

Introduction

This document describes the agreed ID format for Service Providers and Charge Point Operators for contracts and charge stations.

This document covers first 5 digits from E-mobility ID and EU wide format for remaining digits of E-mobility ID's from the IDACS project.

Why do we need unique identifiers?

Unique identifiers are needed for electromobility operators (CPOs) or electromobility service organizations to more accurately identify charging points and electromobility users for international billing and data exchange, and to provide users with easier and barrier-free access to charging points across Europe.

During the IDACS project, the 15 participating Member States will develop a common structure and methodology, which will later be introduced at directive level across Europe. Building on this structure, it will become significantly simpler and more efficient to share static and dynamic data from charging points.

IMPORTANT: Market services based on this, such as specific electromobility services or clearing and roaming, are not part of the IDACS project or IDRO's activities.

Two ID Types

To identify contracts from EV drivers and charge points that can be used by EV drivers, it is needed to recognise the owner of contracts and operator of charge points, as described in chapter Reason for ID's.

For this purposes two type of IDs are created:

1. ID for EV driver contract (EMA-ID – E-mobility Account Identifier)

- This comparable with IBAN code from a bank card
- Currently* consist of:
 - Country ID
 - Service Provider ID
 - Contract ID (one contract can contain several individual tokens/cards)

2. Electric Vehicle Supply Equipment ID (EVSE-ID – Electric Vehicle Supply Equipment ID)

- To identify a charge station
- Currently* consists of:
 - Country ID
 - Operator ID
 - Charge point ID or EVSE ID (one station can have several charge points)

(* = current used format in several countries and by several organisations in Europe: Format / Syntax based on ISO 15118 & eMI3 standard)

Format accepted/developed in the frame of the IDACS project

ID code

Since several years there is an ID syntax format which is agreed by important organisations in 4 countries, used in approximately 10 countries and approximately used by 1200 organisations (CPO & MSP) in Europe.

These 4 countries and organisations are:

- The Netherlands, with organisation eViolin
- France, with organisations Afirev and Gireve
- Germany, with organisation BDEW
- Austria, with organisation Austrian Mobile Power.

ISO and international organisation eMI3 agreed with this format. eMI3 specified and clarified some characters of the ISO 15118-2:2014 code.

The following overview describes the existing format.

EMPs – E-mobility Providers

Part 1	IDRO – ID Registration Office			
<i>Description</i>	Country	Seperator	E-mobility Provider	Seperator
<i>Example</i>	HU	"_"	ABC	"_"
<i>Explanation</i>	2 characters (alphanumeric) [ISO 3166-1 alpha-2]	optional	3 characters (alphanumeric) [A-Z;0-9]	optional

Part 2	EMPs - E-mobility Providers			
<i>Description</i>	Type	Contract ID instance	Seperator	Check digit
<i>Example</i>	HU	12A23GHI	"_"	3
<i>Explanation</i>	2 characters (alphanumeric) [ISO 3166-1 alpha-2]	8 characters (alphanumeric) [A-Z;a-z;0-9]	optional	Optional calculated check digit [0-9]

CPOs - Charging Point Operators

Part 1	IDRO – ID Registration Office			
<i>Description</i>	Country	Seperator	CPO or LOC	Seperator
<i>Example</i>	HU	"*"	ABC	"_"
<i>Explanation</i>	2 characters (alphanumeric) [ISO 3166-1 alpha-2]	optional	3 characters (alphanumeric) [A-Z;0-9]	optional

Part 2	CPO – Charging Point Operator	
<i>Description</i>	Type	Charge point operator / unit
<i>Example</i>	E	12A23GHI
<i>Explanation</i>	1 character type identifier E for EVSE or P for Pool (alphanumeric) [A-Z]	Up to 30 characters (alphanumeric) [A-Z;a-z;0-9]

This format is also used by the Sustainable Transport Forum (STF - Sustainable Transport Forum), Sub-group on electromobility services (SGEMS - Sub-group on electromobility services).

Figure 1 below shows how the two types are currently used in practice:

Figure 1 illustrates the use of contract and charge point IDs in practice. It shows three examples:

- GreenFlux Card:** A card with the contract ID **NL-GFX-123456-1** highlighted in a red dashed box. A label points to this ID with the text "Contract ID (EMA-ID)".
- Physical Tag:** A white tag with the contract ID **NL-EVB-123456-1** highlighted in a red dashed box. A label points to this ID with the text "Contract ID (EMA-ID)".
- EVBOX Receipt:** A receipt titled "Laadpas transacties openbaar netwerk". A table shows transaction details. The first row is highlighted with a red dashed box and labeled "Charge point ID (EVSE-ID)".

Referentie	kWh	Datum	Duur	Bedrag
Laadpas/ NL-EVB-010071-0 NLLMSE112023*2 EVB-P1026430_1	5,31	09-12-2018	00:21:07	€ 1,45
Voortgang laden Konijnenberg 33, Breda	24,76	17-12-2018	04:00:25	€ 7,53
Eerste van Surinderstraat 1, Amsterdam	30,07			€ 8,98
Subtotaal				€ 8,98

Totaal / aantal transacties openbaar netwerk: 30,07 kWh, aantal: 2, € 8,98