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Contents

Intell	ectual Property Rights	2
Forev	word	2
Moda	al verbs terminology	2
Forev	word	18
Intro	duction	18
1	Scope	19
2	References	19
3	Definitions, symbols, abbreviations and coding	2.1
3.1	Definitions	
3.2	Symbols	
3.3	Abbreviations	
3.4	Coding Conventions	
3.5	Generic procedures for E-UTRAN/UTRAN/GERAN/IMS	
3.6	Applicability	
3.6.1	Applicability of the present document	
3.6.2	Applicability to terminal equipment	
3.6.3	Applicability of the individual tests	
	11 *	
3.7	Table of optional features	
3.8	Applicability table	
4	Default Values	42
4.1	Definition of default values for USIM-Terminal interface testing (Default UICC)	42
4.1.1	Values of the EF's (Default UICC)	
4.1.1.		
4.1.1.		
4.1.1.		
4.1.1.	2001	
4.1.1.		
4.1.1.	·	
4.1.1.		
4.1.1.		
4.1.1.	***	
4.1.1.		
4.1.1.		
4.1.1. 4.1.1.		
4.1.1. 4.1.1.		
4.1.1.		
4.1.1. 4.1.1.		
4.1.1.		
4.2	Definition of FDN UICC	
4.2.1	Values of the EF's (FDN UICC)	
4.2.1.	CDI V	
4.2.1.	201 (
4.2.1.	TBIT (
4.2.1.	200 (6)	
4.2.1.		
4.3	Void	
4.4	Definition of F-UTRAN/EPC UICC	48

4.4.1	EF _{UST} (USIM Service Table)	
4.4.2	EF _{EPSLOCI} (EPS Information)	
4.4.3	EF _{PLMNwACT} (User Controlled PLMN Selector with Access Technology)	
4.4.4	EF _{OPLMNwACT} (Operator Controlled PLMN Selector with Access Technology)	
4.4.5	EF _{ACSGL} (Allowed CSG Lists)	
4.4.6	EF _{CSGT} (CSG Type)	
4.4.7	EF _{HNBN} (Home (e)NodeB Name)	
4.4.8	EF _{EPSNSC} (EPS NAS Security Context)	
4.5	Definition of E-UTRAN/EPC ISIM-UICC	
4.5.1	Applications on the E-UTRAN/EPC ISIM-UICC	
4.5.2	Default USIM values on E-UTRAN/EPC ISIM-UICC	
4.5.3	Default ISIM values on E-UTRAN/EPC ISIM-UICC	
4.5.3.1	EF _{AD} (Administrative Data)	
4.5.3.2	EF _{IST} (ISIM Service Table)	
4.5.3.3	EF _{IMPI} (IMS private user identity)	
4.5.3.4	EF _{DOMAIN} (Home Network Domain Name)	
4.5.3.5	EF _{IMPU} (IMS public user identity)	
4.5.3.6	EF _{P-CSCF} (P-CSCF ADDRESS)	
4.5.3.7	EF _{SMS} (Short Message Service)	
4.5.3.8	EF _{SMSR} (Short message status reports)	
4.5.3.9	EF _{SMSP} (Short message service parameters)	
4.5.3.10	EF _{SMSS} (SMS Status)	
4.5.4	Default values at DF_TELECOM	
4.5.4.1	EF _{PSISMSC} (Public Service Identity of the SM-SC)	
4.6	Definition of ACSGL/OCSGL E-UTRAN/EPC UICC	
4.6.1	EF _{UST} (USIM Service Table)	
4.6.2	EF _{AD} (Administrative Data)	
4.6.3	EF _{OCSGL} (Operator CSG Lists)	
4.6.4	EF _{OCSGT} (Operator CSG Type)	
4.6.5	EF _{OHNBN} (Operator Home (e)NodeB Name)	61
5 S	ubscription related tests	63
5 S 5.1	IMSI / TMSI handling	
5.1.1	UE identification by short IMSI	
5.1.1	Definition and applicability	
5.1.1.2	Conformance requirement.	
5.1.1.3	Test purpose	
5.1.1.4	Method of test	
5.1.1.4.1	Initial conditions	
5.1.1.4.2		
5.1.1.5	Acceptance criteria	
5.1.2	UE identification by short IMSI using a 2 digit MNC	
5.1.2.1	Definition and applicability	
5.1.2.2	Conformance requirement.	
5.1.2.3	Test purpose	
5.1.2.4	Method of test	
5.1.2.4.1	Initial conditions	
5.1.2.4.2		
5.1.2.5	Acceptance criteria	
5.1.2.3	UE identification by "short" TMSI	
5.1.3.1	Definition and applicability	
5.1.3.2	Conformance requirement.	
5.1.3.3	Test purpose	
5.1.3.4	Method of test	
5.1.3.4.1	Initial conditions	
5.1.3.4.2		
5.1.3.5	Acceptance criteria.	
5.1.4	UE identification by "long" TMSI	
5.1.4.1	Definition and applicability	
5.1.4.2	Conformance requirement.	
5.1.4.3	Test purpose	
5.1.4.4	Method of test	

5.1.4.4.1	Initial conditions	
5.1.4.4.2	Procedure	68
5.1.4.5	Acceptance criteria	
5.1.5	UE identification by long IMSI, TMSI updating and key set identifier assignment	68
5.1.5.1	Definition and applicability	68
5.1.5.2	Conformance requirement	69
5.1.5.3	Test purpose	69
5.1.5.4	Method of test	69
5.1.5.4.1	Initial conditions	69
5.1.5.4.2	Procedure	70
5.1.5.5	Acceptance criteria	71
5.1.6	UE identification by short IMSI when accessing E-UTRAN/EPC	
5.1.6.1	Definition and applicability	
5.1.6.2	Conformance requirement	
5.1.6.3	Test purpose	
5.1.6.4	Method of test	
5.1.6.4.1	Initial conditions	
5.1.6.4.2	Procedure	
5.1.6.5	Acceptance criteria	
5.1.7	UE identification by short IMSI using a 2 digit MNC when accessing E-UTRAN/EPC	
5.1.7.1	Definition and applicability	
5.1.7.1	Conformance requirement	
5.1.7.2		
5.1.7.3 5.1.7.4	Test purpose	
0.11,	Method of test	
5.1.7.4.1	Initial conditions	
5.1.7.4.2	Procedure	
5.1.7.5	Acceptance criteria	
5.1.8	UE identification after changed IMSI with service "EMM Information" not available	
5.1.8.2	Conformance requirement	
5.1.8.3	Test purpose	
5.1.8.4	Method of test	
5.1.8.4.1	Initial conditions	
5.1.8.4.2	Procedure	
5.1.8.5	Acceptance criteria	
5.1.9	UE identification by GUTI when using USIM with service "EMM Information" not available	75
5.1.9.2	Conformance requirement	75
5.1.9.3	Test purpose	76
5.1.9.4	Method of test	76
5.1.9.4.1	Initial conditions	76
5.1.9.4.2	Procedure	76
5.1.9.5	Acceptance criteria	76
5.1.10	UE identification by GUTI when using USIM with service "EMM Information" available	7 6
5.1.10.1	Definition and applicability	
5.1.10.2	Conformance requirement	
5.1.10.3	Test purpose	
5.1.10.4	Method of test	
5.1.10.4.1	Initial conditions	
5.1.10.4.2		
5.1.10.4.2	Acceptance criteria	
5.1.10.5	Access Control handling	
5.2.1	Access Control information handling	
5.2.1.1	· · · · · · · · · · · · · · · · · · ·	
5.2.1.1	Definition and applicability	
	Conformance requirement	
5.2.1.3	Test purpose	
5.2.1.4	Method of test	
5.2.1.4.1	Initial conditions	
5.2.1.4.2	Coding details	
5.2.1.4.3	Procedure	
5.2.1.5	Acceptance criteria	
5.2.2	Access Control information handling for E-UTRAN/EPC	
5.2.2.1	Definition and applicability	
5.2.2.2	Conformance requirement	92

5.2.2.3	Test purpose	92
5.2.2.4	Method of test	92
5.2.2.4.1	Initial conditions	92
5.2.2.4.2	Coding details	93
5.2.2.4.3	Procedure	
5.2.2.5	Acceptance criteria	
	•	
6 Se	ecurity related Tests	105
6.1	PIN handling	105
6.1.1	Entry of PIN	105
6.1.1.1	Definition and applicability	105
6.1.1.2	Conformance requirement	105
6.1.1.3	Test purpose	105
6.1.1.4	Method of test	105
6.1.1.4.1	Initial conditions	105
6.1.1.4.2	Procedure	105
6.1.1.5	Acceptance criteria	
6.1.2	Change of PIN	
6.1.2.1	Definition and applicability	
6.1.2.2	Conformance requirement	
6.1.2.3	Test purpose	
6.1.2.4	Method of test	
6.1.2.4.1	Initial conditions	
6.1.2.4.2	Procedure	
6.1.2.5	Acceptance criteria	
6.1.3	Unblock PIN	
6.1.3.1	Definition and applicability	
6.1.3.2	Conformance requirement	
6.1.3.3	Test purpose	
6.1.3.4	Method of test	
6.1.3.4.1	Initial conditions	
6.1.3.4.2		
6.1.3.4.2		
	Acceptance criteria	
6.1.4 6.1.4.1	Entry of PIN2	
	Definition and applicability	
6.1.4.2	Conformance requirement	
6.1.4.3	Test purpose	
6.1.4.4	Method of test	
6.1.4.4.1	Initial conditions	
6.1.4.4.2	Procedure	
6.1.4.5	Acceptance criteria	
6.1.5	Change of PIN2	
6.1.5.1	Definition and applicability	
6.1.5.2	Conformance requirement	
6.1.5.3	Test purpose	
6.1.5.4	Method of test	
6.1.5.4.1	Initial conditions	
6.1.5.4.2	Procedure	
6.1.5.5	Acceptance criteria	110
6.1.6	Unblock PIN2	110
6.1.6.1	Definition and applicability	110
6.1.6.2	Conformance requirement	110
6.1.6.3	Test purpose	110
6.1.6.4	Method of test	110
6.1.6.4.1	Initial conditions	110
6.1.6.4.2	Procedure	
6.1.6.5	Acceptance criterias	
6.1.7	Replacement of PIN	
6.1.7.1	Definition and applicability	
6.1.7.2	Conformance requirement	
6.1.7.3	Test purpose	
6174	Method of test	112

6.1.7.4.1	Initial conditions		
6.1.7.4.2	Procedure	1	12
6.1.7.5	Acceptance criteria		
6.1.8	Change of Universal PIN	1	13
6.1.8.1	Definition and applicability	1	13
6.1.8.2	Conformance requirement	1	13
6.1.8.3	Test purpose	1	13
6.1.8.4	Method of test	1	13
6.1.8.4.1	Initial conditions	1	13
6.1.8.4.2	Procedure	1	13
6.1.8.5	Acceptance criteria	1	14
6.1.9	Unblock Universal PIN	1	14
6.1.9.1	Definition and applicability		
6.1.9.2	Conformance requirement	1	14
6.1.9.3	Test purpose	1	14
6.1.9.4	Method of test	1	14
6.1.9.4.1	Initial conditions		
6.1.9.4.2	Procedure		
6.1.9.5	Acceptance criteria		
6.1.10	Entry of PIN on multi-verification capable UICCs	1	15
6.1.10.1	Definition and applicability	1	15
6.1.10.2	Conformance requirement	1	15
6.1.10.3	Test purpose	1	15
6.1.10.4	Method of test	1	15
6.1.10.4.1	Initial conditions	1	15
6.1.10.4.2	Procedure	1	16
6.1.10.5	Acceptance criteria	1	16
6.1.11	Change of PIN on multi-verification capable UICCs	1	16
6.1.11.1	Definition and applicability	1	16
6.1.11.2	Conformance requirement	1	16
6.1.11.3	Test purpose	1	17
6.1.11.4	Method of test	1	17
6.1.11.4.1	Initial conditions	1	17
6.1.11.4.2	Procedure	1	17
6.1.11.5	Acceptance criteria		
6.1.12	Unblock PIN on multi-verification capable UICCs	1	18
6.1.12.1	Definition and applicability		
6.1.12.2	Conformance requirement		
6.1.12.3	Test purpose		
6.1.12.4	Method of test		
6.1.12.4.1	Initial conditions	1	18
6.1.12.4.2	Procedure		
6.1.12.5	Acceptance criteria		
6.1.13	Entry of PIN2 on multi-verification capable UICCs		
6.1.13.1	Definition and applicability		
6.1.13.2	Conformance requirement		
6.1.13.3	Test purpose		
6.1.13.4	Method of test		
6.1.13.4.1	Initial conditions		
6.1.13.4.2	Procedure		
6.1.13.5	Acceptance criteria		
6.1.14	Change of PIN2 on multi-verification capable UICCs		
6.1.14.1	Definition and applicability		
6.1.14.2	Conformance requirement		
6.1.14.3	Test purpose		
6.1.14.4	Method of test		
6.1.14.4.1	Initial conditions		
6.1.14.4.2	Procedure		
6.1.14.5	Acceptance criteria		
6.1.15	Unblock PIN2 on multi-verification capable UICCs		
6.1.15.1	Definition and applicability		
6.1.15.2	Conformance requirement	12	23

6.1.15.3	Test purpose	
6.1.15.4	Method of test	
6.1.15.4.1	Initial conditions	
6.1.15.4.2		
6.1.15.5	Acceptance criterias	
6.1.16	Replacement of PIN with key reference "07"	
6.1.16.1	Definition and applicability	
6.1.16.2	Conformance requirement	
6.1.16.3	Test purpose	
6.1.16.4	Method of test	
6.1.16.4.1	111111111 4 0 11 0 11 11 11 11 11 11 11 11 11 11 11	
6.1.16.4.2 6.1.16.5		
6.2	Acceptance criteria	
6.2.1	Terminal and USIM with FDN enabled, EF _{ADN} readable and updateable	
6.2.1.1	Definition and applicability	
6.2.1.2	Conformance requirement.	
6.2.1.3	Test purpose	
6.2.1.4	Method of test	
6.2.1.4.1	Initial conditions	
6.2.1.4.2	Procedure	
6.2.1.5	Acceptance criteria	
6.2.2	Terminal and USIM with FDN disabled	
6.2.2.1	Definition and applicability	
6.2.2.2	Conformance requirement	
6.2.2.3	Test purpose	
6.2.2.4	Method of test	
6.2.2.4.1	Initial conditions	130
6.2.2.4.2	Procedure	131
6.2.2.5	Acceptance criteria	131
6.2.3	Enabling, disabling and updating of FDN	131
6.2.3.1	Definition and applicability	131
6.2.3.2	Conformance requirement	131
6.2.3.3	Test purpose	
6.2.3.4	Method of test	
6.2.3.4.1	Initial conditions	
6.2.3.4.2	Procedure	
6.2.3.5	Acceptance criteria	
6.2.4	Terminal and USIM with FDN enabled, EF _{ADN} readable and updateable (Rel-4 and onwards)	132
6.2.4.1	Definition and applicability	
6.2.4.2	Conformance requirement	
6.2.4.3	Test purpose	
6.2.4.4	Method of test	
6.2.4.4.1	Initial conditions	
6.2.4.4.2	Procedure	
6.2.4.5	Acceptance criteria	
6.3 6.4	Void	
6.4.1	Advice of charge (AoC) handling AoC not supported by USIM	
6.4.1.1	Definition and applicability	
6.4.1.2	Conformance requirement	
6.4.1.3	Test purpose	
6.4.1.4	Method of test	
6.4.1.4.1	Initial conditions	
6.4.1.4.2	Procedure	
6.4.1.5	Acceptance criteria	
6.4.2	Maximum frequency of ACM updating	
6.4.2.1	Definition and applicability	
6.4.2.2	Conformance requirement.	
6.4.2.3	Test purpose	
6.4.2.4	Method of test	
6/12/1	Initial conditions	136

6.4.2.4		
6.4.2.5	r	
6.4.3	Call terminated when ACM greater than ACMmax	
6.4.3.1	Definition and applicability	139
6.4.3.2	2 Conformance requirement	139
6.4.3.3	3 Test purpose	139
6.4.3.4	Method of test	140
6.4.3.4	4.1 Initial conditions	140
6.4.3.4	4.2 Procedure	140
6.4.3.5	5 Acceptance criteria	142
6.4.4	Response codes of increase command of ACM	
6.4.4.1	•	
6.4.4.2	**	
6.4.4.3	•	
6.4.4.4		
6.4.4.4		
6.4.4.4		
6.4.4.5		
_	•	
	PLMN related tests	
7.1	FPLMN handling	
7.1.1	Adding FPLMN to the Forbidden PLMN list	
7.1.1.1	Definition and applicability	147
7.1.1.2	- · · · · · · · · · · · · · · · · · · ·	
7.1.1.3	T T	
7.1.1.4	4 Method of test	149
7.1.1.4		
7.1.1.4		
7.1.1.5	5 Acceptance criteria	153
7.1.2	UE updating forbidden PLMNs	154
7.1.2.1	Definition and applicability	154
7.1.2.2	2 Conformance requirement	155
7.1.2.3	Test purpose	155
7.1.2.4	4 Method of test	155
7.1.2.4	4.1 Initial conditions	155
7.1.2.4	4.2 Procedure	156
7.1.2.5	5 Acceptance criteria	156
7.1.3	UE deleting forbidden PLMNs	
7.1.3.1	Definition and applicability	157
7.1.3.2		
7.1.3.3	<u>*</u>	
7.1.3.4		
7.1.3.4		
7.1.3.4	4.2 Procedure	159
7.1.3.5		
7.1.4	Adding FPLMN to the forbidden PLMN list when accessing E-UTRAN	
7.1.4.1	č	
7.1.4.2	- · · · · · · · · · · · · · · · · · · ·	
7.1.4.3	<u>*</u>	
7.1.4.4		
7.1.4.4		
7.1.4.4		
7.1.4.5		
7.1.5	UE updating forbidden PLMNs when accessing E-UTRAN	
7.1.5.1	· · ·	
7.1.5.1	**	
7.1.5.2		
7.1.5.3 7.1.5.4	1 1	
7.1.5. 4		
7.1.5. 4		
7.1.5.5		
7.1.3.3 7 1 6	UE deleting forbidden PLMNs when accessing E-UTRAN	166

7.1.6.1	Definition and applicability	166
7.1.6.2	Conformance requirement	
7.1.6.3	Test purpose	
7.1.6.4	Method of test	
7.1.6.4.1	Initial conditions	
7.1.6.4.2	Procedure	
7.1.6.5	Acceptance criteria	
7.2	User controlled PLMN selector handling	
7.2.1	UE updating the User controlled PLMN selector list	
7.2.1.1	Definition and applicability	
7.2.1.2	Conformance requirement	
7.2.1.3	Test purpose	
7.2.1.4	Method of test	
7.2.1.4.1	Initial conditions	
7.2.1.4.2	Procedure	
7.2.1.5	Acceptance criteria	
7.2.2	UE recognising the priority order of the User controlled PLMN selector list with the same access	
7.2.2	technology	169
7.2.2.1	Definition and applicability	
7.2.2.2	Conformance requirement	
7.2.2.3	Test purpose	
7.2.2.4	Method of test	
7.2.2.4.1	Initial conditions	
7.2.2.4.2	Procedure	
7.2.2.5	Acceptance criteria	
7.2.3	UE recognising the priority order of the User controlled PLMN selector list using an ACT	1 / 2
7.2.5	preference.	173
7.2.3.1	Definition and applicability	
7.2.3.2	Conformance requirement	
7.2.3.3	Test purpose	
7.2.3.4	Method of test	
7.2.3.4.1	Initial conditions	
7.2.3.4.2	Procedure	
7.2.3.5	Acceptance criteria	
7.2.4	Void	
7.2.5	UE updating the User controlled PLMN selector list for E-UTRAN	
7.2.5.1	Definition and applicability	
7.2.5.2	Conformance requirement	
7.2.5.3	Test purpose	
7.2.5.4	Method of test	
7.2.5.4.1	Initial conditions	
7.2.5.4.2	Procedure	
7.2.5.5	Acceptance criteria	
7.2.6	UE recognising the priority order of the User controlled PLMN selector list using an ACT	
	preference- UTRAN/E-UTRAN	176
7.2.6.1	Definition and applicability	
7.2.6.2	Conformance requirement	
7.2.6.3	Test purpose	
7.2.6.4	Method of test	
7.2.6.4.1	Initial conditions	
7.2.6.4.2	Procedure	
7.2.6.5	Acceptance criteria	
7.2.7	UE recognising the priority order of the User controlled PLMN selector list using an ACT	
	preference- GSM/E-UTRAN	177
7.2.7.1	Definition and applicability	
7.2.7.2	Conformance requirement	
7.2.7.3	Test purpose	
7.2.7.4	Method of test	
7.2.7.4.1	Initial conditions	
7.2.7.4.2	Procedure	
7.2.7.5	Acceptance criteria	
7.3	Operator controlled PI MN selector handling	179

7.3.1.2	7.3.1	UE recognising the priority order of the Operator controlled PLMN selector list	179
7.3.1.4	7.3.1.1	Definition and applicability	179
7.3.1.41 Method of test	7.3.1.2	Conformance requirement	179
7.3.1.4.1	7.3.1.3	Test purpose	179
7.3.1.42 Procedure 181 7.3.1.5	7.3.1.4	Method of test	179
1.5	7.3.1.4.1	Initial conditions	179
UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list.			
PLMN selector list			
7.3.2.1 Definition and applicability. 183 7.3.2.2 Conformance requirement. 185 7.3.2.3 Test purpose. 185 7.3.2.4.1 Initial conditions. 184 7.3.2.4.2 Procedure. 184 7.3.2.4.2.2 Procedure. 188 7.3.2.3.3 UE recognising the priority order of the Operator controlled PLMN selector list when accessing E-UTRAN 187 7.3.3.1 Definition and applicability. 188 7.3.3.3 Test purpose. 188 7.3.3.4 Method of test. 187 7.3.3.4 Initial conditions. 187 7.3.3.4 Procedure. 188 7.3.4.2 Procedure. 188 7.3.4.3 Definition and applicability. 188 7.3.4.4 Procedure. 188 7.3.4.1 Definition and applicability. 188 7.3.4.2 Procedure. 189 7.3.4.1 Initial conditions. 189 7.3.4.2 Definition and applicability. 189 7.3.4.4	7.3.2		
7.3.2.2 Conformance requirement. 18. 7.3.2.4 Method of test 18. 7.3.2.4 Method of test 18. 7.3.2.4.1			
7.3.2.3 Test purpose 18 7.3.2.4.1 Method of test 18 7.3.2.4.2 Procedure 18 7.3.2.4.2 Procedure 18 7.3.2.5 Acceptance criteria 18 7.3.2.5 Acceptance criteria 18 7.3.3.1 Definition and applicability 18 7.3.3.2 Conformance requirement 18 7.3.3.3 Test purpose 18 7.3.3.4 Method of test 18 7.3.3.4.1 Initial conditions 18 7.3.3.4.2 Procedure 18 7.3.4.3 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list – E-UTRAN. 18 7.3.4.1 Definition and applicability 18 7.3.4.2 Conformance requirement. 18 7.3.4.3 Test purpose 19 7.3.4.4.1 Initial conditions 19 7.3.4.2.1 Procedure 19 7.4.1.1 UE recognising the search period of the Higher priority PLMN 19 <t< td=""><td></td><td></td><td></td></t<>			
1.3.2.4.1 Method of test 1.8.			
1,3,2,4,1		1 1	
7.3.2.4.2 Procedure			
7.3.2.5 Acceptance criteria. 186 7.3.3 UE recognising the priority order of the Operator controlled PLMN selector list when accessing E-UTRAN. 187 7.3.3.1 Definition and applicability. 188 7.3.3.2 Conformance requirement 188 7.3.3.3.1 Initial conditions. 188 7.3.3.4.1 Initial conditions. 188 7.3.3.4.2 Procedure. 188 7.3.4.2 Procedure. 188 7.3.4.2 Procedure. 188 7.3.4.3 LUE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector ist. 189 7.3.4.1 Definition and applicability. 188 7.3.4.2 Conformance requirement 18 7.3.4.3 Test purpose. 194 7.3.4.4.1 Initial conditions. 199 7.3.4.2.3 Acceptance criteria. 199 7.4.4.1 Higher priority PLMN search handling. 191 7.4.1.1 Definition and applicability. 191 7.4.1.2.1 Conformance requirement 199 </td <td></td> <td></td> <td></td>			
UE recognising the priority order of the Operator controlled PLMN selector list when accessing E-UTRAN			
UTRAN 18 7.3.3.1 Definition and applicability. 18 7.3.3.2 Conformance requirement 18 7.3.3.3 Test purpose 18 7.3.3.4.1 Initial conditions 18 7.3.3.4.2 Procedure 18 7.3.3.5.5 Acceptance criteria 18 7.3.4.1 Definition and applicability. 18 7.3.4.2 PUMN selector list – E-UTRAN 18 7.3.4.1 Definition and applicability. 18 7.3.4.2 Conformance requirement 18 7.3.4.3 Test purpose 19 7.3.4.4.1 Initial conditions 19 7.3.4.4.2 Procedure 19 7.3.4.4.3 Procedure 19 7.3.4.4.1 Initial conditions 19 7.4.1.1 Definition and applicability. 19 7.4.1.2 Conformance requirement 19 7.4.1.3 Test purpose 19 7.4.1.4 Initial conditions 19 7.4.1.4.1			
7.3.3.1 Definition and applicability. 18 7.3.3.2 Conformance requirement 18 7.3.3.3 Test purpose 18 7.3.3.4.1 Initial conditions 18 7.3.3.4.2 Procedure. 18 7.3.3.5 Acceptance criteria 18 Yerrore device 19	1.3.3		-
7.3.3.2 Conformance requirement. 18 7.3.3.3 Test purpose 18 7.3.3.4.1 Initial conditions. 18 7.3.3.4.2 Procedure. 18 7.3.3.4.2 Procedure. 18 7.3.3.4.2 Procedure. 18 7.3.3.5 Acceptance criteria. 18 PLMN selector list - E-UTRAN. 18 7.3.4.1 Definition and applicability. 18 7.3.4.2.2 Conformance requirement 18 7.3.4.3 Test purpose. 19 7.3.4.4.1 Initial conditions. 19 7.3.4.2.2 Procedure. 19 7.3.4.3.4.3 Acceptance criteria. 19 7.3.4.4.4 Higher priority PLMN search handling. 19 7.4.1.1 Definition and applicability. 19 7.4.1.1.1 Definition and applicability. 19 7.4.1.2.2 Conformance requirement. 19 7.4.1.4.3 Test purpose. 19 7.4.1.4.1 Initial conditions. 19 7.4.2.2 GSM/UmTS dual mode UEs recognising the search period of the Higher p	7221		
7.3.3.3 Test purpose 18 7.3.3.4 Method of test 18 7.3.3.4.1 Initial conditions 18 7.3.3.4.2 Procedure 18 7.3.3.5 Acceptance criteria 18 Horizand 18 18 PLMN selector list – E-UTRAN 18 7.3.4.1 Definition and applicability 18 7.3.4.2 Conformance requirement 18 7.3.4.3 Test purpose 19 7.3.4.4 Method of test 19 7.3.4.5 Acceptance criteria 19 7.3.4.6 Procedure 19 7.3.4.1 Initial conditions 19 7.4.1.1 Definition and applicability 19 7.4.1.1 Definition and applicability 19 7.4.1.2 Conformance requirement 19 7.4.1.4 Method of test 19 7.4.1.4 Initial conditions 19 7.4.1.5 Acceptance criteria 19 7.4.2.1 Procedure		**	
7.3.3.4.1 Method of test. 187 7.3.3.4.2 Procedure. 188 7.3.3.4.2 Procedure. 188 7.3.3.5 Acceptance criteria. 188 7.3.4.1 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list – E-UTRAN. 188 7.3.4.1 Definition and applicability. 188 7.3.4.2 Conformance requirement. 188 7.3.4.3 Test purpose. 199 7.3.4.4.1 Initial conditions. 190 7.3.4.4.2 Procedure. 191 7.3.4.4.3 Acceptance criteria. 191 7.4 Higher priority PLMN search handling. 191 7.4.1.1 Definition and applicability. 191 7.4.1.2 Conformance requirement. 191 7.4.1.3 Test purpose. 191 7.4.1.4.1 Initial conditions. 192 7.4.1.4.2 Procedure. 192 7.4.1.4.3 Initial conditions. 192 7.4.1.4.1 Initial conditions. 192 7.4.1.4.2 Procedure. 192 <td></td> <td></td> <td></td>			
7.3.3.4.1 Initial conditions 18 7.3.3.4.2 Procedure 18 7.3.3.5 Acceptance criteria 18 7.3.4.1 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list - E-UTRAN 18 7.3.4.1 Definition and applicability 18 7.3.4.2 Conformance requirement 18 7.3.4.3 Test purpose 19 7.3.4.4.1 Initial conditions 19 7.3.4.2.2 Procedure 19 7.3.4.3.4.1 Initial conditions 19 7.3.4.2.2 Procedure 19 7.4.4.1 Higher priority PLMN search handling 19 7.4.1.1 UE recognising the search period of the Higher priority PLMN 19 7.4.1.1 Definition and applicability 19 7.4.1.2 Conformance requirement 19 7.4.1.3.1 Test purpose 19 7.4.1.4.1 Initial conditions 19 7.4.1.2.1 Procedure 19 7.4.2.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 19		* *	
7.3.3.4.2 Procedure			
7.3.3.5 Acceptance criteria. 185 7.3.4 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector ist - E-UTRAN. 188 7.3.4.1 Definition and applicability. 188 7.3.4.2 Conformance requirement. 188 7.3.4.3 Test purpose. 199 7.3.4.4.1 Initial conditions. 190 7.3.4.2.2 Procedure. 190 7.3.4.4.2 Procedure. 190 7.3.4.4.2 Procedure. 190 7.3.4.4.2 Procedure. 190 7.3.4.4.2 Procedure. 191 7.4.1.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability. 191 7.4.1.2 Conformance requirement. 191 7.4.1.3 Test purpose. 191 7.4.1.4.1 Initial conditions. 192 7.4.1.4.2 Procedure. 192 7.4.2.1.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196			
7.3.4 UE recognising the priority order of the User controlled PLMN selector list – E-UTRAN. 18 7.3.4.1 Definition and applicability. 18 7.3.4.2 Conformance requirement. 18 7.3.4.3 Test purpose. 19 7.3.4.4.1 Initial conditions. 190 7.3.4.5.2 Acceptance criteria. 190 7.3.4.5.1 Acceptance criteria. 191 7.4.4.1 Higher priority PLMN search handling. 191 7.4.1.1 Definition and applicability. 191 7.4.1.2 Conformance requirement. 191 7.4.1.3 Test purpose. 191 7.4.1.4 Method of test. 192 7.4.1.4.1 Initial conditions. 192 7.4.1.4.2 Procedure. 193 7.4.1.4.3 Acceptance criteria. 192 7.4.2.1 Definition and applicability. 196 7.4.2.2 Conformance requirement. 196 7.4.2.3 Test purpose. 196 7.4.2.4.1 Initial conditions. 196 </td <td></td> <td></td> <td></td>			
PLMN selector list - E-UTRAN. 188 7.3.4.1 Definition and applicability 188 7.3.4.2 Conformance requirement 188 7.3.4.3 Test purpose 190 7.3.4.4 Method of test 190 7.3.4.4.1 Initial conditions. 190 7.3.4.2 Procedure 190 7.3.4.5 Acceptance criteria 191 7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4 Initial conditions. 192 7.4.1.5 Acceptance criteria 192 7.4.1.6 Conformance requirement 193 7.4.1.7 Definition and applicability 194 7.4.1.1 Initial conditions 192 7.4.1.2 Conformance requirement 193 7.4.1.3 Test purpose 194 7.4.1.4 Initial conditions 192 7.4.1.5 Acceptance criteria 192 7.4.1.5 Acceptance criteria 193 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.5 Acceptance criteria 197 7.4.2.6 Acceptance criteria 197 7.4.2.7 Definition and applicability 196 7.4.2.8 Test purpose 197 7.4.2.9 Test purpose 197 7.4.2.1 Initial conditions 196 7.4.2.2 Conformance requirement 197 7.4.2.3 Test purpose 197 7.4.2.4 Test purpose 197 7.4.2.5 Acceptance criteria 197 7.4.3.1 Definition and applicability 196 7.4.3.2 Conformance requirement 197 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4 Initial conditions 200 7.4.3.5 Acceptance criteria 200 7.4.			
7.3.4.1 Definition and applicability. 188 7.3.4.2 Conformance requirement 188 7.3.4.3 Test purpose. 199 7.3.4.4 Method of test 190 7.3.4.4.1 Initial conditions. 199 7.3.4.2.2 Procedure. 190 7.3.4.5 Acceptance criteria. 191 7.4.1 Higher priority PLMN search handling. 191 7.4.1.1 Definition and applicability. 191 7.4.1.1 Definition and applicability. 191 7.4.1.2 Conformance requirement. 191 7.4.1.3 Test purpose. 191 7.4.1.4 Method of test. 192 7.4.1.4.1 Initial conditions. 192 7.4.1.5 Acceptance criteria. 192 7.4.1.5 Acceptance criteria. 192 7.4.2.1 Definition and applicability. 196 7.4.2.2 Conformance requirement. 196 7.4.2.3 Test purpose. 196 7.4.2.4 Method of test. 196 7.4.2.5 Acceptance criteria. <	7.3.4		
7.3.4.2 Conformance requirement 18 7.3.4.3 Test purpose 199 7.3.4.4 Method of test 190 7.3.4.1 Initial conditions 191 7.3.4.2 Procedure 190 7.3.4.5 Acceptance criteria 191 7.4 Higher priority PLMN search handling 191 7.4.1 Definition and applicability 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.2.2 Procedure 192 7.4.1.3.5 Acceptance criteria 192 7.4.2.1 Definition and applicability 196 7.4.2.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Test purpose 196 7.4.2.3 Test purpose in the search period of the Higher priority PLMN - E-UTRAN 196	7.3.4.1		
7.3.4.3 Test purpose 196 7.3.4.4 Method of test 199 7.3.4.1.1 Initial conditions 196 7.3.4.2 Procedure 199 7.3.4.5 Acceptance criteria 191 7.4 Higher priority PLMN search handling 191 7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.4.2 Procedure 192 7.4.1.4.1 Initial conditions 192 7.4.2.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.4 Method of test 196 7.4.2.4 Initial conditions 197 7.4.2.5 Acceptance criteria 199 7			
7.3.4.4 Method of test 190 7.3.4.4.1 Initial conditions 190 7.3.4.4.2 Procedure 190 7.3.4.5 Acceptance criteria 191 7.4 Higher priority PLMN search handling 191 7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.2.2 Procedure 192 7.4.1.5 Acceptance criteria 192 7.4.2.1 Definition and applicability 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Test purpose 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.5 Acceptance criteria 196 7.4.2.1 Initial conditions 196 7.4.2.2 Procedure 197 </td <td></td> <td><u>*</u></td> <td></td>		<u>*</u>	
7.3.4.4.1 Initial conditions 190 7.3.4.4.2 Procedure 199 7.3.4.5 Acceptance criteria 191 7.4 Higher priority PLMN search handling 191 7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.5 Acceptance criteria 195 7.4.1.5 Acceptance criteria 195 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 197 7.4.2.2.2 Procedure 197 7.4.2.3 Test purpose 196 7.4.2.4.1 Initial conditions 196 7.4.2.5 Acceptance criteria 19		* *	
7.3.4.2 Procedure			
7.3.4.5 Acceptance criteria	7.3.4.4.2		
7.4 Higher priority PLMN search handling 191 7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 192 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.5 Acceptance criteria 195 7.4.2.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.2.2 Procedure 197 7.4.2.3 Test purpose 196 7.4.2.4.1 Initial conditions 196 7.4.2.2.5 Acceptance criteria 197 7.4.3.3 Test purpose 198 7.4.3.4 Method of test 196 7.			
7.4.1 UE recognising the search period of the Higher priority PLMN 191 7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.5 Acceptance criteria 195 7.4.2.1 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.2.2 Procedure 197 7.4.2.3 Acceptance criteria 198 7.4.2.4.2 Procedure 197 7.4.3.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 198 7.4.3.1 Definition and applicability 198 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose <td>7.4</td> <td></td> <td></td>	7.4		
7.4.1.1 Definition and applicability 191 7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 192 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.4.2 Procedure 195 7.4.1.5 Acceptance criteria 195 7.4.2.1 Acceptance criteria 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.2.2 Procedure 197 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.5 Acceptance criteria 197 7.4.2.5 Acceptance criteria 198 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initia	7.4.1		
7.4.1.2 Conformance requirement 191 7.4.1.3 Test purpose 192 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.4.2 Procedure 192 7.4.1.5 Acceptance criteria 195 7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 198 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5	7.4.1.1		
7.4.1.3 Test purpose 191 7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.4.2 Procedure 192 7.4.1.5 Acceptance criteria 195 7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.3 Acceptance criteria 198 7.4.3.1 Definition and applicability 196 7.4.3.2 Conformance requirement 196 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.2 Test purpose 200 7.4.3.3 Test purpose 200 7.4.3.4.1 Initial conditions 200 <		**	
7.4.1.4 Method of test 192 7.4.1.4.1 Initial conditions 192 7.4.1.4.2 Procedure 192 7.4.1.5 Acceptance criteria 195 7.4.2.1 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 200 7.4.3.5 Acceptance criteria 200	7.4.1.3		
7.4.1.4.2 Procedure 192 7.4.1.5 Acceptance criteria 195 7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.1.4		
7.4.1.5 Acceptance criteria. 195 7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201 7.4.3.5 Acceptance criteria 201	7.4.1.4.1	Initial conditions	192
7.4.1.5 Acceptance criteria	7.4.1.4.2		
7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN 196 7.4.2.1 Definition and applicability 196 7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.1.5	Acceptance criteria	195
7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2		
7.4.2.2 Conformance requirement 196 7.4.2.3 Test purpose 196 7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.1		
7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.2	** *	
7.4.2.4 Method of test 196 7.4.2.4.1 Initial conditions 196 7.4.2.4.2 Procedure 197 7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.3	•	
7.4.2.4.2 Procedure	7.4.2.4		
7.4.2.5 Acceptance criteria 198 7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.4.1	Initial conditions	196
7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.4.2	Procedure	197
7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN 199 7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.2.5		
7.4.3.1 Definition and applicability 199 7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.3		
7.4.3.2 Conformance requirement 199 7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.3.1		
7.4.3.3 Test purpose 200 7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.3.2		
7.4.3.4 Method of test 200 7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.3.3	•	
7.4.3.4.1 Initial conditions 200 7.4.3.4.2 Procedure 200 7.4.3.5 Acceptance criteria 201	7.4.3.4	• •	
7.4.3.4.2 Procedure	7.4.3.4.1		
7.4.3.5 Acceptance criteria	7.4.3.4.2		
<u>.</u>	7.4.3.5		
	7.4.4	*	

7.4.4.1	Definition and applicability	201
7.4.4.2	Conformance requirement	201
7.4.4.3	Test purpose	201
7.4.4.4	Method of test	202
7.4.4.4.1	Initial conditions	202
7.4.4.4.2	Procedure	203
7.4.4.5	Acceptance criteria	
7.4.5	E-UTRAn/EPC capable UEs recognising the search period of the Higher priority PLMN –	
	UTRAN/E-UTRAN	204
7.4.5.1	Definition and applicability	
7.4.5.2	Conformance requirement	
7.4.5.3	Test purpose	
7.4.5.4	Method of test	
7.4.5.4.1		
7.4.5.4.2		
7.4.5.5	Acceptance criteria	
7. 4 .3.3 7.5	Void	
1.5	V OIU	200
8 S	Subscription independent tests	207
8.1	Phone book procedures	
8.1.1	Recognition of a previously changed phonebook	
8.1.1.1	Definition and applicability	
8.1.1.2	Conformance requirement.	
8.1.1.3	Test purpose	
8.1.1.4	Method of test	
8.1.1. 4 8.1.1.4.1		
8.1.1.4.2		
8.1.1.5	Acceptance criteria	
8.1.1.3		
	Update of the Phonebook Synchronisation Counter (PSC)	
8.1.2.1	Definition and applicability	
8.1.2.2	Conformance requirement	
8.1.2.3	Test purpose	
8.1.2.4	Method of test	
8.1.2.4.1		
8.1.2.4.2		
8.1.2.5	Acceptance criteria	
8.1.3	Phonebook content handling	
8.1.3.1	Handling of BCD number/ SSC content extension	210
8.1.3.1.1		
8.1.3.1.2	2 Conformance requirement	210
8.1.3.1.3	Test purpose	210
8.1.3.1.4	Method of test	210
8.1.3.1.5		
8.1.4	Phonebook selection	
8.1.4.1	Definition and applicability	
8.1.4.2	Conformance requirement	
8.1.4.3	Test purpose	
8.1.4.4	Method of test	
8.1.4.4.1		
8.1.4.4.2		
8.1.4.5	Acceptance criteria	
	<u>*</u>	
8.1.5	Local Phonebook handling	
8.1.5.1	Definition and applicability	
8.1.5.2	Conformance requirement	
8.1.5.3	Test purpose	
8.1.5.4	Method of test	
8.1.5.4.1		
8.1.5.4.2		
8.1.5.5	Acceptance criteria	
8.2	Short message handling report	
8.2.1	Correct storage of a SM on the USIM	
8.2.1.1	Definition and applicability	221

8.2.1.2	Conformance requirement	221
8.2.1.3	Test purpose	221
8.2.1.4	Method of test	
8.2.1.4.1	Initial conditions	221
8.2.1.4.2	Procedure	222
8.2.1.5	Acceptance criteria	222
8.2.2	Correct reading of a SM on the USIM	222
8.2.2.1	Definition and applicability	
8.2.2.2	Conformance requirement	
8.2.2.3	Test purpose	
8.2.2.4	Method of test	
8.2.2.4.1	Initial conditions	
8.2.2.4.2	Procedure	
8.2.2.5	Acceptance criteria	
8.2.3	SM memory capacity exceeded handling	
8.2.3.1	Definition and applicability	
8.2.3.2	Conformance requirement	
8.2.3.3	Test purpose	
8.2.3.4	Method of test	
8.2.3.4.1	Initial conditions	
8.2.3.4.2	Procedure	
8.2.3.5	Acceptance criteria	
8.2.4	Correct storage of an SM on the UICC	
8.2.4.1 8.2.4.2	Definition and applicability	
8.2.4.3	Conformance requirement	
8.2.4.4	Test purpose	
8.2.4.4.1	Initial conditions	
8.2.4.4.2	Procedure	
8.2.4.5	Acceptance criteria	
8.2.5	Correct reading of a SM on the USIM if USIM and ISIM are present	
8.2.5.1	Definition and applicability	
8.2.5.2	Conformance requirement	
8.2.5.3	Test purpose	
8.2.5.4	Method of test	234
8.2.5.4.1	Initial conditions	234
8.2.5.4.2	Procedure	
8.2.5.5	Acceptance criteria	
8.2.6	Correct reading of a SM on the ISIM if USIM and ISIM are present	
8.2.6.1	Definition and applicability	
8.2.6.2	Conformance requirement	
8.2.6.3	Test purpose	
8.2.6.4	Method of test	
8.2.6.4.1	Initial conditions	
8.2.6.4.2	Procedure	
8.2.6.5	Acceptance criteria	
8.3	MMS related tests.	
8.3.1 8.3.1.1	UE recognising the priority order of MMS Issuer Connectivity Parameters Definition and applicability	
8.3.1.2	Conformance requirement	
8.3.1.3	Test purpose	
8.3.1.4	Method of test	
8.3.1.4.1	Initial conditions	
8.3.1.4.2	Procedure	
8.3.1.5	Acceptance criteria	
8.3.2	UE recognising the priority order of MMS User Connectivity Parameters	
8.3.2.1	Definition and applicability	
8.3.2.2	Conformance requirement	
8.3.2.3	Test purpose	244
8.3.2.4	Method of test	
8.3.2.4.1	Initial conditions	
83242	Procedure	2/10

8.3.2.5	Acceptance criteria	249
8.3.3	UE recognising the priority order of MMS Issuer Connectivity Parameters over the MMS User	
	Connectivity Parameters	249
8.3.3.1	Definition and applicability	249
8.3.3.2	Conformance requirement	250
8.3.3.3	Test purpose	
8.3.3.4	Method of test	
8.3.3.4.1	Initial conditions	
8.3.3.4.2	Procedure	
8.3.3.5	Acceptance criteria	
8.3.4	Usage of MMS notification	
8.3.4.1	Definition and applicability	
8.3.4.2	Conformance requirement	
8.3.4.3	Test purpose	
8.3.4.4	Method of test	
8.3.4.4.1	Initial conditions	
8.3.4.4.2	Procedure	
8.3.4.5	Acceptance criteria	
8.4	UICC presence detection	262
8.4.1	Definition and applicability	262
8.4.2	Conformance requirement	262
8.4.3	Test purpose	262
8.4.4	Method of test	
8.4.4.1	Initial conditions	
8.4.4.2	Procedure	
8.4.5	Acceptance criteria	
8.5	UICC presence detection when connected to E-UTRAN/EPC	
8.5.1	Definition and applicability	
8.5.2	Conformance requirement	
	•	
8.5.3	Test purpose	
8.5.4	Method of test	
8.5.4.1	Initial conditions	
8.5.4.2	Procedure	
8.5.5	Acceptance criteria	264
9 U	SIM service handling	264
9.1	Access Point Name Control List handling	
9.1 9.1.1		
	Access Point Name Control List handling for terminals supporting ACL	
9.1.1.1	Definition and applicability	
9.1.1.2	Conformance requirement	
9.1.1.3	Test purpose	
9.1.1.4	Method of test	
9.1.1.4.1	Initial conditions	
9.1.1.4.2	Procedure	265
9.1.1.5	Acceptance criteria	266
9.1.2	Network provided APN handling for terminals supporting ACL	266
9.1.2.1	Definition and applicability	266
9.1.2.2	Conformance requirement	
9.1.2.3	Test purpose	
9.1.2.4	Method of test	
9.1.2.4.1	Initial conditions	
9.1.2.4.2	Procedure	
9.1.2.4.2	Acceptance criteria	
	•	
9.1.3	Access Point Name Control List handling for terminals not supporting ACL	
9.1.3.1	Definition and applicability	
9.1.3.2	Conformance requirement	
9.1.3.3	Test purpose	
9.1.3.4	Method of test	
9.1.3.4.1	Initial conditions	
9.1.3.4.2	Procedure	269
9.1.3.5	Acceptance criteria	269

9.1.4.1 Definition and applicability 22 9.1.4.2 Conformance requirement. 22 9.1.4.3 Test purpose 27 9.1.4.4 Initial conditions 27 9.1.4.4 Initial conditions 27 9.1.4.5 Acceptance criteria. 27 9.1.5 Void 27 9.1.6 Void 27 9.1.6 Void 27 9.2 Service Dulling Numbers handling 27 9.2.1 Definition and applicability 27 9.2.2 Conformance requirement 27 9.2.3 Test purpose 27 9.2.4 Initial conditions 27 9.2.4 Procedure 27 9.2.4.1 Initial conditions 27 9.2.4.2 Procedure 27 9.2.4.2 Procedure 27 9.2.4.3 Test purpose 27 9.2.4 Procedure 27 9.2.5 Acceptance criteria 27 10.1 CSG list handling for E-UTRA 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.1 Linitial conditions 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 10.1.2 Acceptance criteria 27 10.1.3 Test purpose 27 10.1.4 Procedure 27 10.1.2 Definition and applicability 27 10.1.2 Definition and applicability 28 10.1.2 Acceptance criteria 29 10.1.2 Definition and applicability 29 10.1.2 Definition and applicability 29 10.1.2 Definition and applicability 29 10.1.2 Procedure 29 10.1.2 Acceptance criteria 29 10.1.3 Automatic CSG selection in E-UTRA with CSG list on USIM, reported 29 10.1.3 Automatic CSG selection in E-UTRA with CSG list on USIM, rejected. 29 10.1.3 Acceptance criteria 29 10.1.3 Definition and applicability 29 10.1.3 Acceptance criteria 29 10.1.3 Acceptance criteria 29	9.1.4	Access Point Name Control List handling for terminals supporting ACL connected to E-	
9.1.4.2 Conformance requirement		UTRAN/EPC	
9.1.4.1 Method of test	9.1.4.1		
9,14.4 Method of test 2,914.4 Initial conditions 25,914.4 2 Procedure 27,914.4 2 Procedure 27,914.4 2 Procedure 27,914.5 Acceptance criteria 27,915.5 Void 2		Conformance requirement	269
9,14.4.1		Test purpose	270
9.1.4.12 Procedure	9.1.4.4		
9.1.45 Acceptance criteria. 9.1.5 Void. 9.1.6 Void. 9.1.6 Void. 9.1.1 Definition and applicability. 9.2.2 Service Dialling Numbers handling. 9.2.1 Definition and applicability. 9.2.2 Conformance requirement. 9.2.3 Test purpose. 9.2.4 Method of test. 9.2.4.1 Initial conditions. 9.2.4.2 Procedure. 9.2.5 Acceptance criteria. 9.2.6 Gist handling for E-UTRA. 9.1.1 Service Dialling. 9.1.1 Definition and applicability. 9.2.2 Test purpose. 9.2.3 Test purpose. 9.2.4 Procedure. 9.2.5 Acceptance criteria. 9.2.6 Gist handling for E-UTRA with CSG list on USIM, success. 9.2.7 Test purpose. 9.2.8 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.1 List and test purpose. 9.2.1 List and test purpose. 9.2.1 List and test purpose. 9.2.2 Test purpose. 9.2.3 Test purpose. 9.2.4 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 9.2.1 List and test purpose. 9.2.2 Test purpose. 9.2.3 Test purpose. 9.2.4 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 9.2.4 Initial conditions. 9.2.5 Test purpose. 9.2.6 Test purpose. 9.2.6 Test purpose. 9.2.7 Test purpose. 9.2.7 Test purpose. 9.2.8 Test purpose. 9.2.8 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.2 Test purpose. 9.2.3 Test purpose. 9.2.4 Test purpose. 9.2.4 Test purpose. 9.2.5 Test purpose. 9.2.5 Test purpose. 9.2.5 Test purpose. 9.2.6 Test purpose. 9.2.6 Test purpose. 9.2.7 Test purpose. 9.2.7 Test purpose. 9.2.8 Test purpose. 9.2.8 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.9 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.1 Test purpose. 9.2.2 Test purpose. 9.2.3 Test purpose. 9.2.3 Test purpose. 9.2.4 Test purpose. 9.2.5 Test purpose. 9.2.5 Tes			270
9.1.5 Void 22 9.1.6 Void 22 9.2 Service Dialling Numbers handling 27 9.2.1 Definition and applicability 27 9.2.1 Conformance requirement 27 9.2.3 Test purpose 27 9.2.4 Method of test 27 9.2.4.1 Initial conditions 27 9.2.5 Acceptance criteria 27 10. CSG list handling 27 10.1 CSG list handling for E-UTRA 27 10.1.1 Definition and applicability 21 10.1.1.2 Conformance requirement 27 10.1.1.3 Test purpose 27 10.1.1.4 Initial conditions 27 10.1.1.4.1 Initial conditions 27 10.1.1.2.3 Test purpose 27 10.1.1.4.2 Procedure 27 10.1.2.3 Acceptance criteria 21 10.1.2.1 Accommance requirement 22 10.1.2.2 Conforma	9.1.4.4.2	Procedure	270
9.1.6 Void 9.2 Service Dialling Numbers handling 9.2.1 Definition and applicability 9.2.2 Conformance requirement 9.2.3 Test purpose 9.2.4 Method of test 9.2.4.1 Initial conditions 9.2.5 Acceptance criteria 10 CSG list handling 11.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 12.1 Service 12.1 Definition and applicability 12.1 Procedure 12.1 Initial conditions 12.1 Service 13.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 10.1.1 Entition and applicability 10.1.1 Definition and applicability 10.1.1 Service 10.1.1 Initial conditions 12.1 Acceptance criteria 12.1 Acceptance requirement 12.1 Acceptance requirement 13.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 10.1.2 Conformance requirement 10.1.2 Definition and applicability 10.1.3 Test purpose 10.1.4 Initial conditions 12.1 Definition and applicability 10.1.2 Conformance requirement 10.1.2 Acceptance criteria 10.1.2 Acceptance requirement 10.1.2 Definition and applicability 10.1.2 Definition and applicability 10.1.3 Test purpose 10.1.4 Initial conditions 10.1.4 Method of test 10.1.5 Acceptance requirement 10.1.6 Acceptance requirement 10.1.7 Acceptance requirement 10.1.8 Acceptance requirement 10.1.1 Definition and applicability 10.1 Definition an	9.1.4.5	Acceptance criteria	271
9.2 Service Dialiting Numbers handling 2.7 9.2.1 Definition and applicability 2.7 9.2.2 Conformance requirement 2.7 9.2.3 Test purpose 2.7 9.2.4.1 Initial conditions 2.7 9.2.4.2 Procedure 2.7 9.2.5 Acceptance criteria 2.7 10.1 CSG list handling 2.7 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success. 2.7 10.1.1.1 Definition and applicability. 2.7 10.1.1.2 Conformance requirement 2.7 10.1.1.3 Test purpose. 2.7 10.1.1.4.1 Initial conditions. 2.7 10.1.1.4.2 Procedure. 2.7 10.1.1.4.2 Procedure. 2.7 10.1.1.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 2. 2.7 10.1.2.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 2. 2.1 10.1.2.4 Definition and applicability. 2.7	9.1.5	Void	271
9.2.1 Definition and applicability 2 9.2.2 Conformance requirement 2 9.2.3 Test purpose 2 9.2.4.1 Initial conditions 2 9.2.4.2.2 Procedure 2 9.2.5 Acceptance criteria 2 10. CSG list handling 2 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success. 2 10.1.1.1 Definition and applicability 2 10.1.1.2 Conformance requirement 2 10.1.1.4 Method of test 2 10.1.1.4.1 Initial conditions 2 10.1.1.4.2 Acceptance criteria 2 10.1.1.5 Acceptance criteria 2 10.1.2.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 2 10.1.2.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 2 10.1.2.3 Test purpose 2 10.1.2.4 Initial conditions 2 10.1.2.4 Initial conditions	9.1.6	Void	271
9.2.2 Conformance requirement 2. 9.2.3 Test purpose 2. 9.2.4.1 Method of test 2. 9.2.4.2 Procedure 2. 9.2.5 Acceptance criteria 2. 10 CSG list handling 2. 10.1 CSG list handling for E-UTRA 2. 10.1.1 Definition and applicability 2. 10.1.1.1 Definition and applicability 2. 10.1.1.2 Conformance requirement 2. 10.1.1.3 Test purpose 2. 10.1.1.4 Initial conditions 2. 10.1.1.5 Acceptance criteria 2. 10.1.1.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 2. 10.1.2.1 Definition and applicability 2. 10.1.2.2 Acceptance criteria 2. 10.1.2.3 Test purpose 2. 10.1.2.4 Method of test 2. 10.1.2.4.1 Initial conditions 2. 10.1.2.2.5 Acceptanc	9.2	Service Dialling Numbers handling	271
9.2.3 Test purpose. 2.7 9.2.4 Initial conditions 2.7 9.2.4.1 Initial conditions 2.7 9.2.4.2 Procedure 2.7 9.2.4.2 Procedure 2.7 9.2.4.2 Procedure 2.7 10.1 CSG list handling for E-UTRA 2.7 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 2.2 10.1.1.1 Definition and applicability 2.7 10.1.1.2 Conformance requirement 2.7 10.1.1.3 Test purpose 2.7 10.1.1.4.1 Initial conditions 2.2 10.1.1.4.2 Procedure 2.7 10.1.1.4.1 Initial conditions 2.2 10.1.2.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 2.7 10.1.2.3 Test purpose 2.7 10.1.2.4 Method of test 2.7 10.1.2.4 Initial conditions 2.7 10.1.2.4 Procedure 2.7 10.1.3.1 Definition	9.2.1	Definition and applicability	271
9.2.3 Test purpose. 2.7 9.2.4 Initial conditions 2.7 9.2.4.1 Initial conditions 2.7 9.2.4.2 Procedure 2.7 9.2.4.2 Procedure 2.7 9.2.4.2 Procedure 2.7 10.1 CSG list handling for E-UTRA 2.7 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 2.2 10.1.1.1 Definition and applicability 2.7 10.1.1.2 Conformance requirement 2.7 10.1.1.3 Test purpose 2.7 10.1.1.4.1 Initial conditions 2.2 10.1.1.4.2 Procedure 2.7 10.1.1.4.1 Initial conditions 2.2 10.1.2.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 2.7 10.1.2.3 Test purpose 2.7 10.1.2.4 Method of test 2.7 10.1.2.4 Initial conditions 2.7 10.1.2.4 Procedure 2.7 10.1.3.1 Definition	9.2.2	Conformance requirement	272
9.2.4.1 Initial conditions 2 9.2.2.5 Acceptance criteria 27 10. CSG list handling 27 10.1 CSG list handling for E-UTRA 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.1.1 Definition and applicability 2 10.1.1.2 Conformance requirement 2 10.1.1.3 Test purpose 27 10.1.1.4 Method of test 27 10.1.1.4.1 Initial conditions 2 10.1.1.2 Procedure 2 10.1.1.2 Acceptance criteria 2 10.1.2.1 Definition and applicability 2 10.1.2.2 Conformance requirement 2 10.1.2.3 Test purpose 2 10.1.2.4 Method of test 2 10.1.2.4 Initial conditions 2 10.1.2.4.1 Initial conditions 2 10.1.2.2 Acceptance criteria 2 10.1.3.1 Definition and applicability 2 10.1.3.2 Acceptance criteria 2	9.2.3		
9.2.4.2 Procedure 27 9.2.5 Acceptance criteria 27 10. CSG list handling 27 10.1.1 CSG list handling for E-UTRA 27 10.1.1.1 Definition and applicability 22 10.1.1.2 Conformance requirement 25 10.1.1.3 Test purpose 27 10.1.1.4 Method of test 27 10.1.1.4.1 Initial conditions 27 10.1.1.2 Procedure 27 10.1.1.2 Acceptance criteria 27 10.1.2.2 Procedure 27 10.1.2.3 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM. 27 10.1.2.2 Conformance requirement 22 10.1.2.3 Test purpose 27 10.1.2.4 Method of test 27 10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.3 <	9.2.4	Method of test	272
9.2.4.2 Procedure 27 9.2.5 Acceptance criteria 27 10.1 CSG list handling 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.1.1 Definition and applicability 27 10.1.1.2 Conformance requirement 25 10.1.1.3 Test purpose 27 10.1.1.4.1 Initial conditions 27 10.1.1.4.2 Procedure 27 10.1.1.4.2 Procedure 27 10.1.2.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 27 10.1.2.1 Definition and applicability 27 10.1.2.2 Conformance requirement 27 10.1.2.3 Test purpose 27 10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.2.2 Procedure 27 10.1.3.2 Acceptance criteria 27 10.1.3.4 Method of test 27 10.1.3.5 Acceptance criteria 27 10.1.3.4 <td< td=""><td>9.2.4.1</td><td>Initial conditions</td><td>272</td></td<>	9.2.4.1	Initial conditions	272
9.2.5 Acceptance criteria 27 10 CSG list handling for E-UTRA 27 10.1 CSG list handling for E-UTRA 27 10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.1.1 Definition and applicability 2 10.1.1.2 Conformance requirement 2 10.1.1.4 Method of test 27 10.1.1.4.1 Initial conditions 2 10.1.1.4.2 Procedure 2 10.1.1.4.2 Procedure 2 10.1.1.4.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 2 10.1.2.1 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM 2 10.1.2.2 Tost purpose 2 10.1.2.3 Test purpose 2 10.1.2.4 Method of test 2 10.1.2.5 Acceptance criteria 2 10.1.2.5 Acceptance criteria 2 10.1.3 Definition and applicability 2 10.1.3.1 Defin	9.2.4.2		
10	9.2.5		
10.1		•	
10.1.1			
10.1.1.1 Definition and applicability. 2.7			
10.1.1.2	10.1.1		
10.1.1.3	10.1.1.1		
10.1.1.4 Method of test	10.1.1.2	1	
10.1.1.4.1 Initial conditions 27 10.1.1.5 Procedure 27 10.1.1.5 Acceptance criteria 2 10.1.2.1 Definition and applicability 27 10.1.2.2 Conformance requirement 27 10.1.2.3 Test purpose 27 10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.2.5 Acceptance criteria 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 27 10.1.3.4 Method of test 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4.1 Initial conditions 22 10.1.3.2.2 Acceptance criteria 22 10.1.3.4.2 Procedure 25 10.1.3.3.3 Test purpose 28 10.1.3.4.2 Initial conditions 22 10.1.3.4.2 Procedure 25 10.1.4.1	10.1.1.3	Test purpose	275
10.1.1.4.2 Procedure	10.1.1.4		
10.1.1.5	10.1.1.4.		
10.1.2	10.1.1.4.2	2 Procedure	276
10.1.2.1 Definition and applicability. 27 10.1.2.2 Conformance requirement 27 10.1.2.3 Test purpose 27 10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.4.2 Procedure. 27 10.1.2.5 Acceptance criteria. 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability. 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure. 25 10.1.3.5 Acceptance criteria. 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected. 22 10.1.4.1 Definition and applicability. 28 10.1.4.2 Conformance requirement 22 10.1.4.2 Test purpose 22 10.1.4.3 Test purpose 22 10.1.4.2 Procedure. 22 10.1.5.1 <td< td=""><td>10.1.1.5</td><td>Acceptance criteria</td><td>276</td></td<>	10.1.1.5	Acceptance criteria	276
10.1.2.2 Conformance requirement 27 10.1.2.3 Test purpose 27 10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 28 10.1.3.4.2 Procedure 28 10.1.3.3 Acceptance criteria 28 10.1.3.4.1 Initial conditions 28 10.1.3.2 Procedure 28 10.1.4.2 Definition and applicability 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.2 Procedure 29 10.1.4.3 Test purpose 28 10.1.5.1 <td>10.1.2</td> <td>Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM</td> <td>277</td>	10.1.2	Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM	277
10.1.2.3 Test purpose 27 10.1.2.4.1 Method of test 27 10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 28 10.1.3.5.2 Acceptance criteria 28 10.1.4.3 Manual CSG selection in E-UTRA with CSG list on USIM, rejected. 28 10.1.4.1 Definition and applicability. 28 10.1.4.2 Conformance requirement 22 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.5 Acceptance criteria 28 10.1.4.5 Acceptance criteria 29 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement 28 10.1.5.3 <td>10.1.2.1</td> <td>Definition and applicability</td> <td>277</td>	10.1.2.1	Definition and applicability	277
10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 22 10.1.3.2.2 Procedure 28 10.1.3.3.5 Acceptance criteria 28 10.1.3.5 Acceptance criteria 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4.1 Initial conditions 28 10.1.4.2 Procedure 28 10.1.5.1 Acceptance criteria 28 10.1.5.2 Conformance requirement 28	10.1.2.2	Conformance requirement	277
10.1.2.4 Method of test 27 10.1.2.4.1 Initial conditions 27 10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 22 10.1.3.2.2 Procedure 28 10.1.3.3.5 Acceptance criteria 28 10.1.3.5.2 Acceptance criteria 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.5.3 Acceptance criteria 28 10.1.5.4 Definition and applicability <t< td=""><td>10.1.2.3</td><td>Test purpose</td><td>277</td></t<>	10.1.2.3	Test purpose	277
10.1.2.4.2 Procedure 27 10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 25 10.1.3.2 Procedure 22 10.1.3.4.2 Procedure 28 10.1.3.4.1 Initial conditions 25 10.1.4.2 Acceptance criteria 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 25 10.1.4.4 Method of test 28 10.1.4.2 Initial conditions 28 10.1.4.3 Test purpose 28 10.1.4.4 Initial conditions 28 10.1.5.1 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and ap	10.1.2.4		
10.1.2.5 Acceptance criteria 27 10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 25 10.1.3.5 Acceptance criteria 25 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.1 Initial conditions 28 10.1.4.2 Procedure 28 10.1.4.3 Test purpose 28 10.1.4.4 Initial conditions 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 T	10.1.2.4.	1 Initial conditions	278
10.1.3 Manual ČSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 29 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4.1 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.1 Initial conditions 28 10.1.4.2 Procedure 28 10.1.4.3 Test purpose 28 10.1.4.4 Initial conditions 28 10.1.4.2 Procedure 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purp	10.1.2.4.2	Procedure Procedure	278
10.1.3 Manual ČSG selection in E-UTRA with CSG list on USIM, success 27 10.1.3.1 Definition and applicability 27 10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 29 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4.1 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.1 Initial conditions 28 10.1.4.2 Procedure 28 10.1.4.3 Test purpose 28 10.1.4.4 Initial conditions 28 10.1.4.2 Procedure 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purp	10.1.2.5	Acceptance criteria	278
10.1.3.1 Definition and applicability. 27 10.1.3.2 Conformance requirement. 27 10.1.3.3 Test purpose. 28 10.1.3.4 Method of test. 28 10.1.3.4.1 Initial conditions. 28 10.1.3.4.2 Procedure. 28 10.1.3.5 Acceptance criteria. 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected. 28 10.1.4.1 Definition and applicability. 25 10.1.4.2 Conformance requirement. 26 10.1.4.3 Test purpose. 28 10.1.4.4 Method of test. 28 10.1.4.4.1 Initial conditions. 28 10.1.4.2.2 Procedure. 28 10.1.4.3 Test purpose. 28 10.1.4.4.1 Initial conditions. 28 10.1.4.2 Procedure. 28 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement. 28 10.1.5.3 Test purpose. 28 10.1.5.4 Method of test. 2	10.1.3		
10.1.3.2 Conformance requirement 27 10.1.3.3 Test purpose 28 10.1.3.4.1 Initial conditions 25 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.3 Test purpose 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.5.3 Acceptance criteria 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28	10.1.3.1		
10.1.3.3 Test purpose 28 10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 25 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 25 10.1.4.1 Definition and applicability 25 10.1.4.2 Conformance requirement 26 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.3.5 Acceptance criteria 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.5.1 Definition and applicability 25 10.1.5.2 Conformance requirement 26 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28	10.1.3.2		
10.1.3.4 Method of test 28 10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 25 10.1.4.1 Definition and applicability 25 10.1.4.2 Conformance requirement 25 10.1.4.3 Test purpose 26 10.1.4.4 Method of test 28 10.1.4.2 Procedure 28 10.1.4.2.1 Initial conditions 28 10.1.4.4.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.4.5 Acceptance criteria 28 10.1.5.1 Definition and applicability 25 10.1.5.2 Conformance requirement 25 10.1.5.3 Test purpose 26 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28	10.1.3.3		
10.1.3.4.1 Initial conditions 28 10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.2.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.3.5 Acceptance criteria 28 10.1.4.5 Acceptance criteria 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.2 Test purpose 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28	10.1.3.4	1 1	
10.1.3.4.2 Procedure 28 10.1.3.5 Acceptance criteria 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected 28 10.1.4.1 Definition and applicability 28 10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5.1 Definition in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28	10.1.3.4.	1 Initial conditions	280
10.1.3.5 Acceptance criteria. 28 10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected. 28 10.1.4.1 Definition and applicability. 28 10.1.4.2 Conformance requirement. 25 10.1.4.3 Test purpose. 28 10.1.4.4 Method of test. 28 10.1.4.4.1 Initial conditions. 28 10.1.4.2 Procedure. 28 10.1.4.5 Acceptance criteria. 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change. 28 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement. 28 10.1.5.3 Test purpose. 28 10.1.5.4 Method of test. 28 10.1.5.4.1 Initial conditions. 28 10.1.5.4.2 Procedure. 28 10.1.5.4.2 Procedure. 28 10.1.5.4.2 Procedure. 28	10.1.3.4.2		
10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected. 28 10.1.4.1 Definition and applicability. 28 10.1.4.2 Conformance requirement. 28 10.1.4.3 Test purpose. 25 10.1.4.4 Method of test. 25 10.1.4.4.1 Initial conditions. 28 10.1.4.2.2 Procedure. 28 10.1.4.5 Acceptance criteria. 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change. 28 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement. 28 10.1.5.3 Test purpose. 28 10.1.5.4 Method of test. 28 10.1.5.4.1 Initial conditions. 28 10.1.5.4.2 Procedure. 28			
10.1.4.1 Definition and applicability. 28 10.1.4.2 Conformance requirement. 28 10.1.4.3 Test purpose. 28 10.1.4.4 Method of test. 28 10.1.4.4.1 Initial conditions. 28 10.1.4.2.2 Procedure. 28 10.1.4.5 Acceptance criteria. 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change. 28 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement. 28 10.1.5.3 Test purpose. 28 10.1.5.4 Method of test. 28 10.1.5.4.1 Initial conditions. 28 10.1.5.4.2 Procedure. 28			
10.1.4.2 Conformance requirement 28 10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.4.3 Test purpose 28 10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.4.4 Method of test 28 10.1.4.4.1 Initial conditions 28 10.1.4.2.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.4.4.1 Initial conditions 28 10.1.4.4.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.4.4.2 Procedure 28 10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.4.5 Acceptance criteria 28 10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change 28 10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change. 28 10.1.5.1 Definition and applicability. 28 10.1.5.2 Conformance requirement. 28 10.1.5.3 Test purpose. 28 10.1.5.4 Method of test. 28 10.1.5.4.1 Initial conditions. 28 10.1.5.4.2 Procedure. 28			
10.1.5.1 Definition and applicability 28 10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.5.2 Conformance requirement 28 10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.5.3 Test purpose 28 10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28		** *	
10.1.5.4 Method of test 28 10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.5.4.1 Initial conditions 28 10.1.5.4.2 Procedure 28			
10.1.5.4.2 Procedure			
	10.1.5.4.2	Acceptance criteria	280 287

10.1.6	CSG selection in E-UTRA with no CSG list on USIM, with IMSI change	287
10.1.6.1	Definition and applicability	287
10.1.6.2	Conformance requirement	287
10.1.6.3	Test purpose	288
10.1.6.4	Method of test	288
10.1.6.4.1	Initial conditions	288
10.1.6.4.2		
10.1.6.5	Acceptance criteria	
10.1.7	Manual CSG selection without display restrictions in E-UTRA with ACSG list and OCSG list on	
	USIM	289
10.1.7.1	Definition and applicability	
10.1.7.2	Conformance requirement	
10.1.7.3	Test purpose	
10.1.7.4	Method of test	
10.1.7.4.1	Initial conditions	
10.1.7.4.1		
10.1.7.4.2	Acceptance criteria	
10.1.7.3	Manual CSG selection with display restrictions in E-UTRA with ACSG list and OCSG list on USIN	
10.1.8.1	Definition and applicability	
10.1.8.1	Conformance requirement	
10.1.8.3	Test purpose	
10.1.8.4	Method of test	
10.1.8.4.1	Initial conditions	
10.1.8.4.2		
10.1.8.5	Acceptance criteria	
10.2	CSG list handling for UTRA	296
10.2.1	Manual CSG selection without display restrictions in UTRA with ACSG list and OCSG list on	204
10.2.1.1	USIM	
10.2.1.1	Definition and applicability	
10.2.1.2	Conformance requirement	
10.2.1.3	Test purpose	
10.2.1.4	Method of test	
10.2.1.4.1	Initial conditions	
10.2.1.4.2		
10.2.1.5	Acceptance criteria	
10.2.2	Manual CSG selection with display restrictions in UTRA with ACSG list and OCSG list on USIM	
10.2.2.1	Definition and applicability	
10.2.2.2	Conformance requirement	
10.2.2.3	Test purpose	
10.2.2.4	Method of test	
10.2.2.4.1	Initial conditions	300
10.2.2.4.2	Procedure	301
10.2.2.5	Acceptance criteria	
10.2.3	Manual CSG selection in UTRA with CSG list on USIM, success	303
10.2.3.1	Definition and applicability	303
10.2.3.2	Conformance requirement	303
10.2.3.3	Test purpose	303
10.2.3.4	Method of test	303
10.2.3.4.1	Initial conditions	303
10.2.3.4.2	Procedure	304
10.2.3.5	Acceptance criteria	305
11 NT	Consequence of the second consequence of the	20.4
	AS security context parameter handling	
11.1	NAS security context parameter handling when service "EMM Information" is available	
11.1.1	Definition and applicability	
11.1.2	Conformance requirement	
11.1.3	Test purpose	
11.1.4	Method of test	
11.1.4.1	Initial conditions	
11.1.4.2	Procedure	
11 1 5	Acceptance criteria	307

History.		317
Annex A	A (informative): Change history	314
11.4.5	Acceptance criteria	313
11.4.4.2	Procedure	
11.4.4.1	Initial conditions	
11.4.4	Method of test	
11.4.3	Test purpose	
11.4.2	Conformance requirement	312
11.4.1	Definition and applicability	311
11.4	EPS NAS Security Context Storage	
11.3.5	Acceptance criteria	311
11.3.4.2	Procedure	311
11.3.4.1	Initial conditions	310
11.3.4	Method of test	
11.3.3	Test purpose	
11.3.2	Conformance requirement	
11.3.1	changed Definition and applicability	
11.3	NAS security context parameter handling when service "EMM Information" is not available, IMSI	210
11.2.5	Acceptance criteria	309
11.2.4.2	Procedure	
11.2.4.1	Initial conditions	
11.2.4	Method of test	308
11.2.3	Test purpose	308
11.2.2	Conformance requirement	308
11.2.1	Definition and applicability	
	change	
11.2	NAS security context parameter handling when service "EMM Information" is not available, no IMSI	

Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- Y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document defines the application test specification.

