



Position Paper of Charging Interface Initiative e.V.

Support of ISO/IEC 15118

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Coordination Office

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The CharIN e.V. Association is comprised of over 100 of the world's leading manufacturers and service providers within the e-mobility sphere such as electric vehicles ranging from motorcycles to trucks, charging station manufacturers and operators, and testing agencies. Our primary objectives are:

- To develop and establish the Combined Charging System (CCS) as the standard for charging battery-powered electric vehicles of all kinds.
- To generate requirements for the evolution of charging related standards.
- To develop a system for manufacturers to validate the implementation of the Combined Charging System (CCS) into their products.

CharIN is continuing to build on the solid foundation created by the industry and already established solutions based on ISO/IEC 15118 for electric vehicles and charging stations in the field. Over the past several years car and charger manufacturers have collaborated on the development of the ISO/IEC 15118 Standard with the specific goal of enabling worldwide interoperability between charging equipment and EVs while creating a positive user experience. It needs to be underscored that a tremendous effort has been expended to validate the work resulting from this collaboration. This effort started with the eNterop project in 2014. Since that time there have been six expert ISO/IEC 15118 test symposia which took place in different geographic regions around the world. A remarkable list of companies, including more than 90 participants at the last symposium held in Versailles, France on June 22-23, 2017, have contributed to these symposiums.

The CharIN e.V. Association firmly supports ISO/IEC 15118 as the key component of the CCS Standard and as part of the communication solving a wide variety of use cases and addressing diverse regional requirements. ISO/IEC 15118 enables an automated, user friendly charging and billing process, multi-stakeholder interoperability and the economy of scale. Furthermore, other use cases are supported by value added services (VAS) without the need for additional backend communication. The protocol is chosen by the association as the standard for communication between the electric vehicle and the electric vehicle supply equipment and it assures a future-proof communication.

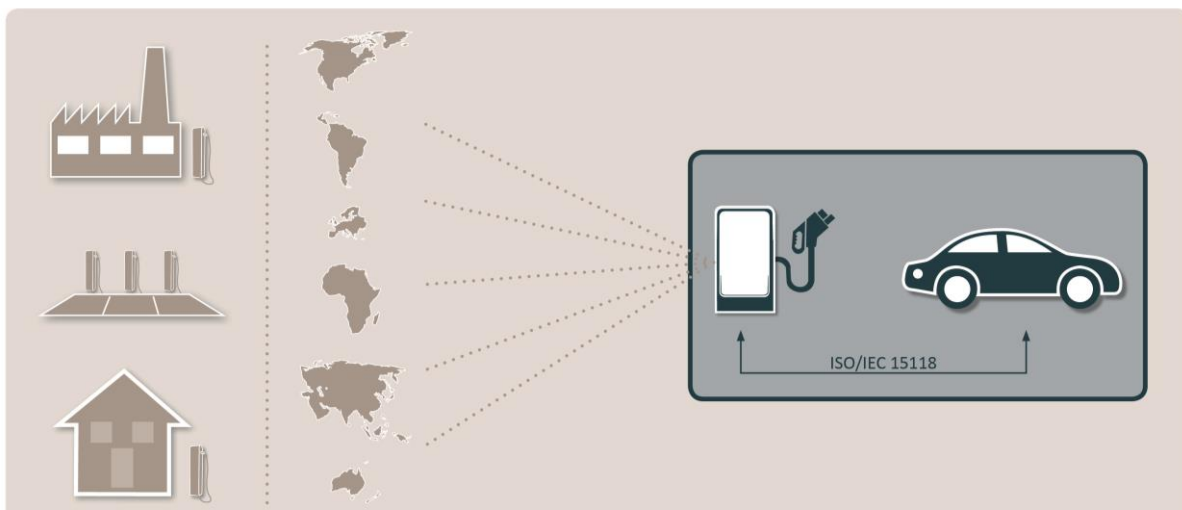


Figure 1 Visualization of the outlined communication between vehicle and charging station



Reference

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