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Information exchange for electric vehicle charging roaming service - Part 2: Use cases
(IEC 63119-2:2022)

Informationsaustausch für Roaming-Ladedienste für Elektrofahrzeuge - Teil 2:
Anwendungsfälle (IEC 63119-2:2022)

Échange d'informations pour le service d'itinérance de la recharge des véhicules
électriques - Partie 2: Cas d'utilisation (IEC 63119-2:2022)

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**Information exchange for electric vehicle charging roaming
service - Part 2: Use cases
(IEC 63119-2:2022)**

Échange d'informations pour le service d'itinérance de la
recharge des véhicules électriques - Partie 2: Cas
d'utilisation
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Informationsaustausch für Roaming-Ladedienste für
Elektrofahrzeuge - Teil 2: Anwendungsfälle
(IEC 63119-2:2022)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 63119-2:2022 (E)**European foreword**

The text of document 69/847/FDIS, future edition 1 of IEC 63119-2, prepared by IEC/TC 69 "Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63119-2:2022.

The following dates are fixed:

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61850-7-420 NOTE Harmonized as EN IEC 61850-7-420

IEC 62559-2 NOTE Harmonized as EN 62559-2

ISO15118 (series) NOTE Harmonized as EN ISO 15118 (series)

ISO 15118-2:2014 NOTE Harmonized as EN ISO 15118-2:2016 (not modified)

ISO 15118-20 NOTE Harmonized as EN ISO 15118-20

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

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NORME INTERNATIONALE



Information exchange for electric vehicle charging roaming service –
Part 2: Use cases

Échange d'informations pour le service d'itinérance de la recharge des véhicules
électriques –

Partie 2: Cas d'utilisation

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**INFORMATION EXCHANGE FOR ELECTRIC
VEHICLE CHARGING ROAMING SERVICE –**
Part 2: Use cases**FOREWORD**

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IEC 63119-2 has been prepared by IEC technical committee 69: Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks. It is an International Standard.

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

Draft	Report on voting
69/847/FDIS	69/862/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/standardsdev/publications.

A list of all parts in the IEC 63119 series, published under the general title *Information exchange for electric vehicle charging roaming service*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
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INFORMATION EXCHANGE FOR ELECTRIC VEHICLE CHARGING ROAMING SERVICE –

Part 2: Use cases

1 Scope

This part of IEC 63119 specifies roaming use cases of information exchange between EV charging service providers (CSP), charging station operators (CSOs) and clearing house platforms through roaming endpoints. The elementary use cases defined in this document are designed to support the user to have access to the EV supply equipment which does not belong to the home-CSP.

IEC 63119 (all parts) is applicable to high-level communication involved in information exchange/interaction between different CSPs, as well as between a CSP and CSO with or without clearing house platform through the roaming endpoint.

IEC 63119 (all parts) does not specify the communication either between charging station (CS) and charging station operator (CSO) or between EV and CS.

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.

IEC 63119-1, *Information exchange for electric vehicle charging roaming service – Part 1: General*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63119-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 service

series of processes that the service provider provides to the EV user, including energy transfer service, reservation service, parking service, etc.

3.2 energy transfer service charging service

complete energy transfer process that the service provider provides to the EV user, including authentication, charging, billing, and settlement, for the time being

3.3**EV user ID**

unique electronic identifier used to distinguish different EV users, which probably can be a contract information NO/RFID id/UID

3.4**roaming endpoint ID**

REP ID

unique electronic identifier used to distinguish different CSP, CSO or clearing house

3.5**EV supply equipment ID**

unique electronic identifier used to distinguish different EV supply equipment

3.6**transaction ID**

unique electronic identifier used to label each service transaction

3.7**energy transfer session ID**

unique electronic identifier used to label each energy transfer session

3.8**business actor**

stakeholder related to EV roaming energy transfer services, including operators, automobile manufacturers, charging facilities, EV and charging users

3.9**service provider**

entity which provides EV service to users, such as charging service provider (CSP) and charging station operators (CSO)

3.10**EV charging system platform provider**

dedicated service party that provides the energy transfer service platform for the CSP/CSO

3.11**home charging service provider**

home-CSP

home e-mobility service provider

home-EMSP

entity which has a contract with the EV user and can authorize an energy transfer session to another CSP/CSO

3.12**visited charging station operator**

visited-CSO

CSO that the EV user visits for getting energy transfer service, which is not the EV user's home-CSP

3.13**system actor**

actor who uses and interacts with the system

3.14**system platform**

combination of hardware, software, and data that provides software services