The aim of the present document is to ensure interoperability between an UICC and a terminal independently of the respective manufacturer, card issuer or operator. The present document does not define any aspects related to the administrative management phase of the UICC. Any internal technical realisation of either the UICC or the Terminal is only specified where these are reflected over the interface.

Application specific details for applications residing on an UICC are specified in the respective application specific documents. The logical and physical Characteristics of the UICC Terminal interface is specified in document ETSI TS 102 221 [5]. The Universal Subscriber Identity Module (USIM)-application for 3G telecommunication networks is specified in document TS 31.102 [4].

1 Scope

The present document provides the UICC –Terminal Interface Conformance Test Specification between a 2G, 3G or 3G E-UTRAN terminal and the USIM (Universal Subscriber Identity Module) as an application on the UICC and the Terminal for a 2G, 3G or 3G E-UTRAN network operation:

- the default setting of the USIM;
- the applicability of each test case;
- the test configurations;
- the conformance requirement and reference to the core specifications;
- the test purposes; and
- a brief description of the test procedure and the specific acceptance criteria.

For the avoidance of doubt, references to clauses of ETSI TS 102 221 [5] include all the subclauses of that clause, unless specifically mentioned.

ETSI TS 102 221 [5] contains material that is outside of the scope of 3GPP requirements. A 3GPP ME may support functionality that is not required by 3GPP, but the requirements to do so are outside of the scope of 3GPP. Thus the present document does not contain tests for features defined in ETSI TS 102 221 [5] which are out of scope of 3GPP.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version in same release as the implementation release of the terminal under test applies.
- [1] Void
- [2] Void
- [3] 3GPP TS 23.038: "Alphabets and language-specific information".
- [4] 3GPP TS 31.102: "Characteristics of the USIM application".
- [5] If the device under test is a
 - R99 ME: ETSI TS 102 221 v3.18.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-4 ME: ETSI TS 102 221 v4.16.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-5 ME: ETSI TS 102 221 v5.10.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-6 ME: ETSI TS 102 221 v6.15.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-7 ME: ETSI TS 102 221 v7.17.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-8 ME: ETSI TS 102 221 v8.5.0: "UICC-Terminal interface; Physical and logical characteristics",
 - Rel-9 ME: ETSI TS 102 221 v9.2.0: "UICC-Terminal interface; Physical and logical characteristics"",

•	Rel-10 ME: ETSI TS 102 221 v10.0.0: "UICC-Terminal interface; Physical
	and logical characteristics",

- Rel-11 ME: ETSI TS 102 221 v11.1.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-12 ME: ETSI TS 102 221 v12.0.0: "UICC-Terminal interface; Physical and logical characteristics".
- [6] 3GPP TS 22.011: "Service accessibility".
- [7] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [8] 3GPP TS 22.024: "Description of Charge Advice Information (CAI)".
- [9] 3GPP TS 23.086: "Advice of Charge (AoC) Supplementary Service Stage 2".
- [10] 3GPP TS 24.086: "Advice of Charge (AoC) Supplementary Service Stage 3".
- [11] 3GPP TS 22.101: "Service aspects; Service principles".
- [12] 3GPP TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)".
- [13] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [14] 3GPP TS 23.003: "Numbering, Addressing and Identification".
- [15] 3GPP TS 44.018: "Mobile radio interface layer 3 specification; Radio Resource Control Protocol".
- [16] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core Network protocols; Stage 3".
- [17] 3GPP TS 24.080: "Mobile radio Layer 3 supplementary service specification; Formats and coding".
- [18] 3GPP TS 22.086: "Advice of Charge (AoC) supplementary services; Stage 1".
- [19] 3GPP TS 21.111: "USIM and IC card requirements".
- [20] 3GPP TS 25.331 "Radio Resource Control (RRC); Protocol Specification".
- [21] 3GPP TS 34.108 "Common test environments for User Equipment (UE) conformance testing".
- [22] 3GPP TS 51.010-1 "Mobile Station (MS) conformance specification; Part1: Conformance specification".
- [23] 3GPP TS 23.140 Release 6 "Multimedia Messaging Service (MMS); Functional description; Stage 2".
- [24] 3GPP TS 24.002 "GSM UMTS Public Land Mobile Network (PLMN) Access Reference Configuration".
- [25] 3GPP TS 23.060 "General Packet Radio Service (GPRS); Service description; Stage 2".
- [26] 3GPP TS 24.301: "Technical Specification Group Core Network and Terminals; Non-Access-Stratum (NAS) protocol for Evolved Packet Systems (EPS): Stage 3".
- [27] 3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".
- [28] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol specification".
- [29] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing"
- [30] 3GPP TS 36.523-2 " Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC);User Equipment (UE) conformance specification;Part 2: Implementation Conformance Statement (ICS) proforma specification"
- [31] 3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".

[32]	3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application".
[33]	3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[34]	3GPP TS 22.220: "Universal Mobile Telecommunications System (UMTS); Service requirements for Home Node B (HNB) and Home eNode B (HeNB)".
[35]	3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE); Procedures in idle mode ".

3 Definitions, symbols, abbreviations and coding

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

Application DF (ADF): entry point to an application

access conditions: set of security attributes associated with a file

access technology: Radio Access Technology of the Terminal (e.g. E-UTRAN, UTRAN or GSM)

application: consists of a set of security mechanisms, files, data and protocols (excluding transmission protocols)

application protocol: set of procedures required by the application

card session: link between the card and the external world starting with the ATR and ending with a subsequent reset or a deactivation of the card

current directory: latest MF or DF or ADF selected

current EF: latest EF selected

data object: information coded as TLV objects, i.e. consisting of a Tag, a Length and a Value part

Dedicated File (DF): file containing access conditions and, optionally, Elementary Files (Efs) or other Dedicated Files (DFs)

directory: general term for MF, DF and ADF

Elementary File (EF): file containing access conditions and data and no other files

file: directory or an organised set of bytes or records in the UICC

file identifier: 2 bytes which address a file in the UICC

function: function contains a command and a response pair

GSM session: that part of the card session dedicated to the GSM operation

Master File (MF): unique mandatory file containing access conditions and optionally DFs and/or Efs

MMS Relay/Server: MMS-specific network entity/application that is under the control of the MMS service provider

NOTE: An MMS Relay/Server transfers messages, provides operations of the MMS that are specific or required by the mobile environment and provides (temporary and/or persistent) storage services to the MMS

MMS User Agent: application residing on a UE or an external device that performs MMS-specific operations on a user"s behalf

normal USIM operation: relating to general, PIN related, LTE and/or 3G and/or GSM security and subscription related procedures

record: string of bytes within an EF handled as a single entity

record number: number, which identifies a record within an EF

record pointer: pointer, which addresses one record in an EF

terminal: device into which a UICC can be inserted and which is capable of providing access to 3GPP system services to users, either alone or in conjunction with a UICC

User Equipment (UE): terminal with a UICC inserted with one or several Universal Subscriber Identity Module(s) (USIM) available for access either E-UTRAN or UTRAN or GERAN or any combination.

USIM session: USIM session is a selectable application session for a USIM application

3.2 Symbols

For the purposes of the present document, the following symbols apply:

bx Bit x of byte (leftmost bit is MSB)

Bn Byte No. n

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

2G 2nd Generation 3G 3rd Generation

3GPP 3rd Generation Partnership Project

ACC Access Class
ACL APN Control List
ACM Accumulated Call Meter
ACMmax ACM maximal value
ACT Access Technology
ADF Application Dedicated File

AoC Advice of Charge

AoCC Advice of Charge Charging

APN Access Point Name

ASME Access Security Management Entity

ATR Answer To Reset

BCCH Broadcast Control Channel
BCD Binary Coded Decimal
BDN Barred Dialling Number

CCI Capability / Configuration1 Identifier CCI2 Capability / Configuration(2) Identifier

CCM Current Call Meter

CK Cipher key
CN Core Network
CS Circuit switched

CSG Closed Subscriber Group

DF Dedicated File EPC Evolved Packet Core

E-USS Evolved UMTS System Simulator

E-UTRA Evolved UTRA EF Elementary File

eFDD evolved Frequency Division Duplex

EMM EPS Mobility Management EMMI Electrical Man Machine Interface

EPS Evolved Packet System

eTDD evolved Time Division Duplex

Ext n Extension n

FDD Frequency Division Duplex FDN Fixed Dialling Number FPLMN Forbidden PLMN

GSM Global System for Mobile communications

HNB Home NodeB HeNB Home eNodeB HPLMN Home PLMN

ICC Integrated Circuit Card

ID Identifier

IEC International Electrotechnical Commission

IK Integrity key

IMSI International Mobile Subscriber Identity
ISO International Organization for Standardization

KSI Key Set Identifier
LAC Location Area Code
LAI Location Area Information
LSB Least Significant Bit
MCC Mobile Country Code

MF Master File

MM Multimedia Message MMI Man Machine Interface

MMS Multimedia Messaging Service

MNC Mobile Network Code
MS Mobile Station
MSB Most Significant Bit
NAS Non Access Stratum
NPI Numbering Plan Identifier
OFM Operational Feature Monitor
OSI Open System Interconnection

P1 Parameter 1 P2 Parameter 2 P3 Parameter 3

PIN Personal Identification Number PLMN Public Land Mobile Network

PS Packet switched

RACH Random Access Channel
RFU Reserved for Future Use
RRC Radio Resource Control
SFI Short File Identifier
SM Short Message
SMS Short Message Service
SS System Simulator (GSM)

TDD Time Division Duplex
TE Terminal Equipment
TLV Tag Length Value

TMSI Temporary Mobile Subscriber Identity

TON Type Of Number UE User Equipment

USIM Universal Subscriber Identity Module

USS UMTS System Simulator

UTRA Universal Terrestrial Radio Access
UTRAN UMTS Terrestrial Radio Access Network

VPLMN Visitor PLMN

3.4 Coding Conventions

For the purposes of the present document, the following coding conventions apply:

All lengths are presented in bytes, unless otherwise stated. Each byte B is represented by eight bits b8 to b1, where b8 is the most significant bit (MSB) and b1 is the least significant bit (LSB). In each representation, the leftmost bit is the MSB.

In the UICC, all bytes specified as RFU shall be set to '00' and all bits specifies as RFU shall be set to '0'. If the GSM and/or USIM application exists on a UICC or is built on a generic telecommunications card, then other values may apply for the non- GSM or non-USIM applications. The values will be defined in the appropriate specifications for such cards and applications. These bytes and bits shall not be interpreted by a Terminal in a GSM or 3G session.

The coding of all data objects in the present document is according to ETSI TS 102 221 [5]. All data objects are BER-TLV except if otherwise defined.

3.5 Generic procedures for E-UTRAN/UTRAN/GERAN/IMS

If a test case contains the statement "This test applies to Terminals accessing E-UTRAN", the procedures defined in TS 36.508 [29] shall be the basis for all performed procedures during the test. The procedures in subclause 4.5 describe the default behaviour of a conformant UE regarding the specified protocols to be used for E-UTRAN and the required procedures from the NAS.

If a test case contains the statement "This test applies to Terminals accessing UTRAN", the procedures defined in TS 34.108 [21], subclause 7.2 shall be the basis for all performed procedures during the test. The procedures in subclause 7 describe the default behaviour of a conformant UE regarding the specified protocols to be used for UTRAN and the required procedures from the NAS.

If a test case contains the statement "This test applies to Terminals accessing GERAN", the procedures defined in TS 51.010-1 [22], subclause 10 shall be the basis for all performed procedures during the test. The procedures in subclause 10 describe the default behaviour of a conformant UE regarding the specified protocols to be used for GERAN and the required procedures from the NAS.

3GPP TS 34.229-1[33], Annex C describes the generic test procedures for IMS.

3.6 Applicability

3.6.1 Applicability of the present document

The present document applies to a terminal equipment supporting the USIM.

3.6.2 Applicability to terminal equipment

The applicability to terminal equipment supporting the USIM is specified in table B.1, unless otherwise specified in the specific clause.

3.6.3 Applicability of the individual tests

Table B.1 lists the optional, conditional or mandatory features for which the supplier of the implementation states the support. As pre-condition the supplier of the implementation shall state the support of possible options in table A.1.

The "Release XY ME" columns shows the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [19], are used for the status column:

M mandatory – the capability is required to be supported.

O optional – the capability may be supported or not.

N/A not applicable – in the given context, it is impossible to use the capability.

X prohibited (excluded) – there is a requirement not to use this capability in the given context.

O.i qualified optional – for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.

conditional – the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities.

The "Additional test case execution recommendation" column shows the status of the entries as follows:

A applicable - the test is applicable according to the corresponding entry in the "Rxx ME" column

R redundant – the test has to be considered as redundant when the corresponding E-UTRAN/EPC related test of the present document has been validated and successfully executed. In that case the

requirement may be verified by means of the E-UTRAN/EPC functionality only.

AERi Additional test case Execution Recommendation – with respect to the above listed definitions of

("A") and ("R") the test is applicable ("A") or redundant ("R") depending on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax

"IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities.

References to items

Ci

For each possible item answer (answer in the support column) there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE: A.1/4 is the reference to the answer of item 4 in table A.1.

3.7 Table of optional features

Support of several features is optional or release dependent for the terminal equipment. However, if an ME states conformance with a specific 3GPP release, it is mandatory for the ME to support all mandatory functions of that release, as stated in table A.1.

The supplier of the implementation shall state the support of possible options in table A.1.

Table A.1: Options

Item	Option	Status	Support	Mnemonic
1	Support of CS	0		O_CS
2	Support of a feature requiring PIN2	0		O_PIN2_ENTRY_FEAT
	entry (such as e.g. AoC or FDN)			
3	Support of UTRAN access	C001		O_UTRAN
4	Support of GERAN access	C002		O_GERAN
5	Support of Fixed Dialling Numbers	0		O_FDN
6	Support of Advice of Charge Charging	0		O_AoCC
7	Support of Higher priority PLMN	C003		O_HPLMNwACT
'	selector with Access Technology	C003		O_FIFEMINWACT
	service (Implementation is optional			
	in Rel-6 and onwards)			
8	Support of local phonebook	C004		O_Local_PB
9	Support of global phonebook	C004		O_Global_PB
10	Support of storing received Class	0		O_Store_Received_SMS
	2 Short Messages in the USIM			
11	Support of MMS	0		O_MMS
12	Support of usage of MMS related	C005		O_MMS_USIM_DATA
	data stored on the USIM			
13	Supported of unselected user	0		O_NO_USER_MMS_CONF_SELEC
	MMS connectivity parameters	_		
14	Support of MMS notification	0		O_MMS_NOTIF_STORAGE
	storage on the USIM			
15	Support of ACL	C006		O_ACL
16	Support of SDN	0		O_SDN
17	Support of numerical entry of PLMN codes in EF PLMNwACT	0		O_EFPLMNwACT_numerical entry
18	Terminal does support speech call	0		O_Speech_Calls
19	Terminal support PIN MMI strings	0		O_PIN_MMI_Strings
20	Terminal does support eFDD	0		pc_eFDD
21	Terminal does support eTDD	0		pc_eTDD
22	Terminal does support CSG list handling (for E-UTRA)	0		pc_Allowed_CSG_list
23	Terminal supports SM-over-IP- receiver	0		pc_SM-over-IP receiver
24	Terminal supports reading SMS'	0		pc_USIM_EF_SMS_reading_support_if_USI
	stored in EF SMS on the USIM if			M_ISIM both present
	USIM and ISIM are present			
25	Terminal supports reading SMS'	0		pc_ISIM_EF_SMS_reading_support_if_USIM
	stored in EF SMS on the ISIM if			_ISIM both present
00	USIM and ISIM are present			O LABOR CMC CTODAGE
26	Terminal can store more than 1000 text messages	0		O_LARGE_SMS_STORAGE
27	Support for multiple PDN	0		pc_Multiple_PDN
21	connections	J		Po_ividitiple_i Div
28	Terminal does support CSG (for	0		pc_CSG
	UTRA)			
29	Support of manual CSG selection	0		pc_manual_CSG_selection
C001	If terminal is 3G terminal then M else			
C002	If terminal is 2G terminal then M else			
C003		Access 1	echnology	service is implemented according to Rel-6 or
C004	later then O else M	al ie impla	amontod or	ecording to Rel-6 or later) than Musica O
C004 C005				ccording to Rel-6 or later) then M, else O ed according to R99)) then N/A else if terminal
0000	is implemented according to Rel-4 th			ed according to (193)) then N/A else il telillillar
C006	If (A.1/20 is supported or A.1/21 is s			se O
0000	, 1/20 10 0apported of /t. 1/21 13 3	apportou)	CHOIL IN CIC	

3.8 Applicability table

Table B.1: Applicability of tests

Item	Description	Tested	Test	R99 ME	Rel-4	Rel-5	Rel-6	Rel-7	Rel-8	Rel-9	Rel-10	Rel-11	Rel-12	Network	Sup	Additional
		feature	sequence(s		ME	ME	ME	Dependenc	port	test case						
		defined)											y	-	execution
		in												_		recommenda
		Release														tion

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
1	UE identification by short IMSI	R99	5.1.1	M	M	M	M	M	M	M	M	M	M	UMTS System Simulator or System Simulator only		
2	UE identification by short IMSI using 2 digit MNC	R99	5.1.2	M	M	M	M	М	М	M	M	M	M	UMTS System Simulator or System Simulator only		
3	UE identification by "short" TMSI	R99	5.1.3	C004	C004	C004	C004	C004	C004	C004	C004	C004	C004	UMTS System Simulator or System Simulator only		
4	UE identification by "long" TMSI	R99	5.1.4	C004	C004	C004	C004	C004	C004	C004	C004	C004	C004	UMTS System Simulator or System Simulator only		
5	UE identification by long IMSI, TMSI updating after key set identifier assignment	R99	5.1.5	C004	C004	C004	C004	C004	C004	C004	C004	C004	C004	UMTS System Simulator or System Simulator only		
6	UE identification by short IMSI when accessing E- UTRAN/EPC	Rel-8	5.1.6	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
7	UE identification by short IMSI using 2 digit MNC when accessing E- UTRAN/EPC	Rel-8	5.1.7	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
8	UE identification after changed IMSI with service "EMM Information" not available	Rel-8	5.1.8	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
9	UE identification by GUTI when using USIM with service "EMM Information" not available	Rel-8	5.1.9	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
10	UE identification by GUTI when using USIM with service "EMM Information" available	Rel-8	5.1.10	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
11	Access Control information handling	R99	5.2.1	C024	C024	C024	C024	C024	C024	C024	C024	C024	C024	UMTS System Simulator or System Simulator only		
12	Access Control information handling for E-UTRAN/EPC	Rel-8	5.2.2	N/A	N/A	N/A	N/A	N/A	C036	C036	C036	C036	C036	E-UTRAN System Simulator only		
13	Entry of PIN	R99	6.1.1	М	M	М	М	М	М	M	М	М	M	No		
14	Change of PIN	R99	6.1.2	М	М	М	М	М	М	М	М	М	M	No		
15	Unblock PIN	R99	6.1.3	C025	C025	C025	C025	C025	C025	C025	C025	C025	C025	No		
16	Entry of PIN2	R99	6.1.4	C005	C005	C005	C005	C005	C005	C005	C005	C005	C005	No		
17	Change of PIN2	R99	6.1.5	C005	C005	C005	C005	C005	C005	C005	C005	C005	C005	No		
18	Unblock PIN2	R99	6.1.6	C026	C026	C026	C026	C026	C026	C026	C026	C026	C026	No		
19	Replacement of PIN	R99	6.1.7	М	M	M	М	М	М	M	M	M	M	No		
20	Change of Universal PIN	R99	6.1.8	М	М	М	М	М	М	М	М	М	М	No		
21	Unblock Univesal PIN	R99	6.1.9	М	М	М	М	М	М	М	М	М	М	No		
22	Entry of PIN on multi- verification capable UICCs	Rel-4	6.1.10	N/A	М	М	M	M	M	M	М	М	M	No		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
23	Change of PIN on multi-verification capable UICCs	Rel-4	6.1.11	N/A	М	М	M	М	М	М	M	М	М	No		
24	Unblock PIN on multi-verification capable UICCs	Rel-4	6.1.12	N/A	C025	C025	C025	No								
25	Entry of PIN2 on multi-verification capable UICCs	Rel-4	6.1.13	N/A	C005	C005	C005	No								
26	Change of PIN2 on multi-verification capable UICCs	Rel-4	6.1.14	N/A	C005	C005	C005	No								
27	Unblock PIN2 on multi-verification capable UICCs	Rel-4	6.1.15	NA/	C026	C026	C026	No								
28	Replacement of PIN with key reference "07"	Rel-4	6.1.16	N/A	M	М	M	M	M	М	M	М	M	No		
29	Terminal and USIM with FDN enabled, EF _{ADN} readable and updateable	R99	6.2.1	C006	N/A	N/A	N/A	UMTS System Simulator or System Simulator only								
30	Terminal and USIM with FDN disabled	R99	6.2.2	C006	C006	C006	C006	C006	C006	C006	C006	C006	C006	UMTS System Simulator or System Simulator only		
31	Enabling, disabling and updating FDN	R99	6.2.3	C006	C006	C006	C006	C006	C006	C006	C006	C006	C006	UMTS System Simulator or System Simulator only		
32	Terminal and USIM with FDN enabled, EF _{ADN} readable and updateable (Rel-4 and onwards)	Rel-4	6.2.4	N/A	C006	C006	C006	UMTS System Simulator or System Simulator only								

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
33	AoC not supported by USIM	R99	6.4.1	C007	C007	C007	C007	C007	C007	C007	C007	C007	C007	UMTS System Simulator or System Simulator only		
34	Maximum frequency of ACM updating	R99	6.4.2	C008	C008	C008	C008	C008	C008	C008	C008	C008	C008	UMTS System Simulator or System Simulator only		
35	Call terminated when ACM greater than ACMmax	R99	6.4.3	C008	C008	C008	C008	C008	C008	C008	C008	C008	C008	UMTS System Simulator or System Simulator only		
36	Response codes of increase command of ACM	R99	6.4.4	C008	C008	C008	C008	C008	C008	C008	C008	C008	C008	UMTS System Simulator or System Simulator only		
37	Adding FPLMN to the forbidden PLMN list	R99	7.1.1	M	M	M	М	M	M	М	M	M	М	UMTS System Simulator or System Simulator only		
38	UE updating forbidden PLMNs	R99	7.1.2	M	M	M	М	M	M	М	M	M	М	UMTS System Simulator or System Simulator only		
39	UE deleting forbidden PLMNs	R99	7.1.3	M	M	M	M	M	M	M	M	M	M	UMTS System Simulator or System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
40	Adding FPLMN to the forbidden PLMN list when accessing E-UTRAN	Rel-8	7.1.4	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
41	UE updating forbidden PLMNs when accessing E- UTRAN	Rel-8	7.1.5	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
42	UE deleting forbidden PLMNs when accessing E- UTRAN	Rel-8	7.1.6	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
43	UE updating the User controlled PLMN selector list	R99	7.2.1	C022	C022	C022	C022	C022	C022	C022	C022	C022	C022	No		
44	UE recognising the priority order of the User controlled PLMN selector list with the same access technology	R99	7.2.2	M	M	M	M	M	М	M	M	M	M	UMTS System Simulator or System Simulator only		
45	UE recognising the priority order of the User controlled PLMN selector list using an ACT preference	R99	7.2.3	C009	C009	C009	C009	C009	C009	C009	C009	C009	C009	UMTS System Simulator and System Simulator		
46	User controlled PLMN selector handling for E- UTRAN	Rel-8	7.2.5	N/A	N/A	N/A	N/A	N/A	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	No		
47	UE recognising the priority order of the User controlled PLMN selector list using an ACT preference – UTRAN/E-UTRAN	Rel-8	7.2.6	N/A	N/A	N/A	N/A	N/A	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	E-UTRAN and UMTS System Simulator		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
48	UE recognising the priority order of the User controlled PLMN selector list using an ACT preference – GSM/E-UTRAN	Rel-8	7.2.7	N/A	N/A	N/A	N/A	N/A	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	C022 AND C027	E-UTRAN and System Simulator		
49	UE recognising the priority order of the Operator controlled PLMN selector list	R99	7.3.1	M	M	M	M	M	M	M	M	M	M	UMTS System Simulator or System Simulator only		
50	UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list	R99	7.3.2	M	M	M	M	M	M	M	M	M	M	UMTS System Simulator or System Simulator only		
51	UE recognising the priority order of the Operator controlled PLMN selector list when accessing E-UTRAN	Rel-8	7.3.3	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
52	UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list - E-UTRAN	Rel-8	7.3.4	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
53	UE recognising the search period of the Higher priority PLMN	R99	7.4.1	C010	C010	C010	C010	C010	C010	C010	C010	C010	C010	UMTS System Simulator or System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
54	GSM/UMTS dual mode Ues recognising the search period of the Higher priority PLMN	R99	7.4.2	C003	C003	C003	C003	C003	C003	C003	C003	C003	C003	UMTS System Simulator and System Simulator		
55	UE recognising the search period of the Higher priority PLMN – E-UTRAN	Rel-8	7.4.3	N/A	N/A	N/A	N/A	N/A	C010 AND C027	C010 AND C027	C010 AND C027	C010 AND C027	C010 AND C027	E-UTRAN System Simulator only		
56	E-UTRAN/EPC capable Ues recognising the search period of the Higher priority PLMN – GSM/E-UTRAN	Rel-8	7.4.4	N/A	N/A	N/A	N/A	N/A	C003 AND C027	C003 AND C027	C003 AND C027	C003 AND C027	C003 AND C027	E-UTRAN and System Simulator		
57	E-UTRAN/EPC capable Ues recognising the search period of the Higher priority PLMN – UTRAN/E-UTRAN	Rel-8	7.4.5	N/A	N/A	N/A	N/A	N/A	C011 AND C027	C011 AND C027	C011 AND C027	C011 AND C027	C011 AND C027	E-UTRAN and UMTS System Simulator		
58	Recognition of a previously changed phonebook	R99	8.1.1	C012	C012	C012	C012	C012	C012	C012	C012	C012	C012	No		
59	Update of the Phonebook Synchronisation counter (PSC)	R99	8.1.2	C012	C012	C012	C012	C012	C012	C012	C012	C012	C012	No		
60	Handling of BCD number/ SSC content extension	R99	8.1.3.1	N/A	N/A	C013	C013	C013	C013	C013	C013	C013	C013	No		
61	Phonebook selection	R99	8.1.4	N/A	N/A	C014	C014	C014	C014	C014	C014	C014	C014	No		
62	Local Phonebook handling	R99	8.1.5	N/A	N/A	C012	C012	C012	C012	C012	C012	C012	C012	No		
63	Correct storage of a SM on the USIM	R99	8.2.1	C015	C015	C015	C015	C015	C015	C015	C015	C015	C015	UMTS System Simulator or System Simulator only		AER003

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
64	Correct reading of a SM on the USIM	R99	8.2.2	C015	C015	C015	C015	C015	C015	C015	C015	C015	C015	UMTS System Simulator or System Simulator only		AER004
65	SM memory capacity exceeded handling	R99	8.2.3	C035	C035	C035	C035	C035	C035	C035	C035	C035	C035	UMTS System Simulator or System Simulator only		
66	Correct storage of an SM on the UICC	Rel-7	8.2.4.A	N/A	N/A	N/A	N/A	C032	C032	C032	C032	C032	C032	UMTS System Simulator		
67	Correct storage of an SM on the UICC	Rel-8	8.2.4.B	N/A	N/A	N/A	N/A	N/A	C031	C031	C031	C031	C031	E-UTRAN System Simulator only		
68	Correct reading of a SM on the USIM if USIM and ISIM are present	Rel-7	8.2.5	N/A	N/A	N/A	N/A	C033	C033	C033	C033	C033	C033	No		
69	Correct reading of a SM on the ISIM if USIM and ISIM are present	Rel-7	8.2.6	N/A	N/A	N/A	N/A	C034	C034	C034	C034	C034	C034	No		
70	UE recognising the priority order of MMS Issuer Connectivity Parameters	Rel-4	8.3.1	N/A	C016	C017	C017	C017	C017	C017	C017	C017	C017	UMTS System Simulator or System Simulator only		
71	UE recognising the priority order of MMS User Connectivity Parameters	Rel-4	8.3.2	N/A	C016	C017	C017	C017	C017	C017	C017	C017	C017	UMTS System Simulator or System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
72	UE recognising the priority order of MMS Issuer Connectivity Parameters over the MMS User Connectivity Parameters	Rel-4	8.3.3	N/A	C016	C017	C017	C017	C017	C017	C017	C017	C017	UMTS System Simulator or System Simulator only		
73	Usage of MMS notification	Rel-4	8.3.4	N/A	C018	C018	C018	UMTS System Simulator or System Simulator only								
74	UICC presence detection	Rel-5	8.4	N/A	N/A	M	M	M	M	M	M	M	M	UMTS System Simulator or System Simulator only		AER001
75	UICC presence detection when connected to E- UTRAN/EPC	Rel-8	8.5	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
76	Access Point Control List handling for terminals supporting ACL	R99	9.1.1	N/A	N/A	C019	C019	C019	C019	C019	C019	C019	C019	UMTS System Simulator or System Simulator only		AER002
77	Network provided APN handling for terminals supporting ACL	R99	9.1.2	N/A	N/A	C019	C019	C019	C019	C019	C019	C019	C019	UMTS System Simulator or System Simulator only		AER002
78	Access Point Control List handling for terminals not supporting ACL	R99	9.1.3	N/A	N/A	C020	C020	C020	C020	C020	C020	C020	C020	UMTS System Simulator or System Simulator only		AER002

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
79	Access Point Control List handling for terminals supporting ACL connected to E- UTRAN/EPC	Rel-8	9.1.4	N/A	N/A	N/A	N/A	N/A	C029	C029	C029	C029	C029	E-UTRAN System Simulator only		
80	Void		9.1.5													
81	Void		9.1.6													
82	Service Dialling Numbers handling	R99	9.2	N/A	N/A	N/A	C021	C021	C021	C021	C021	C021	C021	UMTS System Simulator or System Simulator only		
83	Automatic CSG selection in E-UTRA with CSG list on USIM, success	Rel-8	10.1.1	N/A	N/A	N/A	N/A	N/A	C028	C028	C028	C028	C028	E-UTRAN System Simulator only		
84	Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM	Rel-8	10.1.2	N/A	N/A	N/A	N/A	N/A	C028	C028	C028	C028	C028	E-UTRAN System Simulator only		
85	Manual CSG selection in E-UTRA with CSG list on USIM, success	Rel-8	10.1.3	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	C038	E-UTRAN System Simulator only		
86	Manual CSG selection in E-UTRA with CSG list on USIM, rejected	Rel-8	10.1.4	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	C038	E-UTRAN System Simulator only		
87	CSG selection in E- UTRA with no CSG list on USIM, no IMSI change	Rel-8	10.1.5	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	C038	E-UTRAN System Simulator only		
88	CSG selection in E- UTRA with no CSG list on USIM, with IMSI change	Rel-8	10.1.6	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	C038	E-UTRAN System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
89	NAS security context parameter handling when service "EMM Information" is available	Rel-8	11.1	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
90	NAS security context parameter handling when service "EMM Information" is not available, no IMSI change	Rel-8	11.2	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
91	NAS security context parameter handling when service "EMM Information" is not available, IMSI changed	Rel-8	11.3	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		
92	CSG Type display test	Rel-8												TBD		
93	Home NodeB Name display test	Rel-8												TBD		
94	Manual CSG selection without display restrictions in E-UTRA with ACSG list and OCSG list on USIM	Rel-9	10.1.7	N/A	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	E-UTRAN System Simulator only		
95	Manual CSG selection with display restrictions in E- UTRA with ACSG list and OCSG list on USIM	Rel-9	10.1.8	N/A	N/A	N/A	N/A	N/A	N/A	C038	C038	C038	C038	E-UTRAN System Simulator only		
96	Manual CSG selection without display restrictions in UTRA with ACSG list and OCSG list on USIM	Rel-9	10.2.1	N/A	N/A	N/A	N/A	N/A	N/A	C037	C037	C037	C037	UTRAN System Simulator only		

Item	Description	Tested feature defined in Release	Test sequence(s)	R99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Rel-9 ME	Rel-10 ME	Rel-11 ME	Rel-12 ME	Network Dependenc y	Sup port	Additional test case execution recommenda tion
97	Manual CSG selection with display restrictions in UTRA with ACSG list and OCSG list on USIM	Rel-9	10.2.2	N/A	N/A	N/A	N/A	N/A	N/A	C037	C037	C037	C037	UTRAN System Simulator only		
98	Manual CSG selection in UTRA with CSG list on USIM, success	Rel-8	10.2.3	N/A	N/A	N/A	N/A	N/A	C037	C037	C037	C037	C037	UTRAN System Simulator only		
99	EPS NAS Security Context Storage	Rel-8	11.4	N/A	N/A	N/A	N/A	N/A	C027	C027	C027	C027	C027	E-UTRAN System Simulator only		

Table B.1: Applicability of tests (continued)

C001 C002 C003 C004	(NOT A.1/3) AND A.1/4 A.1/1 AND A.1/3 A.1/3 AND A.1/4 IF (C001 OR C002) THEN M ELSE N/A	(NOT O_UTRAN) AND O_GERAN O_CS AND O_UTRAN O_UTRAN AND O_GERAN ((NOT O_UTRAN) AND O_GERAN) OR (O_CS AND O_UTRAN)
C005 C006	IF A.1/2 THEN M ELSE N/A IF (C001 OR C002) AND A.1/5 AND A.1/18 THEN M ELSE N/A	O_PIN2_ENTRY_FEAT (((NOT O_UTRAN) AND O_GERAN) OR (O_CS AND O_UTRAN) AND O_FDN AND O_Speech_Calls
C007	IF (C001 OR C002) AND A.1/6 AND A.1/18 THEN M ELSE N/A	(((NOT O_UTRAN) AND O_GERAN) OR (O_CS AND O_UTRAN)) AND O_AoCC AND O_Speech_Calls
C008	IF (C001 OR C002) AND A.1/6 AND A.1/18 THEN O.1 ELSE N/A	(((NOT O_UTRAN) AND O_GERAN) OR (O_CS AND O_UTRAN)) AND O_AoCC AND O_Speech_Calls
C009 C010	IF C003 THEN M ELSE N/A IF (C001 OR (A.1/3 AND (!A.1/4)) OR (C003 AND (!A.1/7))) THEN M ELSE N/A	O_UTRAN AND O_GERAN (((NOT O_UTRAN) AND O_GERAN) OR (O_UTRAN AND (NOT O_GERAN)) OR (O_UTRAN AND O_GERAN AND (NOT O_HPLMNwACT)))
C011	IF C003 AND A.1/7 THEN M ELSE O	O_UTRAN AND O_GERAN AND O_HPLMNwACT
C012 C013 C014 C015 C016	IF A.1/8 THEN M ELSE N/A IF A.1/9 THEN M ELSE N/A IF A.1/8 AND A.1/9 THEN M ELSE N/A IF A.1/10 THEN M ELSE N/A IF A.1/11 AND A.1/12 AND A.1/13 THEN M ELSE N/A IF A.1/11 AND A.1/13 THEN M ELSE N/A	 O_Local_PB O_Global_PB O_Local_PB AND O_Global_PB O_Store_Received_SMS O_MMS AND O_MMS_USIM_DATA AND O_NO_USER_MMS_CONF_SELEC O_MMS AND O_NO_USER_MMS_CONF_SELEC
C018 C019 C020 C021 C022 C023 C024	IF A.1/11 AND A.1/14 THEN M ELSE N/A IF A.1/15 THEN M ELSE N/A IF (NOT A.1/15) M ELSE N/A IF A.1/16 THEN M ELSE N/A IF A.1/17 THEN M ELSE N/A IF A.1/18 THEN M ELSE N/A IF C004 AND A.1/18 THEN M ELSE N/A IF A.1/19 THEN 'Expected Sequence A' M ELSE	O_MMS AND O_MMS_NOTIF_STORAGE O_ACL NOT O_ACL O_SDN O_EFPLMNwACT_numerical entry O_Speech_Calls (((NOT O_UTRAN) AND O_GERAN) OR (O_CS AND O_UTRAN)) AND O_Speech_Calls O_PIN_MMI_Strings
C026 C027 C028 C029 C030 C031	'Expected Sequence B' M IF A1/2 AND A.1/19 THEN 'Expected Sequence A' M ELSE IF A.1/2 'Expected Sequence B' M ELSE N/A IF (A.1/20 OR A.1/21) THEN M ELSE N/A IF (A.1/20 OR A.1/21) AND A.1/22 THEN M ELSE N/A IF (A.1/20 OR A.1/21) AND A.1/15 THEN M ELSE N/A Void IF (A.1/10 AND A.1/23 AND (A.1/20 OR A.1/21)) THEN M ELSE N/A	(O_PIN2_ENTRY_FEAT AND O_PIN_MMI_Strings) OR O_PIN2_ENTRY_FEAT pc_eFDD OR pc_eTDD (pc_eFDD OR pc_eTDD) AND pc_Allowed_CSG_list (pc_eFDD OR pc_eTDD) AND O_ACL O_Store_Received_SMS AND pc_SM-over-IP receiver AND (pc_eFDD OR pc_eTDD)
C032	IF (A.1/10 AND AND A.1/23 AND A.1/3) THEN M ELSE $_{\mbox{\scriptsize NI/}\Delta}$	S_Store_Received_SMS AND pc_SM-over-IP receiver AND

4 Default Values

All tests defined in the subsequent clauses apply to Terminals using card types specified in ETSI TS 102 221 [5], unless otherwise stated.

The following sequence of tests confirms:

- a) the correct interpretation of data read from the USIM (Universal Subscriber Identification Module) by the Terminal;
- b) the correct writing of data to the USIM by the Terminal;
- c) the initiation of appropriate procedures by the Terminal;
- d) High level protocols.

All tests apply to the USIM application on the UICC.

A USIM simulator will be required as part of the USS. Alternatively, to perform the logical tests, USIMs programmed with specific data may be used. The USIM data is not defined within the initial conditions of the tests unless it differs from the default values defined below.

4.1 Definition of default values for USIM-Terminal interface testing (Default UICC)

A USIM containing the following default values is used for all tests of this present document unless otherwise stated.

For each data item, the logical default values and the coding within the elementary files (EF) of the USIM follow.

NOTE 1: Bx represents byte x of the coding.

NOTE 2: Unless otherwise defined, the coding values are hexadecimal.

4.1.1 Values of the EF's (Default UICC)

4.1.1.1 EF_{IMSI} (IMSI)

Logically: 2460813579

Coding: B1 B2 B3 B4 B5 B6 B7 B8 B9 Hex 06 21 64 80 31 75 F9 FF FF

4.1.1.2 EF_{AD} (Administrative Data)

Logically: Normal operation

OFM to be deactivated by the Terminal

MNC: 3 digit

Coding: B1 B2 B3 B4 Hex 00 00 00 03

4.1.1.3 EF_{LOCI} (Location Information)

Logically: LAI-MCC: 246

LAI-MNC: 081 LAI-LAC: 0001 TMSI: "FF .. FF" Coding: В1 B2 В3 B4 **B5** B6 **B7** B8 B9 B10 **B11** FF FF FF 80 00 01 Hex FF 42 16 FF 00

4.1.1.4 EF_{Kevs} (Ciphering and Integrity Keys)

Logically: Key Set Identifier KSI: 0x

Ciphering Keys CK: xx Integrity Keys IK: xx

Coding: **B**1 B2 **B**3 **B16 B17 B18** B30 **B31 B32 B33** Hex 0x XX XX XX XXXX XXXX XX XX

4.1.1.5 EF_{KevsPS} (Ciphering and Integrity Keys for Packet Switched domain)

Logically: Key Set Identifier KSI: 0x

Ciphering Keys CK: xx Integrity Keys IK: xx

Coding: **B**1 B2 **B3 B16 B17 B18 B31 B32 B33** Hex 0xXX XXXX XXXX XXXX XX . . .

4.1.1.6 EF_{ACC} (Access Control Class)

Logically: One and only one access class from 0-9, e.g. class 7 for which the coding is "00 80".

4.1.1.7 EF_{FPLMN} (Forbidden PLMNs)

Besides of the 4 mandatory EF_{FPLMN} 2 optional EF_{FPLMN} are defined according to TS 31.102 [4], subclause 4.2.16.

Logically: PLMN1: 234 001 (MCC MNC)

PLMN2: 234 002 PLMN3: 234 003 PLMN4: 234 004 PLMN5: 234 005 PLMN6: 234 006

Coding: **B1** B2 ВЗ B4 **B5** B6 **B7 B8** B9 B10 **B11** B12 32 14 00 24 32 Hex 32 00 34 00 32 44 00

B13 B14 B15 B16 B17 B18 32 54 00 32 64 00

4.1.1.8 EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xx1x xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xxx1

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

4.1.1.9 EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers (FDN) disabled.

Barred Dialling Numbers (BDN) disabled.

APN Control list (ACL) disabled

Coding: B1

binary 0000 0000

The coding of EF_{EST} shall conform with the capabilities of the USIM, unused Bits are set to '0'.

4.1.1.10 EF_{ADN} (Abbreviated Dialling Number)

Logically:

At least 10 records, each non empty record unique.

Record 1: Length of alpha identifier: 32 characters;

Alpha identifier: "ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEF";

Length of BCD number: "03";

TON and NPI: Telephony and Unknown;

Dialled number: 123; CCI: None; Ext1: None.

Record 1:

Codina: B46 **B1** B2 **B**3 B32 **B33 B34 B35 B36 B37 B38 B39** Hex 41 42 43 46 03 81 21 F3 FF FF FF FF

4.1.1.11 EF_{PLMNwACT} (User Controlled PLMN Selector with Access Technology)

Besides of the 8 mandatory PLMNwACT entries 4 optional PLMNwACT entries are defined according to TS 31.102 [4], subclause 4.2.5. The Radio Access Technology identifier for the first two PLMN (1st PLMN and 2nd PLMN) are set to both UTRAN and GSM, all other PLMN to UTRAN only.

Logically: 1st PLMN: 244 081 (MCC MNC)

1st ACT: **UTRAN** 2nd PLMN: 244 081 2nd ACT: **GSM** 3rd PLMN: 244 082 3rd ACT: **UTRAN** 4th PLMN: 244 082 4th ACT: **GSM** 5th PLMN: 244 003 5th ACT: **UTRAN** 6th PLMN: 244 004 6th ACT: **UTRAN** 7th PLMN: 244 005 7th ACT: **UTRAN** 8th PLMN: 244 006 8th ACT: **UTRAN** 9th PLMN: 244 007 9th ACT: **UTRAN** 10th PLMN: 244 008 10th ACT: **UTRAN** 11th PLMN: 244 009 11th ACT: **UTRAN**

12th PLMN: 244 010

		12 th	ACT:	UTR.	AN										
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
Hex	42	14	80	80	00	42	14	80	00	80	42	24	80	80	00
	B16	B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	42	24	80	00	80	42	34	00	80	00	42	44	00	80	00
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40	B41	B42	B43	B44	B45
	42	54	00	80	00	42	64	00	80	00	42	74	00	80	00
	B46	B47	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	42	84	00	80	00	42	94	00	80	00	42	04	10	80	00

4.1.1.12 EF_{OPLMNwACT} (Operator Controlled PLMN Selector with Access Technology)

The Radio Access Technology identifier for the first PLMN is set to both UTRAN and GSM, the other remaining PLMNs to UTRAN only.

Logica	ally:	1 st PLMN 1 st ACT: 2 nd PLMN 2 nd ACT: 3 rd PLMN 3 rd ACT: 4 th PLMN 4 th ACT: 5 th PLMN 5 th ACT: 6 th PLMN 6 th ACT: 7 th PLMN 7 th ACT: 8 th PLMN 8 th ACT:	UTRA GSM : 254 00 UTRA	01 02 AN 03 AN 04 AN 05 AN 06 AN	MNC)					
Coding: Hex	B01 52 B11 52 B21 52 B31 52	B02 14 B12 24 B22 44 B32 64	B03 00 B13 00 B23 00 B33 00	B04 80 B14 80 B24 80 B34 80	B05 00 B15 00 B25 00 B35	B06 52 B16 52 B26 52 B36 52	B07 14 B17 34 B27 54 B37 74	B08 00 B18 00 B28 00 B38 00	B09 00 B19 80 B29 80 B39 80	B10 80 B20 00 B30 00 B40

4.1.1.13 Void

4.1.1.14 PIN

Key reference: 01

Logically: 2468

Coding: B1 B2 В3 B4 B5 B6 В7 B8 32 FF FF FF FF Hex 34 36

4.1.1.15 PIN2

Key reference: 81

Logically: 3579

Coding: В1 B2 ВЗ B4 B6 **B**5 B7 **B8** FF FF FF FF 39 Hex 33 35 37

4.1.1.16 Unblock PIN

Key reference: 01

Logically: 13243546

B2 ВЗ **B**5 В7 B8 Coding: **B1** B4 B6 Hex 31 33 32 34 33 35 34 36

4.1.1.17 Unblock PIN2

Key reference: 81

Logically: 08978675

Coding: В1 B2 ВЗ B4 **B5 B6** B7 В8 Hex 30 38 39 37 38 36 37 35

4.1.1.18 Other Values of the USIM

All other values of Efs provided by the USIM shall be set to the default values defined in the annex E of TS 31.102 [4]. Some Efs (like the GSM Access files) may necessary for some tests and apply only to those test cases.

4.1.1.19 EF_{PSLOCI} (Packet Switch Location Information)

Logically: RAI-MCC: 246

RAI-MNC: 081 RAI-LAC: 0001 RAI-RAC: 05

P-TMSI: "FF...FF"
P-TMSI signature value: "FF...FF"

Coding: B2 В3 **B**5 В9 B10 B11 **B**1 **B4** B6 **B7** B8 Hex FF FF FF FF FF FF FF 42 16 80 00

Coding: B12 B13 B14 Hex 01 05 00

4.1.1.20 Universal PIN

Key reference: 11

Logically: 2839

Coding: B2 ВЗ В5 В6 В7 B8 B1 B4 Hex 32 38 33 39 FF FF FF FF

4.1.1.21 Unblock Universal PIN

Key reference: 11

Logically: 02030405

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex								

4.2 Definition of FDN UICC

The FDN test cases require a different configuration than the one described in subclause 4.1. For that purpose a default FDN UICC is defined. In general the values of the FDN UICC are identical to the default UICC, with the following exceptions.

4.2.1 Values of the EF's (FDN UICC)

4.2.1.1 EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available. Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xx1x xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

4.2.1.2 EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers enabled.

Barred Dialling Numbers disabled. APN Control list (ACL) disabled.

Coding: B1

Binary 0000 0001

The coding of EF_{EST} shall conform with the capabilities of the USIM, unused Bits are set to '0'...

4.2.1.3 EF_{FDN} (Fixed Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;

Alpha identifier: "FDN111"; Length of BCD number: "06";

TON and NPI: Telephony and International;

Dialled number: +1357924680;

CCI2: None; Ext2: None.

Coding for record 1:

В1 B2 В3 B10 B13 R4 **B**5 **B6 B7 B8** В9 **B11 B12** Hex 46 44 4E 31 31 31 06 91 31 75 29 64 80 **B14 B15 B16** B17 **B18 B19** B20 FF FF FF FF FF FF FF

Record 2: Length of alpha identifier: 6 characters; Alpha identifier: "FDN222";

Length of BCD number: "04";

TON and NPI: Telephony and Unknown;

Dialled number: 24680; CCI2: None; Ext2: None.

Coding for record 2:

В1 B2 В3 B4 **B**5 B6 B7 В8 В9 B10 B11 **B12** B13 42 F0 FF FF Hex 46 44 4E 32 32 32 04 81 86

B14 B15 B16 B17 B18 B19 B20 FF FF FF FF FF FF

Record 3: Length of alpha identifier: 6 characters;

Alpha identifier: "FDN333"; Length of BCD number: "0B";

TON and NPI: Telephony and International; bialled number: +12345678901234567890;

CCI2: None; Ext2: None.

Coding for record 3:

В9 B1 B2 **B**3 B4 **B**5 B6 B7 B8 B10 B11 **B12 B13** Hex 46 44 4E 33 33 0B 91 21 43 65 87 09 **B14 B15 B16 B17 B18** B19 B20 21 43 65 87 09 FF FF

4.2.1.4 EF_{ECC} (Emergency Call Codes)

Logically: Emergency call code: "122";

Emergency call code alpha identifier: "TEST";

Emergency call Service Category: Mountain Rescue.

B7 Coding: **B**1 B2 **B3** B4 B5 B6 B8 21 F2 FF 54 45 53 Hex 54 10

4.2.1.5 Other Values of the USIM

All other values of Efs provided by the USIM shall be set to the default values defined in the annex E of TS 31.102 [4]. Some Efs (like the GSM Access files) may necessary for some tests and apply only to those test cases.

4.3 Void

4.4 Definition of E-UTRAN/EPC UICC

The E-UTRAN/EPC test cases require a different configuration than the one described in subclause 4.1. For that purpose a default E-UTRAN/EPC UICC is defined. In general the values of the E-UTRAN/EPC UICC are identical to the default UICC, with the following exceptions:

4.4.1 EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available
Fixed dialling numbers available
Barred dialling numbers available
The GSM Access available
The Group Identifier level 1 and level 2 not available
Service n 33 (Packed Switched Domain) shall be set to '1'
Enabled Services Table available
EPS Mobility Management Information available

EPS Mobility Management Information available Allowed CSG Lists and corresponding indications

Byte: **B**3 **B**5 B7 **B8** B₂ **B6** Binary: xx1x xx11 XXXX XXXX xxxx 1x00 xxxx x1xx xxxx xx11 XXXX XXXX XXXX XXXX XXXX XXXX B11 XXXX XXXX XXXX XXXX xx11 xxxx

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

4.4.2 EF_{EPSLOCI} (EPS Information)

Logically: 24608100010266431122

Last visited registered TAI: 246/081/0001 EPS update status: not updated

Byte: **B**1 B2 **B3 B4 B**5 B6 **B7** B8 **B10** B11 B9 Hex: 0B F6 42 16 80 00 01 02 66 43 11 B12 B13 **B14 B18 B15 B16** B17 22 80 00 01 01 42 16

4.4.3 EF_{PLMNwACT} (User Controlled PLMN Selector with Access Technology)

Besides of the 8 mandatory PLMNwACT entries 4 optional PLMNwACT entries are defined according to TS 31.102 [4], subclause 4.2.5. The Radio Access Technology identifiers are set either to E-UTRAN only, UTRAN only or GSM only.

Logically: 1st PLMN: 244 081 (MCC MNC)

1st ACT: E-UTRAN 2nd PLMN: 244 081 2nd ACT: **GSM** 3rd PLMN: 244 083 3rd ACT: **E-UTRAN** 4th PLMN: 244 082 4th ACT: **GSM** 5th PLMN: 244 003 5th ACT: E-UTRAN 6th PLMN: 244 004 6th ACT: **UTRAN** 7th PLMN: 244 005 7th ACT: UTRAN 8th PLMN: 244 081 8th ACT: **UTRAN** 9th PLMN: 244 007 9th ACT: **UTRAN** 10th PLMN: 244 008 10th ACT: E-UTRAN 11th PLMN: 244 009

		12 th	ACT: PLMN: ACT:	UTRA 244 0 E-UT	10										
Codir Hex	B1 42	B2 14	B3 80	B4 40	B5 00	B6 42	B7 14	B8 80	B9 00	B10 80	B11 42	B12 34	B13 80	B14 40	B15 00
	B16 42	B17 24	B18 80	B19 00	B20 80	B21 42	B22 34	B23 00	B24 40	B25 00	B26 42	B27 44	B28 00	B29 80	B30 00
	B31 42	B32 54	B33 00	B34 80	B35 00	B36 42	B37 14	B38 80	B39 80	B40 00	B41 42	B42 74	B43 00	B44 80	B45 00
	B46 42	B47 84	B48 00	B49 40	B50 00	B51 42	B52 94	B53 00	B54 80	B55 00	B56 42	B57 04	B58 10	B59 40	B60 00

4.4.4 EF_{OPLMNwACT} (Operator Controlled PLMN Selector with Access Technology)

The Radio Access Technology identifier for the first PLMN is set to both UTRAN and GSM, the other remaining PLMNs to UTRAN only or E-UTRAN only.

Logica	ally:	1 st PLMN 1 st ACT: 2 nd PLMN 2 nd ACT: 3 rd PLMN 3 rd ACT: 4 th PLMN 4 th ACT: 5 th PLMN 6 th ACT: 7 th PLMN 7 th ACT: 8 th PLMN 8 th ACT:	E-UT 254 0 GSM 1: 254 0 E-UT 254 0 UTRA UTRA UTRA UTRA	01 02 RAN 03 RAN 04 AN 05 AN 06 AN	MNC)					
Coding: Hex	B01 52 B11 52 B21 52 B31 52	B02 14 B12 24 B22 44 B32 64	B03 00 B13 00 B23 00 B33 00	B04 40 B14 40 B24 80 B34 80	B05 00 B15 00 B25 00 B35 00	B06 52 B16 52 B26 52 B36 52	B07 14 B17 34 B27 54 B37 74	B08 00 B18 00 B28 00 B38 00	B09 00 B19 40 B29 80 B39 80	B10 80 B20 00 B30 00 B40

4.4.5 EF_{ACSGL} (Allowed CSG Lists)

For testing 2 CSG lists are defined and stored together in record one.

Logically:

1st CSG list

PLMN:	246 081 (MCC MNC)	
	1 st CSG Type indication	02
1 st CSG list	1 st CSG HNB Name indication	02
	1 st CSG CSG ID:	02 (27bit)
1 st CSG list	2 nd CSG Type indication	03
	2 nd CSG HNB Name indication	03
1 st CSG list	2 nd CSG CSG ID:	03 (27bit)

2nd CSG list

PLMN: 244 081 (MCC MNC)

2nd CSG list 1st CSG Type indication
2nd CSG list 1st CSG HNB Name indication
2nd CSG list 1st CSG CSG ID: 08 08

08 (27bit)

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	A0	15	80	03	42	16	80	81	06	02
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	02	00	00	00	5F	81	06	03	03	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	00	00	7F	A0	0D	80	03	42	14	80
	B31	B32	B33	B34	B35	B36	B37	B38	B39	
	81	06	08	08	00	00	01	1F	FF	FF
	Вхх									
	FF									

All other records are empty.

EF_{CSGT} (CSG Type) 4.4.6

Record 1:

Logically: Group ONE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	4F	00	4E	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	FF								

Record 2:

Logically: Group TWO

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	54	00	57	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	4F	FF								

Record 3:

Logically: Group THREE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	54	00	48	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	52	00	45	00	45	FF	FF	FF	FF	FF

Record 4:

Logically: Group FOUR

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	15	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	46	00	4F	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	55	00	52	FF						

Record 5:

Logically: Group FIVE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	15	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	46	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	56	00	45	FF						

Record 6:

Logically: Group SIX

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	53	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	58	FF								

Record 7:

Logically: Group SEVEN

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	53	00	45	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	56	00	45	00	4E	FF	FF	FF	FF	FF

Record 8:

Logically: Group EIGHT

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	45	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	47	00	48	00	54	FF	FF	FF	FF	FF

4.4.7 EF_{HNBN} (Home (e)NodeB Name)

Record 1:

Logically: Home ONE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	4F	00	4E	00	45	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 2:

Logically: Home TWO

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	54	00	57	00	4F	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 3:

Logically: Home THREE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	54	00	48	00	52	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	00	45	FF						

Record 4:

Logically: Home FOUR

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	13	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	46	00	4F	00	55	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	52	FF								

Record 5:

Logically: Home FIVE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	13	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	46	00	49	00	56	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	FF								

Record 6:

Logically: Home SIX

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	53	00	49	00	58	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 7:

Logically: Home SEVEN

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	53	00	45	00	56	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	00	4E	FF						

Record 8:

Coding:

00

Logically: Home EIGHT

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	45	00	49	00	47	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	48	00	54	FF						

4.4.8 EF_{EPSNSC} (EPS NAS Security Context)

Logically: Key Set Identifier KSI_{ASME}: '07'(no key available)

ASME Key (KSI_{ASME}): 32 byte key, any value'FF' (not available)

Uplink NAS count: '00' Downlink NAS count: '01' Identifiers of selected NAS '01'

integrity and encryption

84

algorithm

01

Byte:	B1	B2	B3	B4	B5	B6	B7	B8		B39
Coding:	A0	34	80	01	07	81	20	XX		XX
Byte:	B40	B41	B42	B43	B44	B45	B46	B47	B48	B49
Coding:	82	04	00	00	00	00	83	04	00	00
Byte:	B50	B51	B52	B53	B54					

4.5 Definition of E-UTRAN/EPC ISIM-UICC

01

01

4.5.1 Applications on the E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC shall contain a USIM as defined in clause 4.5.2 and an ISIM as defined in clause 4.5.3.

4.5.2 Default USIM values on E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC related test cases require a USIM to access the E-UTRAN/EPC. For this purpose the USIM shall be configured as defined in clause 4.4.

4.5.3 Default ISIM values on E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC shall contain an ISIM for IMS access with the following values:

4.5.3.1 EF_{AD} (Administrative Data)

Logically: Normal Operation

Byte:	B1	B2	В3
Coding:	00	00	00

4.5.3.2 EF_{IST} (ISIM Service Table)

Logically:

(Service 01) P-CSCF Address: available

(Service 02) Generic Bootstrapping: not available

(Service 03) HTTP Digest: not available

(Service 04) GBA Based Local Key Establishment Mechanism: not available

(Service 05) Support for P-CSCF discovery for IMS local breakout: not available

(Service 06) Short Message Storage (SMS): available

(Service 07) Short Message Status Reports (SMSR): available

(Service 08) Support for SM-over-IP: available

Byte	B1
Coding:	111x xxx1

4.5.3.3 EF_{IMPI} (IMS private user identity)

Logically: 001010123456789@test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	1D	30	30	31	30	31	30	31	32
,	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	33	34	35	36	37	38	39	40	74	65
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	73	74	2E	33	67	70	70	2E	63	6F
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	6D	FF								

4.5.3.4 EF_{DOMAIN} (Home Network Domain Name)

Logically: test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	0D	74	65	73	74	2E	33	67	70
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	70	2E	63	6F	6D	FF	FF	FF	FF	FF

4.5.3.5 EF_{IMPU} (IMS public user identity)

Record 1:

Logically: sip:001010123456789@ims.mnc246.mcc081.3gppnetwork.org

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	35	73	69	70	3A	30	30	31	30
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	31	30	31	32	33	34	35	36	37	38
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	39	40	69	6D	73	2E	6D	6E	63	32
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	34	36	2E	6D	63	63	30	38	31	2E
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	33	67	70	70	6E	65	74	77	6F	72
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	6B	2E	6F	72	67	FF	FF	FF	FF	FF

Record 2:

Logically: sip:+11234567890@test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	1E	73	69	70	3A	2B	31	31	32
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	33	34	35	36	37	38	39	30	40	74
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	65	73	74	2E	33	67	70	70	2E	63
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	6F	6D	FF							
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	FF									
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	FF									

Record 3:

Logically: sip: user@test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	16	73	69	70	3A	75	73	65	72
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	40	74	65	73	74	2E	33	67	70	70
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	2E	63	6F	6D	FF	FF	FF	FF	FF	FF
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	FF									
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	FF									
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	FF									

4.5.3.6 EF_{P-CSCF} (P-CSCF ADDRESS)

Logically:

Address Type: FQDN

P-CSCF Address: pcscf1.anyims.test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	1C	00	70	63	73	63	66	31	2E
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	61	6E	79	69	6D	73	2E	74	65	73
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	74	2E	33	67	70	70	2E	63	6F	6D
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	FF									

Note: This EF does not apply for 3GPP and shall not be used by a terminal using a 3GPP access network or a 3GPP Interworking WLAN.

