

DIN EN 16072:2015-08 (E)

Intelligent transport systems - ESafety - Pan-European eCall operating requirements

Contents		Page
Foreword		4
Introduction		5
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	Symbols and abbreviations	12
5	Conformance	13
6	High level functional requirements	13
6.1	General high level functional requirements	13
6.1.1	General	13
6.1.2	Linguistic aspects	13
6.1.3	High level In-vehicle system requirements	13
6.1.4	eCall architecture	13
6.1.5	eCall operation sequence	14
6.2	eCall service chain	15
6.2.1	General	15
6.2.2	Actors in eCall service provision	15
6.2.3	Privacy aspects	15
6.2.4	Use of location and heading at PSAP	15
7	Operational requirements	16
7.1	General	16
7.2	Liability	16
7.3	Routing of an eCall	17
7.3.1	General	17
7.3.2	eCall 'flag'	17
7.3.3	eCall routing to PSAP	18
7.4	Prioritisation of an eCall	18
7.5	Post crash performance of in-vehicle equipment	18
7.6	Location and direction	18
7.6.1	Location data	18
7.6.2	Data concerning direction and location	19
7.6.3	Optional data regarding location and direction	19
7.7	Minimum Set of Data (MSD)	20
7.7.1	Data within the MSD	20
7.7.2	Optional additional data	20
7.8	Modes of operation for automatic triggered eCall	21
7.9	In-vehicle 'Human Machine Interface' (HMI) aspects	21
7.9.1	General	21
7.9.2	HMI aspects in the case of automatic triggering	21
7.9.3	HMI aspects in the case of a manual triggering	21
7.9.4	Alerting of initiated eCall (automatically or manually triggered)	21
7.10	Triggering	22
7.10.1	Automatic eCall triggering strategy	22
7.10.2	Manual eCall triggering strategy	22

7.10.3	Manual termination of eCall by vehicle occupants before trigger confirmation	22
7.11	Termination of an in progress eCall	22
7.12	Requirements to physical layer	23
7.12.1	Transport protocol	23
7.12.2	Performance requirements- time required to transmit data	23
7.12.3	End-to-end performance criteria	23
7.12.4	Performance criteria - Wireless network	24
7.12.5	Performance criteria - PSAP	24
7.13	Establish voice channel	24
7.13.1	General	24
7.13.2	Service area issues	24
7.13.3	Roaming requirements for service	24
7.14	Acknowledgement of eCall	24
7.15	Continuing availability	25
7.16	PSAP response	25
7.17	eCall termination	25
7.17.1	General	25
7.17.2	IVS redial	25
7.17.3	PSAP call-back	25
7.17.4	Record transaction	26
8	Defences against attack	26
8.1	Call line security	26
8.2	Hoax calls	26
8.3	False generation of eCalls	26
8.4	End of life management	27
8.5	Denial of service attack	27
8.6	Malicious attack on PSAP	27
9	Different requirements for HGVs	27
10	Different requirements for 2 wheel vehicles	27
11	Test and conformance requirements	28
11.1	General	28
11.2	eCall conformance	28
11.3	In-vehicle equipment conformance	28
11.4	Network conformance	28
11.5	PSAP conformance	29
11.6	Interoperability conformance	29
12	Marking, labelling and packaging	29
	Bibliography	30