

# DIN EN 18052:2025-12 (E)

Intelligent transport systems - ESafety - ECall end to end conformance testing for eCall HLAP in hybrid circuit switched/packet switched network environments;  
English version EN 18052:2025

---

## Contents

	Page
European foreword .....	5
Introduction.....	6
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions.....	9
4 Abbreviations.....	12
5 Conformance.....	14
5.1 General.....	14
5.2 General conditions .....	14
6 General overview of the eCall transaction for pan-European eCall.....	14
6.1 General principle .....	14
7 How to use this Standard .....	18
7.1 Layout and procedures .....	18
7.2 System under test .....	19
8 Requirements.....	20
8.1 General objectives .....	20
8.1.1 State transitions .....	20
8.1.2 Classification of testing.....	26
8.1.3 CTP naming conventions.....	28
8.1.4 CTP <stage> naming convention for conformance tests.....	28
8.2 CTP structure.....	29
8.3 eCall timers .....	30
8.4 CTP Test Applicability.....	30
9 Conformance tests for in-vehicle systems (IVS) .....	31
9.1 Taxonomy of testing .....	31
9.2 Conformance tests for eCall In-Vehicle Systems (IVS) to demonstrate compliance with EN 17905.....	31
9.2.1 General.....	31
9.2.2 CTP 1.1.1.1 Self-test and fault indication IVS.....	33
9.2.3 CTP 1.1.2.1 Domain selection skipped and IVS remains registered in CS domain - IVS .....	35
9.2.4 CTP 1.1.2.2 Domain selection skipped and IVS remains registered in PS domain - IVS .....	37
9.2.5 CTP 1.1.2.3 Domain selection performed and eCall initiated in CS domain - IVS.....	38
9.2.6 CTP 1.1.2.4 Domain selection performed and eCall initiated in PS domain - IVS.....	40
9.2.7 CTP 1.1.2.5 Domain selection performed and eCall initiated in PS domain in different RAT - IVS.....	42
9.2.8 CTP 1.1.6.1 eCall successful in CS domain - IVS.....	44
9.2.9 CTP 1.1.6.2 eCall successful in CS domain in limited service state - IVS .....	45
9.2.10 CTP 1.1.6.3 eCall successful in PS domain - IVS.....	46
9.2.11 CTP 1.1.10.1 Domain change and fallback to IMS emergency call in PS domain after network registration and eCall failed and after unsuccessful re-attempt in CS domain - IVS .....	47

9.2.12	CTP 1.1.10.2 Domain change and fallback to IMS emergency call in PS domain after eCall failed and after unsuccessful re-attempt in CS domain - IVS.....	49
9.2.13	CTP 1.1.10.3 Fallback to IMS emergency call in PS domain after missing AL-ACK for initial MSD - IVS .....	51
9.2.14	CTP 1.1.10.4 Domain change and fallback to IMS emergency call in PS domain after eCall is dropped before the MSD is acknowledged and after unsuccessful re-attempt in CS domain - IVS .....	53
9.2.15	CTP 1.1.10.5 Fallback to emergency call in CS domain - IVS .....	55
9.2.16	CTP 1.1.10.6 Domain change to PS domain after network registration and eCall failed in CS domain - IVS .....	57
9.2.17	CTP 1.1.10.7 Domain change to PS domain after eCall failed in CS domain - IVS .....	59
9.2.18	CTP 1.1.10.8 Domain change to CS domain after eCall failed in PS domain - IVS .....	61
9.2.19	CTP 1.1.10.9 Domain change to CS domain after eCall failed and after unsuccessful re-attempt in PS domain - IVS.....	63
9.2.20	CTP 1.1.10.10 Domain change and fallback to eCall (emergency call) in CS domain after eCall failed in PS domain - IVS .....	65
9.2.21	CTP 1.1.10.11 Domain change and fallback to eCall (emergency call) in CS domain after eCall failed and after unsuccessful re-attempt in PS domain - IVS.....	67
9.2.22	CTP 1.1.10.12 Domain change to PS domain after eCall is dropped before the MSD is acknowledged and after unsuccessful re-attempt in CS domain - IVS.....	69
9.2.23	CTP 1.1.10.13 Domain change to PS domain and MSD transfer using in-band modem after eCall is dropped before the MSD is acknowledged and after unsuccessful re-attempt in CS domain - IVS .....	71
9.2.24	CTP 1.1.10.14 Domain change to CS domain after eCall is rejected and MSD acknowledged in PS domain - IVS.....	73
9.2.25	CTP 1.1.10.15 No Call reattempt or domain change to CS domain after eCall is rejected and MSD acknowledged in PS domain - IVS .....	75
9.2.26	CTP 1.1.10.16 Domain change to CS domain after eCall is rejected and negative AL-ACK and unsuccessful re-attempt in PS domain - IVS.....	77
9.2.27	CTP 1.1.10.17 Domain change to CS domain after eCall is rejected and negative AL-ACK in PS domain - IVS.....	79
9.2.28	CTP 1.1.10.18 Domain change to CS domain after eCall is rejected and missing AL-ACK and unsuccessful re-attempt in PS domain - IVS .....	81
9.2.29	CTP 1.1.10.19 Domain change to CS domain after eCall is rejected and missing AL-ACK in PS domain - IVS.....	83
9.2.30	CTP 1.1.10.20 Domain change to CS domain after eCall is not answered and unsuccessful re-attempt in PS domain - IVS.....	85
9.2.31	CTP 1.1.10.21 Domain change to CS domain after eCall is not answered in PS domain - IVS .....	87
9.2.32	CTP 1.1.10.22 Domain change to CS domain after eCall is dropped before the MSD is acknowledged and after unsuccessful re-attempt in PS domain - IVS .....	89
9.2.33	CTP 1.1.10.23 Domain change to CS domain after eCall is dropped before the MSD is acknowledged in PS domain - IVS .....	91
9.2.34	CTP 1.1.15.1 New/updated MSD after in-call domain handover - IVS .....	93
9.2.35	CTP 1.1.17.1 Call-back allowed after domain change to CS domain - IVS.....	95
9.2.36	CTP 1.1.17.2 Call-back allowed after domain change to PS domain - IVS.....	97
9.2.37	CTP 1.1.17.3 Remain registered for $\geq 1$ hr after in-call domain handover - IVS.....	99
9.2.38	CTP 1.1.17.4 Remain registered for $\geq 1$ hr after domain change to CS domain - IVS .....	101
9.2.39	CTP 1.1.17.5 Remain registered for $\geq 1$ hr after domain change to PS domain - IVS .....	103
9.2.40	CTP 1.1.18.1 MSD transfer using in-band modem in PS domain after negative AL-ACK for initial MSD - IVS .....	105

