Position Paper of Charging Interface Initiative e.V.

Position of the Charging Interface Initiative e.V. on the Revision of the AFID Directive 2014/94/EU

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“Striving to be the first climate-neutral continent”1, this mission statement is the goal of the European Green Deal, which pursues the long-term establishing of a climate-neutral economy by 2050.

One step to fulfill this aim is the establishment of a well-functioning, high-quality alternative fuels infrastructure. Revising the Directive 2014/94/EU on the deployment of alternative fuels infrastructure, a Directive passed on the 2nd of October 2014 with the aim to minimize the dependence on oil and to promote the decarbonization of the transport sector, is the right step to make this goal possible, especially in the area of electromobility.

We, the Charging Interface Initiative (CharIN) e.V., believe that the availability of a customer-friendly, nationwide and cross-border publicly accessible electric charging infrastructure as well as an easy access to private charging infrastructure are of fundamental importance for the further success of electromobility in Europe. The CharIN e.V. with its international members of the entire value chain draft requirements for the charging interface to ensure interoperability of vehicles and the charging infrastructure. From CharIN perspective, standardized, uniform solutions and goals for the European market are recommended. This refers the Combined Charging System (CCS) based on ISO 15118 communication as well as to the interaction of vehicles in the energy network and in the context of secure data transmission.

Therefore, we would like to highlight the following most important points for the Revision of the AFID Directive:

▪ Establishing legal certainty for the long-term operation of charging infrastructure
▪ Making sure that enough suitable sites for publicly accessible charging stations will become available in a public and transparent manner. Installation of national/European control centers, create atlas of chargers (target vs implementation), synchronize funding.
▪ Support of quality measures for improving the quality of charging by defining common rules for interoperability (e.g. request interoperability certificates for chargers)
▪ Full support of ISO 15118 as the global interoperable communication protocol widely adopted in the industry according to the charging ecosystem in the EU and able to be used also on different media (e.g. powerline, wireless, ethernet) and future innovations and functions.
▪ Use of non-discriminatory standardized communication protocols for Plug & Charge which should be based on ISO 15118. Implementation of a trustworthy European Public Key Infrastructure (PKI) with high data security level.
▪ Creation of a high power charging network for passenger cars and mega charging network for the commercial vehicle sector. Initiate “TEN-T”- funding projects for commercial vehicle (CV) charging infrastructure. Regulation for CCS based CV mega charging technology.

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- Supporting the rollout of high power charging (HPC) with 150kW+ for all main routes within the EU.
- Creation of appropriate rules to enable access of electric vehicles to grid services/energy markets alongside with the incentives/monetization of electric vehicles providing it. This will accelerate and foster V2G (featured by CCS Communication protocol ISO 15118 between EV and EVSE).
- Motivate the network-supporting use of decentralized, mobile storage (flexibility) and realize level playing field to existing players.
- Intelligent and bidirectional charging infrastructure be integrated in private and publicly accessible use cases to also extend the use of renewable energies.
- Define time targets in correspondence with the manufacturers for scalable technical framework conditions such as communication, security and billing standards, from vehicle over infrastructure, grid and energy provider. EVSE and EV manufacturer could synchronize the rollout of their products to align the market needs.

CharIN is open for discussion of further details on addressed topics.