
GSM Fax & Data Services

Test Specification

ACI

Author: Condat AG
Alt-Moabit 90a
D-10559 Berlin
Germany

Date: 13. Dezember 2002
Document No.: 8411.417.02.102
File: ACI.DOC

0 Table of Contents

0	Table of Contents	2
1	Document Control	8
1.1	Document History	8
1.2	References	9
1.3	Abbreviations.....	12
1.4	Terms.....	14
2	Overview	15
2.1	RA - Rate Adaptation	15
2.2	RLP - Radio Link Protocol	15
2.3	L2R - Layer 2 Relay Functionality	15
2.4	FAD 03.45 - Fax Adaptation Protocol.....	16
2.5	T.30 - Fax Protocol Entity	16
2.6	ACI - AT Command Interpreter.....	16
2.7	USART - Universal Synchronous Asynchronous Receiver Transmitter Driver	16
3	Parameters	17
4	TEST CASES	75
4.1	Routing (internal) (ACI001 - ACI010)	75
4.1.1	ACI001: Setup the Routing and the PCO view for the ACI test, and set ACI to transparent mode	75
4.2	Initialisation (ACI011 - ACI020)	76
4.2.1	ACI010: Set error message format.....	76
4.2.2	ACI011: Power On	76
4.2.3	ACI012: Power Off.....	77
4.3	SIM Detection (ACI021 - ACI030)	78
4.3.1	ACI021: no SIM inserted.....	78
4.3.2	ACI022: SIM card blocked	79
4.3.3	ACI023: PIN required.....	80
4.3.4	ACI024: PIN not required	81
4.3.5	ACI025: erroneous PIN entry	82
4.3.6	ACI026: SIM blocked, due to invalid PIN entry	83
4.3.7	ACI027: SIM removed/inserted.....	84
4.3.8	ACI028: PIN required (not entered).....	86
4.3.9	ACI029: PIN not required (SIM: read SDN but no ECC and no CC control)	86
4.3.10	ACI030: correct PIN entry (no ECC read from SIM)	90
4.4	Network Registration (ACI031 - ACI040)	91
4.4.1	ACI031: service available	91
4.4.2	ACI032: limited service available.....	93
4.4.3	ACI033: no service available	94
4.5	Voice Call Management (ACI050-ACI069)	95
4.5.1	ACI050: Single Voice Call variant G fails: needs CPHS	95
4.5.2	ACI051: Second Single Voice Call variant E fails: needs CPHS.....	98
4.5.3	ACI052: Third Single Voice Call.....	101
4.5.4	ACI054: Voice Call with no answer by Subscriber, no in-band tones.....	102
4.5.5	ACI055: Voice Call with no answer by Subscriber, with in-band tones no reaction by user	105
4.5.6	ACI056: Voice Call with no answer by Subscriber, with in-band tones release by user	107
4.5.7	ACI057: Call Termination without in-band tones.....	110
4.5.8	ACI058: Call Termination with in-band tones.....	111
4.5.9	ACI059: Call Termination with in-band tones, no reaction by user	112
4.5.10	ACI060: Voice Call with no answer by Subscriber, release by user prior to TCH assignment.....	113
4.5.11	ACI061: Second Single Voice Call, Hold of First Calls Fails	116
4.5.12	ACI062: Single Voice Call, % CPI activated.....	118
4.6	Registration (ACI080-ACI089)	122

