

Interoperability for electro-Mobility (eMobility)

SIS47 - Seamless provision of eMobility services
as a prerequisite for
deployment of eMobility

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 coordinator

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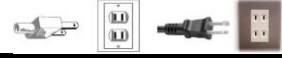














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Why interoperability of electro-Mobility (eMobility)?

- Interoperability vs standard

Value	Specifications / Description
DOMESTIC-A	Standard/Domestic household, type "A" 
DOMESTIC-B	Standard/Domestic household, type "B" 
DOMESTIC-C	Standard/Domestic household, type "C" 
DOMESTIC-D	Standard/Domestic household, type "D" 
DOMESTIC-E	Standard/Domestic household, type "E" 
DOMESTIC-F	Standard/Domestic household, type "F" 
DOMESTIC-E-F	Standard/Domestic household, type "E+F"
DOMESTIC-G	Standard/Domestic household, type "G" 
DOMESTIC-H	Standard/Domestic household, type "H" 
DOMESTIC-I	Standard/Domestic household, type "I" 
DOMESTIC-J	Standard/Domestic household, type "J" 
DOMESTIC-K	Standard/Domestic household, type "K" 
DOMESTIC-L	Standard/Domestic household, type "L" 
DOMESTIC-M	Standard/Domestic household, type "M" 

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- Interoperability definition

Interoperability is a characteristic of a product or system, whose interfaces are completely understood, to work with other products or systems, present or future, in either implementation or access, without any restrictions.



eMobility ICT Interoperability Innovation as the Association for interoperability in Europe and world-wide

- eMI³ represents different industries and different countries which are active in the e-mobility ecosystem.
- Evolved in 2012 mainly from the Green eMotion project and therefore has a strong foundation within the EU commission .
- eMI³ is a non-profit organization under Belgium law (AISBL) coordinated by ERTICO.
- The organization is consensus based

An open and cross industry organization is best suited to drive ICT standardization



- Enable global Electric Vehicles(EV) services interoperability by harmonizing existing ICT data and protocols, and proposing new ones where none are yet defined.
- Strive to rapidly grow a large market by supporting all required business processes to ease and speed-up the introduction of new services.
- Liaise and coordinate with other EV organizations and initiatives to maximize interoperability and minimize effort.

membership (34)

Full (17)



Associated (10)



Supporter (7)



- 06/2015: Position paper on EV interoperability sent to EC-DG-Move
- 11/2015: eMI³Standard v1.0 released (use cases & business objects)
- 10/2016: Kick-off NeMo project (submitted 10/2015)
- 2016-17: Strategic participation and contribution to the



Sustainable Transport Forum: Sub-Group to "foster the creation of an Electromobility Market of Services" (STF-SGEMS):

- define interoperability and formulate minimum requirements for EU charging points;
- recommend common European standards and procedures beyond the Directive 2014/94/EU, to help the deployment of eMobility services;
- propose guidance to develop a European framework for an eMobility market of services.

STF-SGEMS results: Deliverables

- D1.1: Collect information on different interoperability systems, barriers & initiatives
- D1.2: Recommendations for the implementation of art 7.7 of the AF Directive
- D2.1: Requirements for interoperability of e-mobility services
- D2.2: MoU fostering seamless and valuable EV customer experience in Europe
- D3.1: Guideline for a harmonized ID registration process in Europe

- Final report

STF-SGEMS: Agreement between stakeholders (MoU)

MoU fostering seamless and valuable EV customer experience in Europe

Agreement between stakeholders (mainly industry):

- Electric Vehicle Manufacturers
- Electric Utilities (Energy Retailers and Distribution System Operators)
- Charging Point Operators (CPO)
- Technology Suppliers (e.g. charging stations, hardware, software)
- ElectroMobility Service Providers (EMSP)
- Roaming Service Providers (RSP)
- Industrial Representative Associations
- User associations

STF-SGEMS: Agreement between stakeholders (MoU)

MoU rationale defining eMobility interoperability, charging access and services

MoU propose agreement on Key principles :

- Charging infrastructure seamlessly accessible for all consumers (ad-hoc & contract based)
- Transparent information for consumers on charging infrastructure (location, ...) & payment
- Real-time connectivity for all eMobility infrastructure (Charging stations, IT platforms,...)
- ...

STF-SGEMS: Agreement between stakeholders (MoU)

MoU propose agreement on technical guidelines with recommendations:

- Talking a common language by adopting shared data model
- Setting common rules for identifying business objects
- Adopt common rules for authorization and billing information
- Target real-time information exchange
- Promote the definition of common interface to Energy Network
- Adopt international standards and support their future definition

STF-SGEMS: Agreement between stakeholders (MoU)

Implementation of the MoU:

- Signature to be initiated @EVS30 on 11 October 2017
- promotion & monitoring of the signature process to be organise
- Public Authorities support => signature of a Letter supporting the MoU

Administration of the MoU: e.g. with a support action or a mandate from the EC to:

- widely promote the MoU in Europe
- inform interested organisation and Public Authorities about the MoU
- collect and store MoU signatures, updating the MoU signature document
- collect and store Letter of support signatures from Public Authorities
- create and manage the dedicated website to this MoU.

Next steps:

- Setup of ID-issuing (operating) at European level
- MoU signature process / monitoring
- Disseminate results
- Link with the ITS directive to be further addressed
- STF-SGEMS (phase II)

Thank you

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