4.5.3.7 EF_{SMS} (Short Message Service)

At least 10 records.

All records shall be empty.

Logically: Status byte set to empty.

Record 1-x $(x \ge 10)$:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Coding:	00	FF	FF	FF	 FF								

4.5.3.8 EF_{SMSR} (Short message status reports)

This EF shall contain as many records as $\text{EF}_{\text{SMS}}.$

All records shall be empty.

Logically: Status byte set to empty.

Record 1-x $(x \ge 10)$:

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	00	FF								
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	FF									
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

4.5.3.9 EF_{SMSP} (Short message service parameters)

Logically:

Record 1:

Record length: 28 bytes Parameter Indicators:

TP-Destination Address: Parameter absent
TS-Service Centre Address: Parameter present
TP-Protocol Identifier: Parameter absent
TP-Data Coding Scheme: Parameter absent
TP-Validity Period: Parameter absent

TS-Service Centre Address:

TON: International Number

NPI: "ISDN / telephone numbering plan" Dialled number string: "112233445566778"

Byte:	B1	B2	B3		B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23
Coding:	FD	FF	FF		FF	09	91	11	22	33	44	55	66	77	F8
	B24	B25	B26	B27	B28										
	FF	FF	FF	FF	FF										

All other records shall be empty.

4.5.3.10 EF_{SMSS} (SMS Status)

Logically: Last used TP-MR set to "00".

Memory capacity available (flag unset b1="1").

Byte:	B1	B2
Coding:	00	FF

4.5.4 Default values at DF_TELECOM

4.5.4.1 EF_{PSISMSC} (Public Service Identity of the SM-SC)

1 record only.

Logically: Record 1:

Public Service Identity of the SM-SC: tel:+112233445566778

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	14	74	65	6C	3A	2B	31	31	32
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	32	33	33	34	34	35	35	36	36	37
	B21	B22	B23	B24	B25	B26	B27	B28		Bxx
	37	38	FF	FF	FF	FF	FF	FF		FF

4.6 Definition of ACSGL/OCSGL E-UTRAN/EPC UICC

The ACSGL/OCSGL E-UTRAN/EPC test cases require a different configuration than the one described in subclause 4.4. For that purpose a default ACSGL/OCSGL E-UTRAN/EPC UICC is defined. In general the values of the ACSGL/OCSGL E-UTRAN/EPC UICC are identical to the E-UTRAN/EPC UICC, with the following exceptions:

4.6.1 EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available

The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

EPS Mobility Management Information available Allowed CSG Lists and corresponding indications Operator CSG Lists and corresponding indications

Support of CSG Display Control

Byte:	B1	B2	B3	B4	B5	B6	B7	B8
Binary:	xx1x xx11	XXXX XXXX	xxxx 1x00	xxxx x1xx	xxxx xx11	XXXX XXXX	XXXX XXXX	XXXX XXXX

B9	B10	B11	B12
XXXX XXXX	XXXX XXXX	xx11 xxxx	xxxx 1x1x

The coding of EF_{UST} shall conform to the capabilities of the USIM used.

4.6.2 EF_{AD} (Administrative Data)

Logically: Normal operation

OFM to be deactivated by the Terminal

MNC: 3 digit

all available CSGs can be displayed without any restriction (B3)

Coding:	B1	B2	B3	B4
Hex	00	00	00	03

4.6.3 EF_{OCSGL} (Operator CSG Lists)

For testing 2 CSG lists are defined and stored together in record one.

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC)

1st CSG list 1st CSG Type indication 01 1st CSG list 1st CSG HNB Name indication 01

1st CSG list 1st CSG CSG ID: 01 (27bit)

 1^{st} CSG list 2^{nd} CSG Type indication 05 1^{st} CSG list 2^{nd} CSG HNB Name indication 05

1st CSG list 2nd CSG CSG ID: 05 (27bit)

CSG display indicator: All available CSG Ids can be displayed during a manual CSG selection 00

2nd CSG list

PLMN: 244 081 (MCC MNC)

2nd CSG list 1st CSG Type indication 07 2nd CSG list 1st CSG HNB Name indication 07

2nd CSG list 1st CSG CSG ID: 07 (27bit)

CSG display indicator: All available CSG Ids can be displayed during a manual CSG selection 00

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	A0	18	80	03	42	16	80	81	06	01
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	01	00	00	00	3F	81	06	05	05	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	00	00	BF	82	01	00	A0	10	80	03
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	42	14	80	81	06	07	07	00	00	00
	B41	B42	B43	B44						
	FF	82	01	00						

All other records are empty.

4.6.4 EF_{OCSGT} (Operator CSG Type)

Record 1:

Logically: OMode ONE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	4F	00	4D	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	64	00	65	00	20	00	4F	00	4E	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	FF								

Record 2:

Logically: OMode TWO

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	4F	00	4D	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	64	00	65	00	20	00	54	00	57	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	4F	FF								

Record 3:

Logically: OMode THREE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	4F	00	4D	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	64	00	65	00	20	00	54	00	48	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	52	00	45	00	45	FF	FF	FF	FF	FF

Record 4:

Logically: OMode FOUR

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	15	80	00	4F	00	4D	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	64	00	65	00	20	00	46	00	4F	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	55	00	52	FF						

Record 5:

Logically: Group FIVE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	15	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	46	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	56	00	45	FF						

Record 6:

Logically: Group SIX

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	13	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	53	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	58	FF								

Record 7:

Logically: Group SEVEN

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	53	00	45	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	56	00	45	00	4E	FF	FF	FF	FF	FF

Record 8:

Logically: Group EIGHT

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	89	17	80	00	47	00	72	00	6F	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	75	00	70	00	20	00	45	00	49	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	47	00	48	00	54	FF	FF	FF	FF	FF

4.6.5 EF_{OHNBN} (Operator Home (e)NodeB Name)

Record 1:

Logically: Home ONE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	4F	00	4E	00	45	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 2:

Logically: Home TWO

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	54	00	57	00	4F	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 3:

Logically: Home THREE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	54	00	48	00	52	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	00	45	FF						

Record 4:

Logically: Home FOUR

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	13	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	46	00	4F	00	55	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	52	FF								

Record 5:

Logically: Home FIVE

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	13	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	46	00	49	00	56	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	FF								

Record 6:

Logically: Home SIX

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	11	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	53	00	49	00	58	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

Record 7:

Logically: Home SEVEN

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	53	00	45	00	56	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	45	00	4E	FF						

Record 8:

Logically: Home EIGHT

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	15	80	00	48	00	6F	00	6D	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	65	00	20	00	45	00	49	00	47	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	48	00	54	FF						

5 Subscription related tests

5.1 IMSI / TMSI handling

5.1.1 UE identification by short IMSI

5.1.1.1 Definition and applicability

The IMSI is used for unique identification of the UE by UTRAN/ a GERAN. The IMSI is stored in the USIM and read during the UICC-Terminal initialisation procedure.

5.1.1.2 Conformance requirement

After successful completion of the RRC Connection Establishment procedure (in case of Terminals accessing UTRAN) respectively after receipt of an IMMEDIATE ASSIGNMENT message (in case of a Terminal accessing a GERAN) the UE shall send PAGING RESPONSE containing the IMSI of the USIM, which is less than the maximum length.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.008 [16], subclause 10.5.1.4;
- ETSI TS 102 221 [5], subclause 14.1.1.

5.1.1.3 Test purpose

- 1) To verify that the Terminal uses the IMSI of the USIM.
- 2) To verify that the Terminal can handle an IMSI of less than the maximum length.
- 3) To verify that the READ EF_{IMSI} command is performed correctly by the terminal

5.1.1.4 Method of test

5.1.1.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN) / SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default UICC is installed into the Terminal and the UE is powered on.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

5.1.1.4.2 Procedure

Expected Sequence A:

a) The USS sends PAGING TYPE 1 to the UE using the IMSI stored in the USIM.

- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) After receipt of a PAGING RESPONSE from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

Expected Sequence B:

- a) The SS sends PAGING REQUEST to the UE using the IMSI stored in the USIM.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a PAGING RESPONSE from the UE, the SS sends CHANNEL RELEASE to the UE.

5.1.1.5 Acceptance criteria

After step b) the UE shall send PAGING RESPONSE to the USS/SS containing the IMSI stored in the USIM.

5.1.2 UE identification by short IMSI using a 2 digit MNC

5.1.2.1 Definition and applicability

In some networks the IMSI identifying the UTRAN/ GERAN can be consistence of a 2 digit MNC. The IMSI is stored in the USIM and read during the UICC-Terminal initialisation procedure.

5.1.2.2 Conformance requirement

After successful completion of the RRC Connection Establishment procedure (in case of Terminals accessing UTRAN) respectively after receipt of an IMMEDIATE ASSIGNMENT message (in case of a Terminal accessing a GERAN) the UE shall send PAGING RESPONSE containing the IMSI of the USIM.

Reference:

- TS 31.102 [4], subclause 4.2.18;
- TS 24.008 [16], subclause 10.5.1.4.

5.1.2.3 Test purpose

1) To verify that the Terminal can handle an IMSI consistence of a 2 digit MNC.

5.1.2.4 Method of test

5.1.2.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN) / SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/81/0001.

Access control: unrestricted.

The default UICC is used with the following exception:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 246

LAI-MNC: 81 LAI-LAC: 0001 TMSI: "FF.. FF"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	FF	FF	FF	FF	42	F6	18	00	01	FF	00
EF _{IMSI} (II	MSI)										

Logically: 246813579

Coding: **B1** B2 **B3** B4 B5 B6 **B7 B8 B9** FF 05 29 18 53 97 FF FF Hex 64

EF_{AD} (Administrative Data)

Logically: Normal operation

OFM to be deactivated by the Terminal

MNC: 2 digit

Coding: B1 B2 B3 B4 Hex 00 00 00 02

The UICC is installed into the Terminal and the UE is powered on.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

5.1.2.4.2 Procedure

Expected Sequence A:

- a) The USS sends PAGING TYPE 1 to the UE using the IMSI stored in the USIM.
- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) After receipt of a PAGING RESPONSE from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

Expected Sequence B:

- a) The SS sends PAGING REQUEST to the UE using the IMSI stored in the USIM.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a PAGING RESPONSE from the UE, the SS sends CHANNEL RELEASE to the UE.

5.1.2.5 Acceptance criteria

After step b) the UE shall send PAGING RESPONSE to the USS/SS containing the IMSI stored in the USIM.

5.1.3 UE identification by "short" TMSI

5.1.3.1 Definition and applicability

The TMSI is temporarily used for identification of the UE by UTRAN/ a GERAN. It will have been previously assigned by the network. The TMSI is stored in the USIM by the Terminal and read during the USIM-Terminal initialisation procedure.

NOTE: According to TS 23.003 [14], subclause 2.4, a TMSI always consists of 8 digits (4 bytes). With this tests the handling of a TMSI with leading zeros will be tested. The term "short" TMSI is used in order to distinguish between the tests as defined in subclauses 5.1.3 and 5.1.4.

5.1.3.2 Conformance requirement

After successful completion of the RRC Connection Establishment procedure (in case of Terminals accessing UTRAN) respectively after receipt of an IMMEDIATE ASSIGNMENT message (in case of a Terminal accessing a GERAN) the UE shall send PAGING RESPONSE containing the TMSI of the USIM. According to subclause 10.3.1.17 in TS 25.331 [20] the TMSI has a fixed length of 32 bit (8 digits) when used inside the PAGING TYPE 1/ PAGING REQUEST message.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.008 [16], subclause 10.5.1.4.
- TS 25.331 [20], subclause 10.3.1.17

5.1.3.3 Test purpose

- 1) To verify that the Terminal uses the TMSI stored in the USIM.
- 2) To verify that the Terminal can handle a TMSI of less than maximum length.

5.1.3.4 Method of test

5.1.3.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN) / SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default UICC is used with the following exception:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 246

LAI-MNC: 081 LAI-LAC: 0001

TMSI: "00002143"

Coding: **B1** B2 В3 B4 **B**5 B6 **B7** B8 **B9** B10 B11 Hex 00 00 21 43 16 80 00 01 FF 00 42

The UICC is installed into the Terminal and the UE is powered on.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

5.1.3.4.2 Procedure

Expected Sequence A:

- a) The USS sends PAGING TYPE 1 to the UE using the TMSI stored in the USIM matching the required length of 8 digits.
- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.

c) After receipt of a PAGING RESPONSE from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

Expected Sequence B:

- a) The SS sends PAGING REQUEST to the UE using the TMSI stored in the USIM matching the required length of 8 digits.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a PAGING RESPONSE from the UE, the SS sends CHANNEL RELEASE to the UE.

5.1.3.5 Acceptance criteria

After step b) the UE shall send PAGING RESPONSE to the USS/SS containing the TMSI stored in the USIM.

5.1.4 UE identification by "long" TMSI

5.1.4.1 Definition and applicability

The TMSI is temporarily used for identification of the UE by UTRAN/ a GERAN. It will have been previously assigned by the network. The TMSI is stored in the USIM by the Terminal and read during the USIM-Terminal initialisation procedure.

NOTE: According to TS 23.003 [14], subclause 2.4, a TMSI always consists of 8 digits (4 bytes). With this tests the handling of a new assigned TMSI will be tested. The term "long" TMSI is used in order to distinguish between the tests as defined in subclauses 5.1.3 and 5.1.4.

5.1.4.2 Conformance requirement

After successful completion of the RRC Connection Establishment procedure (in case of Terminals accessing UTRAN) respectively after receipt of an IMMEDIATE ASSIGNMENT message (in case of a Terminal accessing a GERAN) the UE shall send PAGING RESPONSE containing the correct TMSI stored in the USIM.

According to subclause 10.3.1.17 in TS 25.331 [20] the TMSI has a fixed length of 32 bit (8 digits) when used inside the PAGING TYPE 1/PAGING REQUEST message.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.008 [16], subclause 10.5.1.4.
- TS 25.331 [20], subclause 10.3.1.17

5.1.4.3 Test purpose

- 1) To verify that the Terminal uses the TMSI stored in the USIM.
- 2) To verify that the Terminal can handle a TMSI of maximum length.
- 3) To verify that the Terminal does not respond to page requests containing a previous TMSI.

5.1.4.4 Method of test

5.1.4.4.1 Initial conditions

Prior to this test, the Terminal shall have been operated with a USIM containing TMSI "2143". This may be achieved by executing the previous test (5.1.3) prior to this test. Only under this condition will test purpose 3) be verified.

The USS (in case of a Terminal accessing UTRAN) / SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default UICC is used with the following exception:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 246

LAI-MNC: 081 LAI-LAC: 0001 TMSI: "21430

TMSI: "21430000"

Coding: **B**1 B2 **B3 B4 B**5 B6 **B7** B8 **B9 B10** B11 43 00 00 16 80 00 01 Hex 21 42 FF 00

The UICC is installed into the Terminal and the UE is powered on.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

5.1.4.4.2 Procedure

Expected Sequence A:

- a) The USS sends PAGING TYPE 1 to the UE using the TMSI "00002143".
- b) The USS sends PAGING TYPE 1 to the UE using the TMSI stored in the USIM.
- c) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- d) After receipt of a PAGING RESPONSE from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

Expected Sequence B:

- a) The SS sends PAGING REQUEST to the UE using the TMSI "00002143".
- b) The SS sends PAGING REQUEST to the UE using the TMSI stored in the USIM.
- c) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- d) After receipt of a PAGING RESPONSE from the UE, the SS sends CHANNEL RELEASE to the UE.

5.1.4.5 Acceptance criteria

- 1) After step a) the UE shall not respond to the PAGING TYPE 1 respectively to the PAGING REQUEST.
- 2) After step c) the UE shall send PAGING RESPONSE to the USS/SS containing the TMSI stored in the USIM.

5.1.5 UE identification by long IMSI, TMSI updating and key set identifier assignment

5.1.5.1 Definition and applicability

The IMSI and TMSI are used for identification of the UE by UTRAN/ a GERAN. They are read from the USIM during the USIM-Terminal initialisation procedure. Within the authentication procedure the UTRAN sends a key set identifier respectively a GERAN sends a ciphering key sequence number to the UE. In addition the network may allocate a new TMSI to the UE. Key set identifier and TMSI are stored in the USIM after UTRAN call termination and/or at a 3G

session termination. Ciphering key sequence number and TMSI are stored in the USIM after GERAN call termination and/or at a 3G session termination.

NOTE: According to TS 24.008 [16] the term KSI may be used instead of the term ciphering key sequence number which is used inside the MM message AUTHENTICATION REQUEST.

5.1.5.2 Conformance requirement

 After successful completion of the RRC Connection Establishment procedure (in case of Terminals accessing UTRAN) respectively after receipt of an IMMEDIATE ASSIGNMENT message (in case of a Terminal accessing a GERAN) the UE shall send PAGING RESPONSE containing the correct IMSI stored in the USIM.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.008 [16], subclause 10.5.1.4.
- 2) After call termination the USIM shall contain the key set identifier (ciphering key sequence number) and TMSI received by the UE during the authentication and TMSI reallocation procedures.

Reference:

- TS 31.102 [4], subclauses 5.1.2, 5.2.5 and 5.2.6;
- TS 21.111 [19], subclause 10.1.
- TS 24.008 [16], subclause 4.3.2.4.
- 3) After call termination the Terminal shall have updated EFLOCI.

Reference:

- ETSI TS 102 221 [5], subclause 14.1.2.

5.1.5.3 Test purpose

- 1) To verify that the Terminal uses the IMSI stored in the USIM.
- 2) To verify that the Terminal does not respond to page requests containing a previous IMSI.
- 3) To verify that the Terminal can handle an IMSI of maximum length.
- 4) To verify that the Terminal correctly updates the key set identifier respectively the ciphering key sequence number at call termination.
- 5) To verify that the Terminal correctly updates the TMSI at call termination.
- 6) To verify that the UPDATE EF_{LOCI} command is performed correctly by the terminal

5.1.5.4 Method of test

5.1.5.4.1 Initial conditions

Prior to this test, the Terminal shall have been operated with a USIM containing IMSI "2460813579". This may be achieved by executing the previous test (5.1.4) prior to this test. Only under this condition will test purpose 2) be verified.

The USS (in case of a Terminal accessing UTRAN) / SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default UICC is used with the following exception:

EF_{IMSI} (IMSI)

Logically:		24608	11111111	11					
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9
Hex	08	29	64	80	11	11	11	11	11

EF_{Kc} (GSM Ciphering Key Kc)

Logica	ally:		ing key King key se		umber n: (xx 01			
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9
Hex	xx	xx	xx	xx	xx	xx	xx	xx	01

The UICC is installed into the Terminal and the UE is powered on.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

5.1.5.4.2 Procedure

Expected Sequence A:

- a) The USS sends PAGING TYPE 1 to the UE using the IMSI "2460813579".
- b) The USS sends PAGING TYPE 1 to the UE using the IMSI stored in the USIM.
- c) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- d) After receipt of a PAGING RESPONSE from the UE, the USS sends AUTHENTICATION REQUEST to the UE containing Key Set Identifier KSI (ciphering key sequence number) set to binary 010.
- e) After receipt of AUTHENTICATION RESPONSE from the UE and subsequent completion of the security procedure on RRC, the USS sends TMSI REALLOCATION COMMAND to the UE containing TMSI "32547698".
- f) Within 5 s after receipt of TMSI REALLOCATION COMPLETE from the UE, the USS sends RRC CONNECTION RELEASE to the UE.
- g) To allow examination of the values in the USIM after connection termination the UE shall not be soft powered down. If the test is performed with a USIM simulator, the simulation is stopped. If the test is performed with a USIM, the UICC is removed without soft powering down the UE. If this is not possible, the power supply of the Terminal is removed and then the UICC removed.

Expected sequence B:

- a) The SS sends PAGING REQUEST to the UE using the IMSI "2460813579".
- b) The SS sends PAGING REQUEST to the UE using the IMSI stored in the USIM.
- c) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- d) After receipt of a PAGING RESPONSE from the UE, the SS sends AUTHENTICATION REQUEST to the UE containing ciphering key sequence number set to binary 010.
- e) After receipt of AUTHENTICATION RESPONSE from the UE, the SS sends TMSI REALLOCATION COMMAND to the UE containing TMSI "32547698".

- f) Within 5 s after receipt of TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- g) To allow examination of the values in the USIM after connection termination the UE shall not be soft powered down. If the test is performed with a USIM simulator, the simulation is stopped. If the test is performed with a USIM, the UICC is removed without soft powering down the UE. If this is not possible, the power supply of the Terminal is removed and then the UICC removed.

5.1.5.5 Acceptance criteria

- 1) After step a) the UE shall not respond to the PAGING TYPE 1/ PAGING REQUEST.
- 2) After step c) the UE shall send PAGING RESPONSE to the USS/SS containing the IMSI stored in the USIM.
- 3) After step e) the UE shall send TMSI REALLOCATION COMPLETE to the USS/SS.
- 4) After step g) the USIM shall contain the following values:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 246 LAI-MNC: 081

TMSI: "32547698"

Coding: **B**1 B2 **B3 B4 B5** B6 **B8 B9 B10** B11 B7 Hex 32 54 76 98 42 16 80 XX XX 00

In case of a Terminal accessing UTRAN:

EF_{Keys} (Ciphering and Integrity Keys)

Logically: Key Set Identifier KSI: 02

Ciphering Keys CK: xx (result of the authentication algorithm)
Integrity Keys IK: xx (result of the authentication algorithm)

В1 B2 **B3 B32 B33** Coding: **B16** B17 **B18 B31** Hex 02 XX XX XX XX XX XX XX XX

In case of a Terminal accessing a GERAN:

EF_{Kc} (GSM Ciphering Key Kc)

Logically: Ciphering key Kc: xx (result of the authentication algorithm)

Ciphering key sequence number n: 02

Coding: **B**1 R2 **B3** R4 **B**5 B6 **B9** B7 **B8** Hex 02 ХX ХX Хx XX XX XX XX XX

5.1.6 UE identification by short IMSI when accessing E-UTRAN/EPC

5.1.6.1 Definition and applicability

Paging for EPS services using IMSI is an abnormal procedure used for error recovery in the network. The IMSI is used for unique identification of the UE by an E-UTRAN/EPC if there is no GUTI available. The IMSI is stored in the USIM and read during the UICC-Terminal initialisation procedure.

5.1.6.2 Conformance requirement

Only after reception of a Paging message containing the IMSI stored in the USIM the UE shall send the *RRCConnectionRequest* message.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- ETSI TS 102 221 [5], subclause 14.1.1;
- TS 24.301 [26], subclause 5.6.2.2.2.

5.1.6.3 Test purpose

- 1) To verify that the Terminal uses the IMSI of the USIM.
- 2) To verify that the Terminal can handle an IMSI of less than the maximum length.
- 3) To verify that the READ EF_{IMSI} command is performed correctly by the terminal.
- 4) To verify that the terminal does not respond to a Paging message containing an IMSI not stored in the USIM.

5.1.6.4 Method of test

5.1.6.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.
- Access control: unrestricted.

The default E-UTRAN UICC is installed into the Terminal and the UE is powered on.

5.1.6.4.2 Procedure

- a) The UE performs Attach procedure to E-USS.
- b) The E-USS sends *Paging* to the UE using the IMSI 24608122222.
- c) The E-USS sends *Paging* to the UE using the IMSI stored in the USIM.
- d) After receipt of a *RRCConnectionRequest* message from the UE, the E-USS sends *RRCConnectionSetup* message to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- e) After the EPS attach procedure the E-USS sends RRCConnectionRelease to the UE.

5.1.6.5 Acceptance criteria

- 1) After step b) the UE shall not send RRCConnectionRequest to the E-USS.
- 2) After step c) the UE shall send *RRCConnectionRequest* to the E-USS.
- 3) After step d) the UE performs the EPS attach procedure.

5.1.7 UE identification by short IMSI using a 2 digit MNC when accessing F-UTRAN/FPC

5.1.7.1 Definition and applicability

In some networks the IMSI identifying the E-UTRAN/EPC can be consistence of a 2 digit MNC. Paging for EPS services using IMSI is an abnormal procedure used for error recovery in the network. The IMSI is used for unique identification of the UE by an E-UTRAN/EPC if there is no GUTI available. The IMSI is stored in the USIM and read during the UICC-Terminal initialisation procedure.

5.1.7.2 Conformance requirement

Only after reception of a Paging message containing the IMSI stored in the USIM the UE shall send the *RRCConnectionRequest* message.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- ETSI TS 102 221 [5], subclause 14.1.1;
- TS 24.301 [26], subclause 5.6.2.2.2.

5.1.7.3 Test purpose

- 1) To verify that the Terminal uses the IMSI of the USIM.
- 2) To verify that the Terminal can handle an IMSI consistence of a 2 digit MNC.
- 3) To verify that the READ EF_{IMSI} command is performed correctly by the terminal.
- 4) To verify that the terminal does not respond to a Paging message containing an IMSI not stored in the USIM.

5.1.7.4 Method of test

5.1.7.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/81/0001.
- Access control: unrestricted.

The default UICC is used with the following exception:

EF_{IMSI} (IMSI)

Logically: 246813579

Coding: B2 В3 B4 B5 B6 В8 **B9** 53 97 FF FF Hex 05 29 64 18 FF

EF_{AD} (Administrative Data)

Logically: Normal operation

OFM to be deactivated by the Terminal

MNC: 2 digit

Coding: B1 B2 B3 B4 Hex 00 00 00 02

The UICC is installed into the Terminal and the UE is powered on.

5.1.7.4.2 Procedure

- a) The UE performs Attach procedure to E-USS.
- b) The E-USS sends *Paging* to the UE using the IMSI 24608122222.
- c) The E-USS sends Paging to the UE using the IMSI stored in the USIM.

- d) After receipt of a *RRCConnectionRequest* message from the UE, the E-USS sends *RRCConnectionSetup* message to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- e) After the EPS attach procedure the E-USS sends RRCConnectionRelease to the UE.

5.1.7.5 Acceptance criteria

- 1) After step b) the UE shall not send RRCConnectionRequest to the E-USS.
- 2) After step c) the UE shall send RRCConnectionRequest to the E-USS.
- 3) After step d) the UE performs the EPS attach procedure.

5.1.8 UE identification after changed IMSI with service "EMM Information" not available

The attach procedure is used to attach for packet services in EPS. With a successful attach procedure, a context is established for the UE in the MME, and a default bearer is established between the UE and the PDN GW, thus enabling always-on IP connectivity to the UE. The network may also initiate the activation of dedicated bearers as part of the attach procedure.

5.1.8.2 Conformance requirement

The following EMM parameters shall be stored on the USIM if the corresponding file is present:

- GUTI;
- last visited registered TAI;
- EPS update status.

If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM. These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.301 [26], subclause 5.5.1.2.1, 5.5.1.2.2, 5.5.1.2.4 and Annex C.

5.1.8.3 Test purpose

- To verify that UE deletes existing EMM parameters from the UE's non-volatile memory in case a different IMSI
 is activated.
- 2) To verify that UE includes the IMSI stored in the USIM during the attach procedure.

5.1.8.4 Method of test

5.1.8.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.
- Access control: unrestricted.

The default UICC (without the service "EMM Information") is installed into the Terminal and the UE is powered on.

5.1.8.4.2 Procedure

- a) The UE is switched on.
- b) The UE requests RRC Connection and therefore performs EPS Attach procedure to the E-USS. The E-USS sends *AttachAccept* with the following values:

GUTI: "24608100010266345678"

TAI (MCC/MNC/TAC):246/081/0001

- c) The UE send Attach Complete.
- d) The E-USS requests the release of the RRC Connection.
- e) The UE is switched off.
- f) A new UICC with the following configuration is activated:

The default UICC with the following exception: The IMSI is set to "246081222233333".

- g) The Terminal is switched on.
- h) The UE requests RRC Connection and therefore performs EPS Attach procedure to the E-USS.

5.1.8.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST}.
- 2) During step h) the UE shall include the IMSI "246081222233333", but no GUTI nor TAI in the AttachRequest message.

5.1.9 UE identification by GUTI when using USIM with service "EMM Information" not available

The attach procedure is used to attach for packet services in EPS. With a successful attach procedure, a context is established for the UE in the MME, and a default bearer is established between the UE and the PDN GW, thus enabling always-on IP connectivity to the UE. The network may also initiate the activation of dedicated bearers as part of the attach procedure.

5.1.9.2 Conformance requirement

The following EMM parameters shall be stored on the USIM if the corresponding file is present:

- GUTI;
- last visited registered TAI;
- EPS update status.

If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM. These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.301 [26], subclause 5.5.1.2.1, 5.5.1.2.2, 5.5.1.2.4 and Annex C.

5.1.9.3 Test purpose

- 1) To verify that UE stores the GUTI and the TAI in the UE's non-volatile memory.
- 2) To verify that the UE uses the GUTI and the TAI from the UE's non-volatile memory during the attach procedure if the IMSI stored in the USIM has not changed.

5.1.9.4 Method of test

5.1.9.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.
- Access control: unrestricted.

The default UICC (without the service "EMM Information") is installed into the Terminal and the UE is powered on.

5.1.9.4.2 Procedure

- a) The UE is switched on.
- b) The UE requests RRC Connection and therefore performs EPS Attach procedure to the E-USS. The E-USS sends *AttachAccept* with the following values:

GUTI: "24608100010266345699"

TAI (MCC/MNC/TAC):246/081/0001

- c) The UE send *AttachComplete*.
- d) The E-USS requests the release of the RRC Connection.
- e) The UE is switched off.
- f) The default UICC remains in use.
- g) The Terminal is switched on.
- h) The UE requests RRC Connection and therefore performs EPS Attach procedure to the E-USS.

5.1.9.5 Acceptance criteria

- 1) After step a) the UE shall read $EF_{\text{UST}}.$
- 2) During step h) the UE shall include the GUTI "24608100010266345699" and the TAI 246/081/0001 in the AttachRequest message.

5.1.10 UE identification by GUTI when using USIM with service "EMM Information" available

5.1.10.1 Definition and applicability

The attach procedure is used to attach for packet services in EPS. With a successful attach procedure, a context is established for the UE in the MME, and a default bearer is established between the UE and the PDN GW, thus enabling always-on IP connectivity to the UE. The network may also initiate the activation of dedicated bearers as part of the attach procedure.

5.1.10.2 Conformance requirement

The following EMM parameters shall be stored on the USIM if the corresponding file is present:

- GUTI;
- last visited registered TAI;
- EPS update status.

The presence and format of corresponding files on the USIM is specified in 3GPP TS 31.102 [4].

Reference:

- TS 31.102 [4], subclauses 5.1.1 and 5.2.2;
- TS 24.301 [26], subclause 5.5.1.2.1, 5.5.1.2.2, 5.5.1.2.4 and Annex C.

5.1.10.3 Test purpose

- 1) To verify that UE includes the GUTI and TAI stored in EF_{EPSLOCI} in the *AttachRequest* message.
- 2) To verify that the EMM parameters GUTI, Last Registered TAI sent in the *AttachAccept* message and the related EPS Update Status are correctly stored on the USIM if the corresponding file is present.

5.1.10.4 Method of test

5.1.10.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0002.

- Access control: unrestricted.

The default E-UTRAN UICC is is used with the following exceptions:

EF_{EPSNSC} (EPS NAS Security Context)

Logically: Key Set Identifier KSI_{ASME}: '01'

ASME Key (KSI_{ASME}): 32 byte key, any value

Uplink NAS count: 00
Downlink NAS count: 01
Identifiers of selected NAS 01

integrity and encryption

algorithm

Coding:	B1	B2	B3	B4	B5	B6	B7	B8		B39
Hex	A0	34	80	01	01	81	20	XX		XX
Coding:	B40	B41	B42	B43	B44	B45	B46	B47	B48	B49
Hex	82	04	00	00	00	00	83	04	00	00
Coding:	B50	B51	B52	B53	B54					
Hex	00	01	84	01	01					

5.1.10.4.2 Procedure

- a) The UE is switched on.
- b) The UE requests RRC Connection and therefore performs EPS Attach procedure to the E-USS. The E-USS sends *AttachAccept* with the following values:

GUTI: "24608100010266436587"

TAI (MCC/MNC/TAC):246/081/0002

- c) The UE send Attach Complete.
- d) The E-USS requests the release of the RRC Connection.

5.1.10.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST} and EF_{EPSLOCI}.
- 2) During step b) the UE shall include the GUTI and the Last visited registered TAI contained in EF_{EPSLOCI} when sending the *AttachRequest* message.
- 3) After step b) EF_{EPSLOCI} shall contain:

T - -! - - 11-...

Logicany:	GUII:	24008100010200430387
	I and administral manifestational TAI.	246/001/0002

Last visited registered TAI: 246/081/0002 EPS update status: updated

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex:	0B	F6	42	16	80	00	01	02	66	43	65
	B12 87	B13 42	B14 16	B15 80	B16 00	B17 02	B18 00				

24600100010266426507

5.2 Access Control handling

5.2.1 Access Control information handling

5.2.1.1 Definition and applicability

Access Control allows restriction of call access attempts. All User Equipments are assigned to one out of ten randomly allocated classes, and optionally (for priority uses) also to one or more special categories.

An Access Class of the special Categories is only valid in the HPLMN or HPLMN country. Otherwise, the randomly allocated class is used.

The classes are programmed on the USIM. The network controls which classes at any time may be barred.

In addition, there is a separate mechanism for control of network access for emergency call attempts.

5.2.1.2 Conformance requirement

1. The Terminal shall read the access control value as part of the USIM-Terminal initialisation procedure, and subsequently adopt this value.

Reference:

- TS 31.102 [4], subclause 5.1.1.
- 2. If the UE is a member of at least one access class which corresponds to the permitted classes as signalled over the air interface, and the access class is applicable in the serving network, access attempts are allowed.

 Otherwise access attempts are not allowed.
- 3. If access class 10 is barred, then the Ues of classes 0-9 and the Terminals without UICCs shall not make emergency call attempts.

4. UE of classes 11 – 15 are not allowed to make emergency call attempts if access class 10 and the relevant access class(es) between 11 and 15 are barred. Otherwise, emergency call attempts are allowed irrespective of the conditions of access class 10.

All options are shown in figure 5-1 and are referenced to the tests.

Reference:

- TS 22.011 [6], subclauses 4.3 and 4.4.

5.2.1.3 Test purpose

- 1) To verify that the Terminal reads the access control value as part of the USIM-Terminal initialisation procedure, and subsequently adopts this value.
- 2) To verify that the UE controls its network access in accordance with its access control class and the conditions imposed by the serving network.

The tests verify Terminal performance for the following:

Tests (a) and (b) No UICC in Terminal.

Tests I to (e) UE with access class 0 to 9.

Test (f) UE with access class 11 and 15 not in HPLMN, and

UE with access class 12,13 and 14 not in HPLMN country.

Test (g) and (h) UE with access class 11 and 15 in HPLMN, and

UE with access class 12,13 and 14 in HPLMN country.

Each of the above are tested against all relevant combinations of access control and emergency call bits signalled by the network, as shown in table 5-1.

5.2.1.4 Method of test

5.2.1.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a GERAN Terminal) transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): MCC, MNC: see table 5-1, LAC="0001".

- Access control: see table 5-1.

- RACH: see table 5-1.

The default UICC is installed in the Terminal containing IMSI and access control values as given in table 5-1 and the UE is powered on.

NOTE: Depending on the initial value of the EF_{LOCI} , the UE may perform a location update. This shall be accepted by the USS/SS.

5.2.1.4.2 Coding details

IMSI:

USIM IMSI EF_{IMSI}: Data Field "6F 07"

Logically:

•	•								
Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9
Hex									

"2460813579"

х5

F9

Logically: IMSI: "24608135x9" Coding: B4 **B1** B2 **B**3 **B**5 B6 **B7 B8** B9 FF FF

31

80

Access Control class EF_{ACC}: Data field "6F 78"

21

Reference:

Hex

7) See TS 31.102 [4].

06

NETWORK (USS in case of a Terminal accessing UTRAN)

Access Class Barred List in SIB 3 should be set as table 5.1a:

64

Reference

7) TS 25.331 clause 10.3.2.1

The first instance of the parameter corresponds to Access Class 0, the second to Access Class 1 and so on up to Access Class 15.

NETWORK (SS in case of a Terminal accessing GERAN)

RACH: As defined in TS 44.018 subclause 10.5.2.29.

TS 44.018 also apply for the Radio Resource management for UMTS (see TS 24.008, subclause 10.5.2).

Octet 1 0111 1000 0000 1000 Octet 2 Octet 3

} as table 5-1b Octet 4

5.2.1.4.3 Procedure

- a) Using the MMI or EMMI a normal call set-up is attempted.
- b) Using the MMI or EMMI an emergency call set-up is attempted.
- c) The test is repeated for each set of values in table 5-1.

5.2.1.5 Acceptance criteria

After steps a) and b) the UE shall access the network, or shall make no access attempt, in accordance with table 5-1.

NOTE 1: For conformance testing, to limit testing, in tesI(c), (d) and (e) it is only necessary that one of the access classes is tested. This access class may be chosen randomly.

NOTE 2: In tables 5-1a and 5-1b the following notation is used to describe the Access Class Barred IE: "0" = not barred, "1" = barred.

Table 5-1a

	USIM			Network		Test Results		
	IMSI		RACH	Informative: Cell	BCCH/	Normal	Emergency	
			SIB3: Access Class Barred List	Barred for:	LAI	Call	Call	
		Access	AC15- AC08	Emergency Call	MCC			
		Class	AC07- AC00	Normal Call	MNC			
Test (a)	No UICC in	N/A	0000 0100	Yes	234	No	No	
	Terminal		0000 0000	No	001			
Test (b)	No UICC in	N/A	0000 0000	No	234	No	Yes	
	Terminal		0000 0000	No	001			
Ist (c)	"2460813579"	0	0000 0100	Yes	246	No	No	
			0000 0001	No, except for ACC	081			
	"2460813579"	1	0000 0100	Yes	246	No	No	
	2700010010	•	0000 0100	No, except for ACC	081	140	140	
		_		•				
	"2460813579"	2	0000 0100 0000 0100	Yes	246 081	No	No	
			0000 0100	No, except for ACC	UO I			
	"2460813579"	3	0000 0100	Yes	246	No	No	
			0000 1000	No, except for ACC	081			
	"2460813579"	4	0000 0100	Yes	246	No	No	
			0001 0000	No, except for ACC	081			
	"2460813579"	5	0000 0100	Yes	246	No	No	
	2400010019	J	0010 0000	No, except for ACC	081	140	140	
	No.4005 (55-5-				0.15			
	"2460813579"	6	0000 0100 0100 0000	Yes No, except for ACC	246 081	No	No	
			0100 0000	NO, EXCEPTION ACC	001			
	"2460813579"	7	0000 0100	Yes	246	No	No	
			1000 0000	No, except for ACC	081			
	"2460813579"	8	0000 0101	Yes	246	No	No	
	3		0000 0000	No, except for ACC	081			
	"2460813579"	0	0000 0110	Voc	246	No	No	
	2400013079	9	0000 0110	Yes No, except for ACC	246 081	No	No	
Test (d)	"2460813579"	0	0000 0000	No	246	No	Yes	
			0000 0001	None, except for ACC	081			
	"2460813579"	1	0000 0000	No	246	No	Yes	
			0000 0010	None, except for ACC	081			
	"2460813579"	2	0000 0000	No	246	No	Yes	
			0000 0100	None, except for ACC	081			
	"2460813579"	3	0000 0000	No	246	No	Yes	
			0000 1000	None, except for	081			

			ACC			
"2460813579"	4	0000 0000 0001 0000	No None, except for ACC	246 081	No	Yes
"2460813579"	5	0000 0000 0010 0000	No None, except for ACC	246 081	No	Yes
"2460813579"	6	0000 0000 0100 0000	No None, except for ACC	246 081	No	Yes
"2460813579"	7	0000 0000 1000 0000	No None, except for ACC	246 081	No	Yes
"2460813579"	8	0000 0001 0000 0000	No None, except for ACC	246 081	No	Yes
"2460813579"	9	0000 0010 0000 0000	No None, except for ACC	246 081	No	Yes

Test (e)	"2460813579"	0	1111 1011 1111 1110	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	1	1111 1011 1111 1101	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	2	1111 1011 1111 1011	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	3	1111 1011 1111 0111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	4	1111 1011 1110 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	5	1111 1011 1101 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	6	1111 1011 1011 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2406813579"	7	1111 1011 0111 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	8	1111 1010 1111 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	9	1111 1001 1111 1111	No All, except ACC on USIM	246 081	Yes	Yes
Test (f)	"24608135x9"	11 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	246 082	No	No
	11	11 & x	0000 0011 1111 1111	No All, except ACC greater than 11	246 082	No	Yes
	п	11 & x	0000 0000	No None	246 082	Yes	Yes
	"24608135x9"	12 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	п	12 & x	0000 0011 1111 1111	No All, except ACC greater than 11	244 001	No	Yes
	II	12 & x	0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	13 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	п	13 & x	0000 0011	No	244	No	Yes

			1111 1111	All, except ACC greater than 11	001		
	п	13 & x	0000 0000 0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	14 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	n	14 & x	0000 0011 1111 1111	No All, except ACC greater than 11	244 001	No	Yes
	п	14 & x	0000 0000 0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	15 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	246 082	No	No
	п	15 & x	0000 0011 1111 1111	No All, except ACC greater than 11	246 082	No	Yes
	" Set "x" to an arbitrary value in the range 0 to 9	15 & x	0000 0000	No None	246 082	Yes	Yes
Test (g)	"2460813579"	11 & x	0000 1111 1111 1111	Yes All normal ACC and ACC on USIM	246 081	No	No
	"	11 & x	0000 1011 1111 1111	No All normal ACC and ACC on USIM	246 081	No	Yes
	"2460813579"	12 & x	0001 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
	п	12 & x	0001 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	13 & x	0010 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
	п	13 & x	0010 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	14 & x	0100 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
	п	14 & x	0100 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	15 & x	1000 0111	Yes All normal ACC and ACC on USIM	246 081	No	No

			1			1	
	Set "x" to an arbitrary value in the range 0 to 9	15 & x	1000 0011 1111 1111	No All normal ACC and ACC on USIM	246 081	No	Yes
Test (h)	"2460813579"	11 & x	1111 0011 1111 1111	No All, except "special" ACC on USIM	246 081	Yes	Yes
	"	11 & x	1111 0111 1111 1111	Yes All, except "special" ACC on USIM	246 081	Yes	Yes
	"2460813579"	12 & x	1110 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	п	12 & x	1110 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	13 & x	1101 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	н	13 & x	1101 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	14 & x	1011 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	н	14 & x	1011 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	15 & x	0111 1011 1111 1111	No All, except "special" ACC on USIM	246 081	Yes	Yes
	" Set "x" to an arbitrary value in the range 0 to 9	15 & x	0111 1111 1111 1111	Yes All, except "special" ACC on USIM	246 081	Yes	Yes

Table 5-1b

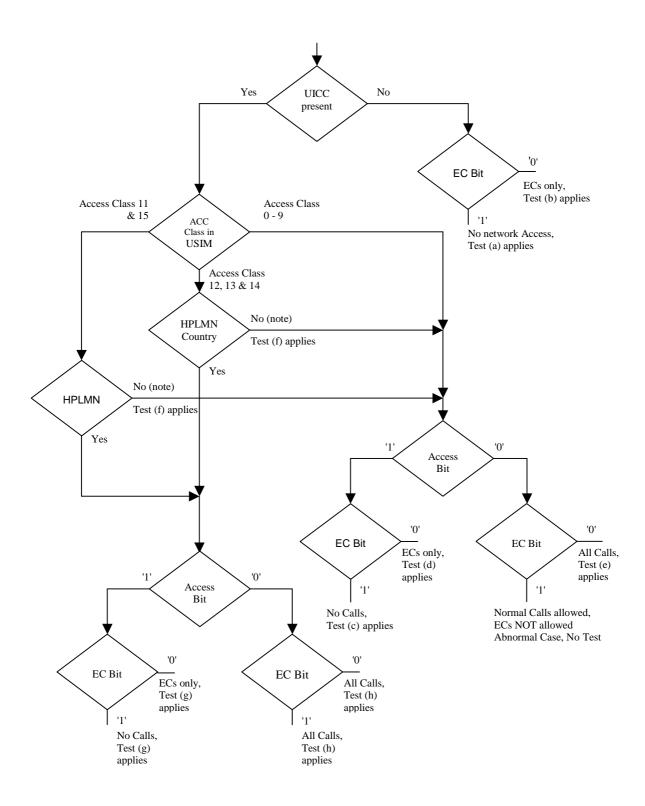
	USIM			Network		Tes	t Results
	IMSI		RACH	Informative: Cell Barred for:	BCCH/ LAI	Normal Call	Emergency Call
		Access Class	Octet 3 Octet 4	Emergency Call Normal Call	MCC MNC		
Test (a)	No UICC in	N/A	0000 0100	Yes	234	No	No
	Terminal		0000 0000	No	001		
Test (b)	No UICC in	N/A	0000 0000	No	234	No	Yes
	Terminal		0000 0000	No	001		
Test (c)	"2460813579"	0	0000 0100	Yes	246	No	No
			0000 0001	No, except for ACC	081		
	"2460813579"	1	0000 0100	Yes	246	No	No
			0000 0010	No, except for ACC	081		
	"2460813579"	2	0000 0100	Yes	246	No	No
			0000 0100	No, except for ACC	081		
	"2460813579"	3	0000 0100	Yes	246	No	No
			0000 1000	No, except for ACC	081		
	"2460813579"	4	0000 0100	Yes	246	No	No
			0001 0000	No, except for ACC	081		
	"2460813579"	5	0000 0100	Yes	246	No	No
			0010 0000	No, except for ACC	081		
	"2460813579"	6	0000 0100	Yes	246	No	No
			0100 0000	No, except for ACC	081		
	"2460813579"	7	0000 0100	Yes	246	No	No
			1000 0000	No, except for ACC	081		
	"2460813579"	8	0000 0101	Yes	246	No	No
			0000 0000	No, except for ACC	081		
	"2460813579"	9	0000 0110	Yes	246	No	No
			0000 0000	No, except for ACC	081		
Test (d)	"2460813579"	0	0000 0000 0000 0001	No None, except for ACC	246 081	No	Yes
	"2460813579"	1	0000 0000	No	246	No	Yes
			0000 0010	None, except for ACC	081		
	"2460813579"	2	0000 0000	No	246	No	Yes
			0000 0100	None, except for ACC	081		
	"2460813579"	3	0000 0000	No	246	No	Yes
			0000 1000	None, except for ACC	081		
	"2460813579"	4	0000 0000	No	246	No	Yes
			0001 0000	None, except for ACC	081		
	"2460813579"	5	0000 0000	No	246	No	Yes
			0010 0000	None, except for ACC	081		

"2	460813579"	6	0000 0000 0100 0000	No None, except for ACC	246 081	No	Yes
"2	460813579"	7	0000 0000 1000 0000	No None, except for ACC	246 081	No	Yes
"2	460813579"	8	0000 0001 0000 0000	No None, except for ACC	246 081	No	Yes
"2	460813579"	9	0000 0010 0000 0000	No None, except for ACC	246 081	No	Yes

Test (e)	"2460813579"	0	1111 1011 1111 1110	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	1	1111 1011 1111 1101	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	2	1111 1011 1111 1011	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	3	1111 1011 1111 0111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	4	1111 1011 1110 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	5	1111 1011 1101 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	6	1111 1011 1011 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2406813579"	7	1111 1011 0111 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	8	1111 1010 1111 1111	No All, except ACC on USIM	246 081	Yes	Yes
	"2460813579"	9	1111 1001 1111 1111	No All, except ACC on USIM	246 081	Yes	Yes
Test (f)	"24608135x9"	11 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	246 082	No	No
	п	11 & x	0000 0011 1111 1111	No All, except ACC greater than 11	246 082	No	Yes
	"	11 & x	0000 0000	No None	246 082	Yes	Yes
	"24608135x9"	12 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	п	12 & x	0000 0011 1111 1111	No All, except ACC greater than 11	244 001	No	Yes
	п	12 & x	0000 0000 0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	13 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	п	13 & x	0000 0011	No	244	No	Yes

			1111 1111	All, except ACC greater than 11	001		
	п	13 & x	0000 0000 0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	14 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	244 001	No	No
	п	14 & x	0000 0011 1111 1111	No All, except ACC greater than 11	244 001	No	Yes
	п	14 & x	0000 0000	No None	244 001	Yes	Yes
	"24608135x9"	15 & x	0000 0111 1111 1111	Yes All, except ACC greater than 11	246 082	No	No
	п	15 & x	0000 0011 1111 1111	No All, except ACC greater than 11	246 082	No	Yes
	" Set "x" to an arbitrary value in the range 0 to 9	15 & x	0000 0000	No None	246 082	Yes	Yes
Test (g)	"2460813579"	11 & x	0000 1111 1111 1111	Yes All normal ACC and ACC on USIM	246 081	No	No
	п	11 & x	0000 1011 1111 1111	No All normal ACC and ACC on USIM	246 081	No	Yes
	"2460813579"	12 & x	0001 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
	п	12 & x	0001 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	13 & x	0010 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
	п	13 & x	0010 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	14 & x	0100 0111 1111 1111	Yes All normal ACC and ACC on USIM	246 082	No	No
		14 & x	0100 0011 1111 1111	No All normal ACC and ACC on USIM	246 082	No	Yes
	"2460813579"	15 & x	1000 0111	Yes All normal ACC and ACC on USIM	246 081	No	No

	Set "x" to an arbitrary value in the range 0 to 9	15 & x	1000 0011 1111 1111	No All normal ACC and ACC on USIM	246 081	No	Yes
Test (h)	"2460813579"	11 & x	1111 0011 1111 1111	No All, except "special" ACC on USIM	246 081	Yes	Yes
	"	11 & x	1111 0111 1111 1111	Yes All, except "special" ACC on USIM	246 081	Yes	Yes
	"2460813579"	12 & x	1110 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	п	12 & x	1110 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	13 & x	1101 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	н	13 & x	1101 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	14 & x	1011 1011 1111 1111	No All, except "special" ACC on USIM	246 082	Yes	Yes
	н	14 & x	1011 1111 1111 1111	Yes All, except "special" ACC on USIM	246 082	Yes	Yes
	"2460813579"	15 & x	0111 1011 1111 1111	No All, except "special" ACC on USIM	246 081	Yes	Yes
	" Set "x" to an arbitrary value in the range 0 to 9	15 & x	0111 1111 1111 1111	Yes All, except "special" ACC on USIM	246 081	Yes	Yes



NOTE: UE adopts Access Class 0-9, based on IMSI, see TS 22.011 [6].

Access Class in USIM, See TS 31.102 [4], EF ACC, "6F 78".

Ecs: Emergency Calls. EC Bit: In case of GERAN:

Bit 3 of Octet 3 of RACH Control Parameters, See TS 44.018 Section 10.5.2.29.

In case of UTRAN

Access Class 10 defined in TS 22.011 clause 4.4.

AC Bit: See Access Class Barred List defined in TS 25.331 clause 10.3.2.1.

HPLMN: Country means that the MCC of the VPLMN is the same as the MCC of the HPLMN.

Figure 5-1: Access control information

5.2.2 Access Control information handling for E-UTRAN/EPC

5.2.2.1 Definition and applicability

Access Control allows restriction of EPS bearer context activation access attempts. All User Equipments are assigned to one out of ten randomly allocated classes, and optionally (for priority uses) also to one or more special categories.

An Access Class of the special categories is only valid in the HPLMN or HPLMN country. Otherwise, the randomly allocated class is used.

The classes are programmed on the USIM. The network controls which classes at any time may be barred.

Emergency call handling is FFS.

5.2.2.2 Conformance requirement

1. The Terminal shall read the access control value as part of the USIM-Terminal initialisation procedure, and subsequently adopt this value.

Reference:

- TS 31.102 [4], subclause 5.1.1.
- 2. If the UE is a member of at least one access class which corresponds to the permitted classes as signalled over the air interface, and the access class is applicable in the serving network, access attempts are allowed.

 Otherwise access attempts are not allowed.

All options are shown in figure 5-2 and are referenced to the tests.

Reference:

- TS 22.011 [6], subclauses 4.3 and 4.4,
- TS 24.301 [26], subclause 5.5.1.2.6,

5.2.2.3 Test purpose

- 1) To verify that the Terminal reads the access control value as part of the USIM-Terminal initialisation procedure, and subsequently adopts this value.
- 2) To verify that the UE controls its network access in accordance with its access control class and the conditions imposed by the serving network.

The tests verify Terminal performance for the following:

Tests (a) to (b) UE with access class 0 to 9.

Test (c) UE with access class 11 and 15 not in HPLMN, and

UE with access class 12,13 and 14 not in HPLMN country.

Test (d) and (e) UE with access class 11 and 15 in HPLMN, and

UE with access class 12,13 and 14 in HPLMN country.

Each of the above are tested against all relevant combinations of access control bits signalled by the network, as shown in table 5-2.

5.2.2.4 Method of test

5.2.2.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): MCC, MNC: see table 5-2, TAC="0001".

- Access control: see table 5-2.

The default UICC is installed in the Terminal containing IMSI and access control values as given in table 5-x and the UE is powered on.

NOTE: Depending on the initial value of the $EF_{EPSLOCI}$, the UE may perform a location update. This shall be accepted by the E-USS.

5.2.2.4.2 Coding details

EF_{IMSI}: Data Field "6F 07"

Logica	ally:	IMSI:	"2	46081357	79"				
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9
Hex	06	21	64	80	31	75	F9	FF	FF
Logica	ally:	IMSI:	"2	4608135x	:9"				
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9
Hex	06	21	64	80	31	x5	F9	FF	FF

Access Control class EF_{ACC}: Data field "6F 78"

Reference:

• See TS 31.102 [4].

NETWORK (E-USS)

ac-BarringInfo in SystemInformationBlockType2 should be set as in table 5-2:

Reference

• TS 36.331 clause 6.3.1

5.2.2.4.3 Procedure

- a) The terminal is switched on and performs registration if access is allowed for signalling according to table 5-2.
- b) Using the MMI or EMMI a normal EPS bearer context setup is attempted if required by the test.
- c) The test is repeated for each set of values in table 5-2.

5.2.2.5 Acceptance criteria

After step a) the UE shall access the network, or shall make no access attempt, in accordance with table 5-2.

In case in tables 5-2 the cell is indicated as

barred = yes, in these sub-sequences, the UE shall not establish a connection

barred = no, the UE shall establish a connection.

NOTE 1: For conformance testing, to limit testing, in tests (a), (b) and (c) it is only necessary that one of the access classes is tested. This access class may be chosen randomly.

Table 5-2

	USIM			Network		
	IMSI	Access class:	SIBType2: ac-BarringInfo	Cell barred for ATTACH and Default EPS bearer context activation:	MCC MNC for BCCH/ LAI	Cell barred for second (non- default) EPS bearer context setup:
Test (a)	"2460813579"	0	SIBType2_A01	activation.	246	Yes
1001 (a)	2100010070	Ü	0121yp02_7101	No	081	100
	"2460813579"	1	SIBType2_A01	No	246 081	Yes
	"2460813579"	2	SIBType2_A01	No	246 081	Yes
	"2460813579"	3	SIBType2_A01	No	246 081	Yes
	"2460813579"	4	SIBType2_A01	No	246 081	Yes
	"2460813579"	5	SIBType2_A01	No	246 081	Yes
	"2460813579"	6	SIBType2_A01	No	246 081	Yes
	"2460813579"	7	SIBType2_A01	No	246 081	Yes
	"2460813579"	8	SIBType2_A01	No	246 081	Yes
	"2460813579"	9	SIBType2_A01	No	246 081	Yes
Test (b)	"2460813579"	0	SIBType2_B01	No	246 081	No
	"2460813579"	1	SIBType2_B01	No	246 081	No
	"2460813579"	2	SIBType2_B01	No	246 081	No
	"2460813579"	3	SIBType2_B01	No	246 081	No
	"2460813579"	4	SIBType2_B01	No	246 081	No
	"2460813579"	5	SIBType2_B01	No	246 081	No
	"2460813579"	6	SIBType2_B01	No	246 081	No
	"2460813579"	7	SIBType2_B01	No	246 081	No

"2460813579"	8	SIBType2_B01	No	246 081	No	
"2460813579"	9	SIBType2_B01	No	246 081	No	

Test (c)	"24608135x9"	11 & x	SIBType2_A01	No	246 082	Yes
	н	11 & x	SIBType2_C11_01	No	246 082	Yes
	п	11 & x	SIBType2_C11_02	Yes	246	N/A (no registration possible as initial condition)
					082	Condition
	"24608135x9"	12 & x	SIBType2_A01	No	244 001	Yes
	п	12 & x	SIBType2_C12_01	No	244 001	Yes
	п	12 & x	SIBType2_C12_02	Yes	244	N/A (no registration possible as initial condition)
	"24608135x9"	13 & x	SIBType2_A01	No	244 001	Yes
	п	13 & x	SIBType2_C13_01	No	244 001	Yes
	п	13 & x	SIBType2_C13_02	Yes	244	N/A (no registration possible as initial condition)
					001	·
	"24608135x9"	14 & x	SIBType2_A01	No	244 001	Yes
	п	14 & x	SIBType2_C14_01	No	244 001	Yes
	ı	14 & x	SIBType2_C14_02	Yes	244	N/A (no registration possible as initial condition)
					001	
	"24608135x9"	15 & x	SIBType2_A01	No	246 082	Yes
	п	15 & x	SIBType2_C15_01	No	246 082	Yes
	п	15 & x	SIBType2_C15_02	Yes	246	N/A (no registration possible as initial condition)
	Set "x" to an arbitrary value in the range 0 to 9				082	Solidation
Test (d)	"2460813579"	11 & x	SIBType2_C11_01	No	246 081	Yes
	п	11 & x	SIBType2_C11_02	Yes	246 081	N/A

	"2460813579"	12 & x	SIBType2_C12_01	No	246 082	Yes
	и	12 & x	SIBType2_C12_02	Yes	246 082	N/A
	"2460813579"	13 & x	SIBType2_C13_01	No	246 082	Yes
	n	13 & x	SIBType2_C13_02	Yes	246 082	N/A
	"2460813579"	14 & x	SIBType2_C14_01	No	246 082	Yes
	п	14 & x	SIBType2_C14_02	Yes	246 082	N/A
	"2460813579"	15 & x	SIBType2_C15_01	No	246 081	Yes
	" Set "x" to an arbitrary value in the range 0 to 9	15 & x	SIBType2_C15_02	Yes	246 081	N/A
Test (e)	"2460813579"	11 & x	SIBType2_C11_03	No	246 081	No
	"2460813579"	12 & x	SIBType2_C12_03	No	246 082	No
	"2460813579"	13 & x	SIBType2_C13_03	No	246 082	No
	"2460813579"	14 & x	SIBType2_C14_03	No	246 082	No
	"2460813579" Set "x" to an arbitrary value in the range 0 to 9	15 & x	SIBType2_C15_03	No	246 081	No

Specific message contents for Table 5-2

SystemInformationBlockType2 configuration SIBType2_A01

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00000'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_B01

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C11_01

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'10000'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C11_02

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'10000'B		
}			
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C11_03

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'01111'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C12_01

Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'01000'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C12_02

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'01000'B		
}			
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C12_03

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'10111'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C13_01

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00100'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C13_02

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00100'B		
}			
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C13_03

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'11011'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C14_01

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00010'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C14_02

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00010'B		
}			
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C14_03

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'11101'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C15_01

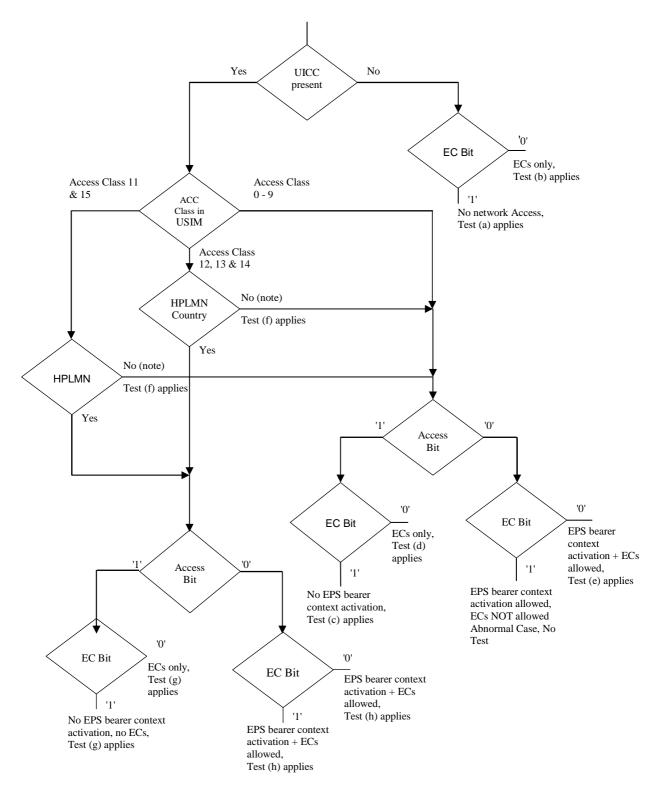
Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00001'B		
}			
}			
}			

SystemInformationBlockType2 configuration SIBType2_C15_02

Derivation Path: 36.508, Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'00001'B		
}			
ac-BarringForMO-Data	Not present		
}			
}			

SystemInformationBlockType2 configuration SIBType2_C15_03

Derivation Path: 36.508, Table 4.4.3.3-1 Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
ac-BarringInfo SEQUENCE {			
ac-BarringForEmergency	FALSE		
ac-BarringForMO-Signalling	Not present		
ac-BarringForMO-Data SEQUENCE {			
ac-BarringFactor	p00		
ac-BarringTime	s512		
ac-BarringForSpecialAC	'11110'B		
}			
}			
}			



Editor's note: the flow chart is currently for information only and has to be updated to be in line with 36.331, this is TBD.

NOTE: UE adopts Access Class 0-9, based on IMSI, see TS 22.011 [6].

Access Class in USIM, See TS 31.102 [4], EF ACC, "6F 78".

ECs: Emergency Calls.

EC Bit: see description in 36.331, clause 6.3.1

Access Class 10 defined in TS 22.011 clause 4.4.

AC Bit: see description in 36.331, clause 6.3.1.

HPLMN: Country means that the MCC of the VPLMN is the same as the MCC of the HPLMN.

Figure 5-2: Access control information

6 Security related Tests

6.1 PIN handling

6.1.1 Entry of PIN

6.1.1.1 Definition and applicability

The PIN is a number used to authenticate the user to the UICC for security. Entry of the correct PIN allows PIN-protected data to be accessed over the UICC-Terminal interface.

6.1.1.2 Conformance requirement

Following insertion of the UICC and switching on the UE, the Terminal shall check the state of the PIN. If the PIN is enabled, the Terminal asks the user for PIN verification.

The VERIFY PIN function verifies the PIN presented by the Terminal to the UICC.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.9;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.1.

6.1.1.3 Test purpose

- 1) To verify that the PIN verification procedure is performed by the Terminal correctly.
- 2) To verify that the basic public MMI string is supported.

6.1.1.4 Method of test

6.1.1.4.1 Initial conditions

The Terminal is connected to a UICC or UICC simulator with the PIN enabled, and powered off.

The default UICC is used.

6.1.1.4.2 Procedure

- a) The Terminal is powered on.
- b) When the UE is in the "PIN check" mode, the sequence "2468#" shall be entered.

6.1.1.5 Acceptance criteria

- 1) After step b) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "01".
- 2) After step b) the UE shall give an indication "OK", following a successful execution of the command.

6.1.2 Change of PIN

6.1.2.1 Definition and applicability

The PIN may be changed by the user, by entering the old and new PIN. The length of the PIN is between 4 and 8 digits.

6.1.2.2 Conformance requirement

The Terminal shall support the change of PIN procedure as defined in ETSI TS 102 221 [5], subclause 11.1.10.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.10;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.2.

6.1.2.3 Test purpose

- 1) To verify that the PIN substitution procedure is performed correctly by the Terminal.
- 2) To verify that the basic public MMI string is supported.

6.1.2.4 Method of test

6.1.2.4.1 Initial conditions

The Terminal is connected to a UICC or UICC simulator with the PIN enabled.

The default UICC is used.

The Terminal is powered-on, with the correct PIN entered.

6.1.2.4.2 Procedure

- a) Enter "**04*2468*01234567*01234567#" or initiate an equivalent MMI dependent procedure to change the PIN from '2468' to '01234567'.
- b) The UE is switched off and on.
- c) When the UE is in the "PIN check" mode, the sequence "2468#" shall be entered.
- d) The UE is switched off and on.
- e) When the UE is in the "PIN-check", mode the sequence "01234567#" shall be entered.

6.1.2.5 Acceptance criteria

- 1) After step a), the Terminal shall send a CHANGE PIN command to the UICC, with the parameter P2 set to "01".
- 2) Following the successful execution of the command, the UE shall give an indication that the new PIN is accepted.
- 3) After step c), the UE shall give an indication that the entered PIN is not accepted.
- 4) After step e), the UE shall give an indication "OK".

6.1.3 Unblock PIN

6.1.3.1 Definition and applicability

After three consecutive wrong entries of the PIN, the PIN shall become blocked. The Unblock PIN command is used to unblock the PIN. This function may be performed whether or not the PIN is blocked.

6.1.3.2 Conformance requirement

The Terminal shall support the Unblock PIN command, as defined in ETSI TS 102 221 [5], subclause 11.1.13.

Reference:

- ETSI TS 102 221 [5], subclause 11.1.13;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.3.

6.1.3.3 Test purpose

- 1) To verify that the PIN unblocking procedure is performed correctly.
- 2) To verify that the basic public MMI string is supported.

6.1.3.4 Method of test

6.1.3.4.1 Initial conditions

The Terminal is connected to the UICC simulator.

The default UICC is used.

6.1.3.4.2 Procedure

Sequence A:

- a) The Terminal is powered on and the correct PIN is entered.
- b) Enter "**05*13243546*1234*1234#"
- c) The Terminal is powered off and on.
- d) Enter the new PIN: "1234#".
- e) The Terminal is powered off and on.
- f) Enter a wrong PIN three times.
- g) Enter "**05*13243546*2468*2468#".
- h) The Terminal is powered off and on.
- i) Enter the new PIN: "2468#".