9.2.41	CTP 1.1.18.2 MSD transfer using in-band modem in PS domain after missing AL-ACK for initial MSD - IVS.....	107
9.3	Additional conformance tests for eCall-only in-vehicle systems to demonstrate compliance with EN 17905 .....	109
9.3.1	General.....	109
9.3.2	CTP 1.2.6.1 eCall successful in PS domain in limited service state - eCall-only IVS .....	110
9.3.3	CTP 1.2.10.1 Domain change to CS domain after eCall is rejected and MSD acknowledged in limited service state in PS domain - eCall-only IVS.....	112
9.3.4	CTP 1.2.10.2 Domain change to CS domain after network registration and eCall failed in PS domain - eCall-only IVS .....	114
9.3.5	CTP 1.2.10.3 Domain change to CS domain after network registration and eCall failed and after unsuccessful re-attempt in PS domain - eCall-only IVS.....	116
9.3.6	CTP 1.2.17.1 Remain registered for $\geq 1$ hr $\leq 12$ hr after in-call domain handover - eCall-only IVS.....	118
10	Conformance tests for Mobile Network Operator (MNO) systems .....	120
10.1	Taxonomy of testing .....	120
10.2	Conformance tests for MNOs to demonstrate compliance with EN 17905 .....	120
10.2.1	General.....	120
10.2.2	CTP 2.1.3.1 New/updated MSD after in-call domain handover - MNO.....	122
10.2.3	CTP 2.1.3.2 New/updated MSD after in-call domain handover - Roaming - MNO ....	124
10.2.4	CTP 2.1.5.1 Call-back after in-call domain handover - MNO.....	126
10.2.5	CTP 2.1.5.2 Call-back after in-call domain handover - Roaming - MNO .....	128
10.2.6	CTP 2.1.5.3 Call-back after domain change to CS domain - MNO .....	130
10.2.7	CTP 2.1.5.4 Call-back after domain change to PS domain - MNO .....	131
11	Conformance tests for Public Safety Answering Point (PSAP) systems .....	132
11.1	Taxonomy of testing .....	132
11.2	Conformance tests for PSAPs to demonstrate compliance with EN 17905.....	132
11.2.1	General.....	132
11.2.2	CTP 3.1.10.1 Logging of MSD transfer type of eCall in CS domain - PSAP .....	134
11.2.3	CTP 3.1.10.2 Logging of MSD transfer type of eCall in PS domain - PSAP .....	135
11.2.4	CTP 3.1.10.3 Logging of MSD transfer type (in-band modem) of eCall in PS domain - PSAP .....	136
11.2.5	CTP 3.1.13.1 Request new MSD after in-call domain handover before call clear-down - PSAP .....	138
11.2.6	CTP 3.1.15.1 Call-back to vehicle after in-call domain handover - PSAP .....	140
11.2.7	CTP 3.1.15.2 Call-back to vehicle after domain change to CS domain - PSAP.....	141
11.2.8	CTP 3.1.15.3 Call-back to vehicle after domain change to PS domain - PSAP .....	142
11.2.9	CTP 3.1.16.1 Request new MSD failed after call clear-down and domain change to CS domain - PSAP .....	143
11.2.10	CTP 3.1.16.2 Request new MSD failed after call clear-down and domain change to PS domain - PSAP .....	145
11.2.11	CTP 3.1.16.3 Request new MSD after call clear-down and domain change to CS domain - PSAP .....	147
11.2.12	CTP 3.1.16.4 Request new MSD after call clear-down and domain change to PS domain - PSAP .....	149
12	Marking, labelling and packaging.....	151
13	Declaration of patents and intellectual property.....	151
	Bibliography .....	152