

ISO 15118-1:2013-04 (E)

Road vehicles - Vehicle to grid communication interface - Part 1: General information and use-case definition

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	9
5	Requirements	10
5.1	Communication concept	10
5.2	General considerations	11
5.3	User-specific requirements	11
5.4	OEM-specific requirements	12
5.5	Utility-specific requirements	13
6	Actors	14
6.1	General	14
7	Use Case Elements	15
7.1	General	15
7.2	Start of charging process [A]	17
7.3	Communication set-up [B]	20
7.4	Certificate handling [C]	20
7.5	Identification and Authorization [D]	23
7.6	Target setting and charging scheduling [E]	29
7.7	Charging controlling and re-scheduling [F]	36
7.8	Value Added Services [G]	42
7.9	End of charging process [H]	43
	Annex A (informative) Charging infrastructure architecture	45
	Annex B (informative) Security	55
	Annex C (informative) Examples of charging scenarios derived from the use case elements	60
	Bibliography	65