Sequence B:

- a) The Terminal is powered on.
- b) Enter a wrong PIN three times.
- c) The user shall initiate a MMI dependent procedure to unblock the PIN with unblock code '13243546' and a new PIN '2468'.

- d) The Terminal is powered off and on.
- e) Enter the new PIN: "2468#".

6.1.3.5 Acceptance criteria

Sequence A:

- 1) After step b), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "01".
- 2) After step d), the Terminal shall indicate that the PIN has been accepted.
- 3) After step f), the Terminal shall indicate that the PIN has been blocked.
- 4) After step g), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "01".
- 5) After step i), the Terminal shall indicate that the PIN has been accepted.

Sequence B:

- 1) After step b), the Terminal shall indicate that the PIN has been blocked.
- 2) After step c), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "01".
- 3) After step e), the Terminal shall indicate that the PIN has been accepted.

6.1.4 Entry of PIN2

6.1.4.1 Definition and applicability

The PIN2 is a number used to authenticate the user to the UICC for security. Entry of the correct PIN2 allows PIN2-protected data to be accessed over the UICC-Terminal interface.

6.1.4.2 Conformance requirement

Before allowing the access to PIN2 protected data, the Terminal shall ask the user for PIN2 verification. Only after presenting the PIN2, the user shall get access to these data.

The VERIFY PIN function verifies the PIN2 presented by the Terminal to the UICC.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.9;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.1.

6.1.4.3 Test purpose

- 1) To verify that the PIN2 verification procedure is performed by the Terminal correctly.
- 2) To verify that the basic public MMI string is supported.

6.1.4.4 Method of test

6.1.4.4.1 Initial conditions

The Terminal is connected to a UICC or UICC simulator with the PIN enabled, and powered off.

The default UICC is used.

NOTE: To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be used.

6.1.4.4.2 Procedure

- a) The Terminal is powered on and the correct PIN is entered.
- b) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN)
- c) When the UE is in the "PIN2 check" mode, the sequence "3579#" shall be entered.

6.1.4.5 Acceptance criteria

- 1) After step c) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "81".
- 2) After step c) the UE shall give an indication "OK", following a successful execution of the command.

6.1.5 Change of PIN2

6.1.5.1 Definition and applicability

The PIN2 may be changed by the user, by entering the old and new PIN2. The length of the PIN2 is between 4 and 8 digits.

6.1.5.2 Conformance requirement

The Terminal shall support the change of PIN2 procedure as defined in ETSI TS 102 221 [5], subclause 11.1.10.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.10;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.2.

6.1.5.3 Test purpose

- 1) To verify that the PIN2 substitution procedure is performed correctly by the Terminal.
- 2) To verify that the basic public MMI string is supported.

6.1.5.4 Method of test

6.1.5.4.1 Initial conditions

The Terminal is connected to a UICC or UICC simulator with the PIN2 enabled.

The default UICC is used.

NOTE: To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be used.

The Terminal is powered-on, with the correct PIN entered.

6.1.5.4.2 Procedure

- a) Enter "**042*3579*12345678*12345678#" or initiate an equivalent MMI dependent procedure to change PIN2 from '3579' to '12345678'.
- b) The UE is switched off and on and the correct PIN is entered.

- c) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- d) When the UE is in the "PIN2 check" mode, the sequence "3579#" shall be entered.
- e) The UE is switched off and on and the correct PIN is entered.
- f) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- g) When the UE is in the "PIN2 check", mode the sequence "12345678#" shall be entered.

6.1.5.5 Acceptance criteria

- 1) After step a), the Terminal shall send a CHANGE PIN2 command to the UICC, with the parameter P2 set to "81"
- 2) Following the successful execution of the command, the UE shall give an indication that the new PIN2 is accepted.
- 3) After step d), the UE shall give an indication that the entered PIN2 is not accepted.
- 4) After step g), the UE shall give an indication "OK".

6.1.6 Unblock PIN2

6.1.6.1 Definition and applicability

After three consecutive wrong entries of the PIN2, the PIN2 shall become blocked. The Unblock PIN2 command is used to unblock the PIN2. This function may be performed whether or not the PIN2 is blocked.

6.1.6.2 Conformance requirement

The Terminal shall support the Unblock PIN2 command, as defined in ETSI TS 102 221 [5], subclause 11.1.13.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.13;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.3.

6.1.6.3 Test purpose

- 1) To verify that the PIN2 unblocking procedure is performed correctly.
- 2) To verify that the basic public MMI string is supported.

6.1.6.4 Method of test

6.1.6.4.1 Initial conditions

The Terminal is connected to the UICC simulator.

The default UICC is used.

NOTE: To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be used.

6.1.6.4.2 Procedure

Sequence A:

- a) The Terminal is powered on and the correct PIN is entered.
- b) Enter "**052*08978675*1234*1234#"
- c) The Terminal is powered off and on and the correct PIN is entered.
- d) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- e) Enter the new PIN2: "1234#".
- f) The Terminal is powered off and on and the correct PIN is entered.
- g) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- h) Enter a wrong PIN2 three times.
- i) Enter "**052*08978675*3579*3579#".
- j) The Terminal is powered off and on and the correct PIN is entered.
- k) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- 1) Enter the new PIN2: "3579#".

Sequence B:

- a) The Terminal is powered on.
- b) Enter a wrong PIN2 three times.
- c) The user shall initiate a MMI dependent procedure to unblock the PIN2 with unblock code '08978675' and a new PIN '3579'.
- d) The Terminal is powered off and on and the correct PIN is entered.
- e) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- f) Enter the new PIN2: "3579#".

6.1.6.5 Acceptance criterias

Sequence A:

- 1) After step b), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "81".
- 2) After step e), the Terminal shall indicate that the PIN2 has been accepted.
- 3) After step h), the Terminal shall indicate that the PIN2 has been blocked.
- 4) After step i), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "81".
- 5) After step 1), the Terminal shall indicate that the PIN2 has been accepted.

Sequence B:

- 1) After step b), the Terminal shall indicate that the PIN2 has been blocked.
- 2) After step c), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "81".
- 3) After step f), the Terminal shall indicate that the PIN2 has been accepted.

6.1.7 Replacement of PIN

6.1.7.1 Definition and applicability

The Universal PIN may be used to replace a PIN used to authenticate the user to the UICC for security. In this case entry of the correct Universal PIN allows PIN-protected data to be accessed over the UICC-Terminal interface. ETSI TS 102 221 [5] defines the range of "01" to "08" as key reference of the PIN on a multi-verification capable UICC.

6.1.7.2 Conformance requirement

The Terminal shall support the usage of the Universal PIN as replacement PIN and the replacement procedure as defined in ETSI TS 102 221 [5], subclause 11.1.11, as well as the procedure to disable the replacement defined in ETSI TS 102 221 [5], subclause 11.1.12.

Reference:

- ETSI TS 102 221 [5], subclauses 9, 11.1.11 and 11.1.12;
- TS 31.102 [4], clause 6.

6.1.7.3 Test purpose

- 1) To verify that the PIN replacement is supported by the Terminal correctly.
- 2) To verify that the PIN replacement procedure is performed by the Terminal correctly.
- 3) To verify that the procedure to disable the PIN replacement is performed by the Terminal correctly.

6.1.7.4 Method of test

6.1.7.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN enabled, and powered off.

The default UICC is used.

6.1.7.4.2 Procedure

- a) The Terminal is powered on.
- b) When the Terminal is in the "PIN check" mode, the sequence "2468#" shall be entered.
- c) The user shall initiate an MMI dependent procedure to replace the PIN by the Universal PIN.
- d) The Terminal is powered off and on and when the Terminal is in "PIN check" mode the sequence "2468#" shall be entered.
- e) The correct Universal PIN is entered.
- f) The user shall initiate an MMI dependent procedure to disable the replacement of the PIN by the Universal PIN.
- g) The Terminal is powered off and on and when the Terminal is in "PIN check" mode the sequence "2839#" shall be entered.
- h) The correct PIN is entered.

6.1.7.5 Acceptance criteria

1) After step b) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "01".

- 2) After step c), the Terminal shall send a DISABLE PIN command to the UICC, with parameter P1="91" and P2 = "01".
- 3) After step d) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "11" and after unsuccessful execution of the command the Terminal shall indicate that the PIN has not been accepted.
- 4) After step e) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "11" and after successful execution of the command the Terminal shall indicate that the PIN has been accepted.
- 5) After step f), the Terminal shall send an ENABLE PIN command to the UICC, with parameter P2 = "01".
- 6) After step g) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "01" and after unsuccessful execution of the command the Terminal shall indicate that the PIN has not been accepted.
- 7) After step e) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "01" and after successful execution of the command the Terminal shall indicate that the PIN has been accepted.

6.1.8 Change of Universal PIN

6.1.8.1 Definition and applicability

The Universal PIN may be changed by the user, by entering the old and new Universal PIN. The length of the Universal PIN is between 4 and 8 digits.

6.1.8.2 Conformance requirement

The Terminal shall support the change of PIN procedure as defined in ETSI TS 102 221 [5], subclause 11.1.10.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.10;
- TS 31.102 [4], clause 6.

6.1.8.3 Test purpose

To verify that the PIN substitution procedure is performed correctly by the Terminal.

6.1.8.4 Method of test

6.1.8.4.1 Initial conditions

The Terminal is connected to a UICC or UICC simulator with the PIN enabled.

The default UICC is used with the following exception:

- The Universal PIN is used as a replacement of the PIN.

The Terminal is powered-on, with the correct Universal PIN entered.

6.1.8.4.2 Procedure

- a) The user shall initiate an MMI dependent procedure to change the Universal PIN to "01234567".
- b) The UE is switched off and on.
- c) When the UE is in the "PIN check" mode, the sequence "2839#" shall be entered.
- d) The UE is switched off and on.
- e) When the UE is in the "PIN check", mode the sequence "01234567#" shall be entered.

6.1.8.5 Acceptance criteria

- 1) After step a), the Terminal shall send a CHANGE PIN command to the UICC, with the parameter P2 set to "11".
- 2) Following the successful execution of the command, the UE shall give an indication that the new (Universal) PIN is accepted.
- 3) After step c), the UE shall give an indication that the entered (Universal) PIN is not accepted.
- 4) After step e), the UE shall give an indication "OK".

6.1.9 Unblock Universal PIN

6.1.9.1 Definition and applicability

After three consecutive wrong entries of the PIN, the PIN shall become blocked. The Unblock PIN command is used to unblock the PIN. This function may be performed whether or not the PIN is blocked.

6.1.9.2 Conformance requirement

The Terminal shall support the Unblock PIN command, as defined in ETSI TS 102 221 [5], subclause 11.1.13.

Reference:

- ETSI TS 102 221 [5], subclause 11.1.13;
- TS 31.102 [4], clause 6.

6.1.9.3 Test purpose

To verify that the PIN unblocking procedure is performed correctly.

6.1.9.4 Method of test

6.1.9.4.1 Initial conditions

The Terminal is connected to the UICC simulator.

The default UICC is used.

6.1.9.4.2 Procedure

- a) The Terminal is powered on and the correct PIN is entered.
- b) The user shall initiate an MMI dependent procedure to unblock the Universal PIN and set the new Universal PIN value to "1234"
- c) The Terminal is powered off and on.
- d) Enter the new PIN: "1234#".
- e) The Terminal is powered off and on.
- f) Enter a wrong PIN three times.
- g) The user shall initiate an MMI dependent procedure to unblock the Universal PIN and set the new Universal PIN value to "2839".
- h) The Terminal is powered off and on.
- i) Enter the new PIN: "2839#".

6.1.9.5 Acceptance criteria

- 1) After step b), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "11".
- 2) After step d), the Terminal shall indicate that the (Universal) PIN has been accepted.
- 3) After step f), the Terminal shall indicate that the (Universal) PIN has been blocked.
- 4) After step g), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "11".
- 5) After step j), the Terminal shall indicate that the (Universal) PIN has been accepted.

6.1.10 Entry of PIN on multi-verification capable UICCs

6.1.10.1 Definition and applicability

The PIN is a number used to authenticate the user to the UICC for security. Entry of the correct PIN allows PIN-protected data to be accessed over the UICC-Terminal interface. ETSI TS 102 221 [5] defines the range of "01" to "08" as key reference of the PIN on a multi-verification capable UICC.

6.1.10.2 Conformance requirement

Following insertion of the UICC and switching on the UE, the Terminal shall check the state of the PIN. If the PIN is enabled, the Terminal asks the user for PIN verification.

The VERIFY PIN function verifies the PIN presented by the Terminal to the UICC.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.9;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.1.

6.1.10.3 Test purpose

- 1) To verify that the PIN verification procedure is performed by the Terminal correctly.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "01" to "08" as PIN.

6.1.10.4 Method of test

6.1.10.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN enabled, and powered off.

The default UICC is used with the following exceptions:

8642

The UICC shall be configured to use "07" as the key reference of the PIN and "87" as key reference of the PIN2 with the following values:

PIN

Key reference: 07
Logically:

_	-							
Coding:	B1	B2	В3	B4	B5	В6	В7	В
Hex	38	36	34	32	FF	FF	FF	FF

64534231

57687980

Unblock PIN

Key reference 07

Logically:

Č	•				
Coding: Hex					

PIN2

Key reference 87

Logica	11y:	9753						
Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	39	37	35	33	FF	FF	FF	FF

Unblock PIN2

Key reference 87 Logically:

Coding:	B1	B2	В3	B4	B5	B6	B7	В8
Hex	35	37	36	38	37	39	38	30

6.1.10.4.2 Procedure

- a) The Terminal is powered on.
- b) When the UE is in the "PIN check" mode, the sequence "8642#" shall be entered.

6.1.10.5 Acceptance criteria

- 1) After step b) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "07".
- 2) After step b) the UE shall give an indication "OK", following a successful execution of the command.

6.1.11 Change of PIN on multi-verification capable UICCs

6.1.11.1 Definition and applicability

The PIN may be changed by the user, by entering the old and new PIN. The length of the PIN is between 4 and 8 digits. ETSI TS 102 221 [5] defines the range of "01" to "08" as key reference of the PIN on a multi-verification capable UICC.

6.1.11.2 Conformance requirement

The Terminal shall support the change of PIN procedure as defined in TS 102 221 [5], subclause 11.1.10.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.10;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.2.

6.1.11.3 Test purpose

- 1) To verify that the PIN substitution procedure is performed correctly by the Terminal.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "01" to "08" as PIN.

6.1.11.4 Method of test

6.1.11.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN enabled.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Key reference: 07

Logically: 8642

Coding: В1 B2 В3 B4 **B5** В6 B7 **B8** 38 FF FF FF Hex 36 34 32 FF

Unblock PIN

Key reference 07

Logically: 64534231

Coding: B1 B2 В3 B4 B5 B6 **B7 B8** Hex 36 34 35 33 34 32 33 31

PIN2

Key reference 87

Logically: 9753

Coding: **B**1 B2 В3 B4 B5 **B6** B7 **B8** Hex 39 35 33 FF FF FF

Unblock PIN2

Key reference 87

Logically: 57687980

Coding: B1 B2 B3 B4 B5 B6 B7 B8 Hex 35 37 36 38 37 39 38 30

The Terminal is powered-on, with the correct PIN entered.

6.1.11.4.2 Procedure

a) Enter "**04*8642*01234567*01234567#" or initiate an equivalent MMI dependent procedure to change the PIN from '8642' to '01234567'..

- b) The UE is switched off and on.
- c) When the UE is in the "PIN check" mode, the sequence "8642#" shall be entered.
- d) The UE is switched off and on.
- e) When the UE is in the "PIN check", mode the sequence "01234567#" shall be entered.

6.1.11.5 Acceptance criteria

- 1) After step a), the Terminal shall send a CHANGE PIN command to the UICC, with the parameter P2 set to "07".
- 2) Following the successful execution of the command, the UE shall give an indication that the new PIN is accepted.
- 3) After step c), the UE shall give an indication that the entered PIN is not accepted.
- 3) After step e), the UE shall give an indication "OK".

6.1.12 Unblock PIN on multi-verification capable UICCs

6.1.12.1 Definition and applicability

After three consecutive wrong entries of the PIN, the PIN shall become blocked. The Unblock PIN command is used to unblock the PIN. This function may be performed whether or not the PIN is blocked. ETSI TS 102 221 [5] defines the range of "01" to "08" as key reference of the PIN on a multi-verification capable UICC.

6.1.12.2 Conformance requirement

The Terminal shall support the Unblock PIN command, as defined in ETSI TS 102 221 [5], subclause 11.1.13.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.13;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.3.

6.1.12.3 Test purpose

- 1) To verify that the PIN unblocking procedure is performed correctly.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "01" to "08" as PIN.

6.1.12.4 Method of test

6.1.12.4.1 Initial conditions

The Terminal is connected to the UICC simulator.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Key reference: 07

Logically: 8642

Coding: Hex	B1 38	B2 36	B3 34	B4 32	B5 FF	B6 FF	B7 FF	B8 FF
Unblock F	PIN							
Key refere	ence 07							
Logica	ılly:	645342	231					
Coding: Hex	B1 36	B2 34	B3 35	B4 33	B5 34	B6 32	B7 33	B8 31
PIN2								
Key refere	ence 87							
Logica	ılly:	9753						
Coding: Hex	B1 39	B2 37	B3 35	B4 33	B5 FF	B6 FF	B7 FF	B8 FF

Unblock PIN2

Key reference 87 Logically:

Coding: B1 B2 В3 B4 B5 B6 В7 В8 Hex 36 39 38 30 37 38 37

6.1.12.4.2 Procedure

Sequence A:

- a) The Terminal is powered on and the correct PIN is entered.
- b) Enter "**05*64534231*1234*1234#"

57687980

- c) The Terminal is powered off and on.
- d) Enter the new PIN: "1234#".
- e) The Terminal is powered off and on.
- f) Enter a wrong PIN three times.
- g) Enter "**05*64534231*8642*8642#".
- h) The Terminal is powered off and on.
- i) Enter the new PIN: "8642#".

Sequence B:

- a) The Terminal is powered on.
- b) Enter a wrong PIN three times.
- c) The user shall initiate a MMI dependent procedure to unblock the PIN with unblock code '64534231' and a new PIN '8642'.
- d) The Terminal is powered off and on.

e) Enter the new PIN: "8642#".

6.1.12.5 Acceptance criteria

Sequence A:

- 1) After step b), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "07".
- 2) After step d), the Terminal shall indicate that the PIN has been accepted.
- 3) After step f), the Terminal shall indicate that the PIN has been blocked.
- 4) After step g), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "07".
- 5) After step j), the Terminal shall indicate that the PIN has been accepted.

Sequence B:

- 1) After step b), the Terminal shall indicate that the PIN has been blocked.
- 2) After step c), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "07".
- 3) After step e), the Terminal shall indicate that the PIN has been accepted.

6.1.13 Entry of PIN2 on multi-verification capable UICCs

6.1.13.1 Definition and applicability

The PIN2 is a number used to authenticate the user to the UICC for security. Entry of the correct PIN2 allows PIN2-protected data to be accessed over the UICC-Terminal interface. ETSI TS 102 221 [5] defines the range of "81" to "88" as key reference of the PIN2 on a multi-verification capable UICC.

6.1.13.2 Conformance requirement

Before allowing the access to PIN2 protected data, the Terminal shall ask the user for PIN2 verification. Only after presenting the PIN2, the user shall get access to these data.

The VERIFY PIN function verifies the PIN2 presented by the Terminal to the UICC.

Reference:

- ETSI TS 102 221 [5], 9 and subclause 11.1.9;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.1.

6.1.13.3 Test purpose

- 1) To verify that the PIN2 verification procedure is performed by the Terminal correctly.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "81" to "88" as PIN2.

6.1.13.4 Method of test

6.1.13.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN enabled, and powered off.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Key refere	ence: 07							
Logica	ılly:	8642						
Coding: Hex	B1 38	B2 36	B3 34	B4 32	B5 FF	B6 FF	B7 FF	B8 FF
Unblock I	PIN							
Key refere	ence 07							
Logica	ılly:	645342	231					
Coding: Hex	B1 36	B2 34	B3 35	B4 33	B5 34	B6 32	B7 33	B8 31
PIN2								
Key refere	ence 87							
Logica	ılly:	9753						
Coding: Hex	B1 39	B2 37	B3 35	B4 33	B5 FF	B6 FF	B7 FF	B8 FF
Unblock I	PIN2							
Key refere	ence 87							
Logica	ılly:	576879	980					
Coding:	B1	B2	В3	B4	B5	B6	B7	В8

To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be NOTE: used. In this case the above mentioned exceptions shall apply.

38

30

39

6.1.13.4.2 Procedure

35

Hex

a) The Terminal is powered on and the correct PIN is entered.

36

38

b) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN)

37

c) When the UE is in the "PIN2 check" mode, the sequence "9753#" shall be entered.

6.1.13.5 Acceptance criteria

37

- 1) After step b) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "87".
- 2) After step b) the UE shall give an indication "OK", following a successful execution of the command.

6.1.14 Change of PIN2 on multi-verification capable UICCs

6.1.14.1 Definition and applicability

The PIN2 may be changed by the user, by entering the old and new PIN2. The length of the PIN2 is between 4 and 8 digits. ETSI TS 102 221 [5] defines the range of "81" to "88" as key reference of the PIN2 on a multi-verification capable UICC.

6.1.14.2 Conformance requirement

The Terminal shall support the change of PIN2 procedure as defined in ETSI TS 102 221 [5], subclause 11.1.10.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.10;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.2.

6.1.14.3 Test purpose

- 1) To verify that the PIN2 substitution procedure is performed correctly by the Terminal.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "81" to "88" as PIN2.

6.1.14.4 Method of test

6.1.14.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN2 enabled.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Key reference: 07

Logically: 8642

Coding: **B1** B2 R3 B4 **B5 B6** R7 **B8** Hex 38 36 34 32 FF FF FF FF

Unblock PIN

Key reference 07

Logically: 64534231

ВЗ Coding: **B**1 B2 B4 **B5 B7 B8** B6 Hex 36 34 35 33 34 32 33 31

PIN2

Key reference 87

Logica	ally:	9753					
Coding: Hex			B4 33	B5 FF	B6 FF	B7 FF	B8 FF

Unblock PIN2

Key reference 87

Logically: 57687980 **B8** Coding: B1 B2 **B**3 R4 **B**5 **B6** B7 Hex 35 37 36 38 37 39 38 30

NOTE: To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be used. In this case the above mentioned exceptions shall apply.

The Terminal is powered-on, with the correct PIN entered.

6.1.14.4.2 Procedure

- a) Enter "**042*9753*12345678*12345678#" or initiate an equivalent MMI dependent procedure to change PIN2 from '9753' to '12345678'.
- b) The UE is switched off and on and the correct PIN is entered.
- c) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- d) When the UE is in the "PIN2 check" mode, the sequence "9753#" shall be entered.
- e) The UE is switched off and on and the correct PIN is entered.
- f) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- g) When the UE is in the "PIN2-check", mode the sequence "12345678#" shall be entered.

6.1.14.5 Acceptance criteria

- 1) After step a), the Terminal shall send a CHANGE PIN2 command to the UICC, with the parameter P2 set to "87".
- 2) Following the successful execution of the command, the UE shall give an indication that the new PIN2 is accepted.
- 3) After step d), the UE shall give an indication that the entered PIN2 is not accepted.
- 3) After step g), the UE shall give an indication "OK".

6.1.15 Unblock PIN2 on multi-verification capable UICCs

6.1.15.1 Definition and applicability

After three consecutive wrong entries of the PIN2, the PIN2 shall become blocked. The Unblock PIN2 command is used to unblock the PIN2. This function may be performed whether or not the PIN2 is blocked. ETSI TS 102 221 [5] defines the range of "81" to "88" as key reference of the PIN2 on a multi-verification capable UICC.

6.1.15.2 Conformance requirement

The Terminal shall support the Unblock PIN2 command, as defined in ETSI TS 102 221 [5], subclause 11.1.13.

Reference:

- ETSI TS 102 221 [5], subclauses 9 and 11.1.13;
- TS 31.102 [4], clause 6;
- TS 22.030 [12], subclause 6.6.3.

6.1.15.3 Test purpose

- 1) To verify that the PIN2 unblocking procedure is performed correctly.
- 2) To verify that the basic public MMI string is supported.
- 3) To verify that the Terminal supports key references in the range of "81" to "88" as PIN2.

6.1.15.4 Method of test

6.1.15.4.1 Initial conditions

The Terminal is connected to the UICC simulator.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Coding:

Hex

B1

35

B2

37

B3

36

B4

38

B5

37

Key reference: 07

Logica	ılly:	8642						
Coding: Hex	B1 38	B2 36	B3 34	B4 32	B5 FF	B6 FF	B7 FF	B8 FF
Unblock I	PIN							
Key refere	ence 07							
Logica	ılly:	645342	231					
Coding: Hex	B1 36	B2 34	B3 35	B4 33	B5 34	B6 32	B7 33	B8 31
PIN2								
Key refere	ence 87							
Logica	ılly:	9753						
Coding: Hex	B1 39	B2 37	B3 35	B4 33	B5 FF	B6 FF	B7 FF	B8 FF
Unblock I	PIN2							
Key refere	ence 87							
Logica	ally:	576879	980					

B6

39

B7

38

В8

30

NOTE: To perform the UPDATE FDN data (as described in the procedure below), the default FDN UICC may be used. In this case the above mentioned exceptions shall apply.

6.1.15.4.2 Procedure

Sequence A:

- a) The Terminal is powered on and the correct PIN is entered.
- b) Enter "**052*57687980*1234*1234#"
- c) The Terminal is powered off and on and the correct PIN is entered.
- d) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- e) Enter the new PIN2: "1234#".
- f) The Terminal is powered off and on and the correct PIN is entered.
- g) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- h) Enter a wrong PIN2 three times.
- i) Enter "**052*57687980*9753*9753#".
- j) The Terminal is powered off and on and the correct PIN is entered.
- k) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- 1) Enter the new PIN2: "9753#".

Sequence B:

- a) The Terminal is powered on .
- b) Enter a wrong PIN2 three times.
- c) The user shall initiate a MMI dependent procedure to unblock the PIN2 with unblock code '57687980' and a new PIN2 '9753'.
- d) The Terminal is powered off and on and the correct PIN is entered.
- e) The access to a PIN2 protected data field shall be performed (e.g. UPDATE FDN).
- f) Enter the new PIN2: "9753#".

6.1.15.5 Acceptance criterias

Sequence A:

- 1) After step b), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "87".
- 2) After step e), the Terminal shall indicate that the PIN2 has been accepted.
- 3) After step h), the Terminal shall indicate that the PIN2 has been blocked.
- 4) After step i), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "87".
- 5) After step 1), the Terminal shall indicate that the PIN2 has been accepted.

Sequence B:

- 1) After step b), the Terminal shall indicate that the PIN2 has been blocked.
- 2) After step c), the Terminal shall send an UNBLOCK PIN command to the UICC, with parameter P2 = "87".
- 3) After step f), the Terminal shall indicate that the PIN2 has been accepted.

6.1.16 Replacement of PIN with key reference "07"

6.1.16.1 Definition and applicability

The Universal PIN may be used to replace a PIN used to authenticate the user to the UICC for security. In this case entry of the correct Universal PIN allows PIN-protected data to be accessed over the UICC-Terminal interface.

6.1.16.2 Conformance requirement

The Terminal shall support the usage of the Universal PIN as replacement PIN and the replacement procedure as defined in ETSI TS 102 221 [5], subclause 11.1.11, as well as the procedure to disable the replacement defined in ETSI TS 102 221 [5], subclause 11.1.12.

Reference:

- ETSI TS 102 221 [5], subclauses 9, 11.1.11 and 11.1.12;
- TS 31.102 [4], clause 6.

6.1.16.3 Test purpose

- 1) To verify that the PIN replacement is supported by the Terminal correctly.
- 2) To verify that the PIN replacement procedure is performed by the Terminal correctly.
- 3) To verify that the procedure to disable the PIN replacement is performed by the Terminal correctly.
- 4) To verify that the Terminal supports key references in the range of "01" to "08" as PIN.

6.1.16.4 Method of test

6.1.16.4.1 Initial conditions

The Terminal is connected to the UICC simulator with the PIN enabled, and powered off.

The default UICC is used with the following exceptions:

The UICC shall be configured to use "07" as the reference of the PIN and "87" as reference of the PIN2 with the following values:

PIN

Key reference: 07

Logically:	8642

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex								

Unblock PIN

Key reference 07

Logica	Logically:		4231					
Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	36	34	35	33	34	32	33	31

PIN2

Key reference 87

Logica	lly:	9753						
Coding: Hex	B1 39	B2 37	B3 35	B4 33	B5 FF	B6 FF	B7 FF	B8 FF
Unblock P	PIN2							
Key refere	ence 87							
Logica	lly:	576879	980					
Coding: Hex	B1 35	B2 37	B3 36	B4 38	B5 37	B6 39	B7 38	B8 30

6.1.16.4.2 Procedure

a) The Terminal is powered on.

b) When the Terminal is in the "PIN check" mode, the sequence "8642#" shall be entered.

- c) The user shall initiate an MMI dependent procedure to replace the PIN by the Universal PIN.
- d) The Terminal is powered off and on and when the Terminal is in "PIN check" mode the sequence "8642#" shall be entered.
- e) The correct Universal PIN is entered.
- f) The user shall initiate an MMI dependent procedure to disable the replacement of the PIN by the Universal PIN.
- g) The Terminal is powered off and on and when the Terminal is in "PIN check" mode the sequence "2839#" shall be entered.
- h) The correct PIN is entered.

6.1.16.5 Acceptance criteria

- 1) After step b) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "07".
- 2) After step c), the Terminal shall send a DISABLE PIN command to the UICC, with parameter P1="91" and P2 = "07".
- 3) After step d) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "11" and after unsuccessful execution of the command the Terminal shall indicate that the PIN has not been accepted.
- 4) After step e) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "11" and after successful execution of the command the Terminal shall indicate that the PIN has been accepted.
- 5) After step f), the Terminal shall send an ENABLE PIN command to the UICC, with parameter P2 = "07".
- 6) After step g) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "07" and after unsuccessful execution of the command the Terminal shall indicate that the PIN has not been accepted.
- 7) After step h) the Terminal shall send a VERIFY PIN command to the UICC, with parameter P2 = "07" and after successful execution of the command the Terminal shall indicate that the PIN has been accepted.

6.2 Fixed Dialling Numbers (FDN) handling

6.2.1 Terminal and USIM with FDN enabled, EF_{ADN} readable and updateable

6.2.1.1 Definition and applicability

Fixed Dialling Numbers (FDN) is a service defined for the USIM. An enabled FDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of FDN the UE runs the FDN capability request procedure during UICC-Terminal initialisation. During the initialisation the Terminal shall request the Emergency call codes of the USIM EF_{ECC} . At the time an emergency call is setup using the emergency call code read from the EF_{ECC} , the UE shall use the category of the emergency service indicated.

6.2.1.2 Conformance requirement

- 1) Recognising the state of the USIM (FDN enabled) the UE shall perform the UICC initialisation procedure as specified.
- 2) The UE allows call set-up to a directory number as stored in EF_{FDN}.
- 3) The UE allows call set-up to a directory number as stored in EF_{FDN} and extended by digits in the end.
- 4) The UE does not allow call set-up to a directory number stored in EF_{FDN} but with missing digits at the end.
- 5) The UE does not allow call set-up to a directory number having no reference in EF_{EDN}.
- 6) The UE does not allow call set-up of an emergency call using the emergency numbers stored in the Terminal except "112", "911", the emergency numbers stored on the SIM/USIM and emergency numbers downloaded from the serving network (if any).
- 7) The UE allows call set-up of an emergency call using the emergency number stored in the USIM.

Reference:

- TS 22.101 [11], clauses 8 and A.24;
- TS 31.102 [4], subclauses 4.4.2, 4.2.24, 5.1.1 and 5.3.2;
- TS 24.008 [16], subclause 10.5.4.33.

6.2.1.3 Test purpose

- 1) To verify that the Terminal allows call set-up to a FDN number.
- 2) To verify that the Terminal allows call set-up to a FDN number extended by some digits in the end.
- 3) To verify that the Terminal rejects call set-up to number having no reference in EF_{FDN} .
- 4) To verify that the Terminal rejects call set-up to a FDN number not completely corresponding to an entry in EF_{FDN} .
- 5) To verify that the Terminal does not allow emergency call set-up using the emergency number stored in the Terminal except "112", "911", the emergency numbers stored on the SIM/USIM and emergency numbers downloaded from the serving network (if any).
- 6) To verify that the Terminal allows emergency call set-up using the emergency number stored in the UISM.

6.2.1.4 Method of test

6.2.1.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default FDN UICC with FDN service enabled and EF_{ADN} readable and updateable is installed into the Terminal.

The following expection applies:

EF_{ECC} (Emergency Call Codes)

Logica	ally:	Emerge	ency call co ency call co ency call So	ode alpha i		"122"; "TEST RFU.	''·	
Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	00

6.2.1.4.2 Procedure

- a) The UE is powered on and PIN is entered.
- b) Using the MMI a call set-up to the fixed dialling number 1 (record 1) is attempted.
- c) Using the MMI a call set-up to the fixed dialling number 2 (record 2) extended by "123" in the end is attempted.
- d) Using the MMI a call set-up to a number which is equal to the fixed dialling number 3 (record 3) without the last digit is attempted, e.g. by recalling the fixed dialling number 3 and deleting the last digit (only in display).
- e) Using the MMI a call set-up to the number "1234567" is attempted.
- f) Using the MMI an emergency call set-up is attempted using an emergency call code stored in the Terminal, but not "112", "911" nor one of the emergency numbers stored on the SIM/USIM emergency numbers downloaded from the serving network (if any).
- g) Using the MMI an emergency call set-up is attempted using either "112", "911" or an emergency number downloaded from the serving network (if any).
- h) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step f) one of the emergency call codes according to TS 22.101 [11], subclause 10.1, except "112" and "911", shall be used (i.e. "000", "08", "110", "118", "119" or "999").

6.2.1.5 Acceptance criteria

- 1) After step a) the UE is registered and in idle state.
- 2) After steps b) and c) the UE shall allow call set-up and send the requested number across the air interface.
- 3) After steps d), e) and f) the UE shall prevent call set-up.
- 4) After steps g) and h) the UE shall allow emergency call by indicating the call setup as "Emergency Call".

6.2.2 Terminal and USIM with FDN disabled

6.2.2.1 Definition and applicability

Fixed Dialling Numbers (FDN) is a service defined for the USIM. An enabled FDN service results in call restrictions for the UE. Only directory numbers which are stored in the EF_{FDN} may be dialled by the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of FDN the UE runs the FDN capability request procedure during UICC-Terminal initialisation. Deactivation of the service by the subscriber is possible under the control of PIN2 and switches the USIM into a "normal", non restrictive USIM.

6.2.2.2 Conformance requirement

- 1) Recognising the state of the USIM (FDN disabled) the UE correctly performs the UICC initialisation procedure.
- 2) The UE allows call set-up to a directory number as stored in EF_{FDN}.
- 3) The UE allows call set-up to a directory number as stored in EF_{ADN}.
- 4) The UE allows call set-up to a directory number given in manually.

Reference:

- R99: TS 22.101 [11], clauses 8 and A.24
- Rel-4: TS 22.101 [11], clauses 9 and A.25
- Rel-5, Rel-6: TS 22.101 [11], clauses 10 and A.25;
- TS 31.102 [4], subclauses 4.4.2.3, 4.2.24, 4.2.47, 5.1.1 and 5.3.2.

6.2.2.3 Test purpose

- 1) To verify that the Terminal as a result of the state of the USIM correctly performs the UICC-Terminal initialisation procedure.
- 2) To verify that the Terminal allows call set-up to a FDN number.
- 3) To verify that the Terminal allows call set-up to a ADN number.
- 4) To verify that the Terminal allows call set-up to manually given number.

6.2.2.4 Method of test

6.2.2.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN) /SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

Access control: unrestricted.

The default FDN UICC is used with the following exception:

EF_{EST} (Enable Service Table)

Logically: Fixed Dialling Numbers disabled.

> Barred Dialling Numbers disabled. APN Control list (ACL) disabled.

Coding: **B**1

binary

0000 0000

The UICC is installed into the Terminal and the UE is powered on.

6.2.2.4.2 Procedure

- a) Using the MMI a call set-up to the fixed dialling number 1 is attempted.
- b) Using the MMI a call set-up to the abbreviated dialling number 1 is attempted.
- c) Using the MMI a call set-up to the number "1234567" is attempted.

6.2.2.5 Acceptance criteria

After steps a), b) and c) the UE shall allow call set-up and send the requested number across the air interface.

6.2.3 Enabling, disabling and updating of FDN

6.2.3.1 Definition and applicability

FDN may be enabled and disabled by the subscriber under control of PIN2. Fixed dialling numbers are read with PIN and updated under control of PIN2.

6.2.3.2 Conformance requirement

- 1) Recognising the state of the USIM (FDN enabled) the UE shall perform the UICC initialisation procedure as specified.
- 2) The UE shall allow updating of EF_{FDN} by the use of PIN2.
- 3) The UE provides means to disable the FDN service by the use of PIN2.
- 4) The UE shall allow the use of EF_{ADN} after disabling of FDN.

Reference:

- R99: TS 22.101 [11], clauses 8 and A.24
- Rel-4: TS 22.101 [11], clauses 9 and A.25
- Rel-5, Rel-6: TS 22.101 [11], clause 10 and A.25;
- TS 31.102 [4], subclauses 4.4.2.3, 4.2.24, 4.2.47, 5.1.1 and 5.3.2.

6.2.3.3 Test purpose

- 1) To verify that the Terminal correctly performs the update of a number in EF_{FDN}.
- 2) To verify that the Terminal correctly disables FDN service.
- 3) To verify that the Terminal recognises disabling of FDN and allows access to EF_{ADN}.

6.2.3.4 Method of test

6.2.3.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default FDN UICC with FDN service enabled is installed into the Terminal.

6.2.3.4.2 Procedure

- a) The UE is powered on and PIN is entered.
- b) Using the MMI the directory number "+876543210" is stored in EF_{FDN} as fixed dialling number 1 (record 1). The alpha identifier is not changed. On request of the UE PIN2 is entered.
- c) Using the MMI the FDN disabling procedure is performed. On request of the UE PIN2 is entered.
- d) Using the MMI a call set-up to the abbreviated dialling number 1 (record 1) is attempted.
- e) The UE is soft-powered down.

6.2.3.5 Acceptance criteria

- 1) After step a) the UE is registered and in idle state.
- 2) After step c) the UE shall indicate that the FDN disabling procedure has been successful.
- 3) After step d) the UE shall allow call set-up and send the requested number across the air interface.
- 4) After step e) record 1 in EF_{FDN}, shall contain the following values:

Hex	B1 46		_	B4 31	-	_	B7 06	_	-	_	B11 34	B13 F0
	B14 FF	_	_	B17 FF	B18 FF	B19 FF	B20 FF					

6.2.4 Terminal and USIM with FDN enabled, EF_{ADN} readable and updateable (Rel-4 and onwards)

6.2.4.1 Definition and applicability

Fixed Dialling Numbers (FDN) is a service defined for the USIM. An enabled FDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of FDN the UE runs the FDN capability request procedure during UICC-Terminal initialisation. During the initialisation the Terminal shall request the Emergency call codes of the USIM EF_{ECC} . At the time an emergency call is setup using the emergency call code read from the EF_{ECC} , the UE shall use the category of the emergency service indicated.

6.2.4.2 Conformance requirement

- 1) Recognising the state of the USIM (FDN enabled) the UE shall perform the UICC initialisation procedure as specified.
- 2) The UE allows call set-up to a directory number as stored in EF_{FDN}.

- 3) The UE allows call set-up to a directory number as stored in EF_{FDN} and extended by digits in the end.
- 4) The UE does not allow call set-up to a directory number stored in EF_{FDN} but with missing digits at the end.
- 5) The UE does not allow call set-up to a directory number having no reference in EF_{FDN}.
- 6) The UE does not allow call set-up of an emergency call using the emergency numbers stored in the Terminal except "112", "911", the emergency numbers stored on the SIM/USIM and emergency numbers downloaded from the serving network (if any).
- 7) The UE allows call set-up of an emergency call using the emergency number stored in the USIM.
- 8) The UE shall indicate the emergency service category as "Mountain Rescue", when using the emergency number stored in the USIM.

Reference:

- Rel-4: TS 22.101 [11], clauses 9 and A.25
- Rel-5, Rel-6: TS 22.101 [11], clauses 10 and A.25;
- TS 31.102 [4], subclauses 4.4.2, 4.2.24, 5.1.1 and 5.3.2;
- TS 24.008 [16], subclause 10.5.4.33.

6.2.4.3 Test purpose

- 1) To verify that the Terminal allows call set-up to a FDN number.
- 2) To verify that the Terminal allows call set-up to a FDN number extended by some digits in the end.
- 3) To verify that the Terminal rejects call set-up to number having no reference in EF_{EDN} .
- 4) To verify that the Terminal rejects call set-up to a FDN number not completely corresponding to an entry in EF_{FDN} .
- 5) To verify that the Terminal does not allow emergency call set-up using the emergency number stored in the Terminal except "112", "911", the emergency numbers stored on the SIM/USIM and emergency numbers downloaded from the serving network (if any).
- 6) To verify that the Terminal allows emergency call set-up using the emergency number stored in the UISM.
- 7) To verify that the Terminal reads correctly the emergency service category.

6.2.4.4 Method of test

6.2.4.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing GERAN) transmits on the BCCH, with the following network parameters

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The default FDN UICC with FDN service enabled and EF_{ADN} readable and updateable is installed into the Terminal.

6.2.4.4.2 Procedure

- a) The UE is powered on and PIN is entered.
- b) Using the MMI a call set-up to the fixed dialling number 1 (record 1) is attempted.

- c) Using the MMI a call set-up to the fixed dialling number 2 (record 2) extended by "123" in the end is attempted.
- d) Using the MMI a call set-up to a number which is equal to the fixed dialling number 3 (record 3) without the last digit is attempted, e.g. by recalling the fixed dialling number 3 and deleting the last digit (only in display).
- e) Using the MMI a call set-up to the number "1234567" is attempted.
- f) Using the MMI an emergency call set-up is attempted using an emergency call code stored in the Terminal, but not "112", "911" nor one of the emergency numbers stored on the SIM/USIM emergency numbers downloaded from the serving network (if any).
- g) Using the MMI an emergency call set-up is attempted using either "112", "911" or an emergency number downloaded from the serving network (if any).
- h) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step f) one of the emergency call codes according to TS 22.101 [11], subclause 10.1, except "112" and "911", shall be used (i.e. "000", "08", "110", "118", "119" or "999").

6.2.4.5 Acceptance criteria

- 1) After step a) the UE is registered and in idle state.
- 2) After steps b) and c) the UE shall allow call set-up and send the requested number across the air interface.
- 3) After steps d), e) and f) the UE shall prevent call set-up.
- 4) After steps g) and h) the UE shall allow emergency call by indicating the call setup as "Emergency Call".
- 5) After step h) the UE shall send the emergency service category correctly as "Mountain Rescue".

6.3 Void

6.4 Advice of charge (AoC) handling

6.4.1 AoC not supported by USIM

6.4.1.1 Definition and applicability

If the Terminal under test supports Advice of Charge Charging, it shall still look at the capability of the USIM, before responding to any AoCC information from the network.

6.4.1.2 Conformance requirement

- An UE not supporting AoCC and in the outgoing call / U4 call delivered state, on receipt of a CONNECT message containing AoCC information shall acknowledge the CONNECT message but ignore and not acknowledge the AoCC information sent within the CONNECT.
- 2) An UE not supporting AoCC and in the outgoing call / U4 call delivered state, on receipt of a FACILITY message containing AoCC information shall ignore and not acknowledge the AoCC information sent within the FACILITY.
- 3) An UE not supporting AoCC and in the incoming call / U9 call confirmed state, on receipt of a FACILITY message containing AoCC information shall ignore and not acknowledge the AoCC information sent within the FACILITY.
- 4) An UE not supporting AoCC and in the U10 call active state, on receipt of a FACILITY message containing AoCC information, shall ignore and not acknowledge the AoCC information sent within the FACILITY.

References:

- TS 24.008 [16], subclause 5.1.2.1;
- TS 23.086 [9], subclauses 1.2, 1.3, 2.2 and 2.3;
- TS 24.086 [10], clause 2.

6.4.1.3 Test purpose

- To verify that an UE not supporting AoCC (where the Terminal does support AoCC but the USIM does not) and
 in the outgoing call / U4 call delivered state, on receipt of a CONNECT message containing AoCC information
 shall acknowledge the CONNECT message but ignore and not acknowledge the AoCC information sent within
 the CONNECT.
- 2) To verify that an UE not supporting AoCC (where the Terminal does support AoCC but the USIM does not) and in the outgoing call / U4 call delivered state, on receipt of a FACILITY message containing AoCC information shall ignore and not acknowledge the AoCC information sent within the FACILITY.
- 3) To verify that an UE not supporting AoCC (where the Terminal does support AoCC but the USIM does not) and in the incoming call / U9 call confirmed state, on receipt of a FACILITY message containing AoCC information shall ignore and not acknowledge the AoCC information sent within the FACILITY.
- 4) To verify that an UE not supporting AoCC (where the Terminal does support AoCC but the USIM does not) and in the U10 call active state, on receipt of a FACILITY message containing AoCC information, shall ignore and not acknowledge the AoCC information sent within the FACILITY.

6.4.1.4 Method of test

6.4.1.4.1 Initial conditions

The Terminal shall be installed with a UICC or USIM simulator, with all elementary files coded as for the default UICC, with the exception of:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available;

User controlled PLMN selector available;

Fixed dialling numbers available; The GSM Access available;

The Group Identifier level 1 and level 2 not available;

AoC not available.

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xxxx xx11
 xxx0 xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xxx1

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

The generic call set up procedures for UTRAN defined in TS 34.108 [21], subclause 7.2.3.2.3 and 7.2.3.1.3 and defined in TS 51.010-1 [22], clause 10 for GERAN are followed up to and including the reception, or transmission of the ALERTING message by the UE.

6.4.1.4.2 Procedure

- a) For an MO call in the U4 state the USS/SS transmits CONNECT containing AoCC information.
- b) For an MO call in the U4 state the USS/SS transmits FACILITY containing AoCC information.
- c) For an MT call in the U9 state the USS/SS transmits FACILITY containing AoCC information.
- d) For an MO call in the U10 state the USS/SS transmits FACILITY containing AoCC information.

6.4.1.5 Acceptance criteria

In all cases, the UE shall ignore the AoCC information sent to it in the Facility information elements as part of the CONNECT/FACILITY messages and not send any AoCC information acknowledgement. It shall be checked for 15 s that the UE does not transmit any AoCC information acknowledgement after the receipt of AoCC information.

6.4.2 Maximum frequency of ACM updating

6.4.2.1 Definition and applicability

During a call, the ACM shall be updated at the end of every interval. The interval length is the greater of either 5 s or the value given by parameter e2 (part of the Facility Information Element).

6.4.2.2 Conformance requirement

The ACM shall be incremented when the CCM is incremented or once every 5 s, whichever is the longer period.

When used the value '1C' shall be used as SFI for EF_{ACM} , for compatibility reasons the terminal shall accept other values.

Reference:

- TS 22.024 [8], subclause 4.3, part h;
- TS 31.102 [4], subclauses 4.2.9, 5.3.4 and Annex H.1.

6.4.2.3 Test purpose

- 1) To verify that the Terminal, during a call, increments the ACM every 5 s when e2 is less or equal to 5 s.
- 2) To verify that the Terminal is able to handle other values than '1C' as SFI of EF_{ACM}.

6.4.2.4 Method of test

6.4.2.4.1 Initial conditions

The Terminal shall be connected to the USIM simulator, with all elementary files coded as default with the exception of:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available;

User controlled PLMN selector available;

Fixed dialling numbers available; The GSM Access available;

The Group Identifier level 1 and level 2 not available;

AoC available.

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xxxx xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{ACM} (Accumulated call meter)

Logically: 50 units

The SFI of EF_{ACM} shall be set to '18'.

EF_{ACMmax} (Accumulated call meter maximum)

Logically: 150 units

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

User Equipment:

The UE is in MM-state "idle, updated".

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

6.4.2.4.2 Procedure

- a) The UE is made to initiate a call. The call establishment shall be performed according to the procedures defined in TS 34.108 [21], subclause 7.2.3.2.3 extended by the messages of the AoCC. The call is established with AoCC e-parameters sent in a Facility IE in the CONNECT message, as given below. The UE returns the AoCC acknowledgement after the reception of the CONNECT message. It is an implementation option whether the AoCC acknowledge is sent by the UE before or after the CONNECT ACKNOWLEDGE.
- b) The call is maintained for 90 s, then terminated by the USS. During the call, the USIM-simulator monitors the time intervals between successive INCREMENT commands. As the final INCREMENT command will have occurred as a result of call termination, the time interval calculated since the prior INCREMENT command shall be ignored.

Maximum Duration of Test:

2 minutes.

Expected Sequence A:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2		RRC CONNECTION REQUEST	
3		RRC CONNECTION SETUP	
4	UE -> USS	RRC CONNECTION SETUP	
		COMPLETE	
5		CM SERVICE REQUEST	
6	USS -> UE	AUTHENTICATION REQUEST	MM procedure, to ensure the successful start of integrity in step 8
7	UE -> USS	AUTHENTICATION RESPONSE	·
8	USS -> UE	SECURITY MODE COMMAND	RRC procedure, start of integrity is mandatory during call setup
9	UE -> USS	SECURITY MODE COMPLETE	'
10	UE -> USS		
11		CALL PROCEEDING	
12		RADIO BEARER SETUP	To a supported channel type
13	UE -> USS	RADIO BEARER	
		SETUPCOMPLETE	
14		ALERTING	
15	USS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A16		CONNECT ACKNOWLEDGE	
A17	UE -> USS	FACILITY	As default message except contains Facility IE with contents as indicated in ii) below
B16	UE -> USS	FACILITY	As default message except contains Facility IE with contents as indicated in ii) below
B17	UE -> USS	CONNECT ACKNOWLEDGE	<u> </u>
18			call duration 90 s after CAI information sent by USS,
19		DISCONNECT	
20	UE -> USS		
21		RELEASE COMPLETE	
22		RRC CONNECTION RELEASE	All connections of RRC are released.
23	UE -> USS	RRC CONNECTION RELEASE COMPLETE	

Expected Sequence B:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2	UE -> SS	CHANNEL REQUEST	
3	SS -> UE	IMMEDIATE ASSIGNMENT	
4	UE -> SS	CM SERVICE REQUEST	
5	SS -> UE	CM SERVICE ACCEPT	
6	UE -> SS	SETUP	
7	SS -> UE	CALL PROCEEDING	
8		ASSIGNMENT COMMAND	To a supported channel type
9		ASSIGNMENT COMPLETE	
10	SS -> UE	ALERTING	
11	SS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A12	UE -> SS	CONNECT ACKNOWLEDGE	
A13	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B12	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B13	UE -> SS	CONNECT ACKNOWLEDGE	
14			call duration 90 s after CAI information sent by SS,
15	SS -> UE	DISCONNECT	
16	UE -> SS	RELEASE	
17	SS -> UE	RELEASE COMPLETE	
18	SS -> UE	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents:

7) **FACILITY Information Element** with **Invoke = ForwardChargeInformation** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.3.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

The values of the e-parameters within the parameter part of the Facility Information Element shall be set as below:

e-parameters:

parameter: e1 e2 e3 e4 e5 e6 E7 value 1 1 1 0 0 0 0

Values shown in table are in the format and have units as in TS 22.024 [8], clause 3.

ii) FACILITY Information Element with **Return Result** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.4.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

6.4.2.5 Acceptance criteria

The UE shall, during a call, send INCREMENT commands to the USIM every 5 s.

6.4.3 Call terminated when ACM greater than ACMmax

6.4.3.1 Definition and applicability

ACMmax gives the maximum value of ACM, at which the current chargeable calls shall be terminated and no further calls may be made (except emergency calls).

6.4.3.2 Conformance requirement

ACM shall be incremented by the value of CCM.

If the ACMmax is valid, and the ACM becomes equal to or exceeds the value of the ACMmax, then all calls in progress, chargeable to the user, shall be terminated by the UE, once the chargeable interval determined by the CAI has elapsed, (except emergency calls).

When used the value '1C' shall be used as SFI for EF_{ACM} , for compatibility reasons the terminal shall accept other values.

Reference:

- TS 22.024 [8], subclauses 4.2.2 and 4.3 (part h);
- ETSI TS 102 221 [5], subclause 14.1.3;
- TS 31.102 [4], subclause 4.2.9, 5.3.4 and Annex H.1.

6.4.3.3 Test purpose

- 1) To verify that the Terminal increments the ACM by the correct number of units, even though this may take ACM above ACMmax.
- 2) To verify that the Terminal terminates the call.
- 3) To verify that the INCREMENT EF_{ACM} command is performed correctly by the terminal.
- 4) To verify that the Terminal is able to handle other values than '1C' as SFI of EF_{ACM}.

6.4.3.4 Method of test

6.4.3.4.1 Initial conditions

The Terminal shall be connected to a UICC or the USIM simulator, with all elementary files coded as default with the exception of:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available;

User controlled PLMN selector available;

Fixed dialling numbers available; The GSM Access available;

The Group Identifier level 1 and level 2 not available;

AoC available.

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xxxx xx11
 xxx1 xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{ACM} (Accumulated call meter)

Logically: 80 units

Coding: B1 B2 B3

binary 0000 0000 0000 0101 0000

The SFI of EF_{ACM} shall be set to '18'.

EF_{ACMmax} (Accumulated call meter maximum)

Logically: 94 units

Coding: B1 B2 B3

binary 0000 0000 0000 0101 1110

The USS transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

User Equipment:

The UE is in MM-state "idle, updated".

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

6.4.3.4.2 Procedure

a) The UE is made to initiate a call. The call establishment shall be performed according to the procedures defined in TS 34.108 [21], subclause 7.2.3.2.3 extended by the messages of the AoCC. The call is established with AoCC e-parameters sent in a Facility IE in the CONNECT message, as given below. The UE returns the AoCC acknowledgement after the reception of the CONNECT message. It is an implementation option whether the AoCC acknowledge is sent by the UE before or after the CONNECT ACKNOWLEDGE.

- b) The call is maintained until cleared by the UE (after $30\ s$).
- c) The contents of ACM are checked.

Maximum Duration of Test:

2 minutes.

Expected Sequence A:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2	UE -> USS	RRC CONNECTION REQUEST	
3		RRC CONNECTION SETUP	
4	UE -> USS	RRC CONNECTION SETUP	
		COMPLETE	
4A		CM SERVICE REQUEST	
5	USS -> UE	AUTHENTICATION REQUEST	MM procedure, to ensure the successful start of integrity in step 8
6	UE -> USS	AUTHENTICATION RESPONSE	·
7	USS -> UE	SECURITY MODE COMMAND	RRC procedure, start of integrity is mandatory during call setup
8	UE -> USS	SECURITY MODE COMPLETE	5514
9	UE -> USS		
10	USS -> UE	CALL PROCEEDING	
11	USS -> UE	RADIO BEARER SETUP	To a supported channel type
12	UE -> USS	RADIO BEARER SETUP	
		COMPLETE	
13	USS -> UE	ALERTING	
14	USS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A15		CONNECT ACKNOWLEDGE	
A16	UE -> USS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B15	UE -> USS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B16	UE -> USS	CONNECT ACKNOWLEDGE	
17			call duration 30 s after CAI information sent by USS
18		DISCONNECT	
19	USS -> UE		
20		RELEASE COMPLETE	
21		RRC CONNECTION RELEASE	All connections of RRC are released.
22	UE -> USS	RRC CONNECTION RELEASE COMPLETE	

Expected Sequence B:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2	UE -> SS	CHANNEL REQUEST	
3	SS -> UE	IMMEDIATE ASSIGNMENT	
4	UE -> SS	CM SERVICE REQUEST	
5	SS -> UE	CM SERVICE ACCEPT	
6	UE -> SS	SETUP	
7	SS -> UE	CALL PROCEEDING	
8		ASSIGNMENT COMMAND	To a supported channel type
9		ASSIGNMENT COMPLETE	
10		ALERTING	
11	SS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A12	UE -> SS	CONNECT ACKNOWLEDGE	
A13	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B12	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B13	UE -> SS	CONNECT ACKNOWLEDGE	
14			call duration 30 s after CAI information sent by SS
15	UE -> SS	DISCONNECT	
16	SS -> UE	RELEASE	
17	UE -> SS	RELEASE COMPLETE	
18	SS -> UE	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents:

7) **FACILITY Information Element** with **Invoke = ForwardChargeInformation** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.3.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

The values of the e-parameters within the parameter part of the Facility Information Element shall be set as below:

e-parameters:

parameter:	e1	e2	е3	e4	e5	e6	е7
value	10	10	1	0	0	0	0

Values shown in table are in the format and have units as in TS 22.024 [8], clause 3.

ii) FACILITY Information Element with **Return Result** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.4.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

6.4.3.5 Acceptance criteria

- 1) The UE shall terminate the call correctly 30 s after CAI was sent.
- 2) The value of ACM shall be 100 units.

6.4.4 Response codes of increase command of ACM

6.4.4.1 Definition and applicability

ACM has a maximum value in terms of coding, and an attempt by the Terminal to exceed that value by sending an INCREASE command shall result in an error message from the USIM. As the maximum of the ACM is equal to the maximum value of ACMmax, all current chargeable calls shall be terminated and no further calls may be made (except emergency calls).

6.4.4.2 Conformance requirement

The Terminal shall perform the increasing procedure, sending the amount to be increased.

The running accumulated charge shall be stored in the ACM of the USIM.

Where this charge cannot be stored in the UE, use of the telecommunications service shall be prevented.

At the time ACM exceeds it's maximum value, then all calls in progress, chargeable to the user, shall be terminated by the UE, once the chargeable interval determined by the CAI has elapsed, (except emergency calls).

When used the value '1C' shall be used as SFI for EF_{ACM} , for compatibility reasons the terminal shall accept other values.

References:

- TS 31.102 [4], subclauses 4.2.9, 5.3.4 and Annex H.1;
- TS 22.086 [18], subclauses 2.1 and 2.2.1.

6.4.4.3 Test purpose

- 1) To verify that the Terminal clears a charged call if the USIM indicates that the ACM cannot be increased.
- 2) To verify that the Terminal is able to handle other values than "1C" as SFI of EF_{ACM}.

6.4.4.4 Method of test

6.4.4.4.1 Initial conditions

The Terminal shall be connected to the USIM simulator, with all elementary files coded as default with the exception of:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available;

User controlled PLMN selector available;

Fixed dialling numbers available; The GSM Access available:

The Group Identifier level 1 and level 2 not available;

AoC available.

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xxxx xx11
 xxxx xxxx
 xxxx xxxx
 xxxx xxxx
 xxxx xxxx
 xxxx xxxx

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{ACM} (Accumulated call meter)

Logically: (Maximum value – 10) units

Coding: B1 B2 B3

binary 1111 1111 1111 1111 1111 0101

The SFI of EF_{ACM} shall be set to "18".

EF_{ACMmax} (Accumulated call meter maximum)

Logically: (Maximum value - 2) units

Coding: B1 B2 B3 binary 1111 1111 1111 1111 1111 11101

The USS transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

User Equipment:

The UE is in MM-state "idle, updated".

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

6.4.4.4.2 Procedure

- a) The UE is made to initiate a call. The call establishment shall be performed according to the procedures defined in TS 34.108 [21], subclause 7.2.3.2.3 extended by the messages of the AoCC. The call is established with AoCC e-parameters sent in a Facility IE in the CONNECT message, as given below. The UE returns the AoCC acknowledgement after reception of the CONNECT message. It is an implementation option whether the AoCC acknowledge is sent by the UE before or after the CONNECT ACKNOWLEDGE.
- b) After an interval has elapsed, the Terminal increments the ACM. When an INCREASE command is received, the USIM-simulator sends back the error "98 50".
- c) Conditions are reset to those described in the initial conditions. Steps a) and b) of the test are repeated, except that the error code sent by the USIM simulator at step b) is now "6F xx".
- d) Conditions are reset to those described in the initial conditions. Steps a) and b) of the test are repeated, except that the error code sent by the USIM simulator at step b) is now "65 81".

References:

- ETSI TS 102 221 [5], subclause 10.2.1.

Maximum Duration of Test:

3 minutes.

Expected Sequence A:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2	UE -> USS	RRC CONNECTION REQUEST	
3		RRC CONNECTION SETUP	
4	UE -> USS	RRC CONNECTION SETUP	
		COMPLETE	
4A	UE -> USS	CM SERVICE REQUEST	
5	USS -> UE	AUTHENTICATION REQUEST	MM procedure, to ensure the successful start of integrity in step 8
6	UE -> USS	AUTHENTICATION RESPONSE	'
7	USS -> UE	SECURITY MODE COMMAND	RRC procedure, start of integrity is mandatory during call setup
8 9	UE -> USS	SECURITY MODE COMPLETE	
10	UE -> USS	SETUP	
11		CALL PROCEEDING	
12		RADIO BEARER SETUP	To a supported channel type
13	UE -> USS	RADIO BEARER SETUP	
		COMPLETE	
14		ALERTING	
15	USS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A16		CONNECT ACKNOWLEDGE	
A17	UE -> USS	FACILITY	As default message except contains Facility IE with contents as indicated in ii) below
B16	UE -> USS	FACILITY	As default message except contains Facility IE with contents as indicated in ii) below
B17	UE -> USS	CONNECT ACKNOWLEDGE	,
18			call duration 10s after CAI information sent by USS
19	UE -> USS	DISCONNECT	,
20	USS -> UE	RELEASE	
21	UE -> USS	RELEASE COMPLETE	
22		RRC CONNECTION RELEASE	All connections of RRC are released.
23	UE -> USS	RRC CONNECTION RELEASE COMPLETE	

Expected Sequence B:

Step	Direction	Message	Comments
1	UE		The UE is made to initiate a call
2	UE -> SS	CHANNEL REQUEST	
3	SS -> UE	IMMEDIATE ASSIGNMENT	
4	UE -> SS	CM SERVICE REQUEST	
5	SS -> UE	CM SERVICE ACCEPT	
6	UE -> SS	SETUP	
7	SS -> UE	CALL PROCEEDING	
8		ASSIGNMENT COMMAND	To a supported channel type
9		ASSIGNMENT COMPLETE	
10		ALERTING	
11	SS -> UE	CONNECT	As default message except contains Facility IE with
			contents as indicated in i) below
			Either A or B branch is taken
A12	UE -> SS	CONNECT ACKNOWLEDGE	
A13	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B12	UE -> SS	FACILITY	As default message except contains Facility IE with
			contents as indicated in ii) below
B13	UE -> SS	CONNECT ACKNOWLEDGE	
14			call duration 10s after CAI information sent by SS
15	UE -> SS	DISCONNECT	
16	SS -> UE	RELEASE	
17		RELEASE COMPLETE	
18	SS -> UE	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents:

7) **FACILITY Information Element** with **Invoke = ForwardChargeInformation** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.3.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

The values of the e-parameters within the parameter part of the Facility Information Element shall be set as below:

e-parameters:

parameter: e1 e2 e3 e4 e5 e6 e7 value 20 10 1 0 0 0

Values shown in table are in the format and have units as in TS 22.024 [8], clause 3.

ii) FACILITY Information Element with **Return Result** component type as defined in TS 24.080 [17], subclause 3.6.1 table 3.4.

For ASN.1 description see default message contents in TS 51.010-1 [22], subclause 31.6.4.

6.4.4.5 Acceptance criteria

- 1) The UE shall terminate the call correctly 10 s after CAI was sent.
- 2) In each of the three cases, as described in steps b), c) and d) of the procedure, the UE shall terminate the call correctly when it receives an indication from the USIM that the ACM cannot be incremented.

7 PLMN related tests

7.1 FPLMN handling

7.1.1 Adding FPLMN to the Forbidden PLMN list

7.1.1.1 Definition and applicability

A list of forbidden PLMNs stored in the USIM and providing storage for at least 4 entries is managed by the UE. In automatic PLMN selection mode the UE controls registration attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a registration reject with the cause "PLMN not allowed" the UE stores the PLMN which rejected the update request in the USIM.

The registration attempts initiated by the 3G UE depends on UEs capabilities and can be one of the following:

- I. registration procedures for UEs supporting CS or
- II. registration procedures for UEs supporting PS or

III. registration procedures for UEs supporting CS/PS

7.1.1.2 Conformance requirement

In case of a 2G terminal:

1) In automatic PLMN selection mode the UE shall only attempt a LOCATION UPDATE if it receives a BCCH containing a LAI that is not indicated in the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 2) After receipt of a LOCATION UPDATING REJECT message with the cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 3) After call termination the USIM shall contain the correct Ciphering Key Sequence Number.

Reference:

- TS 31.102 [4], subclauses 5.1.2, 5.2.5 and 5.2.6;
- TS 21.111 [19], subclause 10.1.
- 4) After call termination the USIM shall contain the correct TMSI and location information received by the UE.

Reference:

- TS 31.102 [4], subclauses 5.1.2, 5.2.5 and 5.2.6;
- TS 21.111 [19], subclause 10.1.

In case of a 3G terminal:

- 1) Depending on which domain the UE is going to be registered on, one of the following requirements should be fulfilled:
 - I. In automatic PLMN selection mode the UE shall only attempt a LOCATION UPDATING REQUEST during registration on CS if it receives a BCCH containing a PLMN(MCC,MNC) that is not indicated in the EF FPLMN in the USIM or
 - II. in automatic PLMN selection mode the UE shall only attempt a ATTACH REQUEST during registration on PS if it receives a BCCH containing a PLMN(MCC,MNC) that is not indicated in the EF_{FPLMN} in the USIM or
 - III. in automatic PLMN selection mode the UE shall only attempt a LOCATION UPDATING REQUEST and/or ATTACH REQUEST during registration on CS/PS if it receives a BCCH containing a PLMN(MCC,MNC) that is not indicated in the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 2) Depending on which domain the UE is going to be on, one of the following requirements should be fulfilled:
 - I. After receipt of a LOCATION UPDATING REJECT message during registration on CS with the cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM or.
 - II. after receipt of a ATTACH REJECT message during registration on PS with the cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM or
 - III. after receipt of a LOCATION UPDATING REJECT and/or ATTACH REJECT message during registration on CS/PS with the cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 3.2.2 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 3) After call termination the USIM shall contain the correct Key Set Identifier.
- 4) Depending on which domain the UE is going to be registered on, one of the following requirements should be fulfilled:
 - after registration on CS the USIM shall contain the correct TMSI and location information received by the UE or
 - II. after registration on PS the USIM shall contain the correct P-TMSI and routing information received by the UE or
 - III. after registration on CS/PS the USIM shall contain the correct TMSI, P-TMSI, location information and routing information received by the UE.

