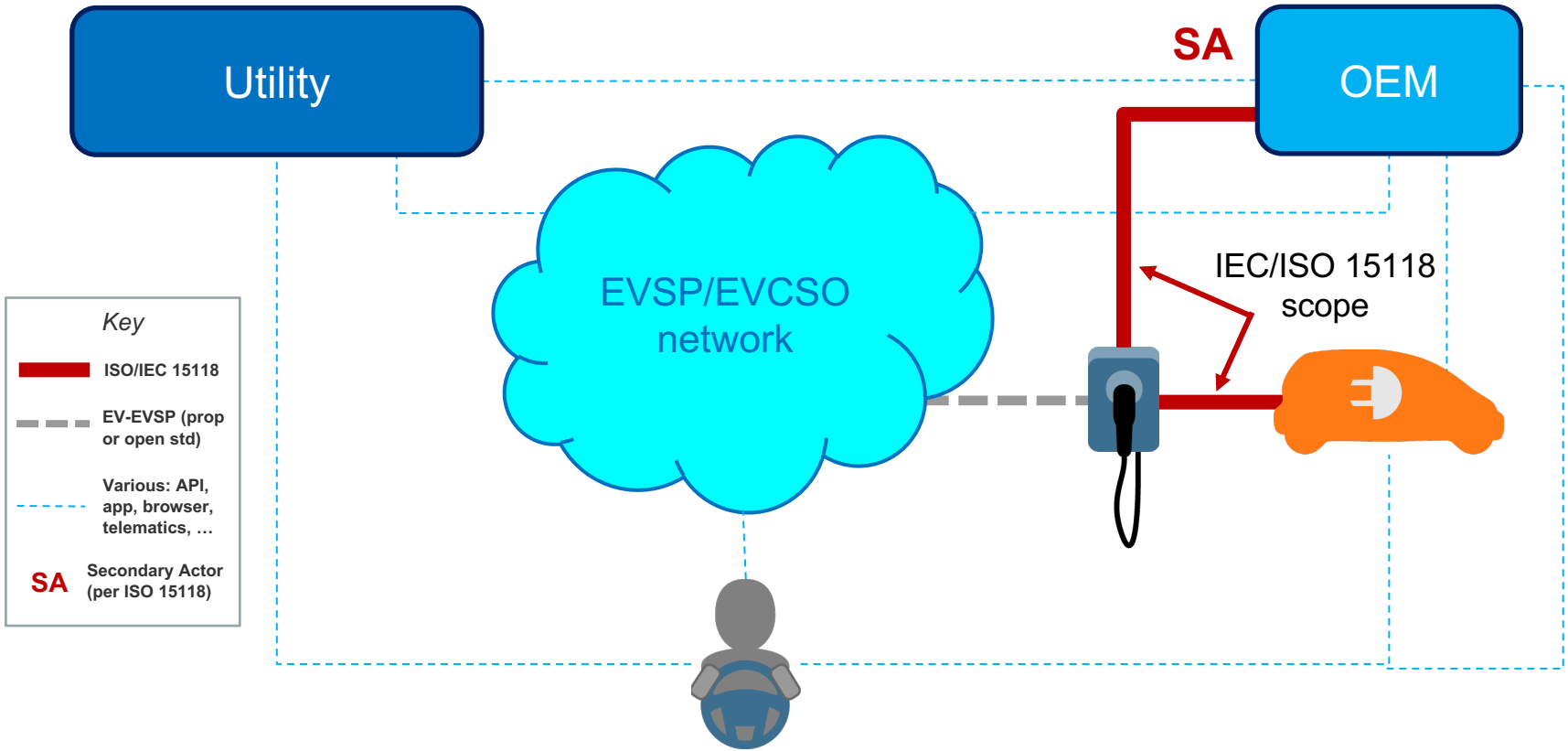
IEC/ISO 15118 Scope (potential alternative use)



