

VGI Working Group Final Report Outline
Discussion Draft 12/18/17

1. Summary
2. Overview of the Need for the Working Group
 - a. Prior Policy Efforts in Vehicle-Grid Integration
 - b. Current Proceedings/Dockets
 - c. Initial Work Plan development
3. Definitions Sub-Working Group
 - a. Need for Consensus on Terms
 - b. Glossary and Grouping of Terms
4. Discussion of Use Case Sub-working Group Process and Results
 - a. Stakeholder Use Case Submission
 - b. Stakeholder Use Case Validation
 - c. Categorization of Use Cases
 - i. AC vs DC/ Long Dwell-Time vs Fast Charging
 - ii. Public/multi-user vs Residential Charging
 - iii. Level 1 vs Level 2 or Higher Charging
 - d. Analysis & implications
5. Discussion of Requirements Sub-working Group Process and Results
 - a. Requirement and Communications Pathway Identification
 - b. Fundamental VGI Actors
 - c. Extracting Requirements from Use Cases
 - d. Analysis of final requirements
6. Discussion of Mapping Sub-working Group Process and Results
 - a. Identifying Existing Protocols
 - b. Identifying Communications Pathways
 - c. Importance of Communications Pathways
 - i. Why are each important?
 - ii. What can they accomplish?
 - d. End-to-End Solutions
 - i. Protocols Matrices
 - ii. Protocol Diagrams
7. Assessment of Protocols
 - a. Ability of protocols to meet VGI use case requirements
 - b. Costs and benefits associated with enabling use cases
 - c. Protocol recommendation
 - i. No one protocol must be adopted to advance VGI at this time
8. Discussion of Hardware Requirements
 - a. Many protocols have similar hardware platforms
 - b. Hardware alone will not enable VGI
 - i. Recommended protocols
9. Next Steps
 - a. Recommendation included in CPUC process
 - b. Identify needs for additional R&D, deployment, and policymaking