Reference:

- TS 31.102 [4], subclauses 5.1.2, 5.2.5 and 5.2.6;
- TS 21.111 [6], subclause 10.1.
- 5) After call termination the USIM shall contain the correct TMSI and location information received by the UE.

Reference:

- TS 31.102 [4], subclauses 5.1.2, 5.2.5 and 5.2.6;
- TS 21.111 [6], subclause 10.1.

7.1.1.3 Test purpose

In case of a 2G terminal:

- To verify that in automatic PLMN selection mode the UE does not attempt to access PLMNs stored in EF_{FPLMN} on the USIM.
- 2) To verify that the EF_{FPLMN} is correctly updated by the Terminal after receipt of a LOCATION UPDATING REJECT message with cause "PLMN not allowed".
- 3) To verify that the EF_{LOCI} has been correctly updated by the Terminal.

In case of a 3G terminal:

- To verify that in automatic PLMN selection mode the UE does not attempt to access PLMNs stored in EF_{FPLMN} on the USIM.
- 2) To verify that the EF_{FPLMN} is correctly updated by the Terminal after receipt of a
 - I. LOCATION UPDATING REJECT message with cause "PLMN not allowed" during registration on CS or.
 - II. ATTACH REJECT message with cause "PLMN not allowed" during registration on PS or.
 - III. LOCATION UPDATING REJECT and/or ATTACH REJECT message with cause "PLMN not allowed" during registration on CS/PS.
- 3) To verify that
 - I. the EF_{LOCI} has been correctly updated by the Terminal during registration on CS or.
 - II. the EF_{PSLOCI} has been correctly updated by the Terminal during registration on PS or.
 - III. the the EF_{LOCI} and EF_{PSLOCI} have been correctly updated by the Terminal during registration on CS/PS.
- 4) To verify that the EF_{Keys} has been correctly updated by the Terminal.

7.1.1.4 Method of test

7.1.1.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 234/002/0001.

- RAI (MCC/MNC/LAC/RAC): 234/002/0001/05. (only for UTRAN cell)

- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC is used with the following exception:

EF_{IMSI} (IMSI)

Logically: 246081111111111

Coding: **B1** B2 **B**3 B4 **B**5 B6 B7 B8 B9 29 80 11 Hex 08 64 11 11 11

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 234

LAI-MNC: 007 LAI-LAC: 0000

TMSI: "32547698"

Coding: B1 B2 **B3 B4 B**5 B6 **B7** B8 **B9** B10 B11 Hex 32 54 76 98 32 74 00 00 00 FF 00

EF_{PSLOCI} (Packet Switched location Information)

Logically: RAI-MCC: 234

RAI-MNC: 007 RAI-LAC: 0000 RAI-RAC: 05

P-TMSI: "32547698"

P-TMSI signature value: "112233"

Coding: В3 B4 В1 B2 B5 B6 B7 B8 B9 **B10 B11** 54 98 22 32 00 00 Hex 32 76 33 74 11

> B12 B13 B14 00 05 00

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN:

EF_{Keys} (Ciphering and Integrity Keys)

Logically: Key Set Identifier KSI: 02

Ciphering Keys CK: undefined Integrity Keys IK: undefined

B1 B2 **B3** B32 **B33** Coding: **B16 B17 B18 B31** Hex 02 XX XX XX XX XX XX XX XX . . .

In case of a Terminal accessing UTRAN "Expected Sequence A" shall be performed and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.1.1.4.2 Procedure

Expected Sequence A:

a) The UE is powered on.

b) The USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/003

The USS then resumes RF output on the BCCH.

c) The USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/004

The USS then resumes RF output on the BCCH.

d) The USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/005

The USS then resumes RF output on the BCCH.

e) The USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

LAI (MCC/MNC/LAC):234/007/0001

RAI (MCC/MNC/LAC/RAC): 234/007/0001/05

The USS then resumes RF output on the BCCH.

- f) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- g) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS sends LOCATION UPDATING REJECT to the UE with cause "PLMN Not Allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
 - II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS sends ATTACH REJECT to the UE with cause "PLMN Not Allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - III.During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS sends LOCATION UPDATING REJECT and/or ATTACH REJECT to the UE with cause "PLMN Not Allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

The USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

LAI (MCC/MNC/LAC): 234/008/0001

RAI (MCC/MNC/LAC/RAC): 234/008/0001/05

The USS then resumes RF output on the BCCH.

- h) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- i) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):234/008/0001

TMSI: "43658709"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT to the UE with:

RAI (MCC/MNC/LAC/RAC): 234/008/0001/05

P-TMSI: "43658709"

P-TMSI signature value "443322"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT with some of the following values to the UE with:

LAI (MCC/MNC/LAC):234/008/0001

TMSI: "43658709"

RAI (MCC/MNC/LAC/RAC): 234/008/0001/05

P-TMSI: "43658709"

P-TMSI signature value "443322"

- j) After passing through the authentication procedure and after receipt of
 - TMSI REALLOCATION COMPLETE during registration on CS from the UE the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - II. ATTACH COMPLETE during registration on PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE during registration on CS/PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- k) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) The SS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/003

The SS then resumes RF output on the BCCH.

c) The SS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/004

The SS then resumes RF output on the BCCH.

d) The SS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/005

The SS then resumes RF output on the BCCH.

e) The SS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

LAI (MCC/MNC/LAC):234/007/0001

The SS then resumes RF output on the BCCH.

- f) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- g) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING REJECT to the UE with cause "PLMN Not Allowed", followed by CHANNEL RELEASE.

The SS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

LAI (MCC/MNC/LAC):234/008/0001

The SS then resumes RF output on the BCCH.

- h) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE
- i) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC): 234/008/0001

TMSI: "43658709"

to the UE.

- j) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- k) The UE is soft powered down.

7.1.1.5 Acceptance criteria

- 1) After each of the steps a) to d) the UE shall not attempt a LOCATION UPDATING and not a ATTACH procedure.
- 2) After step f) the 2G UE shall send LOCATION UPDATING REQUEST to the SS and a 3G terminal shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 3) After step h) the 2G UE shall send LOCATION UPDATING REQUEST to the SS and a 3G terminal shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 4) After step i) the 2G UE shall respond with TMSI REALLOCATION COMPLETE to the SS and a 3G terminal shall respond with
 - I. TMSI REALLOCATION COMPLETE to the USS during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS..
- 5) After step k) the USIM shall contain the following values:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: 234 002 (MCC MNC)

PLMN2: 234 003 PLMN3: 234 004 PLMN4: 234 005 PLMN5: 234 006 PLMN6: 234 007

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	32	24	00	32	34	00	32	44	00	32	54	00
	B13 32	B14 64	B15 00	B16 32	B17 74	B18 00						

For 2G terminals and 3G terminals supporting (CS and PS) or (CS only):

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 234

LAI-MNC: 008

TMSI: "43658709"

Coding: **B**1 B2 **B3 B4 B**5 B6 **B7** B8 **B9 B10** B11 Hex 43 65 87 09 32 84 00 00 XXXXXX

For 3G terminals supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 234

RAI-MNC: 008

P-TMSI: "43658709"

Coding: B2 В4 B5 B6 В1 В3 B7 B8 B9 **B10** B11 32 84 43 65 87 09 00 Hex XX XX XX XX

Coding: B12 B13 B14 Hex xx xx 00

In case of a Terminal accessing UTRAN:

EF_{Kevs} (Ciphering and Integrity Keys)

Logically: Key Set Identifier KSI: 07 (not available)

Ciphering Keys CK: xx Integrity Keys IK: xx

Codina: B2 B16 B17 **B31** B32 **B33 B**1 **B3 B18** Hex 07 Xx XX XXXXXX . . .

7.1.2 UE updating forbidden PLMNs

7.1.2.1 Definition and applicability

A list of forbidden PLMNs stored in the USIM provides storage for at least 4 entries, and is managed by the UE. In automatic PLMN selection mode the UE controls registration attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a registration reject with the cause "PLMN not allowed" the UE stores the PLMN which rejected the update request in the USIM.

The registration attempts initiated by the 3G UE depends on UEs capabilities and can be one of the following:

- I. registration procedures for UEs supporting CS or
- II. registration procedures for UEs supporting PS or

III. registration procedures for UEs supporting CS/PS

7.1.2.2 Conformance requirement

In case of a 2G terminal:

After the receipt of a LOCATION UPDATING REJECT message with the cause "PLMN not allowed" the UE shall update the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 3.2.2.4.
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.

In case of a 3G terminal:

Depending on which domain the UE will be registered on, one of the following requirements should be fulfilled:

- I. After the receipt of a LOCATION UPDATING REJECT message during registration on CS with the cause "PLMN not allowed" the UE shall update the EF_{FPLMN} in the USIM or
- II. after receipt of a ATTACH REJECT message during registration on PS with the cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM or
- III. after receipt of a LOCATION UPDATING REJECT and/or ATTACH REJECT message during registration on CS/PS with the cause "PLMN not allowed" the Terminal shall update the EF FPLMN in the USIM.

Reference:

- TS 22.011 [6], subclause 3.2.2.4.
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.

7.1.2.3 Test purpose

To verify that the UE correctly updates the EF_{FPLMN}, i.e. fill up existing gaps in the elementary file before overwriting any existing entries.

7.1.2.4 Method of test

7.1.2.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 234/002/0001.

- RAI (MCC/MNC/LAC/RAC): 234/002/0001/05 (only for UTRAN cell)

Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC is used with the following exception:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: 234 001 (MCC MNC)

PLMN2: empty PLMN3: 234 003 PLMN4: 234 004 PLMN5: 234 005 PLMN6: 234 006

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	32	14	00	FF	FF	FF	32	34	00	32	44	00
	B13 32	B14 54	B15 00	B16 32	B17 64	B18 00						

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.1.2.4.2 Procedure

Expected Sequence A:

- a) The UE is powered on.
- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS sends LOCATION UPDATING REJECT to the UE with the cause "PLMN not allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS sends ATTACH REJECT to the UE with cause "PLMN Not Allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS sends LOCATION UPDATING REJECT and/or ATTACH REJECT to the UE with cause "PLMN Not Allowed", followed by RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- d) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING REJECT to the UE with cause "PLMN Not Allowed", followed by CHANNEL RELEASE.
- d) The UE is soft powered down.

7.1.2.5 Acceptance criteria

- 1) After step b) the 2G UE shall send LOCATION UPDATING REQUEST to the SS and the 3G terminal shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 2) After step d) the USIM shall contain:

EF_{FPLMN} (Forbidden PLMNs)

Logica	lly:	PLMN PLMN PLMN PLMN PLMN	2: 23 3: 23 4: 23 5: 23	34 001 (M 34 002 34 003 34 004 34 005 34 006	ICC MN	C)						
Coding: Hex	B1 32	B2 14	B3 00	B4 32	B5 24	B6 00	B7 32	B8 34	B9 00	B10 32	B11 44	B12 00
	B13 32	B14 54	B15 00	B16 32	B17 64	B18 00						

or

EF_{FPLMN} (Forbidden PLMNs)

Logical	lly:	PLMN2 PLMN2 PLMN3 PLMN4 PLMN5	2: 23 3: 23 4: 23 5: 23	4 001 (M 4 003 4 004 4 005 4 006 4 002	ICC MNO	C)						
Coding: Hex	B1 32	B2 14	B3 00	B4 32	B5 34	B6 00	B7 32	B8 44	B9 00	B10 32	B11 54	B12 00
	B13 32	B14 64	B15 00	B16 32	B17 24	B18 00						

7.1.3 UE deleting forbidden PLMNs

7.1.3.1 Definition and applicability

In manual PLMN selection mode the UE allows registration attempts to all available PLMNs, including forbidden PLMNs (as indicated by the forbidden PLMN list on the USIM). As a result of a successful registration procedure onto a PLMN which is in the forbidden PLMN list, the forbidden PLMN list is automatically updated by the UE.

The registration attempts initiated by the 3G UE depends on Ues capabilities and can be one of the following:

- I. registration procedures for Ues supporting CS or
- II. registration procedures for Ues supporting PS or

III. registration procedures for Ues supporting CS/PS

7.1.3.2 Conformance requirement

In case of a 2G terminal:

- 1) In manual PLMN selection mode the UE shall be able to perform a LOCATION UPDATING attempt to a PLMN which is in the forbidden PLMN list.
- TS 22.011 [6], subclause 3.2.2.2.
- 2) After receipt of LOCATION UPDATING ACCEPT the UE shall delete the forbidden PLMN from the forbidden PLMN list.
- TS 22.011 [6], subclause 3.2.2.4.

In case of a 3G terminal:

- 1) Depending on which domain the UE will be registered on, one of the following requirements should be fulfilled:
 - I. In manual PLMN selection mode the UE shall be able to perform a LOCATION UPDATING attempt during registration on CS to a PLMN which is in the forbidden PLMN list or
 - II. In manual PLMN selection mode the UE shall be able to perform a ATTACH attempt during registration on PS to a PLMN which is in the forbidden PLMN list or
 - III. In manual PLMN selection mode the UE shall be able to perform a LOCATION UPDATING and/or ATTACH attempt during registration on CS/PS to a PLMN which is in the forbidden PLMN list.
 - TS 22.011 [6], subclause 3.2.2.2.
 - TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 2) Depending on which domain the UE is going to be registered on, one of the following requirements should be fulfilled:
 - I. After receipt of LOCATION UPDATING ACCEPT message during registration on CS the UE shall delete the forbidden PLMN from the forbidden PLMN list OR
 - II. After receipt of ATTACH ACCEPT message during registration on PS the UE shall delete the forbidden PLMN from the forbidden PLMN list or
 - III. After receipt of LOCATION UPDATING ACCEPT and/or ATTCH ACCEPT message during registration on CS/PS the UE shall delete the forbidden PLMN from the forbidden PLMN list.
 - TS 22.011 [6], subclause 3.2.2.4.

7.1.3.3 Test purpose

- 1) To verify that the 2G UE is able to perform a LOCATION UPDATING on a forbidden PLMN in manual PLMN selection mode or to verify that the 3G UE is able to perform
 - I. a LOCATION UPDATING REQUEST during registration on CS on a forbidden PLMN in manual PLMN selection mode or
 - II. a ATTACH REQUEST during registration on PS on a forbidden PLMN in manual PLMN selection mode or
 - III. a LOCATION UPDATING REQUEST and/or ATTACH REQUEST during registration on CS/PS on a forbidden PLMN in manual PLMN selection mode.
- 2) To verify that the UE after a successful registration attempt deletes the PLMN in the EF_{FPLMN} on the USIM.

7.1.3.4 Method of test

7.1.3.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 234/005/0001.
- RAI (MCC/MNC/LAC/RAC): 234/005/0001/05 (only for UTRAN cell).
- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC is used with the following exception:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: empty

PLMN2: empty PLMN3: empty PLMN4: empty

PLMN5: 234 005 (MCC MNC)

PLMN6: empty

Coding: B2 В3 B4 **B**5 B6 B7 **B8** B9 B10 B11 B12 Hex FF FF

B13 B14 B15 B16 B17 B18 32 54 00 FF FF FF

The UICC is installed into the Terminal and the UE is set to manual PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.1.3.4.2 Procedure

Expected Sequence A:

- a) The UE is powered on.
- b) PLMN with MCC/MNC of 234/005 is manually selected.
- c) After receipt of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- d) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT with to the UE:

LAI (MCC/MNC/LAC): 234/005/0001

TMSI: "12345678"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT with to the UE:

RAI (MCC/MNC/LAC/RAC): 234/005/0001/05

P-TMSI: "12345678"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT with some of the following values to the UE with:

LAI (MCC/MNC/LAC): 234/005/0001

TMSI: "12345678"

RAI (MCC/MNC/LAC/RAC): 234/005/0001/05

P-TMSI: "12345678"

P-TMSI signature value "AB1234"

- e) After passing through the authentication procedure and after receipt of
 - I. TMSI REALLOCATION COMPLETE during registration on CS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - II. ATTACH COMPLETE during registration on PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE during registration on CS/PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- f) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) PLMN with MCC/MNC of 234/005 is manually selected.
- c) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- d) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):234/005/0001

TMSI: "12345678"

to the UE.

- e) After receipt of TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE.
- f) The UE is soft powered down.

7.1.3.5 Acceptance criteria

- 1) After step c) the 2G UE shall send LOCATION UPDATING REQUEST to the SS and the 3G terminal shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 2) After step d) the 2G UE shall respond with TMSI REALLOCATION COMPLETE and the 3G terminal shall respond with
 - I. TMSI REALLOCATION COMPLETE to the USS during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS.

3) After step f) the USIM shall contain the following values:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: empty

PLMN2: empty PLMN3: empty PLMN4: empty PLMN5: empty PLMN6: empty

Coding: B2 В3 B4 **B5** B6 **B7 B8** B9 B10 **B11 B12** Hex FF FF

B13 B14 B15 B16 B17 B18 FF FF FF FF FF

For 2G terminals and 3G terminals supporting CS only or CS/PS:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 234

LAI-MNC: 005

TMSI: "12345678"

B2 B11 Coding: В1 В3 B4 В5 B6 B7 B8 B9 **B10** 78 32 54 00 00 12 34 56 Hex XX XX XX

For UEs supporting PS only or CS/PS:

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 234

RAI-MNC: 005

P-TMSI: "12345678"

Coding: B2 В3 **B**5 B6 В7 B10 B11 B4 **B8** B9 Hex 12 34 56 78 32 54 00 XXXXXX XX

Coding: B12 B13 B14 Hex xx xx 00

7.1.4 Adding FPLMN to the forbidden PLMN list when accessing E-UTRAN

7.1.4.1 Definition and applicability

A list of forbidden PLMNs stored in the USIM and providing storage for at least 4 entries is managed by the UE. In automatic PLMN selection mode the UE controls registration attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a registration reject with the cause "PLMN not allowed" the UE stores the PLMN which rejected the update request in the USIM.

7.1.4.2 Conformance requirement

 In automatic PLMN selection mode the UE shall only attempt a AttachRequest during registration on E-UTRAN/EPS if it receives a BCCH containing a PLMN (MCC,MNC) that is not indicated in the EF_{FPLMN} in the USIM

Reference:

- TS 22.011 [6], subclause 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- 2) After receipt of an *AttachReject* message during registration on E-UTRAN/EPS with the EMM cause "PLMN not allowed" the Terminal shall update the EF_{FPLMN} in the USIM.

Reference:

- TS 22.011 [6], subclause 3.2.2 2.3;
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7
- 3) After receipt of an *AttachReject* message during registration on E-UTRAN/EPS with the EMM cause "PLMN not allowed" the Terminal shall update the EF_{EPSLOCI} in the USIM.

Reference:

- TS 24.301 [26], subclause 5.5.1.2.5;
- TS 31.102 [4], subclauses 5.1.1 and 4.2.9.1.
- 3) After registration on E-UTRAN/EPS the USIM shall contain the correct GUTI and TAI received by the UE.

Reference:

- TS 31.102 [4], subclauses 5.1.2 and 4.2.9.1;
- TS 21.111 [6], subclause 10.1.

7.1.4.3 Test purpose

- To verify that in automatic PLMN selection mode the UE does not attempt to access PLMNs stored in EF_{FPLMN} on the USIM.
- 2) To verify that the EF_{FPLMN} is correctly updated by the Terminal after receipt of a *AttachReject* message with cause "PLMN not allowed" during registration.
- 3) To verify that the $EF_{EPSLOCI}$ has been correctly updated by the Terminal during registration.

7.1.4.4 Method of test

7.1.4.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 234/002/0001.
- Access control: unrestricted.

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.1.4.4.2 Procedure

- a) The UE is powered on.
- b) The E-USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/003

The E-USS then resumes RF output on the BCCH.

c) The E-USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/004

The E-USS then resumes RF output on the BCCH.

d) The E-USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

PLMN (MCC/MNC): 234/005

The E-USS then resumes RF output on the BCCH.

e) The E-USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

TAI (MCC/MNC/TAC):234/007/0001

The E-USS then resumes RF output on the BCCH.

- f) After receipt of an *RRCConnectionRequest* from the UE, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of an *AttachRequest* from the UE, the E-USS sends *AttachReject* to the UE with cause "PLMN Not Allowed", followed by *RRCConnectionRelease*.
- h) The E-USS stops all RF output on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:

TAI (MCC/MNC/TAC): 234/008/0001

The E-USS then resumes RF output on the BCCH.

- h) After receipt of an *RRCConnectionRequest* from the UE, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- i) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* to the UE with:

TAI (MCC/MNC/TAC):234/008/ 0001

GUTI: "23400800010266436587"

- j) After receipt of AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- k) The UE is soft powered down.

7.1.4.5 Acceptance criteria

- 1) After each of the steps a) to d) the terminal shall not attempt an Attach procedure.
- 2) After step f) the terminal shall send *AttachRequest* during registration.
- 3) After step h) the terminal shall send AttachRequest during registration.
- 4) After step i) the terminal shall respond with AttachComplete during registration.
- 5) After step k) the USIM shall contain the following values:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: 234 002 (MCC MNC)

PLMN2: 234 003 PLMN3: 234 004 PLMN4: 234 005 PLMN5: 234 006 PLMN6: 234 007

Coding: **B**1 B2 В3 B4 **B**5 **B6 B7 B8 B9** B10 B11 B12 Hex 32 24 00 32 34 00 32 44 00 32 54 00

B13 B14 B15 B16 B17 B18 32 64 00 32 74 00

$EF_{EPSLOCI}\left(EPS\ Information\right)$

Logically: GUTI: 23400800010266436587

Last visited registered TAI: 234/008/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	32	84	00	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	32	84	00	00	01	00				

7.1.5 UE updating forbidden PLMNs when accessing E-UTRAN

7.1.5.1 Definition and applicability

A list of forbidden PLMNs stored in the USIM provides storage for at least 4 entries, and is managed by the UE. In automatic PLMN selection mode the UE controls registration attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a registration reject with the cause "PLMN not allowed" the UE stores the PLMN which rejected the update request in the USIM.

7.1.5.2 Conformance requirement

After receipt of a *AttachReject* message during registration with the cause "PLMN not allowed" the Terminal shall update the EF FPLMN in the USIM.

Reference:

- TS 22.011 [6], subclause 3.2.2.4.
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.

7.1.5.3 Test purpose

To verify that the UE correctly updates the EF_{FPLMN}, i.e. fill up existing gaps in the elementary file before overwriting any existing entries.

7.1.5.4 Method of test

7.1.5.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 234/002/0001.

Access control: unrestricted.

The default E-UTRAN UICC is used with the following exception:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: 234 001 (MCC MNC) PLMN2: empty PLMN3: 234 003 PLMN4: 234 004 PLMN5: 234 005 PLMN6: 234 006 Coding: B2 ВЗ **B8** B10 **B11** B12 B1 B4 **B**5 B6 B7 B9 Hex 32 14 00 FF FF FF 32 34 00 32 44 00 B13 B14 B15 B16 B17 B18 32 54 00 32 64 00

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.1.5.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of a *RRCConnectionRequest* from the UE, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS sends *AttachReject* to the UE with cause "PLMN Not Allowed", followed by *RRCConnectionRelease*.
- d) The UE is soft powered down.

7.1.5.5 Acceptance criteria

- 1) After step b) the terminal shall send *AttachRequest* during registration.
- 2) After step d) the USIM shall contain:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1:			1: 23	234 001 (MCC MNC)										
		PLMN2	2: 23	34 002										
		PLMN3	3: 23	34 003										
		PLMN ²	4: 23	34 004										
		PLMN:	5: 23	34 005										
		PLMNe	5: 23	4 006										
Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12		
Hex	32	14	00	32	24	00	32	34	00	32	44	00		
	D40	D4.4	D45	D40	D47	D40								
	B13 32	B14 54	B15	B16	B17	B18								
	00	32	64	00										

or

EF_{FPLMN} (Forbidden PLMNs)

Logica	lly:	PLMN PLMN PLMN PLMN PLMN PLMN	2: 2 3: 2 4: 2 5: 2	234 001 (N 234 003 234 004 234 005 234 006 234 002	ACC MN	IC)						
Coding: Hex	B1 32	B2 14	B3 00	B4 32	B5 34	B6 00	B7 32	B8 44	B9 00	B10 32	B11 54	B12 00
	B13 32	B14 64	B15 00	B16 32	B17 24	B18 00						

7.1.6 UE deleting forbidden PLMNs when accessing E-UTRAN

7.1.6.1 Definition and applicability

In manual PLMN selection mode the UE allows registration attempts to all available PLMNs, including forbidden PLMNs (as indicated by the forbidden PLMN list on the USIM). As a result of a successful registration procedure onto a PLMN which is in the forbidden PLMN list, the forbidden PLMN list is automatically updated by the UE.

7.1.6.2 Conformance requirement

- a) In manual PLMN selection mode the UE shall be able to perform a ATTACH attempt during registration to a PLMN which is in the forbidden PLMN list or
- TS 22.011 [6], subclause 3.2.2.2.
- TS 31.102 [4], subclauses 5.1.1 and 5.2.7.
- b) After receipt of *AttachAccept* message during registration the UE shall delete the forbidden PLMN from the forbidden PLMN list or
- TS 22.011 [6], subclause 3.2.2.4.

7.1.6.3 Test purpose

- 1) To verify that the terminal is able to perform an *AttachRequest* during registration on a forbidden PLMN in manual PLMN selection mode.
- 2) To verify that the UE after a successful registration attempt deletes the PLMN in the EF_{FPLMN} on the USIM.

7.1.6.4 Method of test

7.1.6.4.1 Initial conditions

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 234/005/0001.

Access control: unrestricted.

The default E-UTRAN UICC is used with the following exception:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: empty

PLMN2: empty PLMN3: empty PLMN4: empty

PLMN5: 234 005 (MCC MNC)

PLMN6: empty

Coding: B12 **B**1 B2 В3 B4 **B**5 B6 B7 **B8** B9 B10 **B11** Hex FF FF

B13 B14 B15 B16 B17 B18 32 54 00 FF FF FF

The UICC is installed into the Terminal and the UE is set to manual PLMN selection mode.

7.1.6.4.2 Procedure

- a) The UE is powered on.
- b) PLMN with MCC/MNC of 234/005 is manually selected.
- c) After receipt of a *RRCConnectRequest* from the UE, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- d) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC): 234/005/0001

GUTI: "23400500010266436587"

- e) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- f) The UE is soft powered down.

7.1.6.5 Acceptance criteria

- 1) After step c) the terminal shall send AttachRequest during registration
- 2) After step d) the terminal shall respond with Attach Complete during registration
- 3) After step f) the USIM shall contain the following values:

EF_{FPLMN} (Forbidden PLMNs)

Logically: PLMN1: empty

PLMN2: empty PLMN3: empty PLMN4: empty PLMN5: empty PLMN6: empty

Coding: **B**1 B2 В3 B6 **B7** В8 B10 B12 B4 B5 B9 B11 Hex FF FF

B13 B14 B15 B16 B17 B18 FF FF FF FF FF

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 23400500010266436587

Last visited registered TAI: 234/005/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	32	54	00	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	32	54	00	00	01	00				

7.2 User controlled PLMN selector handling

7.2.1 UE updating the User controlled PLMN selector list

7.2.1.1 Definition and applicability

The User controlled PLMN selector list gives in priority order the preferred UPLMNs on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of PLMNs may be performed by the subscriber.

7.2.1.2 Conformance requirement

The UE shall correctly replace the selected UPLMN in the User controlled PLMN selector list.

- TS 31.102 [4], subclause 5.3.6.

7.2.1.3 Test purpose

To verify that the UE correctly updates the EF_{PLMNwACT}.

7.2.1.4 Method of test

7.2.1.4.1 Initial conditions

No USS/SS is required for this test.

The default UICC is used.

The UICC is installed into the Terminal and the UE is powered on.

7.2.1.4.2 Procedure

- a) The user shall initiate an MMI dependent procedure to change the second UPLMN in the User controlled PLMN selector list to MCC/MNC of 567/02, the ACT identifier shall set to UTRAN only.
- b) The UE is soft powered down.

7.2.1.5 Acceptance criteria

After step b) the USIM shall contain the following values:

EF_{PLMNwACT} (UPLMN Selector)

Logically: 1st PLMN: 244 081 (MCC MNC)

2 nd Ai 3 rd PI 3 rd Ai 4 th PI 4 th Ai 5 th PI 5 th Ai 6 th PI 7 th Ai 8 th PI 8 th Ai 9 th PI 9 th Ai 10 th P	LMN: .CT	UTRA 567 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0 UTRA 244 0	2 AN 82 AN 82 03 AN 04 AN 05 AN 06 AN 07 AN 08 AN										
	PLMN:		10										
	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
	80	80	00	65	F7	20	80	00	42	24	80	80	00
	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	80	00	80	42	34	00	80	00	42	44	00	80	00
	B33	B34	B35	B36	B37	B38	B39	B40	B41	B42	B43	B44	B45
	00	80	00	42	64	00	80	00	42	74	00	80	00
	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	00	80	00	42	94	00	80	00	42	04	10	80	00

7.2.2 UE recognising the priority order of the User controlled PLMN selector list with the same access technology.

7.2.2.1 Definition and applicability

Coding:

Hex

B1

42

B16

B46

42

42 B31

The User controlled PLMN selector list gives in priority order the preferred UPLMNs on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of UPLMNs may be performed by the subscriber by the use of the PIN.

The registration attempts initiated by the terminal accessing UTRAN depends on terminal"s capabilities and can be one of the following:

- I. registration procedures for Ues supporting CS or
- II. registration procedures for Ues supporting PS or
- III. registration procedures for Ues supporting CS/PS

7.2.2.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority order of the UPLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2.

7.2.2.3 Test purpose

To verify that the UPLMN with the higher priority (defined by its position in $EF_{PLMNWACT}$) takes precedence over the UPLMN with the lower priority when the UE performs a network selection.

7.2.2.4 Method of test

7.2.2.4.1 Initial conditions

The USS (in case of a Terminal accessing UTRAN)/SS (in case of a Terminal accessing a GERAN) transmits on two BCCHs, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/033/0001.

- RAI (MCC/MNC/LAC/RAC): 244/033/0001/05 (only for UTRAN cell).

- Access control: unrestricted.

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/034/0001.

- RAI (MCC/MNC/LAC/RAC): 244/034/0001/05 (only for UTRAN cell).

- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC is used with the following exception:

$EF_{PLMNwACT}\left(UPLMN\;Selector\;with\;Access\;Technology\right)$

Logically: 1st PLMN: 244 081 (MCC MNC)

 1st ACT:
 UTRAN

 2nd PLMN:
 244 081

 2nd ACT
 GSM

 3rd PLMN:
 244 082

 3rd ACT
 UTRAN

 3rd PLMN:
 244 082

 $3^{rd} \ AIGSI.....$

.....

8th PLMN: 244 034 8th ACT GSM 9th PLMN: 244 033 9th ACT GSM 10th PLMN: 244 008 10th ACT UTRAN 11th PLMN: 244 034 11th ACT UTRAN 12th PLMN: 244 033 12th ACT UTRAN

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
Hex	42	14	80	80	00	42	14	80	00	80	42	24	80	80	00
	B16 42	B17 24	B18 80	B19 00	B20 80										
						B36 42	B37 44	B38 30	B39 00	B40 80	B41 42	B42 34	B43 30	B44 00	B45 80
	B46	B47	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	42	84	00	80	00	42	44	30	80	00	42	34	30	80	00

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.2.2.4.2 Procedure

Expected Sequence A:

- a) The UE is powered on.
- b) After receipt on the cell related to the BCCH transmitting MCC/MNC 244/034 of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT to the UE with the following values:

LAI (MCC/MNC/LAC): 244/034/0001

TMSI:"34567890"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT to the UE with the following values:

RAI (MCC/MNC/LAC/RAC) 244/034/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT to the UE with some of the following values:

LAI (MCC/MNC/LAC): 244/034/0001

TMSI: "34567890"

RAI (MCC/MNC/LAC/RAC) 244/034/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

- d) After passing through the authentication procedure and after receipt of
 - I. TMSI REALLOCATION COMPLETE during registration on CS from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - II. ATTACH COMPLETE during registration on PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE during registration on CS/PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- e) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/034/0001

TMSI: "34567890"

to the UE

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The UE is soft powered down.

7.2.2.5 Acceptance criteria

- 1) After step a) the UE accessing a GERAN shall send CHANNEL REQUEST on the cell related to the BCCH transmitting MCC/MNC 244/034 to the SS and the UE accessing UTRAN shall send an RRC CONNECTION REQUEST on the cell related to the BCCH transmitting MCC/MNC 244/034 to the USS.
- 2) After step b) the UE accessing a GERAN shall send LOCATION UPDATING REQUEST to the SS and the UE accessing UTRAN shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST to the USS during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 3) After step c) the UE accessing a GERAN shall respond with TMSI REALLOCATION COMPLETE and the UE accessing UTRAN shall respond with
 - I. TMSI REALLOCATION COMPLETE to the USS during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS.
- 4) After step e) the USIM shall contain the following values:

For UEs accessing GERAN and UEs accessing UTRAN and supporting (CS and PS) or (CS only):

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 244

LAI-MNC: 034

TMSI: "34567890"

Coding: **B**1 **B**2 **B**3 **B**4 **B5 B6 B**7 **B8 B9** B10 B11 Hex 56 78 90 42 44 30 00 XXXXXX

For UEs accessing UTRAN and supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 244

RAI-MNC: 034 P-TMSI: "34567890"

Coding: B2 В3 B5 B6 B10 **B11** B1 R4 B7 B8 **B9** Hex 34 56 78 90 42 44 30 XX XX XX XX

Coding: B12 B13 B14 Hex xx xx 00

7.2.3 UE recognising the priority order of the User controlled PLMN selector list using an ACT preference.

7.2.3.1 Definition and applicability

The User controlled PLMN selector list gives in priority order the preferred PLMNs of the User on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of User controlled PLMNs may be performed by the subscriber by the use of the PIN.

7.2.3.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of the ACT identifier in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2;
- TS 31.102 [4], subclauses 4.2.5 and 5.1.2.

7.2.3.3 Test purpose

To verify that the ACT with the higher priority (defined by its position in $EF_{PLMNwACT}$) takes precedence over the UPLMN with the lower priority when the UE performs a network selection.

7.2.3.4 Method of test

7.2.3.4.1 Initial conditions

For this test both a GSM SS and an UTRAN USS is needed.

The GSM SS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- Access control: unrestricted.

The UMTS USS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/082/0001.

- Access control: unrestricted.

The default UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.2.3.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE on the GSM-cell related to the BCCH transmitting MCC/MNC 244/081, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/081/0001

TMSI: "34567890"

to the UE.

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The UE is soft powered down.

7.2.3.5 Acceptance criteria

- 1.) After step a) the UE shall send a CHANNEL REQUEST on the GSM-cell related to the BCCH transmitting MCC/MNC 244/081 to the SS.
- 2) After step b) the UE shall send LOCATION UPDATING REQUEST to the SS.
- 3) After step c) the UE shall respond with TMSI REALLOCATION COMPLETE.
- 4) After step e) the USIM shall contain the following values:

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 244

LAI-MNC: 081

TMSI: "34567890"

Coding: В1 B2 В3 B4 B5 B6 **B7** B8 **B9** B10 B11 56 78 90 14 Hex XX XX

7.2.4 Void

7.2.5 UE updating the User controlled PLMN selector list for E-UTRAN

7.2.5.1 Definition and applicability

The User controlled PLMN selector list gives in priority order the preferred UPLMNs on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of PLMNs may be performed by the subscriber.

7.2.5.2 Conformance requirement

The UE shall correctly replace the selected UPLMN in the User controlled PLMN selector list.

- TS 31.102 [4], subclause 5.3.6 and 4.2.5.

7.2.5.3 Test purpose

To verify that the UE correctly updates the EF_{PLMNwACT}.

7.2.5.4 Method of test

7.2.5.4.1 Initial conditions

No USS/SS is required for this test.

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is powered on.

7.2.5.4.2 Procedure

- a) The user shall initiate an MMI dependent procedure to change the second UPLMN in the User controlled PLMN selector list to MCC/MNC of 567/04, the ACT identifier shall set to E-UTRAN only.
- b) The UE is soft powered down.

7.2.5.5 Acceptance criteria

After step b) the USIM shall contain the following values:

EF_{PLMNwACT} (UPLMN Selector)

Logically: 1st PLMN: 244 081 (MCC MNC) 1st ACT: E-UTRAN 2nd PLMN: 567 04 2nd ACT E-UTRAN 3rd PLMN: 244 083 3rd ACT: E-UTRAN 4th PLMN: 244 082 4^{th} ACT: **GSM** 5th PLMN: 244 003 5th ACT: E-UTRAN 6th PLMN: 244 004 6th ACT: **UTRAN** 7th PLMN: 244 005 7th ACT: **UTRAN** 8th PLMN: 244 081 8th ACT: **UTRAN** 9th PLMN: 244 007 9th ACT: **UTRAN** 10th PLMN: 244 008 10th ACT: E-UTRAN 11th PLMN: 244 009 11th ACT: **UTRAN** 12th PLMN: 244 010 12th ACT: E-UTRAN

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
Hex	42	14	80	40	00	65	F7	40	40	00	42	34	80	40	00
	B16	B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	42	24	80	00	80	42	34	00	40	00	42	44	00	80	00
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40	B41	B42	B43	B44	B45
	42	54	00	80	00	42	14	80	80	00	42	74	00	80	00
	B46	B47	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	42	84	00	40	00	42	94	00	80	00	42	04	10	40	00

7.2.6 UE recognising the priority order of the User controlled PLMN selector list using an ACT preference- UTRAN/E-UTRAN

7.2.6.1 Definition and applicability

The User controlled PLMN selector list gives in priority order the preferred PLMNs of the User on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of User controlled PLMNs may be performed by the subscriber by the use of the PIN.

7.2.6.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of the ACT identifier in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2;
- TS 31.102 [4], subclauses 4.2.5 and 5.1.1.2.

7.2.6.3 Test purpose

To verify that the ACT with the higher priority (defined by its position in $EF_{PLMNwACT}$) takes precedence over the UPLMN with the lower priority when the UE performs a network selection. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.2.6.4 Method of test

7.2.6.4.1 Initial conditions

For this test both a UTRAN USS and an E-UTRAN E-USS is needed.

The USS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/004/0001.

- Access control: unrestricted.

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 244/003/0001.

Access control: unrestricted.

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.2.6.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/003, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):244/003/0001

GUTI: "24400300010266436587"

- d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- e) The UE is soft powered down.

7.2.6.5 Acceptance criteria

- 1.) After step a) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/003 to the E-USS.
- 2) After step b) the terminal shall send *AttachRequest* to the E-USS.
- 3) After step c) the terminal shall respond with *AttachComplete* during registration.
- 4) After step e) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24400300010266436587

Last visited registered TAI: 244/003/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	34	00	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	34	00	00	01	00				

7.2.7 UE recognising the priority order of the User controlled PLMN selector list using an ACT preference- GSM/E-UTRAN

7.2.7.1 Definition and applicability

The User controlled PLMN selector list gives in priority order the preferred PLMNs of the User on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$. Update and deletion of User controlled PLMNs may be performed by the subscriber by the use of the PIN.

7.2.7.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of the ACT identifier in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2;
- TS 31.102 [4], subclauses 4.2.5 and 5.1.1.2.

7.2.7.3 Test purpose

To verify that the ACT with the higher priority (defined by its position in $EF_{PLMNwACT}$) takes precedence over the UPLMN with the lower priority when the UE performs a network selection. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.2.7.4 Method of test

7.2.7.4.1 Initial conditions

For this test both a GSM SS and an E-UTRAN E-USS is needed.

The GSM SS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.
- LAI (MCC/MNC/LAC): 244/082/0001.
- Access control: unrestricted.

The E-USS transmits on the BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 244/083/0001.
- Access control: unrestricted.

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.2.7.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/083, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):244/083/0001

GUTI: "24408300010266436587"

- d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- e) The UE is soft powered down.

7.2.7.5 Acceptance criteria

- 1.) After step a) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/083 to the e-USS.
- 2) After step b) the terminal shall send AttachRequest to the E-USS.

- 3) After step c) the terminal shall respond with *AttachComplete* during registration.
- 4) After step e) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24408300010266436587

Last visited registered TAI: 244/083/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	34	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	34	80	00	01	00				

7.3 Operator controlled PLMN selector handling

7.3.1 UE recognising the priority order of the Operator controlled PLMN selector list.

7.3.1.1 Definition and applicability

The Operator controlled PLMN selector list gives in priority order the preferred OPLMNs on which the UE shall register if no network of the User controlled PLMN selector list is available. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the EF_{OPLMNwACT}. Update and deletion of OPLMNs shall not be possible by the subscriber by the use of the PIN.

The registration attempts initiated by the UE accessing UTRAN depends on UE"s capabilities and can be one of the following:

- I. registration procedures for Ues supporting CS or
- II. registration procedures for Ues supporting PS or
- III. registration procedures for Ues supporting CS/PS

7.3.1.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of OPLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2;
- TS 31.102 [4], subclause 4.2.53.

7.3.1.3 Test purpose

To verify that the OPLMN with the higher priority (defined by its position in $EF_{OPLMNwACT}$) takes precedence over the OPLMN with the lower priority when the UE performs a network selection.

7.3.1.4 Method of test

7.3.1.4.1 Initial conditions

For this test a USS (in case of a Terminal accessing UTRAN) or a SS (in case of a Terminal accessing a GERAN) is needed.

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing a GERAN) transmits on two BCCHs, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 254/011/0001.

- RAI (MCC/MNC/LAC/RAC): 254/011/0001/05 (for UTRAN cell only).

- Access control: unrestricted.

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 254/012/0001.

- RAI (MCC/MNC/LAC/RAC): 254/012/0001/05 (for UTRAN cell only).

- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted.

The default UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

UTRAN

Operator controlled PLMN selector available

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6

 binary
 xx1x xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx1x
 xxxx xx1x

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{OPLMNwACT} (OPLMN Selector)

Logically: 1st PLMN: 254 012 (MCC MNC)

1st ACT

2nd PLMN: 254 011 2nd ACT **UTRAN** 3rd PLMN: 254 002 3^{rd} ACT: **UTRAN** 4th PLMN: 254 012 4^{th} ACT: GSM 5th PLMN: 254 011 5th ACT: **GSM** 6th PLMN: 254 005 6th ACT: **UTRAN** 7th PLMN: 254 006 7th ACT: **UTRAN** 8th PLMN: 254 007 8th ACT: **UTRAN**

Coding: Hex	B01 52 B11	B02 24 B12	B03 10 B13	B04 80 B14	B05 00 B15	B06 52 B16	B07 14 B17	B08 10 B18	B09 80 B19	B10 00 B20
	52	24	00	80	00	52	24	10	00	80
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	52	14	10	00	80	52	54	00	80	00
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	52	64	00	80	00	52	74	00	80	00

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.3.1.4.2 Procedure

Expected Sequence A:

- a) The UE is powered on.
- b) After receipt on the cell related to the BCCH transmitting MCC/MNC 254/012 of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) Depending on which domain the UE is going to be registered on, one of the following requirements should be fulfilled:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT to the UE with the following values:

LAI (MCC/MNC/LAC): 254/012/0001

TMSI: "34567890"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT to the UE with following values:

RAI (MCC/MNC/LAC/RAC) 254/012/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT to the UE with some of the following values:

LAI (MCC/MNC/LAC):254/012/0001

TMSI: "34567890"

RAI (MCC/MNC/LAC/RAC) 254/012/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

d) After receipt of a

I. TMSI REALLOCATION COMPLETE during registration on CS from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.

- II. ATTACH COMPLETE during registration on PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
- III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE during registration on CS/PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- e) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):254/012/0001

TMSI: "34567890"

to the UE.

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The UE is soft powered down.

7.3.1.5 Acceptance criteria

- After step a) the UE accessing a GERAN shall send CHANNEL REQUEST on the cell related to the BCCH transmitting MCC/MNC 254/012 to the SS and the UE accessing UTRAN shall send an RRC CONNECTION REQUEST on the cell related to the BCCH transmitting MCC/MNC 254/012 to the USS.
- 2) After step b) the UE accessing a GERAN shall send LOCATION UPDATING REQUEST to the SS and the UE accessing UTRAN shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST. To the USS during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 3) After step c) the UE accessing GERAN shall respond with TMSI REALLOCATION COMPLETE and the UE accessing UTRAN shall respond with
 - I. TMSI REALLOCATION COMPLETE during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS.

4) After step e) the USIM shall contain the following values:

For UEs accessing GERAN and UEs accessing UTRAN and supporting (CS and PS) or (CS only):

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 254

LAI-MNC: 012

TMSI: "34567890"

B11 Coding: **B1** B2 **B3 B4 B**5 B6 **B7 B8 B9 B10** Hex 34 56 78 90 52 24 10 00 XX XX

For UEs supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 254

RAI-MNC: 012 P-TMSI: "34567890"

B2 Coding: B1 **B**3 R4 B5 **B6 B7** R8 B9 **B10 B11** 34 56 78 90 24 Hex 52 10 XX XX XX XX

Coding: B12 B13 B14 Hex xx xx 00

7.3.2 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list.

7.3.2.1 Definition and applicability

The User controlled PLMN selector list has a higher priority as the OPLMN selector list on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNwACT}$.

The registration attempts initiated by the terminal accessing UTRAN depends on terminal"s capabilities and can be one of the following:

- I. registration procedures for Ues supporting CS or
- II. registration procedures for Ues supporting PS or
- III. registration procedures for Ues supporting CS/PS

7.3.2.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of UPLMNs first before the OPLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2.2;
- TS 31.102 [4], subclauses 4.2.5 and 4.2.53.

7.3.2.3 Test purpose

To verify that the User controlled PLMN with a lower priority (defined by its position in $EF_{PLMNwACT}$) takes precedence over the OPLMN with a higher priority when the UE performs a network selection.

7.3.2.4 Method of test

7.3.2.4.1 Initial conditions

For this test a USS (in case of a Terminal accessing UTRAN) or a SS (in case of a Terminal accessing a GERAN) is needed.

The USS (in case of a Terminal accessing UTRAN)/ SS (in case of a Terminal accessing a GERAN) transmits on two BCCHs, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 254/001/0001.

- RAI (MCC/MNC/LAC/RAC): 254/001/0001/05 (only for UTRAN cell).

- Access control: unrestricted.

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/010/0001.

- RAI (MCC/MNC/LAC/RAC): 244/010/0001/05 (only for UTRAN cell).

- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

Operator controlled PLMN selector available

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6

 binary
 xx1x xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx1x
 xxxx xx1x

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{PLMNwACT} (UPLMN Selector with Access Technology)

Logically: 1st PLMN: 244 081 (MCC MNC)

1st ACT: **UTRAN** 2nd PLMN: 244 081 2nd ACT: **GSM** 3rd PLMN: 244 082 3rd ACT: **UTRAN** 4th PLMN: 244 082 4th ACT: **GSM** 5th PLMN: 244 003 5th ACT: **UTRAN** 6th PLMN: 244 004 6th ACT: **UTRAN** 7th PLMN: 244 005 7th ACT: **UTRAN** 8th PLMN: 244 006 8th ACT: **UTRAN**

9th PLMN: 244 007 9th ACT: **UTRAN** 10th PLMN: 244 008 10th ACT: **UTRAN** 11th PLMN: 244 010 11th ACT: 12th PLMN: **UTRAN** 244 010 12th ACT: **GSM** Coding: B1 B2 **B3 B**4 **B5** B6 **B7 B8** B9 **B10 B11 B12 B13 B14 B15** Hex 42 14 80 80 00 42 14 80 00 80 42 80 00 24 80 B16 **B17 B18** B19 B20 **B21 B22 B23 B24 B25 B26 B27 B28 B29** B30 42 24 80 00 80 42 24 00 80 00 42 44 00 80 00 **B31 B32 B33 B34 B35 B36 B37 B38 B39 B40 B41 B42 B43 B44 B45** 42 80 00 42 80 00 74 00 80 00 54 00 64 00 42 **B46 B47 B48 B49 B50 B51 B52 B53 B54 B55 B56 B57 B58 B59** B60 42 84 00 80 00 42 04 10 80 00 42 04 10 00 80

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.3.2.4.2 Procedure

Expected Sequence A:

- a) The UE is powered on.
- b) After receipt of a RRC CONNECTION REQUEST from the UE on the cell related to the BCCH transmitting MCC/MNC 244/010, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) Depending on which domain the UE is going to be registered on, one of the following requirements should be fulfilled:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT to the UE with the following values:

LAI (MCC/MNC/LAC): 244/010/0001

TMSI: "34567890"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT with the following values:

RAI (MCC/MNC/LAC/RAC) 244/010/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT with some of the following values:

LAI (MCC/MNC/LAC): 244/010/0001

TMSI: "34567890"

RAI (MCC/MNC/LAC/RAC) 244/010/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

- d) After receipt of a
 - I. TMSI REALLOCATION COMPLETE during registration on CS from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
 - II. ATTACH COMPLETE during registration on PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE during registration on CS/PS from the UE, the USS sends RRC CONNECTION RELEASE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- e) The UE is soft powered down.

Expected Sequence B:

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/010/0001

TMSI: "34567890"

to the UE.

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The UE is soft powered down.

7.3.2.5 Acceptance criteria

- 1) After step a) the UE accessing a GERAN shall send CHANNEL REQUEST on the cell related to the BCCH transmitting MCC/MNC 244/010 to the SS and the UE accessing UTRAN shall send an RRC CONNECTION REQUEST on the cell related to the BCCH transmitting MCC/MNC 244/010 to the USS.
- 2) After step b) the UE accessing a GERAN shall send LOCATION UPDATING REQUEST to the SS and the UE accessing UTRAN shell send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.
- 3) After step c) the UE accessing GERAN shall respond with TMSI REALLOCATION COMPLETE and the UE accessing UTRAN shall respond with
 - I. TMSI REALLOCATION COMPLETE during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS...
- 4) After step e) the USIM shall contain the following values:

For UEs accessing GERAN and UEs accessing UTRAN and supporting (CS and PS) or (CS only):

$EF_{LOCI}\left(Location\ Information\right)$

Logically: LAI-MCC: 244

LAI-MNC: 010

TMSI: "34567890"

Coding: **B1** B2 **B**3 B4 **B**5 B6 B7 **B8** B9 **B10** B11 34 56 78 90 42 04 10 XXXXXX 00

For UEs supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 244

RAI-MNC: 010 P-TMSI: "34567890"

Coding: B1 B2 **B**3 R4 **B**5 **B6** B7 R8 B9 B10 B11 56 42 10 Hex 34 78 90 XX XXXX XX

Coding: B12 B13 B14 Hex xx xx 00

7.3.3 UE recognising the priority order of the Operator controlled PLMN selector list when accessing E-UTRAN

7.3.3.1 Definition and applicability

The Operator controlled PLMN selector list gives in priority order the preferred OPLMNs on which the UE shall register if no network of the User controlled PLMN selector list is available. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the EF_{OPLMNwACT}. Update and deletion of OPLMNs shall not be possible by the subscriber by the use of the PIN.

7.3.3.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of OPLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2;
- TS 31.102 [4], subclause 4.2.53, 4.2.5 and 5.1.1.2.

7.3.3.3 Test purpose

To verify that the OPLMN with the higher priority (defined by its position in $EF_{OPLMNWACT}$) takes precedence over the OPLMN with the lower priority when the UE performs a network selection. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.3.3.4 Method of test

7.3.3.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two BCCHs, with the following network parameters:

- TAI (MCC/MNC/TAC): 254/011/0001.

- Access control: unrestricted.

- TAI (MCC/MNC/TAC): 254/012/0001.

- Access control: unrestricted.

The default E-UTRAN UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

Operator controlled PLMN selector available EPS Mobility Management Information available

Allowed CSG Lists and corresponding indications not available

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Binary	xx1x xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xx11	xxxx xx1x	xxxx xxxx	xxxx xxxx
	B9 xxxx xxxx	B10 xxxx xxxx	B11 xx01 xxxx					

The coding of $\mathrm{EF}_{\mathrm{UST}}$ shall conform with the capabilities of the USIM used.

EF_{OPLMNwACT} (OPLMN Selector)

Logica	ally:	1st PLMN 1st ACT 2nd PLMN 2nd ACT 3rd PLMN 3rd ACT: 4th PLMN 4th ACT: 5th PLMN 5th ACT: 6th PLMN 6th ACT: 7th PLMN 7th ACT: 8th PLMN 8th ACT:	E-UTI E-UTI E-UTI E-UTI E-UTI E-UTI CSM	11 RAN D2 RAN 12 11 D5 AN D6 AN	INC)					
Coding: Hex	B01 52 B11 52 B21 52 B31 52	B02 24 B12 24 B22 14 B32 64	B03 10 B13 00 B23 10 B33 00	B04 40 B14 40 B24 00 B34 80	B05 00 B15 00 B25 80 B35 00	B06 52 B16 52 B26 52 B36 52	B07 14 B17 24 B27 54 B37 74	B08 10 B18 10 B28 00 B38 00	B09 40 B19 00 B29 80 B39 80	B10 00 B20 80 B30 00 B40

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.3.3.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 254/012, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):254/012/0001

GUTI: "25401200010266436587"

- d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- e) The UE is soft powered down.

7.3.3.5 Acceptance criteria

- 1.) After step a) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 254/012 to the e-USS.
- 2) After step b) the terminal shall send AttachRequest to the E-USS.
- 3) After step c) the terminal shall respond with *AttachComplete* during registration.
- 4) After step e) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 25401200010266436587

Last visited registered TAI: 254/012/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	52	24	10	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	52	24	10	00	01	00				

7.3.4 UE recognising the priority order of the User controlled PLMN selector over the Operator controlled PLMN selector list – E-UTRAN

7.3.4.1 Definition and applicability

The User controlled PLMN selector list has a higher priority as the OPLMN selector list on which the UE shall register. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{PLMNWACT}$.

7.3.4.2 Conformance requirement

When registering onto a VPLMN the UE shall take into account the priority of UPLMNs first before the OPLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclause 3.2.2.2;
- TS 31.102 [4], subclauses 4.2.5, 4.2.53 and 5.1.1.2.

7.3.4.3 Test purpose

To verify that the User controlled PLMN with a lower priority (defined by its position in $EF_{PLMNWACT}$) takes precedence over the OPLMN with a higher priority when the UE performs a network selection. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.3.4.4 Method of test

7.3.4.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two BCCHs, with the following network parameters:

- TAI (MCC/MNC/TAC): 254/001/0001.

-- Access control: unrestricted.

- TAI (MCC/MNC/TAC): 244/010/0001.

- Access control: unrestricted.

The default E-UTRAN UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

Operator controlled PLMN selector available EPS Mobility Management Information available

Allowed CSG Lists and corresponding indications not available

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Binary	xx1x xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xx11	xxxx xx1x	xxxx xxxx	xxxx xxxx
	B9	B10	B11					

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.3.4.4.2 Procedure

a) The UE is powered on.

- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/010, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):244/010/0001

GUTI: "24401000010266436587"

d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.

e) The UE is soft powered down.

7.3.4.5 Acceptance criteria

- 1.) After step a) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/010 to the e-USS.
- 2) After step b) the terminal shall send AttachRequest to the E-USS.
- 3) After step c) the terminal shall respond with *AttachComplete* during registration.
- 4) After step e) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24401000010266436587

Last visited registered TAI: 244/010/0001 EPS update status: updated

Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	04	10	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	04	10	00	01	00				

7.4 Higher priority PLMN search handling

7.4.1 UE recognising the search period of the Higher priority PLMN

7.4.1.1 Definition and applicability

The Higher priority PLMN list gives in priority order the Higher priority PLMN on which the UE shall register first. The Higher priority PLMN search period gives the time interval in which the UE shall search for a possible Higher priority PLMN registration.

The registration attempts initiated by the terminal accessing UTRAN depends on terminal"s capabilities and can be one of the following:

- I. registration procedures for Ues supporting CS or
- II. registration procedures for Ues supporting PS or
- III. registration procedures for Ues supporting CS/PS

7.4.1.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the Higher priority PLMN search period timer and the priority order of the Higher priority PLMNs in the preferred list on the USIM.

- TS 22.011 [6], subclauses 3.2.2 and 3.2.2.5.
- TS 24.008 [16], subclause 4.7.5

7.4.1.3 Test purpose

To verify that the Higher priority PLMN timer is read and the Higher priority PLMN takes precedence over the VPLMN in which the UE is currently registered in.

7.4.1.4 Method of test

7.4.1.4.1 Initial conditions

For this test an UTRAN USS (in case of a Terminal accessing UTRAN) or a SS (in case of Terminal accessing a GERAN) is needed.

The USS (in case of a Terminal accessing UTRAN)/SS (in case of Terminal accessing a GERAN) transmits on BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/082/0001.

- RAI (MCC/MNC/LAC/RAC): 244/082/0001/05 (only for UTRAN cell).

- Access control: unrestricted.

After the registration of UE the USS (in case of a Terminal accessing UTRAN) or a SS (in case of Terminal accessing a GERAN) transmits on a second BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- RAI (MCC/MNC/LAC/RAC): 244/081/0001/05. (only for UTRAN cell)

- Access control: unrestricted.

NOTE: In case of a GERAN no packet system information is transmitted

The default UICC shall be used with the following exception:

EF_{HPPLMN} (Higher Priority PLMN Search period)

Logically: set to 6 minutes

Coding: B1 Hex 01

The UICC shall be installed into the Terminal and the UE shall be set to automatic PLMN selection mode.

In case of a Terminal accessing UTRAN "Expected Sequence A" and in case of a Terminal accessing a GERAN "Expected Sequence B" shall be performed.

7.4.1.4.2 Procedure

Expected sequence A:

- a) The UE shall be powered on.
- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS shall send RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT to the UE with the following values:

LAI (MCC/MNC/LAC): 244/082/0001

TMSI: "34567890"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT with the following values to the UE:

RAI (MCC/MNC/LAC/RAC): 244/082/0001/05

P-TMSI: "34567890"

P-TMSI signature value: "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT with some of the following values to the UE:

LAI (MCC/MNC/LAC): 244/082/0001

TMSI: "34567890"

RAI (MCC/MNC/LAC/RAC)244/082/0001/05

P-TMSI "34567890"

P-TMSI signature value "AB1234"

- d) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. After receipt of a TMSI REALLOCATION COMPLETE from the UE during registration on CS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
 - II. After receipt of a ATTACH COMPLETE from the UE during registration on PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. After receipt of a TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE from the UE during registration on CS/PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- e) The USS starts to send on the second BCCH with the MCC/MNC 244/081. An internal timer shall start to run.
- f) After receipt on the cell related to the BCCH transmitting MCC/MNC 244/081 of a RRC CONNECTION REQUEST from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS. The internal timer is stopped.
- g) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT to the UE with following values:

LAI (MCC/MNC/LAC): 244/081/0001

TMSI: "12345678"

II. During registration on PS and after receipt of a ROUTING AREA UPDATE REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ROUTING AREA UPDATE ACCEPT with the following values to the UE:

RAI (MCC/MNC/LAC/RAC): 244/081/0001/05

P-TMSI "12345678"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ROUTING AREA UPDATE REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ROUTING AREA UPDATE ACCEPT with some of the following values to the UE:

LAI (MCC/MNC/LAC): 244/081/0001

TMSI: "12345678"

RAI (MCC/MNC/LAC/RAC)244/081/0001/05

P-TMSI "12345678"

P-TMSI signature value "AB1234"

- h) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. After receipt of a TMSI REALLOCATION COMPLETE from the UE during registration on CS, the USS sends RRC CONNECTION RELEASE to the UE followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - II. After receipt of a ROUTING AREA UPDATE COMPLETE from the UE during registration on PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. After receipt of a TMSI REALLOCATION COMPLETE and/or ROUTING AREA UPDATE COMPLETE from the UE during registration on CS/PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- i) The UE is soft powered down.

Expected sequence B:

- a) The UE shall be powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS shall send IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/082/0001

TMSI: "34567890"

to the UE.

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The SS starts to send on the second BCCH with the MCC/MNC 244/081. An internal timer shall start to run.
- f) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE. The internal timer is stopped.
- g) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/081/0001

TMSI: "12345678"

to the UE.

h) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.

i) The UE is soft powered down.

7.4.1.5 Acceptance criteria

- After step e) the UE accessing a GERAN shall send CHANNEL REQUEST on the cell related to the BCCH transmittingMCC/MNC 244/081 to the SS and the UE accessing UTRAN shall send an RRC CONNECTION REQUEST on the cell related to the BCCH transmitting MCC/MNC 244/081 to the USS
- 2) After.step e) the UE accessing a GERAN shall send LOCATION UPDATING REQUEST to the SS and the UE accessing UTRAN shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ROUTING AREA UPDATE REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ROUTING AREA UPDATE REQUEST to the USS during registration on CS/PS.
- 3) After step g) the UE accessing a GERAN shall respond with TMSI REALLOCATION COMPLETE and the UE accessing UTRAN shall respond with
 - I. TMSI REALLOCATION COMPLETE to the USS during registration on CS or
 - II. ROUTING AREA UPDATE COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ROUTING AREA UPDATE COMPLETE to the USS during registration on CS/PS.
- 4) The value of the internal timer shall not exceed 6 minutes.

NOTE: To take the systems processing time into account, the value of the internal timer may allowed to be a guard time of 10 % greater than the required 6 minutes.

5) After step i) the USIM shall contain the following values:

For UEs accessing GERAN and UEs accessing UTRAN and supporting (CS and PS) or (CS only):

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 244

LAI-MNC: 081

TMSI: "12345678"

Coding: В5 B11 В1 B2 В3 B4 B6 B7 B8 B9 **B10** 14 80 Hex 12 34 56 78 42 00 XX XX XX

For UEs supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 244

RAI-MNC: 081 P-TMSI: "12345678"

Coding: В1 B2 В3 B4 B5 B6 В7 **B8 B9** B10 B11 Hex 12 34 56 78 XX XX XX 42 14 80 XX

Coding: B12 B13 B14 Hex xx xx 00

7.4.2 GSM/UmTS dual mode UEs recognising the search period of the Higher priority PLMN

7.4.2.1 Definition and applicability

The Higher priority PLMN handling is defined in TS 22.011 [6] . The Higher priority PLMN search period gives the time interval between searches for a higher priority PLMN.

The registration attempts initiated by the uE depends on UEs capabilities and can be one of the following:

- I. registration procedures for UEs supporting CS or
- II. registration procedures for UEs supporting PS or
- III. registration procedures for UEs supporting CS/PS

To avoid a duplication of tests, this test supersedes the previous test case (7.4.1).

7.4.2.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the Higher priority PLMN search period timer and the priority order of the Higher priority PLMNs in the preferred lists on the USIM including the Access Technology Identifier.

- TS 22.011 [6], subclauses 3.2.2 and 3.2.2.5.

7.4.2.3 Test purpose

To verify that the Higher priority PLMN timer is read and the Higher priority PLMN with the higher priority (defined according to the selection order in TS 22.011 [6]) takes precedence over the VPLMN in which the UE is currently registered in.

7.4.2.4 Method of test

7.4.2.4.1 Initial conditions

For this test both a GSM SS and an UTRAN USS are needed.

The GSM SS transmits on BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/082/0001.

Access control: unrestricted.

After the registration of UE the GSM SS transmits on a second BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- Access control: unrestricted.

At the same time as the SS sends on a second BCCH, the UMTS USS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- RAI (MCC/MNC/LAC/RAC): 244/081/0001/05.

Access control: unrestricted.

The default UICC is used with the following exception:

EF_{HPLMNwACT} (HPLMN selector with Access Technology)

Logically: Set to MCC 244 and MNC 081

Set to UTRAN

Coding: B1 B2 B3 B4 B5 Hex 42 14 80 80 00

EF_{HPPLMN} (Higher Priority HPLMN Search period)

Logically: set to 6 minutes

Coding: B1 Hex 01

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

HPLMN selector with access technology available

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6

 binary
 xx1x xx11
 xxxx xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xx1x
 xxxx xx1x

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.4.2.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of a LOCATION UPDATING REQUEST from the UE, the SS sends LOCATION UPDATING ACCEPT with:

LAI (MCC/MNC/LAC):244/082/0001

TMSI: "34567890"

to the UE.

- d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The SS starts to send on the second BCCH with the MCC/MNC 244/081 and the USS starts to send with the Same MCC/MNC. An internal timer shall start to run.
- f) After receipt of a RRC CONNECTION REQUEST on the UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081 from the UE, the USS sends RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS. The internal timer is stopped.

- g) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. During registration on CS and after receipt of a LOCATION UPDATING REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT with the following values to the UE:

LAI (MCC/MNC/LAC): 244/081/0001

TMSI: "12345678"

II. During registration on PS and after receipt of a ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends ATTACH ACCEPT with the following values to the UE:

RAI (MCC/MNC/LAC/RAC)244/081/0001/05

P-TMSI "12345678"

P-TMSI signature value "AB1234"

III. During registration on CS/PS and after receipt of a LOCATION UPDATING REQUEST and/or ATTACH REQUEST from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT with some of the following values to the UE:

LAI (MCC/MNC/LAC): 244/081/0001

TMSI: "12345678"

RAI (MCC/MNC/LAC/RAC)244/081/0001/05

P-TMSI "12345678"

P-TMSI signature value "AB1234"

- h) Depending on which domain the UE is going to be registered on, one of the following sequences will be passed through:
 - I. After receipt of a TMSI REALLOCATION COMPLETE from the UE during registration on CS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or
 - II. After receipt of a ATTACH COMPLETE from the UE during registration on PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS or.
 - III. After receipt of a TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE from the UE during registration on CS/PS, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- i) The UE is soft powered down.

7.4.2.5 Acceptance criteria

- 1) After step e) the UE shall send an RRC CONNECTION REQUEST on the UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081 to the USS.
- 2) After step e) the UE shall send
 - I. LOCATION UPDATING REQUEST to the USS during registration on CS or
 - II. ATTACH REQUEST during registration on PS or
 - III. LOCATION UPDATING REQUEST and/or ATTACH REQUEST to the USS during registration on CS/PS.

