

INTERNATIONAL STANDARD

**Information exchange for electric vehicle charging roaming service –
Part 1: General**

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**Information exchange for electric vehicle charging roaming service -
Part 1: General****FOREWORD**

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IEC 63119-1 has been prepared by IEC technical committee 69: Electrical power/energy systems for electrically propelled road vehicles and industrial trucks. It is an International Standard.

This second edition cancels and replaces the first edition published in 2019.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the scope is expanded to include differentiation between home and visited service provider roles and adds an explicit definition of roaming entity;
- b) adds definitions for "home charging service provider (home-CSP)", "visited charging station operator (visited-CSO)", and "charging detail record (CDR)", and expands related terms such as "service" and "roaming entity";
- c) introduces abbreviation variants for "home-CSP" and "visited-CSO" in the terminology, aligning with North American and European conventions;

- d) updates the communication protocol stack by adopting a newer TLS version (upgraded from 1.2 to 1.3);
- e) system architecture and communication interfaces include detailed interactions between home-CSP and visited-CSO;
- f) adds a definition for "service" to cover a broader range of applications such as parking and reservation management;
- g) adds a distinction between "charging detail record (CDR)" and "service detail record (SDR)" and clarifies their relationship in the terminology;
- h) enhances the description of user credential transfer methods in communication interfaces with greater diversity;
- i) enhances the description of the mixed mode in the classification of roaming service models, emphasizing improved user experience through faster response times.

The text of this International Standard is based on the following documents:

Draft	Report on voting
69/1050/FDIS	69/1063/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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