Electric Vehicle Supply Equipment
Nonproprietary Interoperability Standards

Meeting 2

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Meeting Controls

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- Phone attendees: Press *6 to mute/unmute yourself.
- Ask questions at any time by either:
  - Raising your hand
  - Leaving a message in the chat
Today’s Agenda

• Review Statute
• Discussion
  • High level goals of interoperability
  • OCPI
  • OCPP
  • Other protocols/standards
  • Other interoperability possibilities
• General reminders and information
General Thoughts

**What:** Any end goals, objectives, or issues needing to be addressed within the scope of the statute.

- What is the problem trying to be solved or the benefit trying to be achieved?

**How to achieve:** Any ideas for proposed language that meets the requirements of the statute and achieves objectives?

**Other:** Anything else we should know?

- How does it affect you?

**Data:** Please provide!
Interoperability standards provide safeguards to consumers and support access to EVSE.

In order for Washington to have reliable, accessible, and competitive markets for EVSE that are necessary for the movement of goods and people by electric vehicles, interoperability standards that align with national and international best practices or standards are necessary.
Sec 6(2): Interoperability Standards RCW 19.94.570(2)

By January 1, 2023, the department, in consultation with the department of commerce and the Washington utilities and transportation commission, must adopt rules establishing requirements for all EVSPs to, at a minimum, meet and maintain nonproprietary interoperability standards for publicly available level 2 and DC fast charger EVSE and may review and, if necessary, amend the rules every two years, to maintain consistency with evolving technology.

The requirements shall not provide that any charging provider must purchase or license proprietary technology or software from any other company, and shall not require that companies maintain interoperability agreements with other companies.
Sec 6(3): Interoperability Standards  

RCW 19.94.570(3)

For the purpose of this section, "interoperability" means the ability of hardware, software, or a communications network provided by one party, vendor, or service provider to interact with or exchange and make use of information, including payment information, between hardware, software, or a communications network provided by a different party, vendor, or service provider.
Sec 6(4): Interoperability Standards  

RCW 19.94.570(4)

The requirements of this section shall not apply to publicly available EVSE provided by a manufacturer of electric vehicles for the exclusive use by vehicles it manufactures.
What is the Purpose?

High level, general aspects we should be considering:
Reliable, accessible, and competitive markets

Definitions:
Concepts:
Desired outcomes:
Open Charge Point Interface (OCPI) Protocol

An independent and open protocol.

If adopting OCPI, what version or set of parameters?

<table>
<thead>
<tr>
<th>Parameter</th>
<th>OCPI v2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roaming via Hub</td>
<td>X</td>
</tr>
<tr>
<td>Roaming peer-2-peer</td>
<td>X</td>
</tr>
<tr>
<td>Roaming with mixed roles</td>
<td>X</td>
</tr>
<tr>
<td>Authorization</td>
<td>X</td>
</tr>
<tr>
<td>Reservation</td>
<td>X</td>
</tr>
<tr>
<td>Provide tariff information</td>
<td>X</td>
</tr>
<tr>
<td>Billing</td>
<td>X</td>
</tr>
<tr>
<td>Provide static charge point information (e.g. location)</td>
<td>X</td>
</tr>
<tr>
<td>Provide real-time charge point status information</td>
<td>X</td>
</tr>
<tr>
<td>Provide (real-time) session information</td>
<td>X</td>
</tr>
<tr>
<td>Provide CDR information</td>
<td>X</td>
</tr>
<tr>
<td>Remote start/stop (for use via mobile app)</td>
<td>X</td>
</tr>
<tr>
<td>Smart Charging support</td>
<td>X</td>
</tr>
<tr>
<td>Calibration law (eichrecht) support</td>
<td>X</td>
</tr>
<tr>
<td>Platform monitoring</td>
<td>X</td>
</tr>
</tbody>
</table>

Certified vs Compliant
Other Charging Standards or Protocols

- Open Smart Charging Protocol (OSCP)
- ISO 15118
  - Plug & Charge session
- OpenADR
  - DR
  - DER

Is there any benefit in these being regulated?
Other Aspects of Interoperability

- Locked Hardware
- Vender lock in
- Charging plug
Registering Devices

- Concerned about the process
  - Please try to register your devices
  - We would like to address actual issues, not preemptive concerns

If customers pay to use your EVSE, you should be registering them.
Stakeholder Involvement

• Upcoming meeting
  • 9/29: Meeting 3 – Fees and reporting

• Additional requests for input

• Visit our website for details:
  https://agr.wa.gov/services/rulemaking/wac-16-662-electric-vehicle-supply-equipment
Questions and Additional Thoughts?
Thank You