- 3) After step g) the UE shall respond with
 - I. TMSI REALLOCATION COMPLETE during registration on CS or
 - II. ATTACH COMPLETE during registration on PS or
 - III. TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE to the USS during registration on CS/PS
- 4) The value of the internal timer shall not exceed 6 minutes.

NOTE: To take the systems processing time into account, the value of the internal timer may allowed to be a guard time of 10 % greater than the required 6 minutes.

5) After step i) the USIM shall contain the following values:

For UEs supporting (CS and PS) or (CS only):

EF_{LOCI} (Location Information)

Logically: LAI-MCC: 244

LAI-MNC: 081

TMSI: "12345678"

Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	12	34	56	78	42	14	80	XX	XX	XX	00

For UEs supporting (CS and PS) or (PS only):

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 244

RAI-MNC: 081 P-TMSI: "12345678"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	12	34	56	78	XX	XX	XX	42	14	80	XX

Coding: B12 B13 B14 Hex xx xx 00

7.4.3 UE recognising the search period of the Higher priority PLMN – E-UTRAN

7.4.3.1 Definition and applicability

The Higher priority PLMN list gives in priority order the Higher priority PLMN on which the UE shall register first. The Higher priority PLMN search period gives the time interval in which the UE shall search for a possible Higher priority PLMN registration.

7.4.3.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the Higher priority PLMN search period timer and the priority order of the Higher priority PLMNs in the preferred lists on the USIM.

- TS 22.011 [6], subclauses 3.2.2 and 3.2.2.5.
- TS 24.301 [26], subclause 5.5.3.2

7.4.3.3 Test purpose

To verify that the Higher priority PLMN timer is read and the Higher priority PLMN takes precedence over the VPLMN in which the UE is currently registered in. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.4.3.4 Method of test

7.4.3.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on BCCH with the following network parameters:

-- TAI (MCC/MNC/TAC): 244/008/0001.

- Access control: unrestricted.

After the registration of UE the E-USS transmits on a second BCCH with the following network parameters:

- TAI (MCC/MNC/TAC): 244/083/0001.

-- Access control: unrestricted.

The default E-UTRAN UICC shall be used with the following exception:

EF_{HPPLMN} (Higher Priority PLMN Search period)

Logically: set to 6minutes

Coding: B1 Hex 01

The UICC shall be installed into the Terminal and the UE shall be set to automatic PLMN selection mode.

7.4.3.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/008, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):244/008/ 0001

GUTI: "24400800010266436587"

- d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease.
- e) The USS starts to send on the second BCCH with the MCC/MNC 244/083. An internal timer shall start to run.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/083, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.

g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the UE:

TAI (MCC/MNC/TAC):244/083/0001

GUTI: "24408300010266436587"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*.
- i) The UE is soft powered down.

7.4.3.5 Acceptance criteria

- 1.) After step e) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/083 to the e-USS.
- 2) After step f) the terminal shall send TrackingAreaUpdateReques to the E-USS.
- 3) After step g) the terminal shall respond with TrackingAreaUpdatComplete during registration.
- 4) After step i) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24408300010266436587

Last visited registered TAI: 244/083/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	34	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	34	80	00	01	00				

7.4.4 E-UTRAn/EPC capable UEs recognising the search period of the Higher priority PLMN – GSM/E-UTRAN

7.4.4.1 Definition and applicability

The Higher priority PLMN handling is defined in TS 22.011 [6]. The Higher priority PLMN search period gives the time interval between searches for a higher priority PLMN.

To avoid a duplication of tests, this test supersedes the previous test case (7.4.3).

7.4.4.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the Higher priority PLMN search period timer and the priority order of the Higher priority PLMNs in the preferred lists on the USIM including the Access Technology Identifier.

- TS 22.011 [6], subclauses 3.2.2 and 3.2.2.5.

7.4.4.3 Test purpose

To verify that the Higher priority PLMN timer is read and the Higher priority PLMN with the higher priority (defined according to the selection order in TS 22.011 [6]) takes precedence over the VPLMN in which the UE is currently registered in. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.4.4.4 Method of test

7.4.4.4.1 Initial conditions

For this test both a GSM SS and an E-UTRAN E-USS are needed.

The GSM SS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/082/0001.

- RAI (MCC/MNC/LAC/RAC): 244/082/0001/05.

- Access control: unrestricted.

After the registration of UE the GSM SS transmits on a second BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- RAI (MCC/MNC/LAC/RAC): 244/081/0001/05.

- Access control: unrestricted.

At the same time as the SS sends on a second BCCH, the E- USS transmits on BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 244/081/0001.

-- Access control: unrestricted.

The default E-UTRAN UICC is used with the following exception:

EF_{HPLMNwACT} (HPLMN selector with Access Technology)

Logically: Set to MCC 244 and MNC 081

Set to

E-UTRAN

Coding: B1 B2 B3 B4 B5 Hex 42 14 80 40 00

EF_{HPPLMN} (Higher Priority HPLMN Search period)

Logically: set to 6minutes

Coding: B1 Hex 01

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

HPLMN selector with access technology available EPS Mobility Management Information available

Allowed CSG Lists and corresponding indications not available

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Binary	xx1x xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xx11	xxxx x1xx	xxxx xxxx	xxxx xxxx
	B9 xxxx xxxx	B10 xxxx xxxx	B11 xx01 xxxx					

The UICC is installed into the Terminal, the UE is set to automatic PLMN selection mode and to auto GPRS attach...

7.4.4.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.
- c) After receipt of an ATTACH REQUEST from the UE, the SS sends ATTACH ACCEPT with:

RAI (MCC/MNC/LAC/RAC): 244/082/0001/05

TMSI: "34567890"

to the UE.

- d) After receipt of a ATTACH COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.
- e) The SS starts to send on the second BCCH with the MCC/MNC 244/081 and the E-USS starts to send with the Same MCC/MNC. An internal timer shall start to run.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the UE:

TAI (MCC/MNC/TAC):244/081/0001

GUTI: "24408100010266436587"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*.
- i) The UE is soft powered down.

7.4.4.5 Acceptance criteria

- 1.) After step e) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081 to the e-USS.
- 2) After step f) the terminal shall send TrackingAreaUpdateReques to the E-USS.
- 3) After step g) the terminal shall respond with *TrackingAreaUpdatComplete* during registration.
- 4) After step i) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24408100010266436587

Last visited registered TAI: 244/081/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	14	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	14	80	00	01	00				

7.4.5 E-UTRAn/EPC capable UEs recognising the search period of the Higher priority PLMN – UTRAN/E-UTRAN

7.4.5.1 Definition and applicability

The Higher priority PLMN list gives in priority order the Higher priority PLMN on which the UE shall register first. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the EF_{HPLMNwACT}. The Higher priority PLMN search period gives the time interval in which the UE shall search for a possible Higher priority PLMN registration.

To avoid a duplication of tests, this test supersedes test 7.4.x.

7.4.5.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the Higher priority PLMN search period timer and the priority order of the Higher priority PLMNs in the preferred list on the USIM including the Access Technology Identifier.

- TS 22.011 [6], subclauses 3.2.2 and 3.2.2.5.

7.4.5.3 Test purpose

To verify that the Higher priority PLMN timer is read and the Higher priority PLMN with the higher priority (defined by its position in EF_{HPLMNwACT}) takes precedence over the VPLMN in which the UE is currently registered in. Hereby the new coding for RAT E-UTRAN has to be handled correctly by the UE.

7.4.5.4 Method of test

7.4.5.4.1 Initial conditions

For this test both a UTRAN USS and an E-UTRAN E-USS are needed.

The USS transmits on BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/009/0001.

- RAI (MCC/MNC/LAC/RAC): 244/009/0001/05.

- Access control: unrestricted.

After the registration of UE the USS transmits on a second BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 244/081/0001.

- RAI (MCC/MNC/LAC/RAC): 244/081/0001/05.

- Access control: unrestricted.

At the same time as the SS sends on a second BCCH, the E- USS transmits on BCCH, with the following network parameters:

- TAI (MCC/MNC/TAC): 244/081/0001.

-- Access control: unrestricted.

The default E-UTRAN UICC is used with the following exception:

EF_{HPLMNwACT} (HPLMN selector with Access Technology)

Logically: Set to MCC 244 and MNC 081

Set to

E-UTRAN

Coding: B1 B2 B3 B4 B5 Hex 42 14 80 40 00

EF_{HPPLMN} (Higher Priority HPLMN Search period)

Logically: set to 6minutes

Coding: B1 Hex 01

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

HPLMN selector with access technology available EPS Mobility Management Information available

Allowed CSG Lists and corresponding indications not available

Coding: **B**1 B2 B3 B4 **B**5 B6 **B7** B8 Binary xx1x xx11 XXXX XXXX xxxx 1x00 xxxx x1xx xxxx xx11 xxxx x1xx XXXX XXXX XXXX XXXX

B9 B10 B11 xxxx xxxx xxxx xx01 xxxx

The UICC is installed into the Terminal, the UE is set to automatic PLMN selection mode and to auto GPRS attach.

7.4.5.4.2 Procedure

a) The UE is powered on.

- b) After receipt of a RRC CONNECTION REQUEST from the UE, the USS shall send RRC CONNECTION SETUP to the UE, followed by RRC CONNECTION SETUP COMPLETE sent by the UE to the USS.
- c) After receipt of an ATTACH REQUEST from the UE, the SS sends ATTACH ACCEPT with:

RAI (MCC/MNC/LAC/RAC): 244/009/0001/05

TMSI: "34567890"

to the UE.

- d) After receipt of a ATTACH COMPLETE from the UE, the USS sends RRC CONNECTION RELEASE to the UE, followed by RRC CONNECTION RELEASE COMPLETE sent by the UE to the USS.
- e) TheUSS starts to send on the second BCCH with the MCC/MNC 244/081 and the E-USS starts to send with the Same MCC/MNC. An internal timer shall start to run.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the UE:

TAI (MCC/MNC/TAC):244/081/0001

GUTI: "24408100010266436587"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*.
- i) The UE is soft powered down.

7.4.5.5 Acceptance criteria

- 1.) After step e) the UE shall send a *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting MCC/MNC 244/081 to the e-USS.
- 2) After step f) the terminal shall send TrackingAreaUpdateReques to the E-USS.
- 3) After step g) the terminal shall respond with TrackingAreaUpdatComplete during registration.
- 4) After step i) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24408100010266436587

Last visited registered TAI: 244/081/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	14	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	14	80	00	01	00				

7.5 Void

8 Subscription independent tests

8.1 Phone book procedures

8.1.1 Recognition of a previously changed phonebook

8.1.1.1 Definition and applicability

If the UICC is inserted into a GERAN Rel-4 or earlier terminal, the phonebook may have been altered in this GSM session. If the ADN entry has been changed or deleted, the GSM terminal will not be able to change the appropriate additional phonebook entries (e.g. EF_{ANR} Additional Number). In that case the UICC shall set a flag in the appropriate EF_{PBC} (phonebook Control). If the UICC is inserted in a 3G or GERAN Terminal, the 3G or GERAN Terminal shall recognise the flag and the phonebook shall be synchronised by the Terminal. Once the Terminal recognise the set flag in the EF_{PBC} , the Terminal shall update the Change Counter in the EF_{CC} .

8.1.1.2 Conformance requirement

The 3G or GERAN Terminal shall recognise the set flag in the EF_{PBC} and then synchronise the phonebook. The Terminal shall also update EF_{CC} (Change Counter).

- TS 31.102 [4], subclause 4.4.2.

8.1.1.3 Test purpose

- 1) To verify that the Terminal has recognised that the phonebook has been altered by a GSM Terminal.
- 2) To verify that the Terminal does the synchronising of the changed phonebook entries.
- 3) To verify that the Terminal updates the EF_{PBC} and EF_{CC} .

8.1.1.4 Method of test

8.1.1.4.1 Initial conditions

No USS is needed for this test.

The default UICC is used with the following exception:

EF_{ADN} (Abbreviated Dialling Number)

Logically:

Record 1: Length of alpha identifier: 32 characters;

Alpha identifier: "ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEF";

Length of BCD number: "03";

TON and NPI: Telephony and Unknown;

Dialled number: 123; CCI: None; Ext1: None.

Record 1:

Coding: R1 R2 **B**3 B32 **B33 B34 B35 B36 B37** B38 **B39** R46 Hex 42 43 03 21 F3 FF FF FF 46 81

EF_{PBC} (Phonebook Control)

Logically:

Record 1: The ADN Record No. 1 has been hanged by a GSM terminal.

Related ADN record is not hidden.

Coding: B1 B2 Hex 01 00

EF_{CC} (Change Counter)

Logically: "000F"

Coding: B1 B2 Hex 00 0F

The UICC is installed into the Terminal

8.1.1.4.2 Procedure

a) The Terminal is powered on.

b) The Terminal shall stay powered on until the phonebook synchronisation procedures are finished. If the synchronisation is indicated by the Terminal, the Terminal shall only powered down after this indication is vanished.

8.1.1.5 Acceptance criteria

After step b) the USIM shall contain the following values:

EF_{PBC} (Phonebook Control)

Logically:

Record 1: The entry control information is reset.

Related ADN record is not hidden.

Coding: B1 B2 Hex 00 00

EF_{CC} (Change Counter)

Logically: The counter is incremented to "0010"

Coding: B1 B2 Hex 00 10

8.1.2 Update of the Phonebook Synchronisation Counter (PSC)

8.1.2.1 Definition and applicability

The phonebook synchronisation Counter is used to unambiguously identify the status of the phonebook. Every time the phonebook is reset/deleted or the UID and/or the CC has run out of range, the PSC shall be regenerated.

The PSC is a part of the phonebook identifier.

8.1.2.2 Conformance requirement

Every time either the UID or the CC is incremented by the Terminal, the value of the contend of the appropriate EF shall be tested. If either UID or CC has reached "FF FF", the related EF shall be set to "00 01" and the PSC is incremented.

- TS 31.102 [4], subclause 4.4.2.12.2.

8.1.2.3 Test purpose

- 1) To verify that the Terminal has recognised that the values of UID and CC has changed.
- 2) To verify that the Terminal resets the value of EF_{UID} and EF_{CC}.
- 3) To verify that the Terminal updates EF_{PSC}.

8.1.2.4 Method of test

8.1.2.4.1 Initial conditions

No USS is needed for this test.

The default UICC is used with the following exception:

EF_{UID} (Unique Identifier)

Logically: one record is set to "FF FF"

Coding: B1 B2 Hex FF FF

EF_{PUID} (Previous Unique Identifier)

Logically: is set to "FF FF"

Coding: B1 B2 Hex FF FF

EF_{CC} (Change Counter)

Logically: set to "FF FF"

Coding: B1 B2 Hex FF FF

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 00 FF FF"

Coding: B1 B2 B3 B4 Hex 00 00 FF FF

At least one phonebook entry shall be empty and available for creating a new entry (e.g. an appropriate ADN record).

The UICC is installed into the Terminal and the UE is powered on and the correct PIN is entered.

8.1.2.4.2 Procedure

a) A new phonebook entry shall be created.

NOTE 1: This may be done by storing a new telephone number in an empty ADN record.

b) The UE shall have given the time to perform the regeneration of the UID records.

NOTE 2: It is assumed that the UE will indicate the time it needs to perform the regeneration by displaying a busy signal to the user.

8.1.2.5 Acceptance criteria

After step b) the USIM shall contain the following values:

The EF_{UID} (Unique Identifier) shall have been regenerated with UID values starting with "00 01". The UID values may be stored in any order, but shall be unique. The entry in EF_{UID} with value FF FF (the maximum value) shall have been replaced by an appropriate value which shall be distinguishable to the maximum value. EF_{PUID} shall contain a UID value (other than FFFF) that is present in EF_{UID} .

EF_{CC} (Change Counter)

Logically: set to "00 01"

Coding: B1 B2 Hex 00 01

EF_{PSC} (Phonebook Synchronisation Counter)

Logically: set to "00 01 00 00"

Coding: B1 B2 B3 B4 Hex 00 01 00 00

8.1.3 Phonebook content handling

8.1.3.1 Handling of BCD number/ SSC content extension

8.1.3.1.1 Definition and applicability

The length of BCD number/SSC contents in EF_{ADN} byte gives the number of bytes of the following two data items containing actual BCD number/SSC information. This means that the maximum value is 11, even when the actual ADN/SSC information length is greater than 11. When an ADN/SSC has extension, it is indicated by the extension1 identifier being unequal to 'FF'. The remainder is stored in the EF_{EXT1} with the remaining length of the additional data being coded in the appropriate additional record itself.

8.1.3.1.2 Conformance requirement

The terminal shall support the BCD number/ SSC extension for EF_{ADN} as defined in TS 31.102 [4], subclauses 4.4.2.3 and 4.4.2.4.

Reference:

- TS 31.102 [4], subclauses 4.4.2.3 and 4.4.2.4.

8.1.3.1.3 Test purpose

1) To verify that the terminal is able to read and update BCD numbers/ SSC content with and without extension correctly in EF_{ADN} and EF_{EXT1} .

8.1.3.1.4 Method of test

8.1.3.1.4.1 Initial conditions

The terminal is connected to the USIM Simulator.

Prior to the test execution the terminal manufacturer shall state the maximum number of BCD digits (excluding TON/NPI), which are supported by the terminal for global phonebook updating.

The default USIM is used with the following exceptions:

Only the global phonebook is present.

The global phonebook shall contain:

EF_{PBR} (Phonebook reference file)

Logically: Only EF_{ADN} and EF_{EXT1} are present in the global phonebook.

EF_{ADN} (Abbreviated dialling numbers)

Logically:

10 records, each record non-empty and unique. Unless otherwise stated, the ADN records shall not use extended BCD numbers/SSC strings.

Record 1: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact001";

Length of BCD number: 11;

TON and NPI: Telephony and International; Dialled number: "00112233445566778899";

CCI: 'FF'; Ext1: 01.

Record 1:

91

00

Coding: В1 B2 В3 B4 B5 B6 **B7 B8 B9** B10 **B11** B32 **B33** . . . 6F 6E 74 61 FF Hex 43 63 74 30 30 31 FF 0B . . . **B34 B35 B36 B37 B38 B39 B40** B41 **B42 B43 B44 B45 B46**

55

66

77

88

99

FF

01

44

Record 2: Length of alpha identifier: 32 characters;

11

Alpha identifier: "Contact002";

33

Length of BCD number: 11;

22

TON and NPI: Telephony and International; Dialled number: "01234567890123456789";

CCI: 'FF'; Ext1: 'FF'.

Record 2:

B2 Coding: В1 **B**3 B4 B5 B6 B7 В8 B9 B10 B32 **B33** B11 ... 74 43 6F 6E 61 74 30 30 FF 0B Hex 63 32 FF **B34 B35 B36 B37 B38** B39 B40 **B41** B42 **B43 B44** B45 B46 91 54 76 98 10 FF FF 10 32 32 54 76 98

Record 3: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact003";

Length of BCD number: 11

TON and NPI: Telephony and International; Dialled number: "99887766554433221100";

CCI: 'FF'; Ext1: '02'.

Record 3:

В6 Coding: В1 B2 В3 B4 B5 **B7 B8 B9** B10 B11 B32 B33 6F 6E 74 61 30 30 0B Hex 43 63 74 33 FF FF ... B42 **B34 B35 B36 B37 B38** B39 B40 **B41 B43 B44** B45 B46 02 91 88 66 55 44 33 22 11 00 FF 99 77

Record 4: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact004";

Length of BCD number: 9;

TON and NPI: Telephony and International; Dialled number: "12121212121212";

CCI: 'FF'; Ext1: 'FF'.

Record 4:

Coding: В1 B2 В3 В4 **B**5 В6 В7 В8 В9 B10 B11 B32 **B33** ... Hex 43 6F 6E 74 61 63 74 30 30 34 FF FF 09 ... **B34 B35 B36 B37 B38** B39 B40 B41 B42 B43 **B44** B45 B46 91 21 21 21 21 21 21 21 21 FF FF FF FF

Record 7: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact007";

Length of BCD number: 3;

TON and NPI: Telephony and International;

Dialled number: "678"; CCI: "FF'; Ext1: "FF'.

Record 7:

Coding: В1 B2 В3 B4 **B**5 B6 B7 В8 В9 B10 B11 B32 **B33** . . . 6F 74 FF Hex 43 6E 61 63 74 30 30 37 FF 03 **B34 B35 B36 B37 B38** B39 B40 B41 B42 B43 **B44 B45** B46 91 76 F8 FF FF FF FF FF FF FF FF FF FF

EF_{EXT1} (Extension 1)

Logically: 4 records

Record 1: Record type: '02'

Extension data: "01234567890123456789";

Identifier: 'FF'.

Record 1:

B2 B4 Coding: В1 В3 **B**5 B6 B7 В8 В9 B10 B11 B12 B13 Hex 02 0A 10 32 54 76 98 10 32 54 76 98 FF

Record 2: Record type: '02'

Extension data: "99887766554433221100";

Identifier: '03'.

Record 2:

Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	02	0A	99	88	77	66	55	44	33	22	11	00	03

Record 3: Record type: '02'

Extension data: "11p12345";

Identifier: 'FF'.

Record 3:

Coding: В1 B2 В3 B4 B5 B6 В7 В8 B11 B12 B13 1C FF FF FF Hex 02 04 11 32 54 FF FF FF FF

Record 4: Record type: '00'

Extension data: empty; Identifier: 'FF'.

Record 4:

Coding: В1 B2 В3 B4 B5 B6 В7 В8 **B9** B10 B11 B12 B13 00 Hex FF FF FF

8.1.3.1.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use an MMI dependent procedure to select the global phonebook.
- c) The user shall change the BCD number of the entry "Contact002" to "22446622446622446600777888999". If the maximum number of BCD digits supported for the global phonebook update is less than in the requested input BCD number string, then the user shall enter the BCD number string as requested, but only up to the maximum number of BCD digits which are supported for updating.
- d) The user shall extend the BCD number of the entry "Contact007" to "01234567890123456789777888999".. If the maximum number of BCD digits supported for the global phonebook update is less than in the requested input BCD number string, then the user shall enter the BCD number string as requested, but only up to the maximum number of BCD digits which are supported for updating.
- e) The user shall delete the phonebook entry "Contact001".
- f) The user shall set the BCD number of the entry "Contact002" to "22446622446600"
- g) The user shall create the new phonebook entry "NewContact" with the BCD number "1234567890123456789012345678901234567890123456789012".. If the maximum number of BCD digits supported for the global phonebook update is less than in the requested input BCD number string, then the user shall enter the BCD number string as requested, but only up to the maximum number of BCD digits which are supported for updating.
- h) The user shall delete the phonebook entry "Contact003".
- i) The terminal is switched off.

8.1.3.1.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application.
- 2) After step b) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.

- 3) After step c) the global phonebook shall contain a record with "224466224466204" as BCD number and "04" as extension record identifier. EF_{EXT1} shall contain a record with "Additional data" as record type, the BCD number extension "777888999" and "FF" as identifier to indicate the end of the chain. If the maximum number of BCD digits supported for global phonebook updating is less than in the requested input BCD number, then EF_{ADN} and EF_{EXT1} shall contain the BCD number as entered on the MMI.
- 4) After step d) the terminal shall have taken action to prevent storage of the extended BCD number, e.g. by giving an indication to the user or not allowing to enter the extended number. EF_{EXT1} shall have not been updated and the extension record identifier of the entry "Contact007"shall remain as "FF".
- 5) After step e) records of EF_{ADN} and EF_{EXT1} which were used to store the data for the phonebook entry "Contact001" shall be empty, i.e. the EF_{ADN} record shall be "FF... FF" and the EF_{EXT1} record shall be "00FF... FF."
- 6) After step f) the record of EF_{EXT1} which was used to store the BCD number extension "777888999" shall be empty and the record used for storing the entry with the alpha identifier "Contact002" of EF_{ADN} shall contain the BCD number "22446622446600" and the extension record identifier "FF".
- 7) After step g) a record of EF_{ADN} shall contain "NewContact" as alpha identifier, "12345678901234567890" as BCD number and shall use an extension record identifier unequal to "FF".

The EF_{EXT1} record which was indicated in the EF_{ADN} record used in this case shall contain "Additional data" as record type, "12345678901234567890" as BCD number and an extension record identifier unequal to "FF", while the EF_{EXT1} record used to continue the chain inside EF_{EXT1} shall contain "Additional data" as record type, "123456789012" as BCD number and "FF" as extension record identifier.

If the maximum number of BCD digits supported for global phonebook updating is less than the requested input BCD number, then EF_{ADN} and EF_{EXTI} shall contain the BCD number as entered on the MMI.

8) After step h) the record of EF_{ADN} which was used to store the data for "Contact003" and the related records of EF_{EXT1} shall be empty.

8.1.4 Phonebook selection

8.1.4.1 Definition and applicability

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel. When both phonebook types co-exist, they are independent and no data is shared. In this case, it shall be possible for the user to select which phonebook the user would like to access.

8.1.4.2 Conformance requirement

The terminal shall support the global and the application specific phonebooks as defined in TS 31.102 [4], subclause 4.4.2.

Reference:

- TS 31.102 [4], subclause 4.4.2.

8.1.4.3 Test purpose

- 1) To verify that the terminal offers a possibility to select which phonebook the user would like to select if both, the global and the local phonebook, co-exist.
- 2) To verify that the data contained in the local phonebook can be read and updated correctly.
- 3) To verify that the data contained in the global phonebook can be read and updated correctly.

8.1.4.4 Method of test

8.1.4.4.1 Initial conditions

The terminal is connected to the USIM Simulator.

The default USIM is used with the following exceptions:

The local and the global phonebook are both present.

The local phonebook shall contain:

EF_{PBR} (Phonebook reference file)

Logically: Only EF_{ADN} and EF_{EXT1} are present in the local phonebook.

EF_{ADN} (Abbreviated dialling numbers)

Logically: 10 records, each record non-empty and unique.

Record 4: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact004";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 004; CCI: 'FF'; Ext1: 'FF'.

Record 4:

Coding: B1 B2 B3 B4 B5 B6 **B7 B8** B9 B10 B11 B32 **B33** 43 6E 74 30 30 03 Hex 61 63 74 34 FF FF

> B34 B35 B36 B37 B38 B39 ... B46 91 00 F4 FF FF FF ... FF

Record 5: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact005";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 1234; CCI: 'FF'; Ext1: None.

Record 5:

Coding: В1 B2 В3 B4 **B**5 В6 B7 В8 В9 B11 B32 **B33** 43 6F 6E 74 61 63 74 30 30 FF FF 03 Hex 35

> B34 B35 B36 B37 B38 B39 ... B46 91 21 43 FF FF FF ... FF

The global phonebook shall contain:

EF_{PBR} (Phonebook reference file)

Logically: Only EF_{ADN} is present in the global phonebook.

EF_{ADN} (Abbreviated dialling numbers)

Logically: 8 records, records 3 and 6 empty, each non-empty record unique.

Record 1: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact001";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 001; CCI: 'FF'; Ext1: 'FF'.

Record 1:

B5 **B33** Coding: **B1** B2 **B3** B4 B6 **B7 B8 B9** B10 B11 B32 ... Hex 43 6F 6E 74 61 63 74 30 30 31 FF FF 03 ...

> B34 B35 B36 B37 B38 B39 ... B46 91 00 F1 FF FF FF ... FF

Record 2: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact002";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 002; CCI: 'FF'; Ext1: 'FF'.

Record 2:

Coding: В1 B2 В3 B4 B5 B6 **B7 B8 B9** B10 B11 B32 **B33** ... Hex 43 6F 6E 74 61 63 74 30 30 32 FF FF 03

> B34 B35 B36 B37 B38 B39 ... B46 91 00 F2 FF FF FF ... FF

Record 4: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact004";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 0041; CCI: 'FF'; Ext1: 'FF'.

Record 4:

Coding: В1 B2 В3 B4 **B**5 B6 B7 В8 **B9** B10 B11 B32 B33 Hex 43 6F 6E 74 61 63 74 30 30 34 FF FF 03

> B34 B35 B36 B37 B38 B39 ... B46 91 00 14 FF FF FF ... FF

Record 5: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact005";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 1234; CCI: 'FF'; Ext1: 'FF'.

Record 5:

Coding: Hex	B1 43	B2 6F	B3 6E	B4 74	B5 61	B6 63	B7 74	B8 30	B9 30	_	B11 FF	B32 FF	B33 03
	B34	B35	B36	B37	B38			B46					

Record 7: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact007";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 007; CCI: 'FF'; Ext1: 'FF'.

Record 7:

В1 B2 В3 В4 **B**5 В6 В7 В8 B11 B32 **B33** Coding: B9 B₁₀ Hex 43 6F 6E 74 61 63 74 30 30 37 FF FF 03 ... **B46**

B34 B35 B36 B37 B38 B39 ... B46 91 00 F7 FF FF FF ... FF

Record 8: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact008";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 008; CCI: 'FF'; Ext1: 'FF'.

Record 8:

Coding: B1 B2 **B**3 B4 B5 B6 **B7 B8** B9 B10 B11 B32 **B33** 6F 74 Hex 43 6E 61 63 74 30 30 38 FF FF 03 **B34** B35 **B36 B37 B38** B39 **B46** ... 91 00 F8 FF FF FF FF

8.1.4.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use an MMI dependent procedure to select the global phonebook.
- c) The global phonebook record with the alpha identifier "Contact005" and the associated dialling number shall be read by the user.
- d) The dialling number of the global phonebook record with the alpha identifier "Contact005" shall be set to "+1122330".
- e) A new entry with the values "Contact006" as alpha identifier and "+9876543210" as associated dialling number shall be added to the global phonebook.
- f) The user shall use an MMI dependent procedure to select the local phonebook.
- g) The local phonebook record with the alpha identifier "Contact005" and the associated dialling number shall be read by the user.
- h) The dialling number of the local phonebook record with the alpha identifier "Contact005" shall be set to "+11223345".
 - i) The user shall try to add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.

- j) The user shall delete the entry "Contact004" from the local phonebook.
- k) The user shall add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- 1) The user shall use an MMI dependent procedure to select the global phonebook.
- m) The user shall delete the entry "Contact007" from the global phonebook.
- n) The terminal is switched off.

8.1.4.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the local Phonebook in EF_{UST} .
- 2) After step b) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.
- 3) After step c) the terminal shall have read the global phonebook record which is used to store the enrty "Contact005" and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 4) After step d) EF_{ADN} in the global phonebook shall contain a record with the alpha identifier "Contact005" with the new dialling number "+1122330" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- After step e) a new record shall have been added to EF_{ADN} in the global phonebook with the alpha identifier "Contact006" and the dialling number string "+9876543210".
- 6) After step f) the terminal shall have selected the local phonebook and shall have read EF_{PBR} in the local phonebook.
- 7) After step g) the terminal shall have read the local phonebook record which is used to store the entry "Contact005" and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 8) After step h) EF_{ADN} in the local phonebook shall contain a record with the alpha identifier "Conatct005" and with new dialling number "+11223345" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- 9) After step i) the terminal shall have given an indication that update of the local phonebook can't be performed. EF_{ADN} shall have not been updated.
- 10) After step j) the local phonebook record which was used to store the entry "Contact004" shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.
- 11) After step k) a new record shall have been added to EF_{ADN} in the local phonebook with the alpha identifier "Contact007" and the dialling number string "+007"
- 12) After step l) the terminal shall have selected the global phonebook and shall have read EF_{PBR} in the global phonebook.
- After step m) the global phonebook record which was used to store the entry "Contact007" shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.

8.1.5 Local Phonebook handling

8.1.5.1 Definition and applicability

The UICC may contain a global phonebook, or application specific phonebooks, or both in parallel.

8.1.5.2 Conformance requirement

The terminal shall support the local phonebook as defined in TS 31.102 [4], subclause 4.4.2.

Reference:

- TS 31.102 [4], subclause 4.4.2.

8.1.5.3 Test purpose

- 1) To verify that the terminal supports the local phonebook without existence of the global phonebook.
- 2) To verify that the data contained in the local phonebook can be read and updated correctly.

8.1.5.4 Method of test

8.1.5.4.1 Initial conditions

The terminal is connected to the USIM Simulator.

The default USIM is used with the following exceptions:

The local phonebook is present, the global phonebook is not present.

The local phonebook shall contain:

EF_{PBR} (Phonebook reference file)

Logically: Only EF_{ADN} and EF_{EXT1} are present in the local phonebook.

EF_{ADN} (Abbreviated dialling numbers)

Logically: 10 records, each record non-empty and unique.

Record 4: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact004";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 004; CCI: 'FF'; Ext1: 'FF'.

Record 4:

Coding: B1 B2 В3 **B**5 В6 В7 B32 **B33** B4 **B8 B9** B10 B11 Hex 43 6E 74 61 63 74 30 03 30 34 FF FF

> B34 B35 B36 B37 B38 B39 ... B46 91 00 F4 FF FF FF ... FF

Record 5: Length of alpha identifier: 32 characters;

Alpha identifier: "Contact005";

Length of BCD number: "03";

TON and NPI: Telephony and International;

Dialled number: 1234; CCI: 'FF'; Ext1: 'FF'.

Record 5:

Coding: Hex	B1 43	B2 6F	B3 6E	B4 74	B5 61	B6 63	B7 74	B8 30	B9 30	_	B11 FF	B32 FF	B33 03
	B34	B35		B37	B38 FF	B39 FF		B46					

8.1.5.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use an MMI dependent procedure to select the phonebook on the USIM (local phonebook).
- c) The local phonebook record with the alpha identifier "Contact005" and the associated dialling number shall be read by the user.
- d) The dialling number of the local phonebook record with the alpha identifier "Contact005" shall be set to "+11223345" and the alpha identifier shall be changed to "Contact8901234567890123".
- e) The user shall try to add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- f) The user shall delete the entry "Contact004" from the local phonebook.
- g) The user shall add a new entry with the values "Contact007" as alpha identifier and "+007" as associated dialling number to the local phonebook.
- h) The terminal is switched off.

8.1.5.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the local Phonebook in EF_{UST} .
- 2) After step b) the terminal shall have selected the local phonebook and shall have read EF_{PBR} in the local phonebook.
- 3) After step c) the terminal shall have read the local phonebook record which is used to store the entry "Contact005" and shall have presented the alpha identifier "Contact005" and the dialling number "+1234" to the user.
- 4) After step d) EF_{ADN} in the local phonebook shall contain a record with the new alpha identifier "Contact8901234567890123 and the dialling number "+11223345" and the terminal shall have given an indication to the user that the phonebook update has been performed successfully.
- 5) After step e) the terminal shall have given an indication that update of the local phonebook can't be performed. EF_{ADN} shall have not been updated.
- 6) After step f) the local phonebook record which was used to store the entry "Contact004" in the local phonebook shall be empty and the terminal shall have indicated that the deletion of the phonebook entry was performed successfully.
- 7) After step g) a new record shall have been added to EF_{ADN} in the local phonebook with the alpha identifier "Contact007" and the dialling number string "+007"

8.2 Short message handling report

8.2.1 Correct storage of a SM on the USIM

8.2.1.1 Definition and applicability

Once a SMS is received by the UE, the Terminal shall store the SM on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SM). For this it is assumed, that at least one relevant SMS field are available on the USIM and they are indicated as empty.

8.2.1.2 Conformance requirement

The received class 2 SMS shall be stored on the USIM in EF_{SMS} . The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read).

- TS 23.038 [3], clause 4.
- TS 23.040 [13], subclause 10.1, operation 6;
- TS 24.011, subclauses 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102 [4], subclauses 4.2.25.

8.2.1.3 Test purpose

- 1) To verify that the Terminal stored correctly the class 2 SMS on the USIM.
- 2) To verify that the Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read)

8.2.1.4 Method of test

8.2.1.4.1 Initial conditions

The default UICC is used with the following exceptions:

1) EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

Byte:	B1	B2	B3	B4	B5
Binary	xx1x xx11	xxxx X11x	xxxx 1x00	xxxx x1xx	xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

2) EF_{SMS} (Short Message Service) and EF_{SMSS} (SMS Status) as defined in 8.2.4.4.1.

The USS (in case of a Terminal accessing UTRAN)/SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The USS/SS transmits the class 2 short message with the parameters as defined in 8.2.4.4.1.

User Equipment:

The UE is connected to the USIM-Simulator and the USS/SS.

8.2.1.4.2 Procedure

CS related sequence for UTRAN/GERAN

Perform the "CS related procedure" and continue with "Generic Procedure 1" as defined clause 8.2.4.4.2 as test "8.2.1" with the following parameters:

- Applicable Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)
- CS is used to send and receive short messages
- ME supports UTRAN or GERAN

CS related procedure:

- a) The ME is switched on and will perform the Profile Download, USIM initialization and network registration.
- b) Continue with step c) of the Generic Procedure 1 as defined in 8.2.4.4.2.

8.2.1.5 Acceptance criteria

1) After step c) the record of the USIM EF_{SMS} which was empty, shall contain the values as defined in 8.2.4.5

8.2.2 Correct reading of a SM on the USIM

8.2.2.1 Definition and applicability

A SM which is stored but not yet read, is indicated as Status "3" (SMS to be read) on EF_{SMS} . The Terminal may indicate the user this status. After the SMS is read by the user, the status of the SMS shall be changed to "1" (SMS read).

8.2.2.2 Conformance requirement

A received SM was stored on the USIM in EF_{SMS} . At the time the SMS is read by the user, the status of a received SMS, shall be changed to "1" (SMS read).

- TS 23.038 [3], clause 4.
- TS 23.040 [13];
- TS 31.102 [4], subclauses 4.2.25 and 4.2.28.

8.2.2.3 Test purpose

- 1) To verify that the Terminal read correctly the SMS on the USIM.
- 2) To verify that the Terminal changes the status of a read SMS to "1" (SMS read).

8.2.2.4 Method of test

8.2.2.4.1 Initial conditions

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xx1x xx11
 xxxx X11x
 xxxx 1x00
 xxxx x1xx
 xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR not set.

Memory capacity available (flag unset b1="1").

Coding: B1 B2 Hex FF FF

EF_{SMS} (Short Message Service)

Logically: Status byte set to SMS to be read.

A chosen test is written in the text body of the EF_{SMS}.

Record 1:

В1 Codina: B2 **B3 B**4 **B**5 B6 **B7 B8 B9** B10 B11 B12 B176 Hex 03 ХX XX XX XXXX XXXXXX XX XX ...

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]

which represents the stored SMS.

At least 9 records.

Logically: Status byte set to empty

no text is written (Remainder Bytes set to "FF").

Record:

A USS (in case of a Terminal accessing UTRAN) or a SS (in case of a Terminal accessing GERAN) is only needed to bring the UE into a defined idle mode. The USS/SS transmits on the BCCH:

Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

Access control: unrestricted.

User Equipment:

The UE is in MM-state "idle, updated".

8.2.2.4.2 Procedure

- a) After the UE has brought in idle state, the SMS shall be read.
- b) The UE is powered off.

8.2.2.5 Acceptance criteria

- 1) After a) the correct text of the SMS shall be read from the UE display.
- 2) After step b) the EF_{SMS} record 1 shall contains the following values:

Logically: Status byte set to SMS read.

The entire content of the SMS shall be unchanged.

Record 1:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	В9	B10	B11	B12	 B176
Hex	01	XX	XX	XX	 XX								

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3] which represents the stored SMS.

8.2.3 SM memory capacity exceeded handling

8.2.3.1 Definition and applicability

Once a SMS is received by the UE, the Terminal shall store the SM on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SM). For this it is assumed, that at least one relevant SMS field are available on the USIM and they are indicated as empty. If all SMS data field are full and furthermore all memory capacity reserved for SMS inside the ME is filled up to maximum and a SM was rejected, then this shall be indicated in the SMS Status file.

8.2.3.2 Conformance requirement

The received class 2 SMS shall be stored on the USIM in EF_{SMS} . The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read). If the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded, then the ME shall set the Memory Capacity Exceeded Notification Flag in the EF_{SMSS} .

- TS 23.038 [3], clause 4.
- TS 23.040 [13], subclause 10.1, operation 6;
- TS 24.011, subclauses 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102 [4], subclauses 4.2.25 and 4.2.28.

8.2.3.3 Test purpose

- 1) To verify that the Terminal stored correctly the class 2 SMS on the USIM.
- 2) To verify that the Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read).
- 3) To verify that the Terminal sets the memory full flag in EF_{SMSS} if the terminal notifies the network that the terminal has been unable to accept a short message because its memory capacity has been exceeded.

8.2.3.4 Method of test

8.2.3.4.1 Initial conditions

The default UICC is used with the following exception:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

 Coding:
 B1
 B2
 B3
 B4
 B5

 binary
 xx1x xx11
 xxxx X11x
 xxxx 1x00
 xxxx x1xx
 xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMS} (Short Message Service)

At least 10 records. Record 1 shall be empty.

Logically: Status byte set to empty.

Record 1:

В5 В6 Coding: B1 B2 **B**3 B4 **B7** B10 B11 B12 B176 **B8** B9 Hex 00 FF FF FF FF FF

All other Record shall be full.

Logically: Status byte set to SMS read.

The text body of the record shall be filled with any appropriate text.

Records:

В1 B2 В3 **B**5 B6 В7 Coding: **B**4 **B8 B9** B10 B11 B12 B176 Hex 01 XX ...

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]

which represents the received SMS.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR not defined.

Memory capacity available (flag unset b1="1").

Coding: B1 B2 Hex FF FF The USS (in case of a Terminal accessing UTRAN) /SS (in case of a Terminal accessing a GERAN) transmits on the BCCH, with the following network parameters:

- Attach/detach: disabled.

- LAI (MCC/MNC/LAC): 246/081/0001.

- Access control: unrestricted.

The USS/SS transmits the short messages with the following parameters:

Logically:

Class 2 SM:TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to MS)

TP-More-Messages-to-Send: No more messages are waiting for the MS in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8:

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

Class 1 SM:

The same content as for the Class 2 SMS except:

SMS TPDU:

TP-More-Messages-to-Send: More messages are waiting for the MS in this SC

TP-Data-Coding-Scheme:

Bits 2-1: Class 1: default meaning: ME-specific

TP-Service-Centre-Time-Stamp: Always set to current time of the system simulator

User Equipment:

The UE is in MM-state "idle, updated". If there is ME storage capacity available the storage for SMS inside the ME shall be able to allow for at least one more mobile terminated (e.g. Class 1) SM.

8.2.3.4.2 Procedure

- a) After the UE is set to idle mode, the defined class 2 SM defined in 8.2.1.4.1 with 160 characters shall be sent to the UE.
- b) After the UE has indicated that a SM was received, the SM shall not be read.
- c) The USS starts sending Class 1 SMs as defined in 8.2.1.4.1 until the UE sends an RP-ERROR message with cause 'Memory capacity exceeded'.
- d) The UE is powered off.

8.2.3.5 Acceptance criteria

1) After step b) the record of the EF_{SMS} which was empty, shall contain the following values:

Logically: Status byte set to SMS to be read

The text of the received SMS shall be present in the record.

Record 1:

Logically:

Status:

RFU bits 8-6: 000

Status: Used space, message received by UE from network, message to be read

TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to UE)

TP-More-Messages-to-Send: No more messages are waiting for the UE in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8:

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this ..."

~	
(`odina	٠
Coding	

County.																
Hex	03	07	91	11	22	33	44	55	66	24	0C	91	10	32	44	55
	66	77	00	12	20	30	40	90	31	60	40	A0	4F	F7	B8	0C
	0A	83	A6	CD	29	28	3D	07	C9	CB	E3	72	DA	5E	26	83
	C4	79	10	1D	5D	06	55	8B	2C	10	1D	5D	06	51	CB	F2
	76	DA	1D	66	83	E6	E8	30	9B	0D	9A	D3	DF	F2	32	88
	8E	2E	83	A6	CD	29	E8	ED	06	D1	D1	65	50	75	9A	6C
	B2	40	69	33	88	8E	4E	CF	41	E9	39	28	ED	26	A7	C7
	61	7A	99	0C	12	E7	41	74	74	19	34	66	87	E7	73	90
	0C	F4	36	83	E8	E8	32	68	DA	9C	82	50	D5	69	B2	09
	9A	C3	CB	E3	B4	39	3D	06	4D	9B	D3	94	0B	64	7C	CB
	41	74	74	7A	ΩF	72	B9	5C								

7) After step d) the Memory Capacity Exceeded Notification Flag in the EF_{SMSS} shall be set to exceeded.

EF_{SMSS} (SMS Status)

Logically: Last used TP-MR shall be set to any appropriate value.

Memory capacity exceeded (flag set b1="0").

Coding: B1 B2 Hex xx FE

8.2.4 Correct storage of an SM on the UICC

8.2.4.1 Definition and applicability

For IMS: When a SIP MESSAGE request including a short message in the "vnd.3gpp.sms" payload is delivered and the extracted RP-DATA payload contains a Class 2 SM (USIM specific SM) the terminal shall store the SM on the USIM or ISIM. For this it is assumed, that at least one relevant SMS field are available on the USIM or ISIM and they are indicated as empty.

That the UE correctly implemented the role of an SMS-over-IP receiver is tested in clause 18.2 of TS 34.229-1 [33].

8.2.4.2 Conformance requirement

As TS 31.103[32] and TS 31.102[4] do not indicate in which of both applications a SM received via IMS shall be stored, the received Class 2 SM received via IMS shall be stored in EF_{SMS} either on the USIM or on the ISIM. The status of a received SMS, which has not been read yet, shall be set to "3" (SMS to be read).

- TS 23.038 [3], clause 4.
- TS 23.040 [13], subclause 10.1, operation 6;
- TS 24.011, subclauses 7.3.1.1, 8.2.2, 8.2.3 and 8.2.5.4, Table 8.4 (part 2)
- TS 31.102 [4], subclauses 4.2.25,
- TS 31.103 [32], subclauses 4.2.12,
- TS 34.229 [33], Annexes C.2, C.18 and 18.2.

8.2.4.3 Test purpose

- 1) To verify that the Terminal stored correctly the class 2 SMS on the USIM or the ISIM.
- 2) To verify that the Terminal sets the status of a received, and not yet read SMS to "3" (SMS to be read).

8.2.4.4 Method of test

8.2.4.4.1 Initial conditions

The E-UTRAN/EPC ISIM-UICC is used with the following exception:

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service n 33 (Packed Switched Domain) shall be set to '1'

Enabled Services Table available

Byte:	B1	B2	B3	B4	B5
Binary	xx1x xx11	xxxx X11x	xxxx 1x00	xxxx x1xx	xxxx xx11

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{SMS} (Short Message Service) – For USIM and ISIM

At least 10 records. Record 1 shall be empty.

Logically: Status byte set to empty.

Record 1:

All other Record shall be full.

Logically: Status byte set to SMS read.

The text body of the record shall be filled with any appropriate text.

Records:

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]

which represents the received SMS.

EF_{SMSS} (SMS Status) – For USIM and ISIM

Logically: Last used TP-MR not defined.

Memory capacity available (flag unset b1="1").

Coding: B1 B2 Hex FF FF

The NWS transmits on the BCCH, with the following network parameters:

Attach/detach: disabled.

- USS LAI (MCC/MNC/LAC): 246/081/0001 (For UTRAN testing only)

- E-USS TAI (MCC/MNC/TAC): 246/081/0001 (For E-UTRAN testing only)

Access control: unrestricted.

The NWS transmits the short messages with the following parameters:

Logically:

Class 2 SM: TS-Service Centre Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to MS)

TP-More-Messages-to-Send: No more messages are waiting for the MS in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8:

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this..."

8.2.4.4.2 Procedure

Sequence A for IMS on UTRAN

- a) The ME activates the required bearer, discovers the P-CSCF, and registers with the values from the ISIM with the IMS services (see Note 2).
- b) Continue with step c) in the Generic Procedure 1.

Sequence B for IMS on E-UTRAN

- a) The ME activates the required bearer, discovers the P-CSCF, and registers with the values from the ISIM with the IMS services (see Note 3).
- b) Continue with step c) in the Generic Procedure 1.

Generic Procedure 1

- c) After the UE is set to idle mode, the defined class 2 SM defined in 8.2.1.4.1 with 160 characters shall be sent to the UE (see Note 1) as specified in clause 18.2 of TS 34.229-1 [33] and use the SM payload defined in 8.2.1.4.1 in the Message-body of MESSAGE defined in clause A.7.1 in TS 34.229-1 [33].
- d) After the UE has indicated that a SM was received, the SM shall not be read.
- e) The UE is powered off.

Note 1: In case of IMS the Short Message is contained in the message body of the SIP MESSAGE.

Note 2: For E-UTRAN: The EPS bearer context activation according to the procedures defined in TS 34.229-1 [33], Annex C.2 and C.18 is performed.

Note 3: For UTRAN: For SMS-over-IP a PDP context activation according to the procedures defined in TS 34.229-1 [33], Annex C.2 and C.17 is performed.

8.2.4.5 Acceptance criteria

1) After step d) the record of the EF_{SMS} (on either the ISIM or USIM) which was empty, shall contain the following values:

Logically: Status byte set to SMS to be read

The text of the received SMS shall be present in the record.

Record 1:

Logically:

Status:

RFU bits 8-6: 000

Status: Used space, message received by UE from network, message to be read

TS-Service Centre Address:

Bit 8:

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 112233445566

SMS TPDU:

TP-Message-Type-Indicator: SMS-DELIVER (in the direction SC to UE)

TP-More-Messages-to-Send: No more messages are waiting for the UE in this SC

TP-Reply-Path: TP-Reply-Path parameter is not set in this SMS-DELIVER

TP-User-Data-Header-Indicator: The TP-UD field contains only the short message

TP-Status-Report-Indication: A status report shall be returned to the SME

Bits 4-3: 00

TP-Originating-Address:

Bit 8: 1

Type-Of-Number: International number

Numbering-Plan-Identification: ISDN/telephony numbering plan

Address value: 012344556677

TP-Protocol-Identifier: No interworking, but SME-to-SME protocol

TP-Data-Coding-Scheme:

Bits 8-7: General Data Coding

Bit 6: Text is uncompressed

Bit 5: Bits 2-1 have a message class meaning

Bits 4-3: GSM 7 bit default alphabet

Bits 2-1: Class 2: (U)SIM specific message

TP-Service-Centre-Time-Stamp: 02-03-04 09:13:06 GMT + 1

TP-User-Data-Length: 160

TP-User-Data:

"Once a SMS is received by the UE, the Terminal shall store the SMS on the USIM, if this is indicated by the class 2 of the SMS (USIM specific SMS). For this ..."

Coding:																
Hex	03	07	91	11	22	33	44	55	66	24	0C	91	10	32	44	55
	66	77	00	12	20	30	40	90	31	60	40	A0	4F	F7	B8	0C
	0A	83	A6	CD	29	28	3D	07	C9	CB	E3	72	DA	5E	26	83
	C4	79	10	1D	5D	06	55	8B	2C	10	1D	5D	06	51	CB	F2
	76	DA	1D	66	83	E6	E8	30	9B	0D	9A	D3	DF	F2	32	88
	8E	2E	83	A6	CD	29	E8	ED	06	D1	D1	65	50	75	9A	6C
	B2	40	69	33	88	8E	4E	CF	41	E9	39	28	ED	26	Α7	C7
	61	7A	99	0C	12	E7	41	74	74	19	34	66	87	E7	73	90
	0C	F4	36	83	E8	E8	32	68	DA	9C	82	50	D5	69	B2	09
	9A	C3	CB	E3	B4	39	3D	06	4D	9B	D3	94	0B	64	7C	CB
	41	74	74	7A	0E	72	B9	5C								

2) The UE shall pass the requirements which are verified in the MT SMS test case specified in clause 18.2 of TS 34.229-1 [33].

8.2.5 Correct reading of a SM on the USIM if USIM and ISIM are present

8.2.5.1 Definition and applicability

A SM which is stored but not yet read, is indicated as Status "3" (SMS to be read) on EF_{SMS} . The Terminal may indicate the user this status. After the SMS is read by the user, the status of the SMS shall be changed to "1" (SMS read). This applies to short messages stored on the USIM and to short messages stored on the ISIM.

8.2.5.2 Conformance requirement

A received SM was stored in EF_{SMS} on the ISIM and another SM was stored in EF_{SMS} on the USIM. The user shall be able to read short messages stored on the USIM. At the time the SMS is read by the user, the status of a received SMS, shall be changed to "1" (SMS read).

- TS 23.038 [3], clause 4.
- TS 23.040 [13];
- TS 31.102 [4], subclauses 4.2.25 and 4.2.28,
- TS 31.103 [32], subclauses 4.2.12 and 4.2.13.

8.2.5.3 Test purpose

- 1) To verify that the Terminal correctly reads the SMS on the USIM if the USIM and ISIM are both present.
- 2) To verify that the Terminal changes the status of a read SMS to "1" (SMS read) of the message read from the USIM.

8.2.5.4 Method of test

8.2.5.4.1 Initial conditions

The E-UTRAN/EPC ISIM-UICC is used with the following exception:

EF_{UST} (USIM Service Table)

As defined in in clause 4.5.2 with the expection that services n°10 (Short Message Storage) and n°11 (SMS Status Report) are available.

EF_{SMSS} (SMS Status) on the USIM and on the ISIM

Last used TP-MR not set. Logically:

Memory capacity available (flag unset b1="1").

Byte:	B1	B2
Hex:	FF	FF

EF_{SMS} (Short Message Service) on the USIM

Logically: Status byte set to SMS to be read.

A chosen test is written in the text body of the EF_{SMS}. This content shall be different from the

content stored in EF_{SMS} in the ISIM.

Record 1:

Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex	03	XX	XX	XX		XX								
NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]														
	which represents the stored SMS.													

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]

which represents the stored SMS.

At least 9 records.

Logically: Status byte set to empty

no text is written (Remainder Bytes set to "FF").

Record:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Hex	00	FF	FF	FF	 FF								

EF_{SMS} (Short Message Service) on the ISIM

Logically: Status byte set to SMS to be read.

A chosen test is written in the text body of the EF_{SMS} . This content shall be different from the

content stored in EF_{SMS} in the USIM.

Record 1:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex:	03	уу	уу	уу	Yy	уу	уу	уу	уу	уу	уу	уу		уу
NOTE:	"yy" sl	nall be tl	he appr	opriate [·]	text usir	ng the S	MS defa	ault 7-bi	t coded	alphab	et as de	fined in	TS 23.0	38 [3]
	which represents the stored SMS.													

"yy" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3] NOTE: which represents the stored SMS.

At least 9 records.

Logically: Status byte set to empty

no text is written (Remainder Bytes set to "FF").

Record:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Hex:	00	FF	FF	FF	 FF								

EF_{SMS} on the USIM and EF_{SMS} on the ISIM shall not share the same memory.

EF_{SMSS} on the USIM and EF_{SMSS} on the ISIM shall not share the same memory.

User Equipment:

The User Equipment is connected to the E-UTRAN/EPC ISIM-UICC.

8.2.5.4.2 Procedure

- a) The UE is switched on.
- b) The user shall read the SMS stored on the USIM.
 - 3) After step b) the EFSMS and EFSMSS on the ISIM shall remain unchanged.
- c) The UE is switched off

8.2.5.5 Acceptance criteria

- 1) After b) the correct text of the SMS on the USIM shall be read and be displayed to the user.
- 2) After step b) the EF_{SMS} record 1 of the USIM shall contains the following values:

Logically: Status byte set to SMS read.

The entire content of the SMS shall be unchanged.

Record 1:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex:	01	XX	XX	XX		XX								
NOTE:	NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]													
	which represents the stored SMS.													

8.2.6 Correct reading of a SM on the ISIM if USIM and ISIM are present

8.2.6.1 Definition and applicability

A SM which is stored but not yet read, is indicated as Status "3" (SMS to be read) on EF_{SMS} . The Terminal may indicate the user this status. After the SMS is read by the user, the status of the SMS shall be changed to "1" (SMS read). This applies to short messages stored on the USIM and to short messages stored on the ISIM.

8.2.6.2 Conformance requirement

A received SM was stored in EF_{SMS} on the ISIM and another SM was stored in EF_{SMS} on the USIM. The user shall be able to read short messages stored on the ISIM. At the time the SMS is read by the user, the status of a received SMS, shall be changed to "1" (SMS read).

- TS 23.038 [3], clause 4.

- TS 23.040 [13];
- TS 31.102 [4], subclauses 4.2.25 and 4.2.28,
- TS 31.103 [32], subclauses 4.2.12 and 4.2.13.

8.2.6.3 Test purpose

- 1) To verify that the Terminal correctly reads the SMS on the ISIM if the USIM and ISIM are both present.
- 2) To verify that the Terminal changes the status of a read SMS to "1" (SMS read) of the message read from the ISIM.

8.2.6.4 Method of test

8.2.6.4.1 Initial conditions

The E-UTRAN/EPC ISIM-UICC is used with the following exception:

EF_{UST} (USIM Service Table)

As defined in in clause 4.5.2 with the expection that services $n^{\circ}10$ (Short Message Storage) and $n^{\circ}11$ (SMS Status Report) are available.

EF_{SMSS} (SMS Status) on the USIM and on the ISIM

Logically: Last used TP-MR not set.

Memory capacity available (flag unset b1="1").

Byte:	B1	B2
Hex:	FF	FF

EF_{SMS} (Short Message Service) on the USIM

Logically: Status byte set to SMS to be read.

A chosen test is written in the text body of the EF_{SMS} . This content shall be different from the

content stored in EF_{SMS} in the ISIM.

Record 1:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex	03	XX	XX	XX		XX								
NOTE:	NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]													
	which represents the stored SMS.													

NOTE: "xx" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3] which represents the stored SMS.

At least 9 records.

Logically: Status byte set to empty

no text is written (Remainder Bytes set to "FF").

Record:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Hex	00	FF	FF	FF	 FF								

EF_{SMS} (Short Message Service) on the ISIM

Logically: Status byte set to SMS to be read.

A chosen test is written in the text body of the EF_{SMS} . This content shall be different from the content stored in EF_{SMS} in the USIM.

Record 1:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex:	03	уу	уу	уу	Yy	уу	уу	уу	уу	уу	уу	уу		уу
NOTE:	NOTE: "yy" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]													
	which represents the stored SMS.													

NOTE: "yy" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3] which represents the stored SMS.

At least 9 records.

Logically: Status byte set to empty

no text is written (Remainder Bytes set to "FF").

Record:

Byte:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Hex:	00	FF	FF	FF	 FF								

 $\mathsf{EF}_{\mathsf{SMS}}$ on the USIM and $\mathsf{EF}_{\mathsf{SMS}}$ on the ISIM shall not share the same memory.

EF_{SMSS} on the USIM and EF_{SMSS} on the ISIM shall not share the same memory.

User Equipment:

The User Equipment is connected to the E-UTRAN/EPC ISIM-UICC.

8.2.6.4.2 Procedure

- a) The UE is switched on.
- b) The user shall read the SMS stored on the USIM.
- c) The UE is switched off

8.2.6.5 Acceptance criteria

- 1) After b) the correct text of the SMS on the ISIM shall be read and be displayed to the user.
- 2) After step b) the EF_{SMS} record 1 of the ISIM shall contains the following values:

Logically: Status byte set to SMS read.

The entire content of the SMS shall be unchanged.

Record 1:

Byte:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12		B176
Hex:	01	уу	уу	уу		Yy								
NOTE: "yy" shall be the appropriate text using the SMS default 7-bit coded alphabet as defined in TS 23.038 [3]														
	which represents the stored SMS.													

3) After step b) the EF_{SMS} and EF_{SMSS} on the USIM shall remain unchanged.

8.3 MMS related tests

8.3.1 UE recognising the priority order of MMS Issuer Connectivity Parameters

8.3.1.1 Definition and applicability

An MMS User Agent shall use the MMS related information stored in the USIM, if present, unless otherwise specified by the user. Some of these sets of MMS connectivity parameters are preset by the issuer of the USIM with the first supported set being the default. This information is used to connect to the network for purpose of accessing the MMS Relay/Server.

The MMS connectivity information on the USIM includes preferences for the selection of Interface to Core Network and Bearer parameters. If these are stored on the USIM the MMS-capable UE shall automatically select the Interface to Core Network and Bearer parameters based on their order of precedence defined on the USIM unless otherwise specified by the user.

MMS user preferences information, which is stored on the USIM, shall be used by an MMS User Agent for user assistance in preparation of terminal-originated MMs (e.g. default values for parameters that are often used).

8.3.1.2 Conformance requirement

The Terminal's MMS User Agent shall use the MMS connectivity parameters stored first in the supported parameter sets of EF_{MMSICP} as default parameters to connect to the network for MMS purposes (i.e. sending an User generated MM).

- TS 31.102 [4], subclauses 4.2.69 and 5.3.30;
- TS 23.140 [23], subclause 7.1.14 and Annex F.

MMS user preferences information, which is stored on the USIM, shall be used by an MMS User Agent for user assistance in preparation of terminal-originated MMs.

- TS 31.102 [4], subclauses 4.2.70 and 5.3.31;
- TS 23.140 [23], subclause 7.1.14 and Annex F.

8.3.1.3 Test purpose

- 1) To verify that the Terminal's MMS User Agent uses the MMS connectivity parameter stored on the USIM to connect to the network for MMS purposes.
- 2) To verify that the Terminal's MMS User Agent uses the first stored set of supported parameters in EF_{MMSICP} as default.
- 3) To verify that the Terminal's MMS User Agent uses the MMS user preference information stored on the USIM for user assistance in preparation of terminal-originated MMs.

8.3.1.4 Method of test

8.3.1.4.1 Initial conditions

Four MMS Relays/Servers are available:

MMS Relay/Server 1:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998625"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

MMS Relay/Server 2:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998626"
Type of address: "E164"

Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2C_OTS2"
Authentication pw: "B2C_password2"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

MMS Relay/Server 3:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator1.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"B2B_OTS1"

"B2B password1"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

MMS Relay/Server 4:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator1.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"B2C_password2"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

The default UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service no. 33 (Packed Switched Domain) shall be set to '1' Service no. 52 Multimedia Messaging Service available

Service no. 55 MMS User Connectivity Parameters not available

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6
 B7

 Binary
 xx1x xx11
 x11x xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xxx1
 xxxx xxxx
 x0xx 1xxx

EF_{MMSN}

Logically:

MMS Status: Free space MMS Implementation : "00"

MMS Notification: "FF FF ... FF" (251 bytes)

Extension file record number: "FF"

Coding: B1 B2 B3 B4 B5 ... B254 B255

00 00 00 FF FF FF FF

EF_{MMSICP}

Logically:

MMS Connectivity Parameters

MMS Implementation

MMS Implementation Information: "WAP"

MMS Relay/Server

MMS Relay/Server Address "http://mms-operator1.com"

1st Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998625"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

2nd Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998626"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2C_OTS2"
Authentication pw: "B2C_password2"

3rd Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator1.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"

SDU-Error-Ratio:

"1*10-6"

```
"Interactive class"
          Traffic-class:
          Maximum bit rate for downlink:
                                                "8 kbps"
                                                "PAP"
          Authentication type:
                                                "B2B_OTS1"
          Authentication id:
                                                "B2B_password1"
          Authentication pw:
      4<sup>th</sup> Interface to Core Network and Bearer
                                                "GSM-GPRS"
          Bearer:
          Address:
                                                "wap.B2C-operator1.com"
          Type of address:
                                                "APN"
          Call type:
                                                "ANALOG_MODEM"
          Delivery of erroneous SDU:
                                                "No"
                                                "1*10-5"
          Residual Bit Error Rate:
                                                "1*10-6"
          SDU-Error-Ratio:
          Traffic-class:
                                                "Interactive class"
          Maximum bit rate for downlink:
                                                "8 kbps'
                                                "PAP"
          Authentication type:
                                                "B2C OTS2"
          Authentication id:
          Authentication pw:
                                                "B2C_password2"
      Gateway:
                                                "170.187.51.3"
          Address:
          Type of address:
                                                "Ipv4"
                                                "9201"
          Port:
                                                "CO-WSP"
          Service:
                                                "HTTP BASIC"
          Authentication type:
          Authentication id:
                                                "gateway_user1"
          Authentication pw:
                                                "gateway_password1"
Coding:
          AB
                 82
                              47
                                     80
                                            01
                                                   01
                                                          81
                                                                18
                                                                       68
                                                                              74
                                                                                     74
          70
                 ЗА
                       2F
                              2F
                                     6D
                                            6D
                                                   73
                                                          2E
                                                                6F
                                                                       70
                                                                              65
                                                                                     72
          61
                 74
                       6F
                              72
                                     31
                                            2E
                                                   63
                                                          6F
                                                                6D
                                                                       82
                                                                              2F
                                                                                     10
          AΑ
                 80
                       2B
                              34
                                     39
                                            36
                                                   39
                                                          39
                                                                38
                                                                       36
                                                                              32
                                                                                     35
                              25
                                     C5
                                                   90
                                                          0C
                                                                9A
                                                                       0D
                                                                              42
                                                                                     32
          00
                 09
                       87
                                            0A
          42
                 11
                       4F
                              54
                                     53
                                            31
                                                   00
                                                          0E
                                                                42
                                                                       32
                                                                              42
                                                                                     11
          70
                 61
                        73
                              73
                                     77
                                            6F
                                                   72
                                                          64
                                                                31
                                                                       00
                                                                              82
                                                                                     2F
          10
                 AA
                       80
                              2B
                                     34
                                            39
                                                   36
                                                          39
                                                                39
                                                                       38
                                                                              36
                                                                                     32
                       09
                                     25
                                                                0C
                                                                                     42
          36
                 00
                                            C5
                                                   0A
                                                          90
                                                                       9A
                                                                              0D
                              87
          32
                 43
                        11
                              4F
                                     54
                                            53
                                                   32
                                                          00
                                                                0E
                                                                       42
                                                                              32
                                                                                     43
          11
                 70
                       61
                              73
                                     73
                                            77
                                                   6F
                                                          72
                                                                64
                                                                       32
                                                                              00
                                                                                     82
                        AΒ
                                     03
                                            77
                                                          70
                                                                0D
                                                                       42
                                                                                     42
          43
                 10
                              80
                                                   61
                                                                              32
                                                   74
          2D
                 6F
                       70
                              65
                                     72
                                            61
                                                          6F
                                                                72
                                                                       31
                                                                              03
                                                                                     63
          6F
                 6D
                       00
                              09
                                     89
                                            0A
                                                   90
                                                          31
                                                                03
                                                                       37
                                                                              70
                                                                                     38
                                     80
                 33
                       60
                              36
                                            0C
                                                   9A
                                                          0D
                                                                42
                                                                       32
          06
                                                                              42
                                                                                     11
          4F
                 54
                       53
                              31
                                     00
                                            0E
                                                   42
                                                          32
                                                                42
                                                                       11
                                                                              70
                                                                                     61
          73
                 73
                        77
                              6F
                                     72
                                            64
                                                   31
                                                          00
                                                                82
                                                                       43
                                                                              10
                                                                                     AB
          80
                 03
                       77
                              61
                                     70
                                            0D
                                                   42
                                                          32
                                                                43
                                                                       2D
                                                                              6F
                                                                                     70
          65
                 72
                       61
                              74
                                     6F
                                            72
                                                   31
                                                          03
                                                                63
                                                                       6F
                                                                              6D
                                                                                     00
          09
                 89
                       0A
                              90
                                     31
                                            03
                                                   37
                                                          70
                                                                38
                                                                       06
                                                                              33
                                                                                     60
                 80
                       0C
                                     0D
                                                   32
                                                          43
                                                                       4F
                                                                              54
                                                                                     53
          36
                              9A
                                            42
                                                                11
          32
                 00
                       0E
                              42
                                     32
                                            43
                                                   11
                                                          70
                                                                61
                                                                       73
                                                                              73
                                                                                     77
          6F
                 72
                       64
                              32
                                     00
                                            83
                                                   43
                                                          20
                                                                       37
                                                                              30
                                                                                     2E
                                                                31
                       37
                                                   2E
                                                                       21
          31
                 38
                              2E
                                     35
                                            31
                                                          33
                                                                00
                                                                              85
                                                                                     23
          39
                 32
                       30
                              31
                                     00
                                            24
                                                   CB
                                                          19
                                                                9C
                                                                       1A
                                                                              67
                                                                                     61
          74
                                                                                     00
                 65
                       77
                              61
                                     79
                                            11
                                                   75
                                                          73
                                                                65
                                                                       72
                                                                              31
          1B
                 67
                       61
                              74
                                     65
                                            77
                                                   61
                                                          79
                                                                 11
                                                                       70
                                                                              61
                                                                                     73
          73
                       6F
                              72
                                     64
                                                   00
                 77
                                            31
```

EF_{MMSUP}

Logically:

```
MMS Implementation
      MMS implementation information:
                                            "WAP"
   MMS User Preference Profile Name:
                                            "Greeting cards"
   MMS User Information Preference Information
      Visibility:
                                        "hide"
      Delivery report:
                                            "yes"
                                            "yes"
      Read-reply:
      Priority:
                                            "normal"
      Delivery-Time:
          Value (absolute):
                                            "1-Jan-2003, 12:00:00 AM GMT"
      Expiry:
                                            1104537600 seconds
          Value (relative):
Coding:
          80
                                     0E
                                            47
                                                  72
                                                                       74
                                                                             69
                                                                                    6E
                                                  73
                                                         82
                                                                                    06
          67
                20
                       63
                              61
                                     72
                                           64
                                                                19
                                                                       14
                                                                             80
          80
                 10
                       80
                              0F
                                     81
                                           07
                                                  07
                                                         80
                                                                05
                                                                       00
                                                                             3E
                                                                                    12
          2F
                80
                                                         D5
```

The UICC is installed into the Terminal and the user has indicated the data stored in EF_{MMSICP} as default.