4.6.1	ACI080: Net Search.....	122
4.6.2	ACI081: Full Service, Auto, PIN entered.....	123
4.6.3	ACI082: Full Service, Auto, PIN entered, Registration Successful.....	125
4.6.4	ACI085: Full Service, Auto, no PIN entered.....	126
4.6.5	ACI086: Full Service, Auto, no PIN entered, Registration Successful.....	128
4.6.6	ACI090: Full Service, Manual, PIN entered.....	129
4.6.7	ACI091: Full Service, Manual, PIN entered, Registration Successful.....	131
4.6.8	ACI095: Full Service, Auto, no PIN entered.....	132
4.6.9	ACI096: Full Service, Auto, no PIN entered, Registration Successful.....	134
4.6.10	ACI100: Full Service, Manual, PIN required.....	135
4.6.11	ACI105: Limited Service out of Full Service, Successful.....	137
4.6.12	ACI106: Limited Service out of Full Service, Unsuccessful.....	138
4.6.13	ACI107: Limited Service out of Limited Service, Successful.....	139
4.6.14	ACI108: No Service out of Limited Service, Successful.....	140
4.6.15	ACI110: Limited Service, PIN entered.....	141
4.6.16	ACI111: Limited Service, No PIN entered.....	143
4.6.17	ACI113: Change Registration Mode.....	144
4.6.18	ACI114: Query PIN Status, no SIM information.....	145
4.7	Multiparty call management (ACI0120-ACI133).....	146
4.7.1	ACI120: Build multiparty call.....	146
4.7.2	ACI121: Establish a new call while putting the multiparty on hold.....	147
4.7.3	ACI122: Place multiparty on hold.....	149
4.7.4	ACI123: Retrieve held multiparty.....	150
4.7.5	ACI124: Split multiparty.....	151
4.7.6	ACI125: Build multiparty call with timeout.....	152
4.7.7	ACI126: Toggle Held Multiparty and Active Call.....	153
4.7.8	ACI127: Toggle Active Multiparty and Held Call.....	154
4.7.9	ACI128: Place all active multiparty on hold and accept the waiting call.....	155
4.7.10	ACI129: Release active multiparty and accept the waiting call.....	157
4.7.11	ACI130: Release active multiparty and retrieve held call.....	159
4.8	Single Numbering Scheme (ACI0134-ACI134).....	161
4.8.1	ACI134: Change Single Numbering Scheme.....	161
4.9	ECT: Explicit Call Transfer (ACI135-ACI138).....	164
4.9.1	ACI135: Successful explicit call transfer.....	164
4.9.2	ACI136: TIME OUT: explicit call transfer.....	165
4.9.3	ACI137: Successful explicit call transfer (FTA 31.13.1.4).....	167
4.9.4	ACI138: Explicit call transfer: network answers with reject component (FTA 31.13.1.5).....	171
4.10	Fixed Dialling (ACI0139-ACI149).....	175
4.10.1	ACI139: Power On.....	175
4.10.2	ACI140: Enable FDN with PIN 2 Entry.....	177
4.10.3	ACI141: Enable FDN no PIN 2 needed.....	179
4.10.4	ACI142: Enable FDN with wrong PIN 2 Entry.....	181
4.10.5	ACI143: Single Voice Call with failed FDN Check.....	182
4.10.6	ACI144: Disable FDN no PIN 2 Entry.....	183
4.10.7	ACI145: Enable FDN with no PIN 2 Entry.....	184
4.11	Automatic Answer (ACI0150-ACI159).....	186
4.11.1	ACI150: Automatic Answer.....	186
4.11.2	ACI151: Automatic Answer enabled but manual answer performed.....	189
4.11.3	ACI152: Automatic Answer enabled but hang up by remote party.....	191
4.11.4	ACI153: Automatic Answer enabled but hang up by local party UDUB.....	192
4.11.5	ACI154: Automatic Answer enabled, call accepted and then aborted by local party.....	195
4.12	DTMF tone generation (ACI160-ACI165).....	197
4.12.1	ACI160: Send DTMF.....	197
4.12.2	ACI161: Send DTMF.....	200
4.12.3	ACI162: Send DTMF: FAILS: line edit problem ????	201
4.13	SIM data access (ACI170-ACI179).....	204

