Requirements Group Update
Meetings

• Tuesdays and Thursdays 7:30am to 9:00am
• WebEX
• Group participants: Lance Atkins, Jeremy Whaling, Mike Bourton, Vincent Chen, George Bellino, Jordan Smith, Dean Taylor, Ralph Troute, Mike Ferry, Stephane Voit
• Agency Staff participation: Stephanie Palmer, Justin Regnier, Noel Crisostomo, Elise Keddie
Goal:

- To extract all of the functional, non-functional, customer, other and alternative requirements from the use cases submitted.
- These requirements will then be given to the mapping sub-group for the next phase of the project.
- **Functional requirements** define specific inputs, behaviors, outputs or other functions needed to accomplish each use case. These include functions such as authentication, authorization, certification, reporting, and data collection.
- **Non-Functional requirements** define criteria about the use case’s operation, rather than specific functions. These include attributes such as scalability, response time, reliability, data integrity, and interoperability.
- **Customer requirements** ensure the customer has control over accepting or rejecting VGI services. These requirements can include interaction with the EV charging equipment, a smartphone or computer app, a building management system or some other digital interface.
Eight (8) Fundamental Actor Terms

<table>
<thead>
<tr>
<th>Decision &amp; Choice Entities</th>
<th>Acting Equipment &amp; Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV Driver (EVD)</td>
<td>Energy Meter (EM)</td>
</tr>
<tr>
<td>Power Flow Entity (PFE)</td>
<td>Building Management System (BMS)</td>
</tr>
<tr>
<td>Utility Customer of Record (UCR)</td>
<td></td>
</tr>
<tr>
<td>EV Battery System (EVBS)</td>
<td></td>
</tr>
<tr>
<td>EV Power Converter system (EVPC)</td>
<td></td>
</tr>
<tr>
<td>Energy Connection System (ECS)</td>
<td></td>
</tr>
<tr>
<td>Energy Meter (EM)</td>
<td></td>
</tr>
<tr>
<td>Building Management System (BMS)</td>
<td></td>
</tr>
</tbody>
</table>

3 entities
5 equipment items

Examples of common names used in use-case descriptions:

- Driver
- End User
- Owner
- Fleet transportation operator
- Aggregator
- Utility
- EV Service Provider
- Energy Service Co.
- Alt. Energy Supplier
- Energy Portal
- Clearing House
- Site Host
- Ratepayer
- Bill Payer
- Home Owner
- Electric Vehicle
- EV
- BEV
- PHEV
- PEV
- Inverter
- Rectifier
- Bi-directional inverter
- Electric Vehicle Supply Equipment
- Charger
- Level 2 EVSE
- Level 1 EVSE
- End-user meter device (EUMD)
- Site meter
- Sub meter
- Site controller
- Building site controller
- Energy management system
- Home Energy Management System (HEMS)
Next Steps

• Duplicates have been sorted
• Non-functional (17), Customer (6), Other (7) and Alternative (2) Requirements in final review
• Functional requirements continued work on duplicates