8.3.1.4.2 Procedure

- a) The Terminal is powered on and the PIN shall be entered.
- b) When the Terminal is in idle mode the user shall generate an MM using the MMS User Agent on the Terminal with the default MMS connectivity settings provided by the card issuer and the MMS user preference information stored in the card and send it to "+0123456789".

8.3.1.5 Acceptance criteria

- 1) After step b) the Terminal shall have read the set of supported MMS connectivity parameters stored first in EF_{MMSICP}.
- 2) After step b) the Terminal shall have sent the MM to "+0123456789" using the MMS connectivity parameters stored first in the supported parameter sets in EF_{MMSICP}.
- 3) After step b) the Terminal shall have sent the MM to "+0123456789" using the MMS user preference information stored in EF_{MMSUP}.

8.3.2 UE recognising the priority order of MMS User Connectivity Parameters

8.3.2.1 Definition and applicability

An MMS User Agent shall use the MMS related information stored in the USIM, if present, unless otherwise specified by the user. The MMS connectivity parameters determined by the user, with the first supported set being the default, shall be used to connect to the network for purpose of accessing the MMS Relay/Server.

The MMS connectivity information on the USIM includes preferences for the selection of Interface to Core Network and Bearer parameters. If these are stored on the USIM the MMS-capable UE shall automatically select the Interface to Core Network and Bearer parameters based on their order of precedence defined on the USIM unless otherwise specified by the user.

MMS user preferences information, which is stored on the USIM, shall be used by an MMS User Agent for user assistance in preparation of terminal-originated MMs (e.g. default values for parameters that are often used).

8.3.2.2 Conformance requirement

When using the MMS User Connectivity Parameters to connect to the network for MMS purposes (i.e. sending an User generated MM), the Terminal's MMS User Agent shall use the MMS User Connectivity Parameters with the highest priority (as defined by its position in EF_{MMSUCP}) unless otherwise specified by the user.

- TS 31.102 [4], subclauses 4.2.71 and 5.3.32;
- TS 23.140 [23], subclause 7.1.14 and Annex F.

MMS user preferences information, which is stored on the USIM, shall be used by an MMS User Agent for user assistance in preparation of terminal-originated MMs.

- TS 31.102 [4], subclauses 4.2.70 and 5.3.31;
- TS 23.140 [23], subclause 7.1.14 and Annex F.

8.3.2.3 Test purpose

- 1) To verify that the Terminal's MMS User Agent uses the MMS connectivity parameter stored on the USIM to connect to the network for MMS purposes.
- 2) To verify that when using the MMS User Connectivity Parameters to connect to the network for MMS purposes the Terminal's MMS User Agent uses the set of supported parameters in EF MMSUCP with the highest priority (as defined by its position in EF_{MMSUCP}).
- 3) To verify that the Terminal's MMS User Agent uses the MMS user preference information stored on the USIM for user assistance in preparation of terminal-originated MMs.

8.3.2.4 Method of test

8.3.2.4.1 Initial conditions

Four MMS Relays/Servers are available:

MMS Relay/Server 1:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator2.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251699"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"

Authentication id: "UDO_OTS1"
Authentication pw: "Udo_password1"

Gateway

Address: "170.187.51.4"

Type of address:

Port:

"9203"

Service:

"CO-WSP"

Authentication type:

"HTTP BASIC"

Authentication id:

"gateway_user7"

"gateway_password7"

MMS Relay/Server 2:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator2.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251700"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS2"
Authentication pw: "Udo_password2"

Gateway

Address: "170.187.51.4"

Type of address:

Port:

"9203"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9203"

"CO-WSP"

"HTTP BASIC"

"gateway_user7"

"gateway_password7"

MMS Relay/Server 3:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator2.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator2.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"PAP"

"UDO_OTS1"

"Udo_password1"

Gateway

Address: "170.187.51.4"

Type of address:

Port:

"9203"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9203"

"CO-WSP"

"HTTP BASIC"

"gateway_user7"

"gateway_password7"

MMS Relay/Server 4:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator2.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator2.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink: "8 kbps" Authentication type: "PAP"

Authentication id: "UDO_OTS2"
Authentication pw: "Udo_password2"

Gateway

Address: "170.187.51.4"

Type of address:

Port:

"9203"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9203"

"CO-WSP"

"HTTP BASIC"

"gateway_user7"

"gateway_password7"

The default UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service no. 33 (Packed Switched Domain) shall be set to '1' Service no. 52 Multimedia Messaging Service available Service no. 55 MMS User Connectivity Parameters available

 Coding:
 B1
 B2
 B3
 B4
 B5
 B6
 B7

 Binary
 xx1x xx11
 x11x xxxx
 xxxx 1x00
 xxxx x1xx
 xxxx xxxx
 xxxx xxxx
 x1xx 1xxx

EF_{MMSN}

Logically:

MMS Status: Free space MMS Implementation : "00"

MMS Notification: "FF FF ... FF" (251 bytes)

Extension file record number: "FF"

Coding: B1 B2 B3 B4 B5 ... B254 B255

00 00 00 FF FF FF

 $\mathsf{EF}_{\mathbf{MMSICP}}$

Logically: Empty
Coding: B1 B2 ... Bxx

FF FF FF

EF_{MMSUP}

Logically:

MMS Implementation

MMS implementation information: "WAP"

MMS User Preference Profile Name: "Greeting cards"

MMS User Information Preference Information
Visibility: "hide"
Delivery report: "yes"

Delivery report: "yes"
Read-reply: "yes"
Priority: "normal"

Delivery-Time:

Value (absolute): "1-Jan-2003, 12:00:00 AM GMT"

Expiry:

Value (relative): 1104537600 seconds

Coding: 0E 6E 3E

0F 2F D5 E8

EF_{MMSUCP}

Logically:

MMS Connectivity Parameters MMS Implementation

MMS Implementation Information: "WAP"

MMS Relay/Server

MMS Relay/Server Address "http://mms-operator2.com"

1st Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251699"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS1"
Authentication pw: "Udo_password1"

2nd Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251700"
Type of address: "E164"
Speed: "Autobauding"

Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS2"
Authentication pw: "Udo_password2"

3rd Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator2.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"B kbps"

"PAP"

"UDO_OTS1"

"Udo_password1"

4th Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator2.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"UDO_OTS2"

"Udo_password2"

Gateway:

Address: "170.187.51.4"

Type of address: "Ipv4"

Port: "9203"

Service: "CO-WSP"
Authentication type: "HTTP BASIC"
Authentication id: "gateway_user7"
Authentication pw: "gateway_password7"

Coding:	AB 70	82 3A	01 2F	47 2F	80 6D	01 6D	01 73	81 2E	18 6F	68 70	74 65	74 72
	61	74	6F	72	32	2E	63	6F	6D	82	2F	10
	AA	08	2B	34	39	35	32	35	31	36	39	39
	00	09	87	25	C5	0A	90	0C	9A	0D	55	44
	4F	11	4F	54	53	31	00	0E	55	64	6F	11
	70	61	73	73	77	6F	72	64	31	00	82	2F
	10	AA	80	2B	34	39	35	32	35	31	37	30
	30	00	09	87	25	C5	0A	90	0C	9A	0D	55
	44	4F	11	4F	54	53	32	00	0E	55	64	6F
	11	70	61	73	73	77 77	6F	72	64	32	00	82
	43	10	AB	08	03	77 64	61	70 CF	0D	42	32	42
	2D	6F	70	65	72	61	74	6F	72	32	03	63
	6F	6D	00	09	89	0A	90	31	03	37	70	38
	06	33	60	36	80	OC	9A	0D	55 CF	44	4F	11
	4F	54 72	53 77	31	00	0E	55	64	6F	11	70	61
	73	73	77 77	6F	72 70	64	31	00	82	43	10	AB
	08	03	77 61	61 74	70 65	0D	42	32	43	2D	6F	70
	65 09	72 89	61 0A	90	6F 31	72 03	32 37	03 70	63 38	6F 06	6D 33	00
	36	08	0C	90 9A	0D	55	44	4F	11	4F	54	60 53
	32	00	0E	55	64	6F	11	70	61	73	73	77
	6F	72	64	32	00	83	3B	20	31	37	30	2E
	31	38	37	2E	35	31	2E	34	00	21	85	23
	39	32	30	31	00	24	CB	19	9C	1A	67	61
	74	65	77	61	79	11	75	73	65	72	37	00
	1B	67	61	74	65	77	61	79	11	70	61	73
	73	77	6F	72	64	37	00	, 5	• •	, 0	01	. 0

The UICC is installed into the Terminal and the user has indicated the data stored in EF_{MMSUCP}as default.

8.3.2.4.2 Procedure

- a) The Terminal is powered on and the PIN shall be entered.
- b) When the Terminal is in idle mode the user shall generate an MM using the MMS User Agent on the Terminal with the default MMS User Connectivity Parameters and the MMS user preference information stored in the card and send it to "+0123456789".

8.3.2.5 Acceptance criteria

- 1) After step b) the Terminal shall have read the first supported set of MMS connectivity parameters stored in EF_{MMSUCP} .
- 2) After step b) the Terminal shall have sent the MM to "+0123456789" using the MMS User Connectivity Parameter set with the highest priority (as defined by its position in EF_{MMSUCP}), which can be used to access an available MMS Relay/Server.
- 3) After step b) the Terminal shall have sent the MM to "+0123456789" using the MMS user preference information stored in EF_{MMSUCP}.

8.3.3 UE recognising the priority order of MMS Issuer Connectivity Parameters over the MMS User Connectivity Parameters

8.3.3.1 Definition and applicability

An MMS User Agent shall use the MMS related information stored in the USIM, if present, unless otherwise specified by the user. This information comprises MMS connectivity information, MMS user preferences and MMS notifications.

MMS user preferences information, which is stored on the USIM, shall be used by an MMS User Agent for user assistance in preparation of terminal-originated MMs (e.g. default values for parameters that are often used).

8.3.3.2 Conformance requirement

MMS connectivity information, on the USIM includes a number of sets of MMS connectivity parameters. Some of these sets of MMS connectivity parameters are preset by the issuer of the USIM with the first set being the default. Such default preset MMS connectivity parameter set shall be selected unless otherwise specified by the user.

- TS 31.102 [4], subclauses 4.2.69, 4.7.71, 5.3.30 and 5.3.32;
- TS 23.140 [23], subclause 7.1.14 and Annex F

8.3.3.3 Test purpose

- 1) To verify that the Terminal's MMS User Agent uses the MMS connectivity parameter stored on the USIM to connect to the network for MMS purposes.
- 2) To verify that a MMS Issuer Connectivity Parameter set with lower priority (as defined by its position in EF_{MMSICP}) takes precedence over a MMS User Connectivity Parameter set with a higher priority.

8.3.3.4 Method of test

8.3.3.4.1 Initial conditions

Four MMS Relays/Servers are available:

MMS Relay/Server 1:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator3.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251699"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS1"
Authentication pw: "Udo_password1"

Gateway

Address: "170.187.51.5"

Type of address:

Port:

"9201"

Service:

"CO-WSP"

Authentication type:

Authentication id:

Authentication pw:

"gateway_user9"

"gateway_password9"

MMS Relay/Server 2:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator3.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2P-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink: "8 kbps" Authentication type: "PAP"

Authentication id: "UDO_OTS1"
Authentication pw: "Udo_password1"

Gateway

Address: "170.187.51.5"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user9"

"gateway_password9"

MMS Relay/Server 3:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator3.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998626"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2C_OTS2"
Authentication pw: "B2C_password2"

Gateway

Address: "170.187.51.5"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user9"

"gateway_password9"

MMS Relay/Server 4:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator3.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"8 kbps"

"PAP"

"B2C_OTS2"

"B2C_password2"

Gateway

Address: "170.187.51.5"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user9"

"gateway_password9"

The default UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service no. 33 (Packed Switched Domain) shall be set to '1' Service no. 52 Multimedia Messaging Service available Service no. 55 MMS User Connectivity Parameters available

Coding: B1 B2 **B**3 B4 **B**5 B6 B7 Binary xx1x xx11 x11x xxxx xxxx 1x00 xxxx x1xx xxxx xxx1 XXXX XXXX x1xx 1xxx

EF_{MMSN}

Logically:

MMS Status: Free space MMS Implementation: "00"

MMS Notification: "FF FF ... FF" (251 bytes)

Extension file record number: "FF"

Coding: B1 B2 B3 B4 B5 ... B254 B255

00 00 00 FF FF FF FF

EF_{MMSICP}

Logically:

MMS Connectivity Parameters
MMS Implementation

MMS Implementation Information: "WAP"

MMS Relay/Server

MMS Relay/Server Address "http://mms-operator3.com"

1st Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998625"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

2nd Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+496998626"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2C_OTS2"
Authentication pw: "B2C_password2"

3rd Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink: "8 kbps"
Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

4th Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"8 kbps"

"PAP"

"B2C_OTS2"

"B2C_password2"

Gateway:

Address: "170.187.51.5"

Type of address:

Port:

Service:

Authentication type:

Authentication pw:

"Ipv4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user9"

"gateway_password9"

Coding:	AB	82	01	47	80	01	01	81	18	68	74	74
	70	3A	2F	2F	6D	6D	73	2E	6F	70	65	72
	61	74	6F	72	33	2E	63	6F	6D	82	2F	10
	AA	80	2B	34	39	36	39	39	38	36	32	35
	00	09	87	25	C5	0Α	90	0C	9A	0D	42	32
	42	11	4F	54	53	31	00	0E	42	32	42	11
	70	61	73	73	77	6F	72	64	31	00	82	2F
	10	AA	80	2B	34	39	36	39	39	38	36	32
	36	00	09	87	25	C5	0A	90	0C	9A	0D	42
	32	43	11	4F	54	53	32	00	0E	42	32	43
	11	70	61	73	73	77	6F	72	64	32	00	82
	43	10	AB	80	03	77	61	70	0D	42	32	42
	2D	6F	70	65	72	61	74	6F	72	33	03	63
	6F	6D	00	09	89	0A	90	31	03	37	70	38
	06	33	60	36	80	0C	9A	0D	42	32	42	11
	4F	54	53	31	00	0E	42	32	42	11	70	61
	73	73	77	6F	72	64	31	00	82	43	10	AB
	80	03	77	61	70	0D	42	32	43	2D	6F	70
	65	72	61	74	6F	72	33	03	63	6F	6D	00
	09	89	0A	90	31	03	37	70	38	06	33	60
	36	80	0C	9A	0D	42	32	43	11	4F	54	53
	32	00	0E	42	32	43	11	70	61	73	73	77
	6F	72	64	32	00	83	3B	20	31	37	30	2E
	31	38	37	2E	35	31	2E	35	00	21	85	23
	39	32	30	31	00	24	CB	19	9C	1A	67	61
	74	65	77	61	79	11	75	73	65	72	39	00
	1B	67	61	74	65	77	61	79	11	70	61	73
	73	77	6F	72	64	39	00					

EF_{MMSUP}

Logically:

MMS Implementation

MMS implementation information: "WAP"

MMS User Preference Profile Name: "Greeting cards"

MMS User Information Preference Information
Visibility: "hide"
Delivery report: "yes"
Read-reply: "yes"
Priority: "normal"

Delivery-Time:

Value (absolute): "1-Jan-2003, 12:00:00 AM GMT"

Expiry:

Value (relative): 1104537600 seconds

Coding: 80 0E 6E 0F 3E 2F D5 E8

EF_{MMSUCP}

Logically:

MMS Connectivity Parameters
MMS Implementation

MMS Implementation Information: "WAP"

MMS Relay/Server

MMS Relay/Server Address "http://mms-operator3.com"

1st Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251699"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS1"
Authentication pw: "Udo_password1"

2nd Interface to Core Network and Bearer

Bearer: "GSM-CSD"
Address: "+495251700"
Type of address: "E164"
Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "UDO_OTS2"
Authentication pw: "Udo_password2"

3rd Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2P-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink:

Authentication type:

Authentication id:

Authentication pw:

"8 kbps"

"PAP"

"UDO_OTS1"

"Udo_password1"

4th Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2C-operator3.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No"
Residual Bit Error Rate: "1*10⁻⁵"
SDU-Error-Ratio: "1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink: "8 kbps"
Authentication type: "PAP"
Authentication id: "UDO_OTS2"
Authentication pw: "Udo_password2"

Gateway:

Address: "170.187.51.5" Type of address: "Ipv4"

Port: "9201"
Service: "CO-WSP"
Authentication type: "HTTP BASIC"
Authentication id: "gateway_user9"
Authentication pw: "gateway_password9"

Coding:	AB 70 61	82 3A 74	01 2F 6F	47 2F 72	80 6D 33	01 6D 2E	01 73 63	81 2D 6F	18 6F 6D	68 70 82	74 65 2F	74 72 10
	AA	08	2B	34	39	35	32	35	31	36	39	39
	00	09	87	25	C5	0A	90	0C	9A	0D	55	44
	4F	11	4F	54	53	31	00	0E	55	64	6F	11
	70	61	73	73	77	6F	72	64	31	00	82	2F
	10	AA	80	2B	34	39	35	32	35	31	37	30
	30	00	09	87	25	C5	0A	90	0C	9A	0D	55
	44	4F	11	4F	54	53	32	00	0E	55	64	6F
	11	70	61	73	73	77	6F	72	64	32	00	82
	43	10	AB	80	03	77	61	70	0D	42	32	50
	2D	6F	70	65	72	61	74	6F	72	33	03	63
	6F	6D	00	09	89	0A	90	31	03	37	70	38
	06	33	60	36	80	0C	9A	0D	55	44	4F	11
	4F	54	53	31	00	0E	55	64	6F	11	70	61
	73	73	77	6F	72	64	31	00	82	43	10	AB
	80	03	77	61	70	0D	42	32	43	2D	6F	70
	65	72	61	74	6F	72	33	03	63	6F	6D	00
	09	89	0A	90	31	03	37	70	38	06	33	60
	36	08	0C	9A	0D	55	44	4F	11	4F	54	53
	32	00	0E	55	64	6F	11	70	61	73	73	77
	6F	72	64	32	00	83	3C	20	31	37	30	2E
	31	38	37	2E	35	31	2E	35	00	21	85	23
	39	32	30	31	00	24	CB	19	9C	1A	67	61
	74 4D	65	77 64	61	79	11	75 64	73	65	72 70	39	00
	1B	67	61 CF	74 72	65	77	61	79	11	70	61	73
	73	77	6F	72	64	39	00					

The UICC is installed into the Terminal and the user hasn't specified a default MMS connectivity parameter set.

8.3.3.4.2 Procedure

- a) The Terminal is powered on and the PIN shall be entered.
- b) When the Terminal is in idle mode the user shall generate an MM using the MMS User Agent on the Terminal with the default MMS connectivity parameter set and send it to "+0123456789". If no MMS Relay/Server is available for this parameter set, the next MMS connectivity parameter set offered by the MMS User Agent shall be used to send the MM.

8.3.3.5 Acceptance criteria

After step b) the Terminal shall have sent the MM to "+0123456789" using the first supported MMS connectivity parameter set, which can be used to access an available MMS Relay/Server and is stored in EF_{MMSICP}.

8.3.4 Usage of MMS notification

8.3.4.1 Definition and applicability

An MMS User Agent shall use the MMS related information stored in the USIM, if present, unless otherwise specified by the user. This information comprises MMS connectivity information, MMS user preferences and MMS notifications. MMS notifications should be stored on the USIM together with an associated status by a MMS User Agent according to TS 23.140 [23].

8.3.4.2 Conformance requirement

A Terminal supporting MMS notification storage on the USIM shall store MMS notifications together with an associated status on the USIM.

- TS 31.102 [4], subclauses 4.2.67 and 5.3.29;
- TS 23.140 [23], subclauses 7.1.12, 7.1.14, 8.1.4 and Annex F.

8.3.4.3 Test purpose

To verify that the Terminal stores and updates MMS notifications with the associated status on the USIM correctly.

8.3.4.4 Method of test

8.3.4.4.1 Initial conditions

Two MMS Relays/Servers are available:

MMS Relay/Server 1:

MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-CSD" Address: "+496998625"

Type of address: "E164"

Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"Ipv4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

MMS Relay/Server 2:

7) MMS Connectivity Parameters

MMS implementation information: "WAP"

MMS Relay/Server

MMS Relay/Server information: "http://mms-operator1.com"

Interface to Core Network and Bearer

Bearer: "GSM-GPRS"

Address: "wap.B2B-operator1.com"

Type of address: "APN"

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU:

Residual Bit Error Rate:

"1*10⁻⁵"

SDU-Error-Ratio:

"1*10⁻⁶"

Traffic-class: "Interactive class"

Maximum bit rate for downlink: "8 kbps"
Authentication type: "PAP"
Authentication id: "B2B_OTS1"
Authentication pw: "B2B_password1"

Gateway

Address: "170.187.51.3"

Type of address:

Port:

"9201"

Service:

Authentication type:

Authentication id:

Authentication pw:

"TPV4"

"9201"

"CO-WSP"

"HTTP BASIC"

"gateway_user1"

"gateway_password1"

The default UICC is used with the following exceptions:

EF_{UST} (USIM Service Table)

Logically: Local Phone Book available

User controlled PLMN selector available

Fixed dialling numbers available Barred dialling numbers available The GSM Access available

The Group Identifier level 1 and level 2 not available

SMS available SMS Status available

Service no. 33 (Packed Switched Domain) shall be set to '1' Service no. 52 Multimedia Messaging Service available

Service no. 53 Extension 8 available

Service no. 55 MMS User Connectivity Parameters not available

Coding: B1 B2 B3 B4 B5 B6 B7

Binary xx1x xx11 x11x xxxx xxxx 1x00 xxxx x1xx xxxx xxx1 xxxx xxxx x0x1 1xxx

EF_{MMSN}

Logically:

MMS Status: Free space MMS Implementation : "00"

MMS Notification: "FF FF ... FF" (251 bytes)

Extension file record number: "FF"

Coding: B1 B2 B3 B4 B5 ... B254 B255

00 00 00 FF FF FF FF

EF_{MMSUP}

Logically:

3E

12

MMS Implementation

"WAP" MMS implementation information:

"Greeting cards" MMS User Preference Profile Name:

MMS User Information Preference Information Visibility: "hide" "yes" Delivery report: "yes" Read-reply: Priority: "normal"

Delivery-Time:

Value (absolute): "1-Jan-2003, 12:00:00 AM GMT"

Expiry:

Value (relative): 1104537600 seconds

80 47 72 6E Coding: 01 0E 65 74 69 73 82 06 67 20 63 61 72 64 19 14 80

> 80 10 80 0F 81 07 07 80 05 00 2F 80 80 06 81 04 41 D5 E8 00

EF_{MMSICP}

Logically:

MMS Connectivity Parameters

MMS Implementation

MMS Implementation Information: "WAP"

MMS Relay/Server

MMS Relay/Server Address "http://mms-operator1.com"

1st Interface to Core Network and Bearer

Bearer: "GSM-CSD" "+496998625" Address: "E164"

Type of address:

Speed: "Autobauding"

Call type: "ANALOG_MODEM"

Authentication type: "PAP" Authentication id: "B2B OTS1" Authentication pw: "B2B_password1"

2nd Interface to Core Network and Bearer

Bearer: "GSM-CSD" Address: "+496998626" Type of address: "E164"

Speed: "Autobauding"

"ANALOG_MODEM" Call type: "PAP" Authentication type:

"B2C_OTS2" Authentication id: "B2C_password2" Authentication pw:

 3^{rd} Interface to Core Network and Bearer

"GSM-GPRS" Bearer:

Address: "wap.B2B-operator1.com"

"APN" Type of address:

Call type: "ANALOG_MODEM"

Delivery of erroneous SDU: "No" "1*10-5" Residual Bit Error Rate:

SDU-Error-Ratio:

"1*10-6"

```
Traffic-class:
                                                "Interactive class"
                                                "8 kbps"
          Maximum bit rate for downlink:
                                                "PAP"
          Authentication type:
                                                "B2B_OTS1"
          Authentication id:
          Authentication pw:
                                                "B2B_password1"
      4<sup>th</sup> Interface to Core Network and Bearer
          Bearer:
                                                "GSM-GPRS"
          Address:
                                                "wap.B2C-operator1.com"
          Type of address:
                                                "APN"
          Call type:
                                                "ANALOG_MODEM"
          Delivery of erroneous SDU:
                                                "No"
                                                "1*10-5"
          Residual Bit Error Rate:
                                                "1*10-6"
          SDU-Error-Ratio:
          Traffic-class:
                                                "Interactive class"
                                                "8 kbps"
          Maximum bit rate for downlink:
          Authentication type:
                                                "PAP"
                                                "B2C OTS2"
          Authentication id:
          Authentication pw:
                                                "B2C_password2"
      Gateway:
                                                "170.187.51.3"
          Address:
          Type of address:
                                                "Ipv4"
                                                "9201"
          Port:
                                                "CO-WSP"
          Service:
          Authentication type:
                                                "HTTP BASIC"
          Authentication id:
                                                "gateway_user1"
          Authentication pw:
                                                "gateway_password1"
Coding:
         AΒ
                82
                              47
                                     80
                                            01
                                                   01
                                                          81
                                                                18
                                                                       68
                                                                              74
                                                                                     74
          70
                ЗА
                       2F
                              2F
                                     6D
                                            6D
                                                   73
                                                          2E
                                                                6F
                                                                       70
                                                                              65
                                                                                     72
                74
                       6F
                              72
                                     31
                                            2E
                                                   63
                                                          6F
                                                                6D
                                                                       82
                                                                              2F
                                                                                     10
          61
                80
                       2B
                                     39
                                            36
                                                   39
                                                          39
                                                                       36
                                                                              32
                                                                                     35
          AA
                              34
                                                                38
                              25
                                                   90
                                                                       0D
                                                                                     32
          00
                09
                       87
                                     C5
                                            0A
                                                          0C
                                                                9A
                                                                              42
          42
                11
                       4F
                              54
                                     53
                                            31
                                                   00
                                                          0E
                                                                42
                                                                       32
                                                                              42
                                                                                     11
          70
                61
                       73
                              73
                                     77
                                            6F
                                                   72
                                                          64
                                                                31
                                                                       00
                                                                              82
                                                                                     2F
          10
                AA
                       80
                              2B
                                     34
                                            39
                                                   36
                                                          39
                                                                39
                                                                       38
                                                                              36
                                                                                     32
                                     25
                                                                                     42
                00
                       09
                                            C5
                                                   0A
                                                          90
                                                                0C
                                                                       9A
                                                                              0D
          36
                              87
          32
                43
                        11
                              4F
                                     54
                                            53
                                                   32
                                                          00
                                                                0E
                                                                       42
                                                                              32
                                                                                     43
          11
                70
                       61
                              73
                                     73
                                            77
                                                   6F
                                                          72
                                                                64
                                                                       32
                                                                              00
                                                                                     82
                        AΒ
                                                          70
                                                                0D
                                                                       42
                                                                                     42
          43
                10
                              80
                                     03
                                            77
                                                   61
                                                                              32
          2D
                6F
                       70
                              65
                                     72
                                            61
                                                   74
                                                          6F
                                                                72
                                                                       31
                                                                              03
                                                                                     63
          6F
                6D
                       00
                              09
                                     89
                                            0A
                                                   90
                                                          31
                                                                03
                                                                       37
                                                                              70
                                                                                     38
                33
                       60
                              36
                                     80
                                            0C
                                                          0D
                                                                42
                                                                       32
          06
                                                   9A
                                                                              42
                                                                                     11
          4F
                54
                       53
                              31
                                     00
                                            0E
                                                   42
                                                          32
                                                                42
                                                                       11
                                                                              70
                                                                                     61
          73
                73
                        77
                              6F
                                     72
                                                   31
                                                          00
                                                                82
                                                                       43
                                                                              10
                                                                                     AB
                                            64
          80
                03
                       77
                              61
                                     70
                                            0D
                                                   42
                                                          32
                                                                43
                                                                       2D
                                                                              6F
                                                                                     70
                72
                       61
                              74
                                     6F
                                            72
                                                   31
                                                          03
                                                                63
                                                                              6D
                                                                                     00
          65
                                                                       6F
          09
                89
                       0A
                              90
                                     31
                                            03
                                                   37
                                                          70
                                                                38
                                                                       06
                                                                              33
                                                                                     60
                80
                       0C
                                     0D
                                                          43
                                                                       4F
                                                                              54
          36
                              9A
                                            42
                                                   32
                                                                11
                                                                                     53
          32
                00
                       0E
                              42
                                     32
                                            43
                                                          70
                                                                61
                                                                       73
                                                                              73
                                                   11
                                                                                     77
          6F
                72
                       64
                              32
                                     00
                                            83
                                                   3C
                                                          20
                                                                       37
                                                                              30
                                                                                     2E
                                                                31
                       37
                                                   2E
          31
                38
                              2E
                                     35
                                            31
                                                          33
                                                                00
                                                                       21
                                                                              85
                                                                                     23
          39
                32
                       30
                                     00
                                            24
                                                   CB
                                                          19
                                                                9C
                                                                       1A
                                                                              67
                                                                                     61
                              31
                                                                                     00
          74
                65
                       77
                              61
                                     79
                                            11
                                                   75
                                                          73
                                                                65
                                                                       72
                                                                              31
          1B
                67
                       61
                              74
                                     65
                                            77
                                                   61
                                                          79
                                                                11
                                                                       70
                                                                              61
                                                                                     73
          73
                       6F
                              72
                                     64
                                                   00
                77
                                            31
```

EF_{EXT8}

Logically:

At least 10 records.

Record 1 to 10: Free space with 253 bytes for extension data

Record 1:

Coding: B1 B2 B3 B4 ... B255 Hex 00 FF FF FF FF

The UICC is installed into the Terminal and the user hasn't specified a default MMS connectivity parameter set.

8.3.4.4.2 Procedure

a) The terminal is powered on and the PIN shall be entered.

b) When the terminal is in idle mode a MM shall be sent to the terminal via the MMS Relay/Server 1 or 2, dependent on the bearer supported by the terminal. This MMS Relay/Server shall then generate a notification to the Terminal's MMS User Agent. With the MM notification the MMS User Agent shall receive a message reference that can be used for retrieving the MM from this MMS Relay/Server.

The MM shall result in a MMS notification with the following predefined values:

X-Mms Message Type: "m-notification-ind" (0x82)

X-Mms-Transaction-ID: "01"

X-Mms-MMS-Version: "1.0"

From: not present (hidden)

Subject: "MM for you"

X-Mms-Content-Location: "http://mms-operator1/MMBox/ID-007-12345678"

c) The user shall read the MMS notification stored on the USIM.

d) The user shall retrieve the MM stored on the MMS Relay/Server used in step b).

e) The user shall forward the MM to "+0123456789" using the default MMS Issuer Connectivity Parameters stored on the USIM.

f) A MM shall be sent to the terminal via the same MMS Relay/Server as in step b). This MMS Relay/Server shall then generate a notification to the Terminal's MMS User Agent. With the MM notification the MMS User Agent shall receive a message reference that can be used for retrieving the MM from this MMS Relay/Server.

The MM shall result in a MMS notification with the following predefined values:

X-Mms Message Type: "m-notification-ind" (0x82)

X-Mms-Transaction-ID: "02"

X-Mms-MMS-Version: "1.0"

From: "+0987123654"

Subject: "Urgent MM"

X-Mms-Content-Location: "http://mms-operator1/MMBox/ID-007-02468024"

g) The user shall read the MMS notification stored on the USIM.

h) The user shall reject the MM stored on the MMS Relay/Server used in step b).

8.3.4.5 Acceptance criteria

1) After step b) the MMS User Agent on the terminal shall have stored the MMS notification on the USIM with the values defined in step b) of 8.4.4.4.2, the associated status shall have been set to "Used space, notification not read, MM not retrieved" and the MMS User Agent shall indicate to the user that a MMS notification has been received.

- 2) After step c) the status of the MMS notification stored on the USIM shall have been set to "used space, notification read, MM not retrieved".
- 3) After step d) the MMS user agent shall have retrieved the MM from the MMS Relay/Server 1 and the status of the MMS notification stored on the USIM shall have either been set to "used space, notification read, MM retrieved" or the MMS notification shall have been deleted and the associated shall have been set to "Free space".
- 4) After step e) the terminal shall have read the set of MMS Issuer Connectivity Parameters stored first in EF_{MMSICP} and shall have forward the MM to "+0123456789" using the MMS Relay/Server 1. The MMS notification shall have either been set to "used space, notification read, MM forwarded" or the MMS notification shall have been deleted and the associated shall have been set to "Free space".
- 5) After step f) the MMS User Agent on the terminal shall have stored the MMS notification on the USIM with the values defined in step f) of 8.4.4.4.2, the associated status shall have been set to "Used space, notification not read, MM not retrieved" and the MMS User Agent shall indicate to the user that a MMS notification has been received.
- 6) After step g) the status of the MMS notification stored on the USIM shall have been set to "used space, notification read, MM not retrieved".
- 7) After step h) the MMS user agent shall have not retrieved the MM from the MMS Relay/Server 1 and the status of the MMS notification stored on the USIM shall have either been set to "used space, notification read, MM rejected" or the MMS notification shall have been deleted and the associated shall have been set to "Free space".

8.4 UICC presence detection

8.4.1 Definition and applicability

To ensure that the UICC has not been removed during a card session, the Terminal sends in case of inactivity on the UICC-Terminal interface, at frequent intervals, a STATUS command during each call.

This procedure shall be used in addition to a mechanical or other devices used to detect the removal of a UICC.

8.4.2 Conformance requirement

A STATUS command shall be issued within all 30 second periods of inactivity on the UICC-Terminal interface during a call. Inactivity in this case is defined as starting at the end of the last communication or the last issued STATUS command. If no response data is received to this STATUS command, then the call shall be terminated as soon as possible but at least within 5s after the STATUS command has been sent. If the DF indicated in response to a STATUS command is not the same as that which was indicated in the previous response, or accessed by the previous command, then the call shall be terminated as soon as possible but at least within 5 seconds after the response data has been received. Here a call covers a circuit switched call, and/or an active PDP context.

- TS 31.102 [4], subclauses 5.1.9
- ETSI TS 102 221 [5], clause 14.5.2.

8.4.3 Test purpose

- 1) To verify that there are no periods of inactivity on the UICC-Terminal interface greater than 30 seconds during a call.
- 2) To verify that the terminal terminates a call within 5 s at the latest after having received an invalid response to the STATUS command.

8.4.4 Method of test

8.4.4.1 Initial conditions

The terminal shall be connected to the UICC simulator. All elementary files shall be coded as default.

8.4.4.2 Procedure

- a) A call shall be set up using the generic call setup for circuit switched call or to activate a PDP context.
- b) The UICC simulator shall monitor the time of periods of inactivity on the UICC-Terminal interface.
- c) After 3 minutes, the call or PDP context shall be cleared.
- d) A call shall be set up using the generic call setup for circuit switched call or to activate a PDP context.
- e) After one minute after the call was successfully set up, the UICC simulator shall respond to a STATUS command with the response data indicating a DF different from the current DF.

8.4.5 Acceptance criteria

- 1) During step b), the time of periods of inactivity on the UICC-Terminal interface shall not be longer than 30 seconds.
- 2) After step e), the Terminal shall terminate the call or PDP context within 5 s at the latest after having received the wrong response to the STATUS command.

8.5 UICC presence detection when connected to E-UTRAN/EPC

8.5.1 Definition and applicability

To ensure that the UICC has not been removed during a card session, the Terminal sends in case of inactivity on the UICC-Terminal interface, at frequent intervals, a STATUS command during each call or active PDP context.

8.5.2 Conformance requirement

A STATUS command shall be issued within all 30 second periods of inactivity on the UICC-Terminal interface during an active PDP context. Inactivity in this case is defined as starting at the end of the last communication or the last issued STATUS command. If no response data is received to this STATUS command, then the active PDP context shall be terminated as soon as possible but at least within 5s after the STATUS command has been sent. If the DF indicated in response to a STATUS command is not the same as that which was indicated in the previous response, or accessed by the previous command, then the active PDP context shall be terminated as soon as possible but at least within 5 seconds after the response data has been received.

There is 1:1 mapping between one PDP context and one EPS Bearer.

- TS 31.102 [4], subclauses 5.1.9
- ETSI TS 102 221 [5], clause 14.5.2.
- TS 23.060 [25], subclause 9.2.1A.

8.5.3 Test purpose

 To verify that there are no periods of inactivity on the UICC-Terminal interface greater than 30 seconds during an active PDP context. 2) To verify that the terminal terminates the default EPS Bearer within 5 s at the latest after having received an invalid response to the STATUS command.

8.5.4 Method of test

8.5.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the E-USS.

The default E-UTRAN UICC is used.

8.5.4.2 Procedure

- a) The terminal is switched on, performs the Attach procedure to the E-USS and establishes the default EPS bearer.
- b) The UICC simulator shall monitor the time of periods of inactivity on the UICC-Terminal interface.
- c) Step b) shall be performed for 3 minutes.
- d) After one minute after the end of step c), the UICC simulator shall respond to a STATUS command with the response data indicating a DF different from the current DF.

8.5.5 Acceptance criteria

- 1) During step c), the time of periods of inactivity on the UICC-Terminal interface shall not be longer than 30 seconds.
- 2) After step d), the Terminal shall terminate the default EPS bearer within 5 s at the latest after having received the wrong response to the STATUS command.

9 USIM service handling

9.1 Access Point Name Control List handling

9.1.1 Access Point Name Control List handling for terminals supporting ACL

9.1.1.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

9.1.1.2 Conformance requirement

The terminal shall support the APN Control List service as defined in TS 31.102 [4], subclauses 5.1.1.2 and 5.3.14.

Reference:

- TS 31.102 [4], subclauses 4.2.8, 4.2.48, 5.1.1.2 and 5.3.14;
- TS 23.060 [25], subclause 9.2.

9.1.1.3 Test purpose

- To verify that the terminal takes into account the status of the APN Control List service as indicated in EF_{UST} and EF_{EST}.
- 2) To verify that the terminal checks that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network if the ACL service is enabled.
- 3) To verify that the terminal does not request the corresponding PDP context activation from the network if the ACL service is enabled and the APN is not present in EF_{ACL}.

9.1.1.4 Method of test

9.1.1.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logica	ılly:		:	•	st est							
Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Coding:	03	DD	0A	04	74	65	73	74	04	74	65	73
	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24
	74	DD	0A	04	33	67	70	70	04	74	65	73
	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
	74	DD	0A	04	32	67	70	70	04	74	65	73
	B37 74	B38 FF		B64 FF								

9.1.1.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall request a PDP context activation to "1gpp.test".
- c) The user shall request a PDP context activation to "3gpp.test".
- d) The user shall deactivate the PDP context.
- e) The user shall disable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- f) The user shall request a PDP context activation to "1gpp.test".
- g) The user shall deactivate the PDP context and shall switch the terminal off and then switch on again.
- h) The user shall enable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- i) The user shall request a PDP context activation to "1ppp.net".

- j) The terminal is switched off and on.
- k) The user shall add the APN "1ppp.net" to the APN Control List. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- 1) The user shall request a PDP context activation to "1ppp.net".
- m) The user shall deactivate the PDP context and switch off the terminal.

9.1.1.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) The terminal shall have not requested a PDP context activation in step b).
- 3) After step c) the PDP context shall have been activated.
- 4) After step d) the PDP context shall have been deactivated.
- 5) After step e) the APN Control List service shall have been set to disabled in EF_{EST}.
- 6) After step f) the PDP context shall have been activated.
- 7) After step g) the PDP context shall have been deactivated.
- 8) After step h) the APN Control List service shall have been set to enabled in EF_{EST}.
- 9) The terminal shall not have requested a PDP context activation in step i).
- 10) After step k) the APN "1ppp.net" shall have been added to the APN Control List in EF_{ACL}.
- 11) After step l) the PDP context shall have been activated.

9.1.2 Network provided APN handling for terminals supporting ACL

9.1.2.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

In the case that the APN Control List is enabled and no APN is indicated in the PDP context request, indicating that a network provided APN is to be used, then the ME shall only request the PDP context activation if "network provided APN" is contained within EF_{ACL} .

9.1.2.2 Conformance requirement

The terminal shall support the APN Control List service as defined in TS 31.102 [4], subclauses 5.1.1.2 and 5.3.14.

Reference:

- TS 31.102 [4], subclauses 4.2.8, 4.2.48, 5.1.1.2 and 5.3.14;
- TS 23.060 [25], subclause 9.2.

9.1.2.3 Test purpose

- 1) To verify that if ACL is enabled and if no APN is indicated in the PDP context the terminal request the PDP context activation only if "network provided APN" is contained within EF_{ACL}.
- 2) To verify that the user is able to set an APN in EF_{ACL} entry to the value "network provided APN".

3) To verify that the minimum set of APN entries in EF_{ACL} is ensured when the user deletes APN entries.

9.1.2.4 Method of test

9.1.2.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logica	lly:		:	le bytes: 6 3 test.tes 3gpp.te 2gpp.te	t est							
Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Coding:	03	DD	0A	04	74	65	73	74	04	74	65	73
	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24
	74	DD	0A	04	33	67	70	70	04	74	65	73
	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
	74	DD	0A	04	32	67	70	70	04	74	65	73
	B37 74	B38 FF		B64 FF								

9.1.2.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall add "network provided APN" to the APN Control List in EF_{ACL} by using an MMI dependent option in the terminal. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- c) The user shall request a PDP context activation to "3gpp.test".
- d) The user shall deactivate the PDP context.
- e) The user shall request a PDP context activation without indicating an APN.
- f) The user shall deactivate the PDP context.
- g) The user shall delete "network provided APN" from the APN Control List in EF_{ACL} by using an MMI dependent option in the terminal. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- h) The user shall request a PDP context activation to "3gpp.test".
- i) The user shall deactivate the PDP context.
- j) The user shall request a PDP context activation without indicating an APN.
- k) The user shall try to delete all APNs from the APN Control List in EF_{ACL} by using an MMI dependent option in the terminal. When the terminal indicates that at least one APN entry shall remain, the user shall set this entry to "network provided APN". When prompted to enter PIN2, the user shall present the correct PIN2 value.
- 1) The user shall switch off the terminal.

9.1.2.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) After step b) EF_{ACL} shall contain an entry for "network provided APN".
- 3) After step c) the PDP context shall have been activated.
- 4) After step d) the PDP context shall have been deactivated.
- 5) After step e) the PDP context shall have been activated.
- 6) After step f) the PDP context shall have been deactivated.
- 7) After step g) EF_{ACL} shall not contain an entry for "network provided APN".
- 8) After step h) the PDP context shall have been activated.
- 9) After step i) the PDP context shall have been deactivated.
- 10) The terminal shall have not requested a PDP context activation in step j).
- 11) After step k) EF_{ACL} shall contain one APN entry with the value "network provided APN" and the corresponding number of APNs in EF_{ACL} shall be 1.

9.1.3 Access Point Name Control List handling for terminals not supporting ACL

9.1.3.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). When the APN Control List service is enabled, the ME shall check that the entire APN of any PDP context is listed in EF_{ACL} before requesting this PDP context activation from the network. If the APN is not present in EF_{ACL} , the ME shall not request the corresponding PDP context activation from the network.

If ACL is enabled, an ME which does not support ACL shall not send any APN to the network.

9.1.3.2 Conformance requirement

An ME which does not support ACL shall not send any APN to the network if ACL is enabled.

Reference:

- TS 31.102 [4], 5.1.1.2.

9.1.3.3 Test purpose

To verify that if ACL is enabled, an ME which does not support ACL, does not send any APN to the network to request a PDP context activation.9.1.3.4 Method of test

9.1.3.4 Method of test

9.1.3.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logical	•	Number of Number of 1 st APN: 2 nd APN: 3 rd APN:		e bytes: 6 3 test.test 3gpp.te 2gpp.te	st							
Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Coding:	03	DD	0A	04	74	65	73	74	04	74	65	73
	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24
	74	DD	0A	04	33	67	70	70	04	74	65	73
	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
	74	DD	0A	04	32	67	70	70	04	74	65	73
	B37 74	B38 FF		B64 FF								

9.1.3.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall request a PDP context activation to "3gpp.test".
- c) The terminal shall be switched off.

9.1.3.5 Acceptance criteria

- 1) After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the (U)SS.
- 2) The terminal shall not have sent any APN to the network in step b).

9.1.4 Access Point Name Control List handling for terminals supporting ACL connected to E-UTRAN/EPC

9.1.4.1 Definition and applicability

This EF_{ACL} contains the list of allowed APNs (Access Point Names). If the APN Control List service is enabled and the ME is to provide an APN as part of attach for PDN connectivity, then the ME shall verify that the APN value is present in the EF_{ACL} and if it is not the ME shall not proceed with the attach procedure. If the APN Control List service is enabled and the ME does not indend to provide an APN as part of the attach for PDN connectivity and use a network provided APN, the ME shall not check if "network provided APN" is contained within EF_{ACL} .

There is 1:1 mapping between one PDP context and one EPS Bearer.

Some terminals might not support the enablement or the disablement of the APN Control List service or the modification of the APN Control List. In these cases, the test sequence below provides separate branches.

9.1.4.2 Conformance requirement

The terminal shall support the APN Control List service as defined in TS 31.102 [4], subclauses 5.1.1.2 and 5.3.14.

Reference:

- TS 31.102 [4], subclauses 4.2.8, 4.2.48, 5.1.1.2 and 5.3.14;
- TS 23.060 [25], subclause 9.2, 9.2.1A.

9.1.4.3 Test purpose

- To verify that the terminal takes into account the status of the APN Control List service as indicated in EF_{UST} and EF_{EST}.
- 2) To verify that the terminal checks that the entire APN of any EPS Bearer is listed in EF_{ACL} before requesting this EPS Bearer activation from the network if the ACL service is enabled.
- 3) To verify that the terminal does not request the corresponding EPS Bearer activation from the network if the ACL service is enabled and the APN is not present in EF_{ACL} .
- 4) To verify that the terminal does not check that the network provided APN is present in EF_{ACL} during the initial attach procedure.

9.1.4.4 Method of test

9.1.4.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the E-USS.

The terminal is configured to use the network provided APN for the initial attach procedure.

The default E-UTRAN UICC is used with the following exceptions:

The APN Control List (ACL) shall be allocated and activated in the USIM Service Table and enabled in the Enabled Service Table.

EF_{ACL} shall be present with the following values:

EF_{ACL} (Access Point Control List)

Logical		Number of Number of 1 st APN: 2 nd APN: 3 rd APN:		e bytes: 6 3 test.test 3gpp.te 2gpp.te	st							
Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Coding:	03	DD	0A	04	74	65	73	74	04	74	65	73
	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24
	74	DD	0A	04	33	67	70	70	04	74	65	73
	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
	74	DD	0A	04	32	67	70	70	04	74	65	73
	B37 74	B38 FF		B64 FF								

9.1.4.4.2 Procedure

- a) The terminal is switched on, the USIM application shall be activated and the terminal shall successfully attach the E-UTRAN.
- b) The user shall request PDN connectivity to "1gpp.test".
- c) The user shall request PDN connectivity to "3gpp.test".
- d) The user shall deactivate the PDN connectivity to "3gpp.test".
- e) If user interface does not have support to disable the APN Control List service, proceed to step 1).
- f) The user shall disable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.

- g) The user shall request PDN connectivity to "1gpp.test".
- h) The user shall deactivate the PDN connectivity to "1gpp.test" and shall switch the terminal off and then switch on again.
- i) The user shall enable the APN Control List service. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- j) The user shall request PDN connectivity to "1ppp.net".
- k) The terminal is switched off and on.
- 1) If user interface does not have support to add APN to APN Control List, proceed to step p).
- m) The user shall add the APN "1ppp.net" to the APN Control List. When prompted to enter PIN2, the user shall present the correct PIN2 value.
- n) The user shall request PDN connectivity to "1ppp.net".
- o) The user shall deactivate the PDN connectivity.
- p) Switch off the terminal.

9.1.4.5 Acceptance criteria

- After step a) the terminal shall have activated the USIM application, shall have read the status of the ACL service in EF_{UST} and EF_{EST} and be in updated idle mode on the E-USS.
- 2) The terminal shall have not requested PDN connectivity in step b).
- 3) After step c) PDN connectivity shall have been activated.
- 4) After step d) PDN connectivity shall have been deactivated.
- 5) After step f) the APN Control List service shall have been set to disabled in EF_{EST}.
- 6) After step g) PDN connectivity shall have been activated.
- 7) After step h) PDN connectivity shall have been deactivated.
- 8) After step i) the APN Control List service shall have been set to enabled in EF_{EST}.
- 9) The terminal shall not have requested PDN connectivity in step j).
- 10) After step m) the APN "1ppp.net" shall have been added to the APN Control List in EF_{ACL} .
- 11) After step n) PDN connectivity shall have been activated.
- 12) After step o) PDN connectivity shall have been deactivated.

9.1.5 Void

9.1.6 Void

9.2 Service Dialling Numbers handling

9.2.1 Definition and applicability

The Service Dialling Numbers feature allows for the storage of numbers related to services offered by the network operator/service provider in the SIM/USIM (e.g. customer care). The user can use these telephone numbers to make outgoing calls, but the access for updating of the numbers shall be under the control of the operator.

9.2.2 Conformance requirement

The terminal shall support the Service Dialling Numbers service as defined in TS 31.102 [4], subclauses 4.2.8 and 4.2.29.

Reference:

- TS 31.102 [4], subclauses 4.2.8, 4.2.29 and 4.2.31;
- TS 22.101 [11], subclause A.23.

9.2.3 Test purpose

- 1) To verify that the terminal takes into account the status of the Service Dialling Numbers service as indicated in EF_{UST} .
- 2) To verify that the user can use the Service Dialling Numbers to make outgoing calls.
- 3) To verify that the terminal is able to handle SDNs with an extended dialling number string.
- 4) To verify that the terminal is able to handle an empty alpha identifier in EF_{SDN}.
- 5) To verify that the terminal is able to handle an alpha identifier of maximum length in EF_{SDN} .

9.2.4 Method of test

9.2.4.1 Initial conditions

The terminal is connected to the USIM Simulator and the (U)SS.

The default USIM is used with the following exceptions:

The Service Dialling Numbers (SDN) shall be allocated and activated in the USIM Service Table.

EF_{SDN} shall be present with the following values:

EF_{SDN} (Service Dialling Numbers)

Logically:

6 records, 1 record shall be empty. Unless otherwise stated, the SDN records shall not use extendend BCD numbers/SSC strings. Access to update EF_{SDN} shall be granted by usage of ADM1 only.

Record 1: Length of alpha identifier: 241 characters;

Alpha identifier:

"Hotline001122334455667788ABCDEFGHIJKLMNOPQRSTUVW XYZ0123456789abcdefghijklmnopqrstuvwxyz0123456789ABCDEF GHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuv wxyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456

789abcdefghijklmnopqrstuvwxyz0123456789";

Length of BCD number: 5;

TON and NPI: Telephony and International;

Dialled number: "22223333";

CCP: 'FF'; Ext3: 'FF'.

Record 1:

3011 10	J1.121 VG	131011 12	.2.0 11616	u36 12		213			L10110	131 121	V 12.2.0 (A	2013-04
Coding: Hex	B1 48	B2 6F	B3 74	B4 6C	B5 69	B6 6E	B7 65	B8 30	B9 30	B10 31	B11	
	B241 39	B242 05	B243 91	B244 22	B245 22	B246 33	B247 33	B248 FF	B249 FF	B250 FF	B251 FF	B252 FF
	B253 FF	B254 FF	B255 FF									
Record	2:	Alpha id Length TON ar	dentifier: of BCD r	dentifier: number:	"Hotlin 5;	ony and I	nternatio	nal;				
Record 2:												
Coding: Hex	B1 48	B2 6F	B3 74	B4 6C	B5 69	B6 6E	B7 65	B8 30	B9 30	B10 32	B11 FF	
	B241 FF	B242 05	B243 91	B244 44	B245 55	B246 44	B247 55	B248 FF	B249 FF	B250 FF	B251 FF	B252 FF
	B253 FF	B254 FF	B255 FF									
Record	3:	Alpha id Length TON ar	dentifier: of BCD r	dentifier: number:	"Hotlin 11; Teleph	ony and I	nternation 23456789					
Record 3:												
Coding: Hex	B1 48	B2 6F	B3 74	B4 6C	B5 69	B6 6E	B7 65	B8 30	B9 30	B10 33	B11 FF	
	B241 FF	B242 0B	B243 91	B244 10	B245 32	B246 54	B247 76	B248 98	B249 10	B250 32	B251 54	B252 76
	B253 98	B254 FF	B255 01									

Length of alpha identifier: 241 characters; Record 4:

Alpha identifier:

empty;

Length of BCD number:

03;

 $TO\bar{N}$ and NPI:

Telephony and International;

Dialled number: "007"; 'FF'; CCI2: 'FF'. Ext3:

Record 4:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	
Hex	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
	FF	03	91	00	F7	FF						
	B253 FF	B254 FF	B255 FF									

Record 5: Length of alpha identifier: 241 characters;

Alpha identifier: empty; Length of BCD number: 3;

TON and NPI: Telephony and International;

Dialled number: "008"; CCI2: 'FF'; Ext3: 'FF'.

Record 5:

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	
Hex	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
	FF	03	91	00	F8	FF						
	B253 FF	B254 FF	B255 FF									

EF_{EXT3} (Extension 3)

Logically: 5 records, 4 records empty. Access to update EF_{EXT3} shall be granted by usage of ADM1 only.

Record 1: Record type: '02'

Extension data: "012345"; Identifier: 'FF'.

Record 1:

Coding:	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex													

9.2.4.2 Procedure

- a) The terminal is switched on and the USIM application shall be activated.
- b) The user shall use an MMI dependent procedure to set up a call to the dialling number associated with the alpha identifier

"Hotline001122334455667788ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvw xyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvwxyz012345678 9ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789abcdefghijklmnopqrstuvwxyz0123456789" in record 1 of EF_{SDN}.

- c) The user shall end the call.
- d) The user shall use an MMI dependent procedure to set up a call to the dialling number associated with the "Hotline003" in record 3 of EF_{SDN}.
- e) The user shall end the call.
- f) The user shall use an MMI dependent procedure to select and to set up a call to the dialling number "+007" stored in record 4 of EF_{SDN}.

g) The user shall end the call and switch the terminal off.

9.2.5 Acceptance criteria

- After step a) the terminal shall have activated the USIM application and shall have read the status of the SDN service in EF_{UST}.
- 2) After step b) the terminal shall have read record 1 of EF_{SDN} and a call to "+22223333" shall have been established
- 3) After step c) the call shall have been terminated.
- 4) After step d) the terminal shall have read record 3 of EF_{SDN} and record 1 of EF_{EXT1} and a call to "+01234567890123456789012345" shall have been established.
- 5) After step e) the call shall have been terminated.
- 6) After step f) the terminal shall have read record 4 of EF_{SDN} and a call to "+007" shall have been established.

10 CSG list handling

10.1 CSG list handling for E-UTRA

10.1.1 Automatic CSG selection in E-UTRA with CSG list on USIM, success

10.1.1.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

10.1.1.2 Conformance requirement

When a UE in idle mode detects the presence of a permissible CSG cell (a CSG cell whose CSG identity is in the UE"s white list), the UE shall select the CSG cell.

The ME shall read the allowed CSG IDs from EF_{ACSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

- TS 22.011 [6], subclause 8.2.2.1;
- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.

10.1.1.3 Test purpose

To verify that the ME only selects a CSG cell if the CSG IDs of the cell is found in the allowed CSG IDs from EF_{ACSGL}

10.1.1.4 Method of test

10.1.1.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 05

- TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

10.1.1.4.2 Procedure

- a) The UE is powered on.
- b) After 2 minutes the E-USS stops all RF output for the first cell with TAI 246/081/0001 on the BCCH for a long enough period of time to cause a cell reselection procedure in the UE. The BCCH is changed to contain:
 - csg-Identity: 03

The E-USS then resumes RF output on the BCCH.

- c) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- d) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266436587"

- e) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease to the UE*.
- f) The UE is soft powered down.

10.1.1.5 Acceptance criteria

1) After steps a) the terminal shall not attempt an Attach procedure.

- 2.) After step b) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the e-USS.
- 3) During step c) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step d) the terminal shall respond with Attach Complete during registration.
- 5) After step e) the USIM shall contain the following values:

EF_{EPSLOCI} (**EPS** Information)

Logically: GUTI: 24608100010266436587

Last visited registered TAI: 246/081/0001 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	16	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	87	42	16	80	00	01	00				

10.1.2 Automatic CSG selection in E-UTRA with CSG list on USIM, removal of CSG ID from the USIM

10.1.2.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

10.1.2.2 Conformance requirement

When a UE in idle mode detects the presence of a permissible CSG cell (a CSG cell whose CSG identity is in the UE"s white list), the UE shall select the CSG cell.

The ME shall read the allowed CSG IDs from EF_{ACSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE receives ATTACH REJECT with cause #25 (Not authorized for this CSG) with integrity protection, the UE shall remove the CSG ID of the cell where the UE has sent the ATTACH REQUEST message from the Allowed CSG list.

- TS 22.011 [6], subclause 8.2.2.1;
- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 24.301 [26], subclause 5.5.1.2.5

10.1.2.3 Test purpose

To verify that the ME removes the CSG ID from the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the ATTACH REQUEST message which was rejected with cause #25 by the E-USS.

10.1.2.4 Method of test

10.1.2.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

- Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 03

- TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

10.1.2.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachReject* to the UE with cause #25 (Not authorized for this CSG) with integrity protection, followed by *RRCConnectionRelease*.
- d) The UE is soft powered down.

10.1.2.5 Acceptance criteria

- 1.) After step a) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the E-USS.
- 2) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 3) After step c) the USIM shall contain the following values:

$EF_{EPSLOCI} \, (EPS \, Information)$

Logically: GUTI: not checked

Last visited registered TAI: 246/081/0001

EPS update status: ROAMING NOT ALLOWED

02

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	XX	XX	XX	XX	XX						
	B12	B13	B14	B15	B16	B17	B18				
	XX	42	16	80	00	01	02				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC)

1st CSG list 1st CSG Type indication 02 1st CSG HNB Name indication 1st CSG list 02 1st CSG list 1st CSG CSG ID: 02 (27bit)

Coding: Α0 0D 80 03 42 16 81 06 80

5F

02

2nd CSG list

00

PLMN: 244 081 (MCC MNC)

00

2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08

00

2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding: 80 03 42 A0 0D 80 81 06 80 1F 08 00 00 01

Note the 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

10.1.3 Manual CSG selection in E-UTRA with CSG list on USIM, success

10.1.3.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.1.3.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} shall take precedence over the list stored in the ME non-volatile memory.

In manual CSG selection mode, the ME indicates to the user the list of available CSGs in the currently selected PLMN. The list of CSGs presented to the user is not restricted by the allowed CSG list..

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list.

- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 24.301 [26], subclause 5.5.3.2.4

10.1.3.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was accepted by the E-USS.

10.1.3.4 Method of test

10.1.3.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

- TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

10.1.3.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- d) After receipt of the AttachComplete during registration from the UE, the E-USS sends RRCConnectionRelease to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.

- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0002

GUTI: "24608100010266436599"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- i) The UE is soft powered down.

10.1.3.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the e-USS.
- 3) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the e-USS.
- 7) During step f) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step g) the terminal shall respond with TrackingAreaUpdatComplete during registration.
- 9) After step i) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24608100010266436599

Last visited registered TAI: 246/081/0002 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	16	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	99	42	16	80	00	02	00				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN:	246 081 (MCC MNC)	
1 st CSG list	1 st CSG Type indication	02
1 st CSG list	1 st CSG HNB Name indication	02
1 st CSG list	1 st CSG CSG ID:	02 (27bit)
1 st CSG list	2 nd CSG Type indication	03
1 st CSG list	2 nd CSG HNB Name indication	03
1 st CSG list	2 nd CSG CSG ID:	03 (27bit)
1 st CSG list	3 rd CSG Type indication	'FF'

1st CSG list 3rd CSG HNB Name indication 'FF' 1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9F									

2nd CSG list

PLMN: 244 081 (MCC MNC)

2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08

2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

10.1.4 Manual CSG selection in E-UTRA with CSG list on USIM, rejected

10.1.4.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.1.4.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} shall take precedence over the list stored in the ME non-volatile memory.

In manual CSG selection mode, the ME indicates to the user the list of available CSGs in the currently selected PLMN. The list of CSGs presented to the user is not restricted by the allowed CSG list.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE REJECT message with cause #25 (Not authorized for this CSG) with integrity protection, shall remove the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message if the CSG ID is contained in the Allowed CSG list.

- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 24.301 [26], subclause 5.5.3.2.5

10.1.4.3 Test purpose

To verify that the ME does not add the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was rejected by the E-USS.

10.1.4.4 Method of test

10.1.4.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

- TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

10.1.4.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of a *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- d) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*, to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of an *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateReject* to the UE with cause #25 (Not authorized for this CSG) with integrity protection, followed by *RRCConnectionRelease* to the UE.

h) The UE is soft powered down.

10.1.4.5 Acceptance criteria

- 1.) After step a) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the E-USS.
- 3) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5.) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send a RRCConnectionRequest on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the E-USS.
- 7) During step f) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step h) the USIM shall contain the following values:

EF_{EPSLOCI} (**EPS** Information)

Logically: GUTI: not checked

Last visited registered TAI: 246/081/0001

EPS update status: ROAMING NOT ALLOWED

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	XX	XX	XX	XX	XX						
	B12	B13	B14	B15	B16	B17	B18				
	XX	42	16	80	00	01	02				

EF_{ACSGL} (Allowed CSG Lists)

Content not changed, shall be the same as defined in clause 4.4.5.

10.1.5 CSG selection in E-UTRA with no CSG list on USIM, no IMSI change

10.1.5.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.1.5.2 Conformance requirement

In manual CSG selection mode, the ME indicates to the user the list of available CSGs in the currently selected PLMN. The list of CSGs presented to the user is not restricted by the allowed CSG list.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list.

If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM. The allowed CSG list is stored in a non-volatile memory in the ME if the UE supports CSG selection. These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 24.301 [26], subclause 5.5.3.2.4 and Annex C.

10.1.5.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in a non-volatile memory in the ME together with the IMSI from the USIM in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was accepted by the E-USS as the corresponding file is not present on the simulated USIM.

To verify that the ME still has this CSG ID stored in the Allowed CSG list available together with the IMSI after powered down and up in case the IMSI of the USIM has not changed.

To verify that the ME removes the CSG ID from the Allowed CSG list inside the terminal in case this CSG ID belongs to the cell where the ME has sent the ATTACH REQUEST message which was rejected with cause #25 by the E-USS.

10.1.5.4 Method of test

10.1.5.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

- Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default UICC (without the service "Allowed CSG Lists and corresponding indications") is installed into the Terminal.

The ME shall not have csg-ID = 04 in the allowed CSG list stored in a non-volatile memory in the ME and the ME is set to automatic PLMN selection mode.

10.1.5.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with the following parameters to the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- d) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with the following parameters to the UE:

TAI (MCC/MNC/TAC):246/081/TACs: 0002

GUTI: "24608100010266345699"

- h) After receipt of the *TrackingAreaUpdateComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- i) The UE is switched off and performs the *Detach* procedure.
- j) The default UICC remains in use.
- k) The E-USS shall change the BCCH for the cell transmitting TAI 246/081/0001 to the following network parameters:

- csg-Indication: TRUE

- csg-Identity: 06

- 1) The UE is powered on.
- m) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- n) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachReject* to the UE with cause #25 (Not authorized for this CSG) with integrity protection, followed by *RRCConnectionRelease*.
- o) The UE is soft powered down.
- p) The default UICC remains in use.
- q) The UE is powered on.
- r) After 2 minutes the UE is soft powered down.

