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ISO/DPAS 15118-202

Road vehicles — Vehicle to grid communication interface —

Part 202: Extensible SECC Discovery Protocol and Event Notification Protocol

Véhicules routiers — Interface de communication entre véhicule et réseau électrique —

Partie 202: Protocole de découverte SECC extensible et protocole de notification d'événements

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 31, *Data communication*.

A list of all parts in the ISO 15118 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Road vehicles — Vehicle to grid communication interface —

Part 202:
Extensible SECC Discovery Protocol and Event Notification Protocol

1 Scope

This document specifies the Extensible SECC Discovery Protocol (ESDP) as well as the Event Notification Protocol (ENP) that are intended to be used in conjunction with other protocols as defined in ISO 15118-2 and ISO 15118-20 as well as documents from other organizations such as DIN or SAE (e.g. DIN/TS 70121 or SAE J2847/2).

These protocols can be used in addition to the existing SECC Discovery Protocol defined by the aforementioned documents. They offer additional functionality that makes the digital communication for EV charging more robust and allows to better determine the reason of failures.

In this document, the scope is limited to the already existing communication protocols. Thus, it is only an addition to already existing communication protocols. Basic requirements regarding for example IP communication, or the Vehicle-To-Grid Transport Protocol (V2GTP) are not needed, as they are already specified in the respective document of the used communication protocol.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3779, *Road vehicles — Vehicle identification number (VIN) — Content and structure*

ISO 15118-2, *Road vehicles — Vehicle-to-Grid Communication Interface — Part 2: Network and application protocol requirements*

ISO 15118-20, *Road vehicles — Vehicle to grid communication interface — Part 20: 2nd generation network layer and application layer requirements*

ISO 5474-2, *Electrically propelled road vehicles — Functional and safety requirements for power transfer between vehicle and external electric circuit — Part 2: AC power transfer*

ISO 5474-3, *Electrically propelled road vehicles — Functional and safety requirements for power transfer between vehicle and external electric circuit — Part 3: DC power transfer*

ISO/IEC 8824-1, *Information technology — Abstract Syntax Notation One (ASN.1) — Part 1: Specification of basic notation*,

ISO/IEC 8825-7,
Information technology — ASN.1 encoding rules — Part 7: Specification of Octet Encoding Rules (OER)

IEC 61851-1, *Electric vehicle conductive charging system - Part 1: General requirements*

IEC 61851-23, *Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station*

RFC 4122, *A Universally Unique IDentifier (UUID) URN Namespace*