Interoperability

CT DEEP Technical Conference

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Key Terms

Open Standards/Protocols

- Communications methodologies without intellectual property or that are otherwise free of royalties or costs to utilize
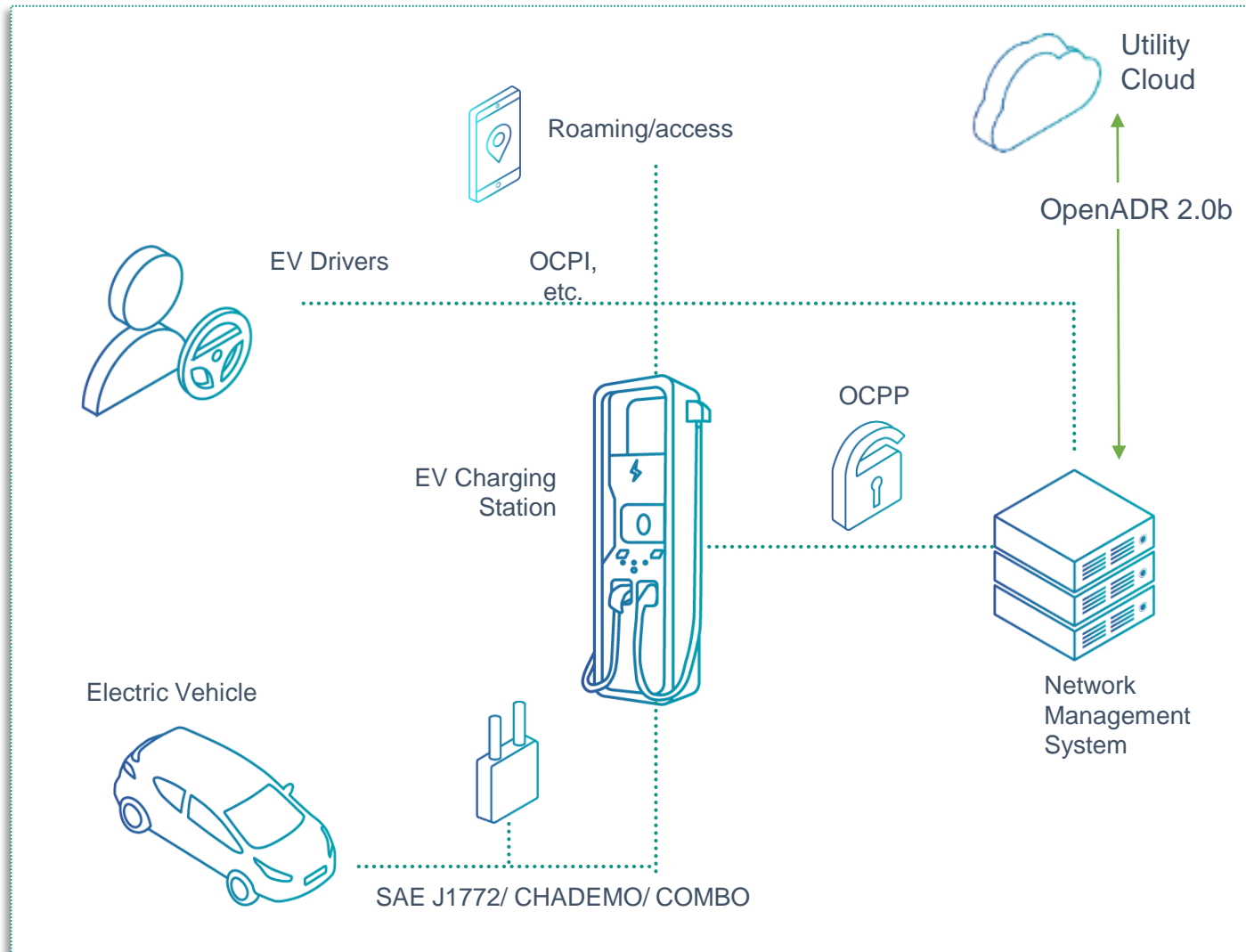
Open Access

- Umbrella of accessibility and usability considerations for drivers to be able to use public charging stations, including: ADA, payment methods, driver roaming or network interoperability, signage, parking configurations, etc.

Interoperability

- The ability to communicate between and switch in and out multiple charging hardware options and software systems or networks, or support multiple vehicle types at a charger

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Open Standards Enable a Smart Charging Ecosystem

OCPP & Open Standards

- Open Charge Point Protocol (OCPP) allows communication between charging stations, a central network system, and helps facilitate communication and data transfer to utilities' IT infrastructure

- With this protocol it is possible to connect any central system with any charging station regardless of the vendor

- OCPP 2.0 introduces new features to improve grid integration, smart charging signals and support for displaying tariffs & costs

- Open standards can facilitate a seamless driver experience, minimize infrastructure investment risks, and allow for the efficient integration of EVs into the electrical grid

Diagram labels: Utility Cloud · Roaming/access · OpenADR 2.0b · EV Drivers · OCPI, etc. · OCPP · EV Charging Station · Network Management System · Electric Vehicle · SAE J1772/ CHADEMO/ COMBO

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