10.1.5.5 Acceptance criteria

- 1.) After step a) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the E-USS.
- 3) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the E-USS.
- 7) During step f) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step g) the terminal shall respond with *TrackingAreaUpdateComplete* during registration.
- 9.) After step l) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the E-USS.
- 10) During step n) the terminal shall send *AttachRequest* to the E-USS.
- 11) After step q) the terminal shall not try to register to the E-USS.

10.1.6 CSG selection in E-UTRA with no CSG list on USIM, with IMSI change

10.1.6.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.1.6.2 Conformance requirement

In manual CSG selection mode, the ME indicates to the user the list of available CSGs in the currently selected PLMN. The list of CSGs presented to the user is not restricted by the allowed CSG list..

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list.

If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM. The allowed CSG list is stored in a non-volatile memory in the ME if the UE supports CSG selection. These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.

- TS 24.301 [26], subclause 5.5.3.2.4 and Annex C.

10.1.6.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in a non-volatile memory in the ME together with the IMSI from the USIM in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was accepted by the E-USS as the corresponding file is not present on the simulated USIM.

To verify that the ME removes this CSG ID stored in the Allowed CSG list available together with the IMSI after powered down and up in case the IMSI of the USIM has changed.

10.1.6.4 Method of test

10.1.6.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

Access control: unrestricted.

- csg-Indication: FALSE

csg-Identity: not present

- TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default UICC (without the service "Allowed CSG Lists and corresponding indications") is installed into the Terminal.

The ME shall not have csg-ID = 04 in the allowed CSG list stored in a non-volatile memory in the ME and the ME is set to automatic PLMN selection mode.

10.1.6.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the following parameters the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

d) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.

- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with the following parameters to the UE:

TAI (MCC/MNC/TAC):246/081/0002

GUTI: "24608100010266345699"

- h) After receipt of the *TrackingAreaUpdateComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- i) The UE is switched off and performs the *Detach* procedure.
- j) A new UICC with the following configuration is activated:

The default UICC with the following exception: The IMSI is set to "246081222233333".

- k) The E-USS shall change the BCCH for the cell transmitting TAI 246/081/0001 to the following network parameters:
 - csg-Indication: TRUE
 - csg-Identity: 06
- 1) The UE is powered on.
- m) After 2 minutes the UE is soft powered down.

10.1.6.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the e-USS.
- 3) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the e-USS.
- 7) During step f) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step g) the terminal shall respond with TrackingAreaUpdateComplete during registration.
- 9) After step 1) the terminal shall not try to register to the E-USS.

10.1.7 Manual CSG selection without display restrictions in E-UTRA with ACSG list and OCSG list on USIM

10.1.7.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication

that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects a CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

Editor's note: it is still being investigated whether the testing of Automatic CSG selection should be performed using a separate test case or an enhanced version of the Manual CSG selection test case.

10.1.7.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} and EF_{OCSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} and EF_{OCSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list EF_{ACSGL} .

By default, the UE shall display all available CSGs for any PLMN, unless the UE has been configured by the HPLMN, for a specific PLMN, to display only CSGs in the Operator CSG List that are available.

- TS 31.102 [4], subclauses 4.2.18, 4.4.6.2, 4.4.6.5 and 5.8.1;
- TS 24.301 [26], subclause 5.5.3.2.4
- TS 22.220 [34], subclause 5.3.2 and 5.5.4

10.1.7.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was accepted by the E-USS. During the manual CSG selection all available CSG ID shall be displayed without restrictions.

10.1.7.4 Method of test

10.1.7.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

Access control: unrestricted.

- csg-Indication: FALSE

csg-Identity: not present

TAI (MCC/MNC/TAC): 246/081/0002.

Access control: unrestricted.

csg-Indication: TRUE

csg-Identity: 04

The default ACSGL/OCSGL E-UTRAN/EPC UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection and manual CSG selection mode.

10.1.7.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- d) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- g) During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the UE:

TAI (MCC/MNC/TAC):246/081/0002

GUTI: "24608100010266436599"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- i) The UE is soft powered down.

10.1.7.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the e-USS.
- 3) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the E-USS.
- 7) During step f) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step g) the terminal shall respond with TrackingAreaUpdatComplete during registration.
- 9) After step i) the USIM shall contain the following values:

EF_{EPSLOCI} (EPS Information)

Logically: GUTI: 24608100010266436599

Last visited registered TAI: 246/081/0002 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	16	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	99	42	16	80	00	02	00				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC) 1st CSG list 1st CSG Type indication 02 1st CSG list 1st CSG HNB Name indication 02 1st CSG CSG ID: 1st CSG list 02 (27bit) 2nd CSG Type indication 1st CSG list 03 2nd CSG HNB Name indication 1st CSG list 03 2nd CSG CSG ID: 1st CSG list 03 (27bit) 3rd CSG Type indication 1st CSG list 'FF' 1st CSG list 3rd CSG HNB Name indication 'FF' 1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9F									

2nd CSG list

PLMN: $244\ 081\ (MCC\ MNC)$ $2^{nd}\ CSG\ list$ $1^{st}\ CSG\ Type\ indication$ 08 $2^{nd}\ CSG\ list$ $1^{st}\ CSG\ HNB\ Name\ indication$ 08 $2^{nd}\ CSG\ list$ $1^{st}\ CSG\ CSG\ ID$: $08\ (27bit)$

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

EF_{OCSGL} (Operator CSG Lists)

Unchanged values as defined in 4.6.3

10.1.8 Manual CSG selection with display restrictions in E-UTRA with ACSG list and OCSG list on USIM

10.1.8.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects a CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.1.8.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} and EF_{OCSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} and EF_{OCSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the TRACKING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the TRACKING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list EF_{ACSGL}.

By default, the UE shall display all available CSGs for any PLMN, unless the UE has been configured by the HPLMN, for a specific PLMN, to display only CSGs in the Operator CSG List that are available.

- TS 31.102 [4], subclauses 4.2.18, 4.4.6.2, 4.4.6.5 and 5.8.1;
- TS 24.301 [26], subclause 5.5.3.2.4
- TS 22.220 [34], subclause 5.3.2 and 5.5.4

10.1.8.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the TRACKING AREA UPDATE REQUEST message which was accepted by the E-USS. During the manual CSG selection all available CSG ID shall be displayed with restrictions.

10.1.8.4 Method of test

10.1.8.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on two cells, with the following network parameters:

- TAI (MCC/MNC/TAC): 246/081/0001.

- Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

- TAI (MCC/MNC/TAC): 246/080/0002.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default ACSGL/OCSGL E-UTRAN/EPC UICC is used except the following change:

EF_{AD} (Administrative Data)

Logically: Normal operation + specific facilities

Ciphering indicator feature disabled

MNC: 3 digit

For every PLMN not included in EF_OCSGL or any PLMN for which a CSG display indicator tag is not present, only the available CSGs found in the Operator CSG list shall be displayed (B3)

Coding:	B1	B2	B3	B4
Hex	01	00	02	03

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection and manual CSG selection mode.

10.1.8.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the E-USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

TAI (MCC/MNC/TAC): 246/081/0001

GUTI: "24608100010266345678"

- d) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall not indicate the availability of a cell with csg-Identity 04 for PLMN 246/080, this shall be verified for 2 minutes.
- f) The E-USS stops all RF output for the first cell with TAI 246/081/0001 on the BCCH. The BCCH is changed to contain:

- TAI (MCC/MNC/TAC): 246/081/0002

- csg-Indication: TRUE

- csg-Identity:04

The E-USS then resumes RF output on the BCCH.

- g) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- h) After receipt of an *RRCConnectionRequest* from the UE on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002, the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.

During registration and after receipt of a *TrackingAreaUpdateRequest* from the UE, the E-USS initiates
authentication, starts integrity by using the security procedure and sends *TrackingAreaUpdateAccept* with to the
UE:

TAI (MCC/MNC/TAC): 246/081/0002

GUTI: "24608100010266436599"

- j) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE.
- k) The UE is soft powered down.

10.1.8.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0001 to the E-USS.
- 2) During step b) the terminal shall send *AttachRequest* to the E-USS.
- 3) After step c) the terminal shall respond with *AttachComplete* during registration.
- 4) During step e) the UE shall not provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/080 to the user.
- 5) During step g) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6) After step h) the UE shall send an *RRCConnectionRequest* on the E-UTRAN-cell related to the BCCH transmitting TAI 246/081/0002 to the E-USS.
- 7) During step i) the terminal shall send *TrackingAreaUpdateRequest* to the E-USS.
- 8) After step j) the terminal shall respond with TrackingAreaUpdatComplete during registration.
- 9) After step k) the USIM shall contain the following values:

EF_{EPSLOCI} (**EPS** Information)

Logically: GUTI: 24608100010266436599

Last visited registered TAI: 246/081/0002 EPS update status: updated

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	0B	F6	42	16	80	00	01	02	66	43	65
	B12	B13	B14	B15	B16	B17	B18				
	99	42	16	80	00	02	00				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN:	246 081 (MCC MNC)	
1st CSG list	1 st CSG Type indication	02
1st CSG list	1 st CSG HNB Name indication	02
1 st CSG list	1 st CSG CSG ID:	02 (27bit)
1 st CSG list	2 nd CSG Type indication	03
1 st CSG list	2 nd CSG HNB Name indication	03
1st CSG list	2 nd CSG CSG ID:	03 (27bit)
1st CSG list	3 rd CSG Type indication	'FF'
1st CSG list	3 rd CSG HNB Name indication	'FF'

1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9F									

2nd CSG list

PLMN: 244 081 (MCC MNC)

2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08

2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

EF_{OCSGL} (Operator CSG Lists)

Unchanged values as defined in 4.6.3

10.2 CSG list handling for UTRA

10.2.1 Manual CSG selection without display restrictions in UTRA with ACSG list and OCSG list on USIM

10.2.1.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects a CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

Editor's note: it is still being investigated whether the testing of Automatic CSG selection should be performed using a separate test case or an enhanced version of the Manual CSG selection test case.

10.2.1.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} and EF_{OCSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} and EF_{OCSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the ROUTING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the ROUTING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the

Allowed CSG list EF_{ACSGL}.

By default, the UE shall display all available CSGs for any PLMN, unless the UE has been configured by the HPLMN, for a specific PLMN, to display only CSGs in the Operator CSG List that are available.

- TS 31.102 [4], subclauses 4.2.18, 4.4.6.2, 4.4.6.5 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 22.220 [34], subclause 5.3.2 and 5.5.4

10.2.1.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the ROUTING AREA UPDATE REQUEST message which was accepted by the USS. During the manual CSG selection all available CSG ID shall be displayed without restrictions.

10.2.1.4 Method of test

10.2.1.4.1 Initial conditions

For this test an USS is required.

The USS transmits on two cells, with the following network parameters:

- RAI (MCC/MNC/LAC/RAC): 246/081/0001/01.

Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

- RAI (MCC/MNC/LAC/RAC): 246/081/0002/02.

- Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default ACSGL/OCSGL E-UTRAN/EPC UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection and manual CSG selection mode.

10.2.1.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

RAI (MCC/MNC/LAC/RAC): 246/081/0001/01

P-TMSI "87512890"

- d) After receipt of the *AttachComplete* during registration from the UE, the USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- g) During registration and after receipt of a RoutingAreaUpdateRequest from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends RoutingAreaUpdateAccept with to the UE:

RAI (MCC/MNC/LAC/RAC): 246/081/0002/02

P-TMSI "34567890"

- h) After receipt of the *TrackingAreaUpdatComplete* during registration from the UE, the USS sends *RRCConnectionRelease* to the UE.
- i) The UE is soft powered down.

10.2.1.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01 to the USS.
- 3) During step C) the terminal shall send *AttachRequest* to the USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02 to the USS.
- 7) During step g) the terminal shall send RoutingAreaUpdateRequest to the USS.
- 8) After step g) the terminal shall respond with RoutingAreaUpdatComplete during registration.
- 9) After step i) the USIM shall contain the following values:

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 246

RAI-MNC: 081 RAI-LAC: 0002 RAI-RAC: 02 P-TMSI: "34567890"

Hex 34 56 78 90 xx xx xx 42 16 80 00	Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
	Hex	34	56	/ ^	90					16	80	

Coding:	B12	B13	B14				
Hex	02	02	00				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC) 1st CSG list 1st CSG Type indication 02 1st CSG HNB Name indication 1st CSG list 02 1st CSG CSG ID: 1st CSG list 02 (27bit) 1st CSG list 2nd CSG Type indication 03 1st CSG list 2nd CSG HNB Name indication 03 1st CSG list 2nd CSG CSG ID: 03 (27bit) 1st CSG list 3rd CSG Type indication 'FF' 1st CSG list 3rd CSG HNB Name indication 'FF' 1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9F									

2nd CSG list

PLMN: 244 081 (MCC MNC) 2nd CSG list 1st CSG Type indication

2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08 2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

EF_{OCSGL} (Operator CSG Lists)

Unchanged values as defined in 4.6.3

10.2.2 Manual CSG selection with display restrictions in UTRA with ACSG list and OCSG list on USIM

10.2.2.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects a CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

10.2.2.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} and EF_{OCSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} and EF_{OCSGL} shall take precedence over the list stored in the ME non-volatile memory.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the ROUTING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the ROUTING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list EF_{ACSGL} .

By default, the UE shall display all available CSGs for any PLMN, unless the UE has been configured by the HPLMN, for a specific PLMN, to display only CSGs in the Operator CSG List that are available.

- TS 31.102 [4], subclauses 4.2.18, 4.4.6.2, 4.4.6.5 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 22.220 [34], subclause 5.3.2 and 5.5.4

10.2.2.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the ROUTING AREA UPDATE REQUEST message which was accepted by the USS. During the manual CSG selection all available CSG ID shall be displayed with restrictions.

10.2.2.4 Method of test

10.2.2.4.1 Initial conditions

For this test an USS is required.

The USS transmits on two cells, with the following network parameters:

- RAI (MCC/MNC/LAC/RAC): 246/081/0001/01.

- Access control: unrestricted.

- csg-Indication: FALSE

- csg-Identity: not present

- RAI (MCC/MNC/LAC/RAC): 246/080/0002/02.

- Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default ACSGL/OCSGL E-UTRAN/EPC UICC is used except the following change:

EF_{AD} (Administrative Data)

Logically: Normal operation + specific facilities

Ciphering indicator feature disabled

MNC: 3 digit

For every PLMN not included in EF_OCSGL or any PLMN for which a CSG display indicator tag is not present, only the available CSGs found in the Operator CSG list shall be displayed (B3)

Coding:	B1	B2	B3	B4
Hex	01	00	02	03

.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection and manual CSG selection mode.

10.2.2.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

RAI (MCC/MNC/LAC/RAC): 246/081/0001/01

P-TMSI "87512890"

- d) After receipt of the *AttachComplete* during registration from the UE, the USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall not indicate the availability of a cell with csg-Identity 04 for PLMN 246/080, this shall be verified for 2 minutes.
- f) The USS stops all RF output for the first cell with RAI 246/081/0001/01 on the BCCH. The BCCH is changed to contain:
 - RAI (MCC/MNC/LAC/RAC): 246/081/0002/02.
 - csg-Indication: TRUE
 - csg-Identity:04

The USS then resumes RF output on the BCCH.

- g) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- h) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- i) During registration and after receipt of a *RoutingAreaUpdateRequest* from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends *RoutingAreaUpdateAccept* with to the UE:

RAI (MCC/MNC/TAC): 246/081/0002/02

P-TMSI "34567890"

- j) After receipt of the RoutingAreaUpdatComplete during registration from the UE, the USS sends RRCConnectionRelease to the UE.
- k) The UE is soft powered down.

10.2.2.5 Acceptance criteria

- 1.) After step b) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01 to the USS.
- 3) During step c) the terminal shall send *AttachRequest* to the USS.

- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall not provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/080 to the user.
- 6) During step g) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step g) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02 to the USS.
- 7) During step i) the terminal shall send *RoutingAreaUpdateRequest* to the USS.
- 8) After step i) the terminal shall respond with RoutingAreaUpdatComplete during registration.
- 9) After step k) the USIM shall contain the following values:

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 246

RAI-MNC: 081 RAI-LAC: 0002 RAI-RAC: 02 P-TMSI: "34567890"

(Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
	Hex	34	56	78	90	XX	XX	XX	42	16	80	00

Coding:	B12	B13	B14				
Hex	02	02	00				

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC) 1st CSG list 1st CSG Type indication 02 1st CSG list 1st CSG HNB Name indication 02 1st CSG list 1st CSG CSG ID: 02 (27bit) 1st CSG list 2nd CSG Type indication 03 1st CSG list 2nd CSG HNB Name indication 03 1st CSG list 2nd CSG CSG ID: 03 (27bit) 1st CSG list 3rd CSG Type indication 'FF' 1st CSG list 3rd CSG HNB Name indication 'FF' 1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9F									

2nd CSG list

PLMN: 244 081 (MCC MNC)

2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08

2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

EF_{OCSGL} (Operator CSG Lists)

Unchanged values as defined in 4.6.3

10.2.3 Manual CSG selection in UTRA with CSG list on USIM, success

10.2.3.1 Definition and applicability

A Closed Subscriber Group identifies subscribers of an operator who are permitted to access one or more cells of the PLMN but which have restricted access (CSG cells). A CSG cell is part of the PLMN, broadcasting a CSG indication that is set to TRUE and a specific CSG identity. A CSG cell is accessible by the members of the closed subscriber group for that CSG identity. For a CSG cell, the UE shall check the broadcast CSG ID against the Allowed CSG list provided by NAS to check whether a CSG cell is suitable for the UE.

A UE supporting CSG selection selects CSG cell either automatically based on the list of allowed CSG identities or manually based on user selection of CSG on indication of list of available CSGs.

Editor's note: it is still being investigated whether the testing of both the unsuccessful Manual CSG selection and the Automatic CSG selection should be performed using a separate test case or an enhanced version of the Manual CSG selection test case.

10.2.3.2 Conformance requirement

The ME shall read the allowed CSG IDs from EF_{ACSGL} in order to perform HNB selection procedures. The lists in EF_{ACSGL} shall take precedence over the list stored in the ME non-volatile memory.

In manual CSG selection mode, the ME indicates to the user the list of available CSGs in the currently selected PLMN. The list of CSGs presented to the user is not restricted by the allowed CSG list.

If the MS supports CSG, it is provisioned with a list of allowed CSG identities and associated PLMN identities from the USIM if the list is available in the USIM.

If the UE supporting CSG selection has attempted manual CSG selection, the UE, when receiving the ROUTING AREA UPDATE ACCEPT message, shall check if the CSG ID of the cell where the UE has sent the ROUTING AREA UPDATE REQUEST message is contained in the Allowed CSG list. If not, the UE shall add that CSD ID to the Allowed CSG list.

- TS 31.102 [4], subclauses 4.4.6.2 and 5.8.1;
- TS 23.122 [31], subclause 3.1A.
- TS 24.008 [16], subclause 4.7.5.1.3

10.2.3.3 Test purpose

To verify that the ME adds the CSG ID to the Allowed CSG list in EF_{ACSGL} in case this CSG ID belongs to the cell where the ME has sent the ROUTING AREA UPDATE REQUEST message which was accepted by the USS.

10.2.3.4 Method of test

10.2.3.4.1 Initial conditions

For this test an USS is required.

The USS transmits on two cells, with the following network parameters:

- RAI (MCC/MNC/LAC/RAC): 246/081/0001/01.

Access control: unrestricted.

- csg-Indication: FALSE

csg-Identity: not present

- RAI (MCC/MNC/LAC/RAC): 246/081/0002/02.

Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 04

The default E-UTRAN UICC is used.

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

10.2.3.4.2 Procedure

- a) The UE is powered on.
- b) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- c) During registration and after receipt of an *AttachRequest* from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends *AttachAccept* with to the UE:

RAI (MCC/MNC/LAC/RAC): 246/081/0001/01

P-TMSI "87512890"

- d) After receipt of the *AttachComplete* during registration from the UE, the USS sends *RRCConnectionRelease* to the UE.
- e) The MMI of the UE is used to perform manual CSG selection. The UE shall indicate the availability of a cell with csg-Identity 04 for PLMN 246/081. The user shall select this cell by using the MMI.
- f) After receipt of an *RRCConnectionRequest* from the UE on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02, the USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the USS.
- g) During registration and after receipt of a *RoutingAreaUpdateRequest* from the UE, the USS initiates authentication, starts integrity by using the security procedure and sends *RoutingAreaUpdateAccept* with to the UE:

RAI (MCC/MNC/LAC/RAC): 246/081/0002/02

P-TMSI "34567890"

- h) After receipt of the *RoutingAreaUpdatComplete* during registration from the UE, the USS sends *RRCConnectionRelease* to the UE.
- i) The UE is soft powered down.

10.2.3.5 Acceptance criteria

- 1.) After step a) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0001/01 to the USS.
- 3) During step c) the terminal shall send AttachRequest to the USS.
- 4) After step c) the terminal shall respond with *AttachComplete* during registration.
- 5) During step e) the UE shall provide during the manual CSG selection the information for a cell with csg-Identity 04 for PLMN 246/081 to the user.
- 6.) After step e) the UE shall send an *RRCConnectionRequest* on the UTRAN-cell related to the BCCH transmitting RAI 246/081/0002/02 to the USS.
- 7) During step g) the terminal shall send *RoutingAreaUpdateRequest* to the USS.
- 8) After step g) the terminal shall respond with RoutingAreaUpdatComplete during registration.
- 9) After step i) the USIM shall contain the following values:

EF_{PSLOCI} (Location Information)

Logically: RAI-MCC: 246

RAI-MNC: 081 RAI-LAC: 0002 RAI-RAC: 02 P-TMSI: "34567890"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	34	56	78	90	XX	XX	XX	42	16	80	00

Coding:	B12	B13	B14
Hex	02	02	00

EF_{ACSGL} (Allowed CSG Lists)

Logically:

1st CSG list

PLMN: 246 081 (MCC MNC) 1st CSG list 1st CSG Type indication 02 1st CSG list 1st CSG HNB Name indication 02 1st CSG list 1st CSG CSG ID: 02 (27bit) 1st CSG list 2nd CSG Type indication 03 1st CSG list 2nd CSG HNB Name indication 03 1st CSG list 2nd CSG CSG ID: 03 (27bit) 1st CSG list 3rd CSG Type indication 'FF' 1st CSG list 3rd CSG HNB Name indication 'FF' 1st CSG list 3rd CSG CSG ID: 04 (27bit)

Coding:	A0	1D	80	03	42	16	80	81	06	02
	02	00	00	00	5F	81	06	03	03	00
	00	00	7F	81	06	FF	FF	00	00	00
	9⊦									

2nd CSG list

PLMN: 244 081 (MCC MNC) 2nd CSG list 1st CSG Type indication 08 2nd CSG list 1st CSG HNB Name indication 08 2nd CSG list 1st CSG CSG ID: 08 (27bit)

Coding:	A0	0D	80	03	42	14	80	81	06	08
	08	00	00	01	1F					

Note The 1st and 2nd CSG list may be stored together or separately in any record in arbitrary order.

11 NAS security context parameter handling

11.1 NAS security context parameter handling when service "EMM Information" is available

11.1.1 Definition and applicability

The security parameters for authentication, integrity protection and ciphering are tied together in an EPS security context and identified by a key set identifier for E-UTRAN (eKSI). The relationship between the security parameters is defined in 3GPP TS 33.401 [27].

The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

The EF_{EPSNSC} contains the EPS NAS Security context as defined in TS 33.401 [27]. This file shall contain only one record and shall be updated only when the requirements defined in TS 33.401 [27] are met.

11.1.2 Conformance requirement

EPS AKA is the authentication and key agreement procedure that shall be used over E-UTRAN.

Before security can be activated, the MME and the UE need to establish an EPS security context. Usually, the EPS security context is created as the result of an authentication procedure between MME and UE

The EPS security context parameters shall be stored on the USIM if the corresponding file is present, and shall be updated only when the requirements defined in TS 33.401 [27] are met.

If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

- TS 24.301 [6], subclause 4.2.2.1 and Annex C;
- TS 31.102 [4], subclause 4.2.92;
- TS 33.401 [27], subclause 6.1.1 and 7.2.5.1.

11.1.3 Test purpose

To verify that the ME generates the EPS security context identified by a key set identifier for E-UTRAN (eKSI) and stores all inside EF_{EPSNSC} if this EF is available and when the requirements defined in TS 33.401 [27], subclause 7.2.5.1 are met.

11.1.4 Method of test

11.1.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on one cell, with the following network parameters:

- TAI (MCC/MNC/TAC):246/081/0001.
- Access control: unrestricted.

The default E-UTRAN UICC is used.

11.1.4.2 Procedure

- a) The UE is switched on.
- b) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* (included in the *RRCConnectionSetupComplete*) from the UE, the E-USS initiates the EPS authentication and AKA procedure. The E-USS uses

eKSI: '00'

d) Afterwards the E-USS transmits a (NAS) *SecurityModeCommand* message to activate NAS security, and after receiving (NAS) *SecurityModeComplete* from the UE, the E-USS sends *AttachAccept* to the UE with:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- e) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*, to the UE
- f) The UE or the UE's radio interface is switched off to perform the DETACH procedure.

11.1.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST} and EF_{EPSNSC}.
- 2) During step b) the UE shall indicate in the AttachRequest that no key is available
- 3) During step c) the UE shall send the AuthenticationResponse message.
- 4) During step d) the UE shall send the (NAS) SecurityModeComplete message
- 5) EF_{EPSNSC} shall not be updated during steps c) to e).
- 6) After step f) the UE shall send DETACH REQUEST to the E-USS.
- 7) After step f) EF_{EPSNSC} shall contain:

EF_{EPSNSC} (EPS NAS Security Context)

Logically: Key Set Identifier KSI_{ASME}: '00'

ASME Key (KSI_{ASME}): 32 byte key, value not checked

Uplink NAS count: any value

Downlink NAS count: any value Identifiers of selected NAS integrity and encryption algorithm and any value any value

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	 	 Bxx
Hex	A0	XX	80	01	00	81	XX	XX	 	 XX

11.2 NAS security context parameter handling when service "EMM Information" is not available, no IMSI change

11.2.1 Definition and applicability

The security parameters for authentication, integrity protection and ciphering are tied together in an EPS security context and identified by a key set identifier for E-UTRAN (eKSI). The relationship between the security parameters is defined in 3GPP TS 33.401 [27].

The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

The EF_{EPSNSC} contains the EPS NAS Security context as defined in TS 33.401 [27]. This file shall contain only one record.

11.2.2 Conformance requirement

EPS AKA is the authentication and key agreement procedure that shall be used over E-UTRAN.

Before security can be activated, the MME and the UE need to establish an EPS security context. Usually, the EPS security context is created as the result of an authentication procedure between MME and UE The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

- TS 24.301 [6], subclause 4.2.2.1 and Annex C;
- TS 31.102 [4], subclause 4.2.92;
- TS 33.401 [27], subclause 6.1.1.

11.2.3 Test purpose

To verify that the ME generates the EPS security context identified by a key set identifier for E-UTRAN (eKSI) and stores all inside a non-volatile memory in the ME as EMM information is not available on the USIM. During the test the IMSI on the USIM remains unchanged.

11.2.4 Method of test

11.2.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on one cell, with the following network parameters:

- TAI (MCC/MNC/TAC):246/081/0001.
- Access control: unrestricted.

The default UICC (without the service "EMM Information") is installed into the Terminal and the UE is powered on.

11.2.4.2 Procedure

- a) The UE is switched on.
- b) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* (included in the *RRCConnectionSetupComplete*) from the UE, the E-USS initiates the EPS authentication and AKA procedure. The E-USS uses

eKSI: 00

d) Afterwards the E-USS transmits a (NAS) SecurityModeCommand message to activate NAS security, and after receiving (NAS) SecurityModeComplete from the UE, the E-USS sends AttachAccept to the UE with:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- e) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*, to the UE
- f) The UE is switched off and performs the *Detach* procedure.
- g) The default UICC remains in use.
- h) The Terminal is switched on.
- i) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- j) During registration and after receipt of an *AttachRequest* (included in the *RRCConnectionSetupComplete*) from the UE, E-USS transmits a (NAS) *SecurityModeCommand* message to activate NAS security using the last known K_{ASME}, and after receiving (NAS) *SecurityModeComplete* from the UE, the E-USS sends *AttachAccept* to the UE with:

TAI (MCC/MNC/TAC): 246/081/0001

GUTI: "24608100010266345619"

k) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease* to the UE

11.2.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST}
- 2) During step c) the UE shall send the *AuthenticationResponse* message.
- 3) During step d) the UE shall send the (NAS) SecurityModeComplete message
- 4) During step j) UE shall indicate in the AttachRequest eKSI as 00
- 5) During step j) the UE shall send the (NAS) SecurityModeComplete message

6) During step k) the UE shall send the AttachComplete message

11.3 NAS security context parameter handling when service "EMM Information" is not available, IMSI changed

11.3.1 Definition and applicability

The security parameters for authentication, integrity protection and ciphering are tied together in an EPS security context and identified by a key set identifier for E-UTRAN (eKSI). The relationship between the security parameters is defined in 3GPP TS 33.401 [27].

The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

The EF_{EPSNSC} contains the EPS NAS Security context as defined in TS 33.401 [27]. This file shall contain only one record.

11.3.2 Conformance requirement

EPS AKA is the authentication and key agreement procedure that shall be used over E-UTRAN.

Before security can be activated, the MME and the UE need to establish an EPS security context. Usually, the EPS security context is created as the result of an authentication procedure between MME and UE. The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

These EMM parameters can only be used if the IMSI from the USIM matches the IMSI stored in the non-volatile memory; else the UE shall delete the EMM parameters.

- TS 24.301 [6], subclause 4.2.2.1 and Annex C;
- TS 31.102 [4], subclause 4.2.92;
- TS 33.401 [27], subclause 6.1.1.

11.3.3 Test purpose

- 1.) To verify that the ME generates the EPS security context identified by a key set identifier for E-UTRAN (eKSI) and stores all inside a non-volatile memory in the ME as EMM information is not available on the USIM.
- 2.) To verify that UE deletes existing EMM parameters from the ME"s non-volatile memory in case a different IMSI is activated.

11.3.4 Method of test

11.3.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on one cell, with the following network parameters:

- TAI (MCC/MNC/TAC):246/081/0001.
- Access control: unrestricted.

The default UICC (without the service "EMM Information") is installed into the Terminal and the UE is powered on.

11.3.4.2 Procedure

- a) The UE is switched on.
- b) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- c) During registration and after receipt of an *AttachRequest* (included in the *RRCConnectionSetupComplete*) from the UE, the E-USS initiates the EPS authentication and AKA procedure. The E-USS uses

eKSI: 00

d) Afterwards the E-USS transmits a (NAS) SecurityModeCommand message to activate NAS security, and after receiving (NAS) SecurityModeComplete from the UE, the E-USS sends AttachAccept to the UE with:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- e) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*, to the UE
- f) The UE is switched off and performs the *Detach* procedure.
- g) A new UICC with the following configuration is activated:

The default UICC with the following exception: The IMSI is set to "246081222233333".

- h) The Terminal is switched on.
- i) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- j) During registration and after receipt of an ATTACH REQUEST (included in the *RRCConnectionSetupComplete*) from the UE, E-USS transmits a (NAS) *SecurityModeCommand* message to activate NAS security using the last known K_{ASME}.
- k) The UE responds with (NAS) SecurityModeReject.
- 1) The E-USS sends RRCConnectionRelease to the UE

11.3.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST}
- 2) During step c) the UE shall send the AuthenticationResponse message.
- 3) During step d) the UE shall send the (NAS) SecurityModeComplete message
- 4) During step j) UE shall indicate in the *AttachRequest* that no key is available
- 5) After step j) the UE shall send the (NAS) SecurityModeReject message

11.4 EPS NAS Security Context Storage

11.4.1 Definition and applicability

The security parameters for authentication, integrity protection and ciphering are tied together in an EPS security context and identified by a key set identifier for E-UTRAN (eKSI). The relationship between the security parameters is defined in 3GPP TS 33.401 [27].

The EPS security context parameters shall be stored on the USIM if the corresponding file is present. If the corresponding file is not present on the USIM, these EMM parameters except allowed CSG list are stored in a non-volatile memory in the ME together with the IMSI from the USIM.

The EF_{EPSNSC} contains the EPS NAS Security context as defined in TS 33.401 [27]. This file shall contain only one record and shall be updated only when the requirements defined in TS 33.401 [27] are met.

11.4.2 Conformance requirement

EPS AKA is the authentication and key agreement procedure that shall be used over E-UTRAN.

Before security can be activated, the MME and the UE need to establish an EPS security context. Usually, the EPS security context is created as the result of an authentication procedure between MME and UE The EPS security context parameters shall be stored on the USIM if the corresponding file is present, and shall be updated only when the requirements defined in TS 33.401 [27] are met.

- TS 24.301 [6], subclause 4.2.2.1 and Annex C;
- TS 31.102 [4], subclause 4.2.92 and 5.2.28;
- TS 33.401 [27], subclause 6.1.1, 7.2.5.2, 7.2.6.1, and 7.2.6.3,

11.4.3 Test purpose

The update of EPS NAS security context shall be according to the rules and procedures specified in TS 33.401 [27], subclause 6.1.1, 7.2.5.2, 7.2.6.1, and 7.2.6.3,

11.4.4 Method of test

11.4.4.1 Initial conditions

For this test an E-USS is required.

The E-USS transmits on one cell, with the following network parameters:

- TAI (MCC/MNC/TAC):246/081/0001.
- Access control: unrestricted.

The default E-UTRAN UICC is used.

11.4.4.2 Procedure

- a) The UE is switched on.
- b) After receipt of an *RRCConnectionRequest* from the UE the E-USS sends *RRCConnectionSetup* to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.

- c) The E-USS receives an AttachRequest (included in the RRCConnectionSetupComplete) from the UE,
- d) The E-USS initiates the EPS authentication and AKA procedure. The E-USS uses eKSI: '00'
- e) Afterwards the E-USS transmits a (NAS) *SecurityModeCommand* message to activate NAS security, and after receiving (NAS) *SecurityModeComplete* from the UE, the E-USS sends *AttachAccept* to the UE with:

TAI (MCC/MNC/TAC):246/081/0001

GUTI: "24608100010266345678"

- f) After receipt of the *AttachComplete* during registration from the UE, the E-USS sends *RRCConnectionRelease*, to the UE
- g) The E-USS sends Paging to the UE using the S-TMSI with CN domain indicator set to "PS'.
- h) After receipt of a *RRCConnectionRequest* message from the UE, the E-USS sends *RRCConnectionSetup* message to the UE, followed by *RRCConnectionSetupComplete* sent by the UE to the E-USS.
- i) The terminal sends *EMM Service Request* followed by the activation of AS security and the Dedicated EPS bearer
- j) After keeping the Dedicated EPS Bearer active for 5 seconds, the E-USS sends RRCConnectionRelease to the UE.

11.4.5 Acceptance criteria

- 1) After step a) the UE shall read EF_{UST} and EF_{EPSNSC} .
- 2) After step a) and before step d) the UE the ME shall mark the stored EPS NAS Security context on the USIM as invalid and therefore EF_{EPSNSC} shall contain the content as shown below.
- 3) During step d) the UE shall send the AuthenticationResponse message.
- 4) During step e) the UE shall send the (NAS) SecurityModeComplete message
- 5) After step f) the UE shall have entered idle mode.
- 6) After step i) the UE shall have a Dedicated EPS bearer established.
- 7) During steps d), e), f), g), h) i) and j) the UE shall not update EF_{EPSNSC}.

EF_{EPSNSC} (EPS NAS Security Context)

Logically: Key Set Identifier KSI_{ASME}: '07'

ASME Key (KSI_{ASME}): 32 byte key, all set to FF

Uplink NAS count: any value
Downlink NAS count: any value
Identifiers of selected NAS any value

integrity and encryption

algorithm

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	 	 Bxx
Hex	A0	XX	80	01	07	81	XX	XX	 	 XX

Annex A (informative): Change history

TSG#	TSG TD#	WG TD#	CR	Re v	Cat	Subject/Comment	Old	New
CT-28	CP-050139	C6-050394	068	-	В	Introduction of BCD number/ SSC content extension tests	-	6.0.0
CT-28	CP-050139	C6-050396	072	-	В	Introduction of ACL tests	-	6.0.0
CT-28	CP-050139	C6-050436	073	-	В	Introduction of SDN tests	-	6.0.0
CT-28	CP-050139	C6-050452	074	-	В	Introduction of phonebook selection/ local phonebook handling test	-	6.0.0
CT-29	CP-050325	C6-050658	080	-	Α	Incorrect PUK2 value used in TC 6.1.6	6.0.0	6.1.0
CT-29	CP-050325	C6-050711	880	-	Α	Incorrect value used for EF SMS in TC 8.2.2	6.0.0	6.1.0
CT-29	CP-050331	C6-050654	076	-	Α	Incorrect MCC value used in TC 7.4.1	6.0.0	6.1.0
CT-29	CP-050336	C6-050706	083	-	F	Clarification of BCD number/ SSC content extension tests	6.0.0	6.1.0
CT-29	CP-050336	C6-050700	081	-	F	Numbering and minor corrections	6.0.0	6.1.0
CT-30	CP-050494	C6-050853	090	-	F	CR to create combined R99 – Rel-6 version	6.1.0	6.2.0
CT-31	CP-060020	C6-060178	095	-	F	Essential correction of TC 7.2.1	6.2.0	6.3.0
CT-31	-	-	-	-	-	Update of Change History by TB Officer	6.3.0	6.3.1
CT-32	CP-060285	C6-060224	0096		F	Essential correction of acceptance criteria in 6.1.3.5 and 6.1.4.5	6.3.1	6.4.0
CT-32	CP-060286	C6-060231	0097	-	F	Essential corrections on ACL TC 9.1.1	6.3.1	6.4.0
CT-33	CP-060507	C6-060517	0098	1	F	Essential corrections on Applicability table	6.4.0	6.5.0
CT-34	CP-060543	C6-060792	0099	1	F	Essential corrections to 8.1.2	6.5.0	6.6.0
CT-34	CP-060543	C6-060793	0100	1	F	Essential correction of EF PLMNwACT coding	6.5.0	6.6.0
CT-35	CP-070064	C6-070098	0101	1	F	Essential correction of UICC presence detection test	6.6.0	6.7.0
CT-36	-	-	-	-	-	Update to Rel-7 version (MCC)	6.7.0	7.0.0
CT-37	CP-070617	C6-070368	0103	-	F	Essential correction of Location Area Information parameter in test 7.3	7.0.0	7.1.0
CT-37	CP-070617	C6-070369	0104	-	F	Essential correction of the applicability of tests 6.4.2, 6.4.3, 6.4.4	7.0.0	7.1.0
CT-38	CP-070846	C6-070526	0105	-	F	Essential correction on test case 7.1.2	7.1.0	7.2.0
CT-38	CP-070846	C6-070567	0106	1	C	Introduction of Rel-7 test case applicability	7.1.0	7.2.0
CT-38	CP-070846	C6-070568	0107	1	F	Essential correction of Location Updating Accept/ Attach Accept parameters in 7.1.1	7.1.0	7.2.0
CT-38	CP-070846	C6-070569	0108	1	F	Essential correction of network parameters and acceptance criteria in 7.4.1	7.1.0	7.2.0
CT-38	CP-070846	C6-070581	0109	1	F	Correction of reference to 3GPP TS 23.140	7.1.0	7.2.0
CT-39	CP-080171	C6-080017	0110	ı	F	Sequence indication error in 7.1.2.4.2 fixed after wrong implementation of CR 0105	7.2.0	7.3.0
CT-39	CP-080171	C6-080065	0111	1	F	Essential correction to Access Class Barred IE coding in tables 5-1a and 5-1b	7.2.0	7.3.0
CT-40	CP-080387	C6-080103	0112	-	F	Essential correction to network simulator configuration in test 5.2.1	7.3.0	7.4.0
CT-40	CP-080387	C6-080104	0113	-	F	Essential correction to test 7.3.1	7.3.0	7.4.0
CT-40	CP-080387	C6-080167	0114	1	F	Essential correction of the test case applicability for terminals not supporting speech calls	7.3.0	7.4.0
CT-41	CP-080587	C6-080240	0115	-	F	Essential correction of TC 8.4 applicability	7.4.0	7.5.0
CT-42			-	-	-	Upgrade to copyright, keywords and logo for LTE	7.5.0	8.0.0
CT-43	CP-090458	C6-090177	0116	1	В	Definition of LTE™ tests	8.0.0	8.1.0
CT-43	CP-090458	C6-090132	0118	-	В	Definition of clause 7.2, 7.3 and 7.4 LTE™ tests	8.0.0	8.1.0
CT-43	CP-090458	C6-090179	0119	1	F	Clarification of class 2 SMS test	8.0.0	8.1.0
CT-43	CP-090458	C6-090187	0120	2	F	Clarification of PIN MMI string test	8.0.0	8.1.0
CT-45	CP-090717	<u>C6-090234</u>	0121	1	В	Definition of CSG related test cases for E-UTRA	8.1.0	8.2.0
CT-45	CP-090717	<u>C6-090320</u>	0122	1	В	Definition of EPS NAS Security Context cases for E- UTRA/EPC	8.1.0	8.2.0
CT-45	CP-090717	<u>C6-090208</u>	0123		F	Essential correction of test 6.1.12	8.1.0	8.2.0
CT-45	CP-090717	<u>C6-090322</u>	0124	1	F	Correction of tests 7.4.2 and 7.4.4	8.1.0	8.2.0
CT-45	CP-090717	<u>C6-090321</u>	0126	1	В	Definition of CSG related test cases for E-UTRA, Part 2	8.1.0	8.2.0
CT-45	CP-090717	<u>C6-090236</u>	0127		F	Essential corrections on LTE related test cases	8.1.0	8.2.0
CT-46	CP-090997	<u>C6-090405</u>	0130	4	F	Correction of EF UST in clause 4.4.1	8.2.0	8.3.0
CT-46	CP-090998	<u>C6-090463</u>	0133	1	F	Editorial correction of the naming of RRCConnectionRequest	8.2.0	8.3.0
CT-46	CP-090998	<u>C6-090484</u>	0131	3	F	Definition of the UICC presence detection test when connected to E-UTRAN/EPC	8.2.0	8.3.0
CT-46	CP-090998	<u>C6-090485</u>	0132	3	F	Definition of ACL related test cases for E-UTRA	8.2.0	8.3.0

CT-46 CP-090998 C0:80399 0136 F Update of CSI Ist tests 8.2.0 8.3.0 CT-47 CP-100193 CE-100071 0139 J D Editorial modifications about missing section numbers 9.0.0 9.1.0 CT-48 CP-100394 C8-100211 0141 F Introduction in Rel'9 applicability and applicability table 9.0.0 9.1.0 CT-48 CP-100394 C8-100236 0140 1 F Essential corrections on the initial conditions of E- 9.1.0 9.2.0 CT-48 CP-100394 C8-100276 0144 F Essential corrections on the initial conditions of E- 9.1.0 9.2.0 CT-48 CP-100394 C8-100279 0144 F Essential corrections on the initial conditions of E- 9.1.0 9.2.0 CT-49 CP-100394 C8-100312 0147 1 F Essential corrections on the UTRAN / EPC related test 9.3.0 CT-49 CP-100398 C8-100312 0147 1 F Essential corrections on E-UTRAN / EPC related test 9.2.0 9.3.0							I		
CT-47 CP-100394 CB-100279 0139 1 D Editorial modifications about missing section numbers 9,0.0 9,1.0 CT-48 CP-100394 CB-100211 0141 F Essential corrections Essential corrections F CT-48 CP-100394 CB-100256 0140 1 F Essential correction to Unblock Universal PIN value 9,1.0 9,2.0 CT-48 CP-100394 CB-100256 0140 1 F Essential correction to applicability table 9,0.0 9,1.0 9,2.0 CT-48 CP-100394 CB-100279 0144 1 F Essential correction to applicability table 9,1.0 9,2.0 CT-48 CP-100394 CB-100279 0144 F Essential corrections on the initial conditions of E 9,1.0 9,2.0 CT-48 CP-100589 CB-100313 0147 1 F Essential corrections on the initial conditions of E 9,1.0 9,2.0 CT-48 CP-100589 CB-100313 0147 1 F Addition of CSG Type and Home NodeB Name display 9,2.0 9,3.0 CT-49 CP-100589 CB-100332 0145 1 F Essential corrections on E-UTRAN-/EPC related test 9,2.0 9,3.0 CT-49 CP-100592 CB-100392 0145 1 F Essential corrections on E-UTRAN-/EPC related test 9,2.0 9,3.0 CT-49 CP-100331 CB-100392 0145 1 F Essential corrections on E-UTRAN-/EPC related test 9,2.0 9,3.0 CT-50 CP-100331 CB-100392 0145 1 F Correction of incorrect Expected IMSI value in TC 5.1.8 9,3.0 9,4.0 CT-50 CP-100331 CB-100392 0148 1 F Essential corrections on E-UTRAN-/EPC related test 9,3.0 9,4.0 CT-50 CP-100331 CB-100392 0148 1 F Correction of incorrect Expected IMSI value in TC 5.1.8 9,3.0 9,4.0 CT-50 CP-100331 CB-100392 0148 1 B Correction of incorrect Expected IMSI value in TC 5.1.8 9,3.0 9,4.0 CT-50 CP-100332 CB-100392 0148 1 B Correction of incorrect Expected IMSI value in TC 5.1.8 9,3.0 9,4.0 CT-50 CP-100380 CB-100392 0148 1 B Correction of incorrect Expected IMSI value in TC 5.1.8 9,3.0 9,4.0 CT-50 CP-100382 CB-100392 0148 1 B Correction of Imsi Value		CP-090998	<u>C6-090499</u>	0135		-			
CT-48	CT-46	-	-	-	-	-		8.3.0	9.0.0
CT-48 CP-100394 C6-100211 O141 F Essential corrections of Unblock Universal PIN value 9.1.0 9.2.0	CT-47	CP-100195	C6-100071	0139	1	D		9.0.0	9.1.0
CT-48	CT-47	CP-100193	C6-100029	0137	-	F	Introduction of Rel-9 applicability and applicability table	9.0.0	9.1.0
CT-48 CP-100394 C8-100256 0140 1 F Essential corrections on the initial conditions of E- 9.1.0 9.2.0							corrections		
CT-48 CP-100394 C8-100256 0140 1 F Essential corrections on the initial conditions of E- 9.1.0 9.2.0	CT-48	CP-100394	C6-100211	0141		F	Essential correction of Unblock Universal PIN value	9.1.0	9.2.0
CT-48									
CT-48	CT-48	CP-100394	C6-100256	0140	1	F		910	920
CT-48 CP-100394 C8-100272 0144 F Correction of inconsistent terminology for E-UTRAN- 9.1.0 9.2.0 9.3.0									
CT-48	01-40	01 -100394	<u>CO-100270</u>	0143	'	'		9.1.0	3.2.0
related elements	CT 40	CD 100204	C6 100270	0144				0.1.0	0.2.0
CT-49	C1-40	CF-100394	<u>C6-100279</u>	0144		Г		9.1.0	9.2.0
CT-49 CP-100590 C6-100376 D146 F Essential corrections on E-UTRAN/EPC related test cases S-20 S-30 CT-50 CP-100691 C6-100597 D150 D150 F Correction of incorrect Expected IMSI value in TC-5.1.8 S-30 S-40 S-20 S-40 S	07.10	00 100 00	00.400440	211=		_			
CT-49	C1-49	CP-100589	<u>C6-100413</u>	0147	1	F	, , ,	9.2.0	9.3.0
CT-49 CP-100592 C6-100392 O146 T F Update of references 9.20 9.30									
CT-50 CP-100831 C6-100392 O146 1 F Update of references 9.2.0 9.3.0 9.4.0 CT-50 CP-100831 C6-100597 O150 1 F Correction of incorrect Expected IMSI value in TC 5.1.8 9.3.0 9.4.0 9.5.0 9.5.0	CT-49	CP-100590	<u>C6-100376</u>	0146	1	F		9.2.0	9.3.0
CT-50 CP-100831 CS-100597 O150 1 F Correction of incorrect Expected IMSI value in TC 5.1.8 9.3.0 9.4.0 acceptance criteria CT-50 CP-100831 CS-100604 O151 1 F Addition of LTE-related services to EF_UST in LTE test 9.3.0 9.4.0 acceptance criteria CP-100830 CS-100620 O148 1 B Definition of E-UTRAN/EPC ISIM-UICC for ISIM related 9.3.0 9.4.0 excess CT-50 CP-100830 CS-100620 O148 1 B Definition of E-UTRAN/EPC ISIM-UICC for ISIM related 9.3.0 9.4.0 9.5.0 CT-51 CP-110284 CS-110115 O154 7 B Introduction of ISIM and the USIM and SM memory capacity exceeded handling support O158 O									
CT-50 CP-100831 CE-100604 O151 1 F Addition of LTE-related services to EF_UST in LTE test cases CT-50 CP-100830 CE-100620 O148 1 B Definition of LTE-related services to EF_UST in LTE test cases CT-51 CP-110264 CE-110196 O153 3 C Split of test 8.2.1 for independent verification of correct O150 CT-51 CP-110232 CE-110115 O154 7 B Introduction of ISIM related SMS reading support O150	CT-49	CP-100592	<u>C6-100392</u>	0145	1	F		9.2.0	9.3.0
CT-50 CP-100831 CS-100604 O151 1 F Addition of LTE-related services to EF_UST in LTE test 9.3.0 9.4.0 cases cases cases CT-50 CP-100830 CS-100620 O148 1 B Definition of E-UTRANCE/C ISIM-UICC for ISIM related 9.3.0 9.4.0 esting CT-51 CP-110264 CS-110196 O153 3 C Split of test 8.2.1 for independent verification of correct O158 Cases CS-101015 O158	CT-50	CP-100831	C6-100597	0150	1	F	Correction of incorrect Expected IMSI value in TC 5.1.8	9.3.0	9.4.0
CT-50 CP-10830 CF-10820 CF-10196 CF-10830 CF-10196 CF-10830 CF-10830 CF-10840 CF-108400 CF-10840 CF-108400 CF-10840 CF-108400 CF-108400 CF-108400 CF-108400 CF-108							acceptance criteria		
CT-50 CP-10830 CF-10820 CF-10196 CF-10830 CF-10196 CF-10830 CF-10830 CF-10840 CF-108400 CF-10840 CF-108400 CF-10840 CF-108400 CF-108400 CF-108400 CF-108400 CF-108	CT-50	CP-100831	C6-100604	0151	1	F	Addition of LTE-related services to EF_UST in LTE test	9.3.0	9.4.0
CT-51 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110266 CP-11026					-				
CT-51 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110264 CP-110266 CP-11026	CT-50	CP-100830	C6-100620	0148	1	B		930	940
CT-51 CP-110264 C6-110196 0153 3 C Split of test 8.2.1 for independent verification of correct 9.4.0 9.5.0 C1ses 2 SM storage on the USIM and SM memory Capacity exceeded handling support 9.4.0 9.5.0 CT-51 CP-110232 C6-110116 0155 B Introduction of ISIM related SMS tests 9.4.0 9.5.0 CT-51 CP-110264 C6-110197 0156 1 F Essential correction on TC 5.1.10 9.4.0 9.5.0 CT-52 CP-110264 C6-110197 0156 1 F Essential correction on TC 5.1.10 9.4.0 9.5.0 CT-52 CP-110502 C6-110268 0158 1 F Essential correction on TC 5.1.10 9.4.0 9.5.0 CT-52 CP-110502 C6-110266 0158 1 F Essential correction on TC 5.1.10 01.0.0 10.1.0 configuration of a EUTRAN/PEC ISIM UICC CT-52 CP-110718 C6-110372 0161 2 F Essential correction of test 11.1 regarding EF EPSNSC 10.0.0 10.1.0 configuration of a EUTRAN/PEC ISIM UICC CT-53 CP-110718 C6-110372 0162 1 F Essential correction of test 5.2.2 10.1.0 10.2.0 CT-54 CP-110903 C6-110543 0163 1 F Essential correction of test 5.2.2 10.2.1 10.3.0 applicability CT-54 CP-110903 C6-110543 0163 1 F Essential correction of the phonebook and MMS tests 10.2.1 10.3.0 applicability CT-55 CP-120190 C6-120264 0168 1 F Essential correction of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/PEC CT-56 CP-120390 C6-120244 0168 1 F Essential correction of test 8.2.3 for terminals with large SMS storage capabilities CT-56 CP-120391 C6-120228 0167 F Essential correction on TC 11.2 10.3.0 10.4.0 10.5.0 CT-56 CP-120874 C6-120594 0172 1 F Essential correction on TC 11.2 10.3.0 10.4.0 10.5.0 CT-56 CP-120874 C6-120595 0173 1 F Essential correction on TC 11.2 10.3.0 10.4.0 10.5.0 CT-56 CP-120874 C6-120595 0173 1 F Essential correction on TC 11.2 10.3.0 10.4.0 10.5.0 CT-56 CP-120] 3, 30	. 100000	00 100020	01-70	ı '			5.5.0	5.7.0
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terminals with large SMS storage capabilities	CT-54	CP-120150	C6-110583 C6-120065	0164	1	F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2	10.2.0 10.2.1 10.2.1 10.3.0	10.3.0
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SP-57	CT-54 CT-55 CT-56	CP-110903 CP-120150 CP-120390	C6-120065 C6-120214	0164 0165 0166	1	F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0	10.3.0 10.3.0 10.4.0 10.5.0
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CT-58 CP-120874 C6-120611 0170 3 F Change of ACL test sequence 11.0.0 11.1.0 CT-60 CP-130368 C6-130204 0174 7 B Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) 11.1.0 11.2.0 CT-60 CP-130368 C6-130203 0176 2 B Introduction of Allowed CSG Lists related TCs for UTRA (Rel-9) 11.1.0 11.2.0 CT-62 CP-130798 C6-130520 0179 F Removal of the unused applicability condition C030 11.2.0 11.3.0 CT-62 CP-130789 C6-130587 0180 3 B ntroduction of EPS NAS Security Context Storage test case 11.2.0 11.3.0 CT-62 CP-130798 C6-130570 0181 1 F Essential correction for Applicability table related to new CSG tests 11.2.0 11.3.0 CT-62 CP-130798 C6-130570 0181 1 F Essential correction for Applicability table related to new CSG tests 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0 <t< td=""><td>CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58</td><td>CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874</td><td>C6-120065 C6-120214 C6-120264 C6-120228 C6-120594</td><td>0164 0165 0166 0168 0167</td><td>1 1 1</td><td>F F F F</td><td>Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1</td><td>10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 10.0.0 11.0.0</td><td>10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0</td></t<>	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58	CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594	0164 0165 0166 0168 0167	1 1 1	F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 10.0.0 11.0.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0
CT-60 CP-130368 C6-130204 0174 7 B Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) 11.1.0 11.2.0 CT-60 CP-130368 C6-130203 0176 2 B Introduction of Allowed CSG Lists related TCs for UTRA (Rel-9) 11.1.0 11.2.0 CT-62 CP-130798 C6-130520 0179 F Removal of the unused applicability condition C030 11.2.0 11.3.0 CT-62 CP-130789 C6-130587 0180 3 B Introduction of EPS NAS Security Context Storage test case 11.2.0 11.3.0 CT-62 CP-130798 C6-130570 0181 1 F Essential correction for Applicability table related to new case 11.2.0 11.3.0 CT-63 CP-140170 C6-140014 0182 D Clarification of call types to be used inside test case 8.4. 11.3.0 11.4.0 CT-63 CP-140170 C6-140067 0183 1 F Corrections to test case 10.1.2, 10.1.4 and 10.1.5 11.3.0 11.4.0 CT-63 CP-140170 C6-140068<	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58	CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595	0164 0165 0166 0168 0167 0172 0173	1 1 1 1 1	F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 10.0.0 11.0.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0
CT-60	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58	CP-120150 CP-120390 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596	0164 0165 0166 0168 0167 0172 0173 0171	1 1 1 1 1 1	F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 11.0.0 11.0.0 11.0.0	10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0
CT-60 CP-130368 C6-130203 0176 2 B Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) 11.1.0 11.2.0 CT-62 CP-130798 C6-130520 0179 F Removal of the unused applicability condition C030 11.2.0 11.3.0 CT-62 CP-130789 C6-130587 0180 3 B ntroduction of EPS NAS Security Context Storage test case 11.2.0 11.3.0 CT-62 CP-130798 C6-130570 0181 1 F Essential correction for Applicability table related to new CSG tests 11.2.0 11.3.0 CT-63 CP-140170 C6-140014 0182 D Clarification of call types to be used inside test case 8.4. 11.3.0 11.4.0 CT-63 CP-140170 C6-140067 0183 1 F Corrections to test case 10.1.2, 10.1.4 and 10.1.5 11.3.0 11.4.0 CT-63 CP-140170 C6-140100 0186 1 F Corrections to the applicabilities of CSG test cases 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-58	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611	0164 0165 0166 0168 0167 0172 0173 0171 0170	1 1 1 1 1 3	F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.0.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0
CT-62	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-58	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611	0164 0165 0166 0168 0167 0172 0173 0171 0170	1 1 1 1 1 3	F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.0.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0
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CT-62 CP-130789 C6-130587 0180 3 B Introduction of EPS NAS Security Context Storage test case 11.2.0 11.3.0 CT-62 CP-130798 C6-130570 0181 1 F Essential correction for Applicability table related to new CSG tests 11.2.0 11.3.0 CT-63 CP-140170 C6-140014 0182 D Clarification of call types to be used inside test case 8.4. 11.3.0 11.4.0 CT-63 CP-140170 C6-140067 0183 1 F Corrections to test case 10.1.2, 10.1.4 and 10.1.5 11.3.0 11.4.0 CT-63 CP-140170 C6-140100 0186 1 F Corrections to the applicabilities of CSG test cases 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1 F Corrections to test case 10.1.8 and 10.2.2 11.3.0 11.4.0 CT-63 CP-140170 C6-140099 0185 1 F Corrections to test case 10.2.1, 10.2.2 and 10.2.3 11.3.0 11.4.0 CT-65 CP-140706 C6-140424 0187 F	CT-54 CT-55 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-58 CT-60	CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-130368	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204	0164 0165 0166 0167 0172 0173 0171 0170 0174	1 1 1 1 1 3 7	F F F F F B	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.0.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0 11.2.0
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CT-62 CP-140170 C6-140014 0182 D Clarification of call types to be used inside test case 8.4. 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1 F Corrections to test case 10.1.2, 10.1.4 and 10.1.5 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1 F Corrections to test case 10.1.8 and 10.2.2 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1 F Corrections to test case 10.1.8 and 10.2.2 11.3.0 11.4.0 CT-63 CP-140170 C6-140099 0185 1 F Corrections to test case 10.2.1, 10.2.2 and 10.2.3 11.3.0 11.4.0 CT-65 CP-140706 C6-140424 0187 F Correction to the text description of default value in EFOPLMNwAcT CT-65 CP-140706 C6-140431 0190 F Corrections to the test sequence of TC 6.4.3 and 6.4.4 11.4.0 11.5.0 SP-65 Automatic upgrade to Rel-11 11.5.0 12.0.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60	CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-130368 CP-130368	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203	0164 0165 0166 0168 0167 0172 0173 0171 0170 0174	1 1 1 1 1 3 7	F F F F F F F B	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.1.0 11.1.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0 11.2.0
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CT-63 CP-140170 C6-140014 0182 D Clarification of call types to be used inside test case 8.4. 11.3.0 11.4.0 CT-63 CP-140170 C6-140067 0183 1 F Corrections to test case 10.1.2, 10.1.4 and 10.1.5 11.3.0 11.4.0 CT-63 CP-140170 C6-140100 0186 1 F Corrections to the applicabilities of CSG test cases 11.3.0 11.4.0 CT-63 CP-140170 C6-140068 0184 1 F Corrections to test case 10.1.8 and 10.2.2 11.3.0 11.4.0 CT-63 CP-140170 C6-140099 0185 1 F Corrections to test case 10.2.1, 10.2.2 and 10.2.3 11.3.0 11.4.0 CT-65 CP-140706 C6-140424 0187 F Corrections to the text description of default value in EFOPLMNwAcT 11.4.0 11.5.0 CT-65 CP-140706 C6-140431 0190 F Corrections to the test sequence of TC 6.4.3 and 6.4.4 11.4.0 11.5.0 SP-65 Automatic upgrade to Rel-11 11.5.0 12.0.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60	CP-110903 CP-120150 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130368 CP-130798 CP-130789	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130520 C6-130587	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0179 0180	1 1 1 1 3 7 2 3	F F F F F F B B	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.1.0 11.1.0 11.1.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0
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EFOPLMNwAcT EFOPLMNwAcT CT-65 CP-140706 C6-140431 0190 F Corrections to the test sequence of TC 6.4.3 and 6.4.4 11.4.0 11.5.0 SP-65 Automatic upgrade to Rel-11 11.5.0 12.0.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60 CT-62 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63	CP-110903 CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130768 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130520 C6-130587 C6-130570 C6-140014 C6-140067 C6-140068	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B C F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.1.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0
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CT-65 CP-140706 C6-140431 0190 F Corrections to the test sequence of TC 6.4.3 and 6.4.4 11.4.0 11.5.0 SP-65 Automatic upgrade to Rel-11 11.5.0 12.0.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63 CT-63	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130368 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130587 C6-130570 C6-140014 C6-140067 C6-140068 C6-140099	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184 0185	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B F F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2 Corrections to test case 10.2.1, 10.2.2 and 10.2.3	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.1.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0 11.4.0
SP-65 Automatic upgrade to Rel-11 11.5.0 12.0.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63 CT-63	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130368 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130587 C6-130570 C6-140014 C6-140067 C6-140068 C6-140099	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184 0185	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B F F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2 Corrections to test case 10.2.1, 10.2.2 and 10.2.3 Correction to the text description of default value in	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.0.0 11.0.0 11.0.0 11.0.0 11.1.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0 11.4.0
	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-62 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63 CT-63 CT-63 CT-65	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130798 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130520 C6-130587 C6-130570 C6-140007 C6-140007 C6-140008 C6-140099 C6-140424	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184 0185 0187	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B F F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2 Corrections to test case 10.2.1, 10.2.2 and 10.2.3 Correction to the text description of default value in EFOPLMNwAcT	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 11.0.0 11.0.0 11.0.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0 11.3.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0 11.4.0 11.5.0
C1-00 CF-140902 C0-140034 V192 F Detault GUTI correction 12.0.0 12.1.0	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-60 CT-62 CT-62 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63 CT-63 CT-65 CT-65	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130798 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130520 C6-130587 C6-130570 C6-140007 C6-140007 C6-140008 C6-140099 C6-140424	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184 0185 0187	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B F F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2 Corrections to test case 10.2.1, 10.2.2 and 10.2.3 Corrections to the text description of default value in EFOPLMNwAcT Corrections to the test sequence of TC 6.4.3 and 6.4.4	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 11.0.0 11.0.0 11.0.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0 11.4.0	10.3.0 10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0 11.2.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0 11.4.0 11.5.0
	CT-54 CT-55 CT-56 CT-56 CT-56 SP-57 CT-58 CT-58 CT-58 CT-60 CT-60 CT-62 CT-62 CT-62 CT-62 CT-62 CT-63 CT-63 CT-63 CT-63 CT-63 CT-65 SP-65	CP-120150 CP-120390 CP-120390 CP-120391 CP-120874 CP-120874 CP-120874 CP-120874 CP-130368 CP-130368 CP-130798 CP-130798 CP-140170 CP-140170 CP-140170 CP-140170 CP-140170 CP-140706 CP-140706	C6-120065 C6-120214 C6-120264 C6-120228 C6-120594 C6-120595 C6-120596 C6-120611 C6-130204 C6-130203 C6-130520 C6-130587 C6-130570 C6-140014 C6-140067 C6-140068 C6-140099 C6-140424 C6-140431	0164 0165 0166 0167 0172 0173 0171 0170 0174 0176 0180 0181 0182 0183 0186 0184 0185 0190	1 1 1 1 3 7 2 3 1 1 1 1	F F F F B B F F F F F F F F F F F F F F	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC) Essential correction of 5.2.2 Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN Automatic upgrade to Rel-11 Essential correction on TC 11.1 Essential correction on TC 11.2 Essential correction on the applicability for TC 5.2.2 Change of ACL test sequence Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9) Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8) Removal of the unused applicability condition C030 ntroduction of EPS NAS Security Context Storage test case Essential correction for Applicability table related to new CSG tests Clarification of call types to be used inside test case 8.4. Corrections to test case 10.1.2, 10.1.4 and 10.1.5 Corrections to test case 10.1.8 and 10.2.2 Corrections to test case 10.2.1, 10.2.2 and 10.2.3 Corrections to the text description of default value in EFOPLMNWACT Corrections to the test sequence of TC 6.4.3 and 6.4.4 Automatic upgrade to Rel-11	10.2.0 10.2.1 10.2.1 10.3.0 10.4.0 10.4.0 10.4.0 11.0.0 11.0.0 11.0.0 11.1.0 11.2.0 11.2.0 11.3.0 11.3.0 11.3.0 11.3.0 11.4.0 11.4.0	10.3.0 10.4.0 10.5.0 10.5.0 11.0.0 11.1.0 11.1.0 11.1.0 11.3.0 11.3.0 11.4.0 11.4.0 11.4.0 11.4.0 11.5.0 11.5.0 12.0.0

CT-66	CP-140962	C6-140704	0191	1	F	Removal of TC 9.1.5	12.0.0	12.1.0
CT-66	CP-140962	C6-140732	0188	2	F	Update of references to ETSI TS 102 221 and addition of Rel-12 applicability	12.0.0	12.1.0
CT-67	CP-150161	C6-150030	0194		F	Corrections to test case 7.1.1	12.1.0	12.2.0
CT-67	CP-150160	C6-150032	0196		F	Corrections to test case 7.1.6 and 10.2.3	12.1.0	12.2.0
CT-67	CP-150161	C6-150073	0197	1	F	Corrections to test case 8.2.4	12.1.0	12.2.0
CT-67	CP-150161	C6-150074	0195	1	F	Corrections to test case 7.1.3, 7.2.2, 7.2.3, 7.3.1, 7.3.2, 7.4.1 and 7.4.2	12.1.0	12.2.0
CT-67	CP-150161	C6-150076	0198	2	F	Essential correction on EFEPSNSC (EPS NAS Security Context) defined for E-UTRAN/EPC UICC	12.1.0	12.2.0

History

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