

EV Workshop - V2X: Electric Vehicle Charging, Communication and Infrastructure

Industries view on regulated communication



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ISO Standards Evaluation

- Industry is heavily involved in the standardization of V2X issues.
- Industry believes it is sufficient to respect the existing and upcoming standards.



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Diverse ISO/IEC standards exist for global charging methods, with regional variations in usage.



ISO 15118 (featuring “Plug & Charge”, bidirectional charging, etc.) is being considered for standardization.

- The panorama of charging methods is diverse, with multiple ISO/IEC standards gaining traction worldwide.
- A Country's power grid communication structure influences the implementation of communication standards.
- ISO 15118 is an outstanding example with user-friendly functionalities which is an example for the evolutionary steps made in standardization.



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Infrastructure and Power System - Each nation's electric power system operates under different distinct parameters.



Challenges exist in formulating universal infrastructure requirements.

- The structure of electric power systems in each country is unique.
- Creates challenges in providing unified infrastructure requirements.



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Charging Specifications and Business Model - Emphasis on safe, reliable, and precise charging/discharging. Potential exists for a profitable automotive industry model, especially if V2G is integrated. Collaboration with the electric power sector is suggested.

- Industry clearly needs safe, reliable, and precise charging and discharging.



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- Data-driven insights can take us into the future.
- Access to information critical to our competitiveness is non-negotiable.
- Caution on disclosing user-specific details considering both competitiveness and privacy.



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Industry is focused on standardization for the next 2-3 Years. This will help to bring the technology on the road.



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Conclusion: Industry advocates for a methodical approach towards standardization, emphasizing safety, collaboration, technical refinement, and data integrity.



Thank You