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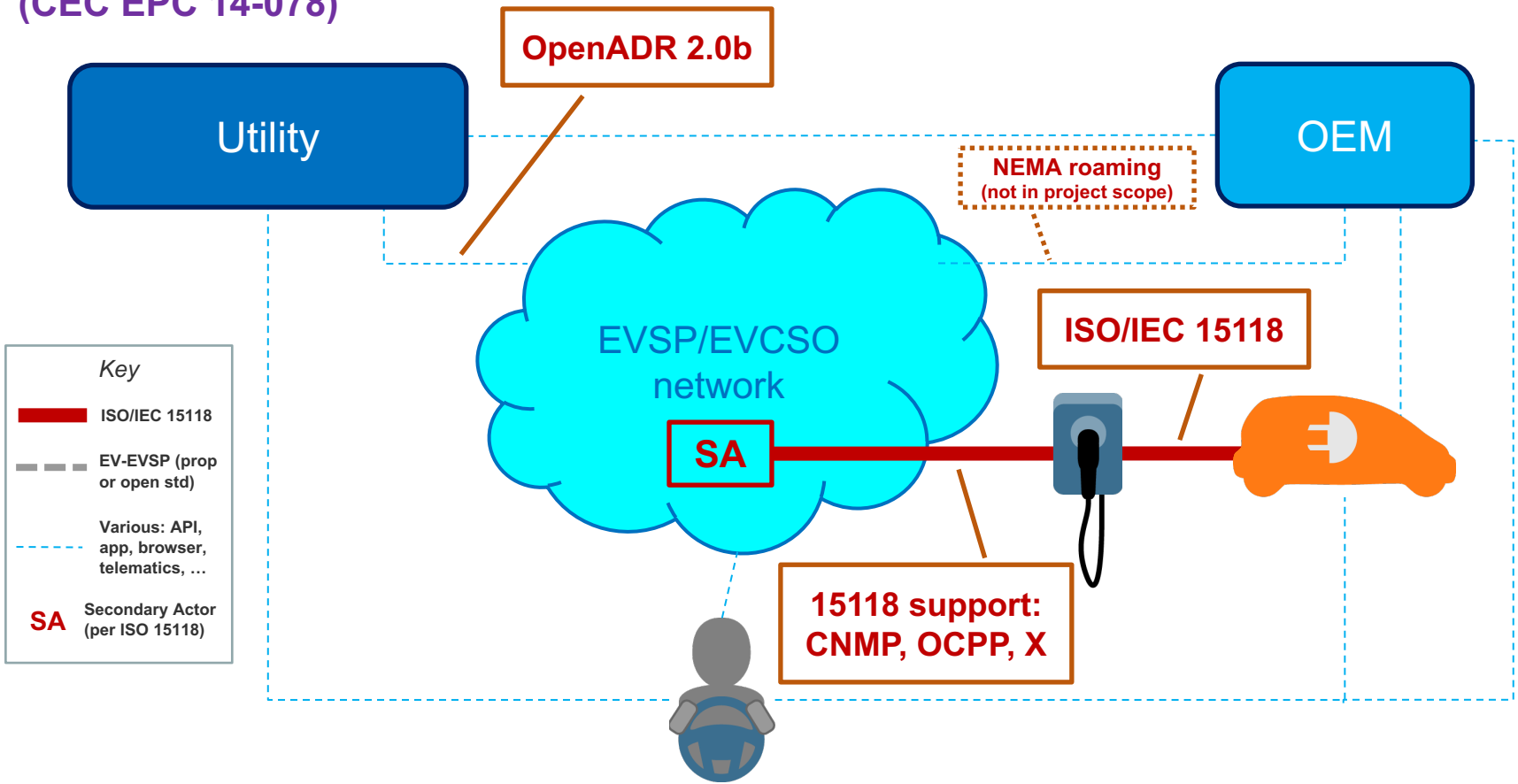
IEC/ISO 15118 VGI prototype application

(CEC EPC 14-078)



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Concluding points

- We see no technical show-stoppers, but there is work to be done on business models and system architecture to integrate ISO/IEC 15118 into California's EV charging networks.
- We also urge the Commission to require the development and public availability of a model of EV charging load and its impact on the grid, including controls on, for starters (not exhaustive):
  - Number of EVs deployed and growth rates
  - Concentration of EV charging loads on grid circuits
  - Customer (driver and site owner) incentives and % participation
  - Value ($) of DR and Energy services to all stakeholders

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Thank You

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