4.13.1	ACI170: Successful access of a SIM data field.....	204
4.13.2	ACI171: Successful access of a SIM data record	205
4.13.3	ACI172: Successful write of a SIM data field	206
4.13.4	ACI173: Successful write of a SIM data record.....	207
4.13.5	ACI174: Unsuccessful access to SIM data.....	208
4.13.6	ACI175: Get response from SIM	210
4.13.7	ACI176: Get status from SIM	211
4.14	Preferred PLMN list management (ACI180-ACI199).....	212
4.14.1	ACI180: Read Preferred PLMN list.....	212
4.14.2	ACI181: Delete Entry in Preferred PLMN list, list already read.....	215
4.14.3	ACI182: Delete Entry in Preferred PLMN list, read list first.....	217
4.14.4	ACI183: Write Entry in Preferred PLMN list, list already read	219
4.14.5	ACI184: Write Entry in Preferred PLMN list, read list first.....	221
4.14.6	ACI185: Write next free Entry in Preferred PLMN list, list already read	224
4.14.7	ACI186: Write Entry in Preferred PLMN list, read list first.....	226
4.14.8	ACI187: Test Number of Entries of Preferred PLMN list, list already read	228
4.14.9	ACI188: Test Number of Entries of Preferred PLMN list, read list first	228
4.14.10	ACI189: Read Preferred PLMN list, compact mode	229
4.14.11	ACI190: Delete Entry in Preferred PLMN list, list already read compact mode	231
4.14.12	ACI191: Delete Entry in Preferred PLMN list, read list first compact mode	233
4.14.13	ACI192: Insert Entry in Preferred PLMN list, list already read compact mode	236
4.14.14	ACI193: Insert Entry in Preferred PLMN list, read list first compact mode	238
4.14.15	ACI194: Append Entry to Preferred PLMN list, list already read compact mode.....	241
4.14.16	ACI195: Append Entry to Preferred PLMN list, read list first compact mode	243
4.14.17	ACI196: Change Entries of Preferred PLMN list, list already read compact mode	246
4.14.18	ACI197: Change Entries of Preferred PLMN list, read list first compact mode	248
4.14.19	ACI198: Insert Entry at first position in Preferred PLMN list, read list first compact mode	251
4.15	Emergency (ACI200-ACI209).....	255
4.15.1	ACI200: Emergency Call	255
4.15.2	ACI201: Emergency Call with FDN enabled	257
4.15.3	ACI202: Emergency Call (Test all ME emergency call numbers, SIM ok)	260
4.15.4	ACI203: Emergency Call (Test all ME emergency call numbers, no SIM).....	263
4.15.5	ACI204: Emergency Call (Test ME emergency call numbers (except 118, 119), SIM blocked)	267
4.15.6	ACI205: Emergency Call (Test all ME emergency call numbers (except 118,119), PIN required).....	270
4.15.7	ACI206: Emergency Call (Test all ME emergency call numbers (except 08), SIM has ECC numbers).....	273
4.15.8	ACI207: Emergency Call (Test all ME emergency call numbers, check with service numbers)	276
4.15.9	ACI208: No Emergency Call (Test number which begins as an emergency number, but continuous)	279
4.15.10	ACI214: No Emergency Call (Test 118,119 with SIM blocked).....	282
4.15.11	ACI215: No Emergency Call (Test 118,119 with PIN required).....	283
4.15.12	ACI216: No Emergency Call (Test 08 (USSD), SIM has emergency call numbers)	284
4.16	Call Modification (ACI060 – ACI069).....	286
4.16.1	ACI220: Release all held calls.....	286
4.16.2	ACI221: UDUB for a waiting call	287
4.16.3	ACI222: Release all active calls and accept held call.....	289
4.16.4	ACI223: Release all active calls and accept the waiting call	290
4.16.5	ACI224: Place all active calls on hold and accept a held call	292
4.16.6	ACI225: Place all active calls on hold and accept the waiting call.....	293
4.16.7	ACI226: Release a specific active call	295
4.16.8	ACI227: Single International Voice Call	295
4.16.9	ACI228: Place all active calls on hold and except call 1 with which communication should be supported	298
4.16.10	ACI229: Release all calls.....	299
4.17	Voice Call Management II (ACI250-ACI270).....	301
4.17.1	ACI250: Second Single Voice Call Disconnected by Remote Party	301
4.17.2	ACI251: Second Single Voice Call Disconnected by Remote Party	305
4.17.3	ACI252: Second Single Voice Call Disconnected by Remote Party with in-band tones	309
4.17.4	ACI253: Second Single Voice Call Disconnected by Remote Party	313

4.17.5	ACI254: Single Call Termination with atz Command	316
4.17.6	ACI255: Release all calls with ATZ Command	317
4.17.7	ACI256: Call Termination with in-band tones by using ATZ command	319
4.17.8	ACI257: Set parameter to default value	320
4.18	Ciphering Indicator Test Cases (ACI260-ACI270).....	321
4.18.1	ACI260: CI is disabled, test set command	321
4.18.2	ACI261: CI is disabled, test query command	322
4.18.3	ACI262: CI is disabled, test test command	323
4.18.4	ACI263: CI is enabled, test set and test command	324
4.18.5	ACI264: CI is enabled, test query command and ciphering indication	325
4.19	Call Completion to Busy Subscriber (ACI300-ACI349)	326
4.19.1	ACI300: Call Establishment Attempt to Busy User, CCBS indicated.	326
4.19.2	ACI301: Call release with CCBS possible, user rejects	328
4.19.3	ACI302: Call release with CCBS possible, timeout by the network.	329
4.19.4	ACI303: Call release with CCBS possible, user accepts	330
4.19.5	ACI304: Successful registration of CCBS.	331
4.19.6	ACI305: Unsuccessful registration of CCBS.	332
4.19.7	ACI306: CC prompts for TI	332
4.19.8	ACI307: Network stops recall attempt before the user indication	333
4.19.9	ACI308: CCBS recall	334
4.19.10	ACI309: User reject CCBS recall.....	335
4.19.11	ACI310: User does not respond to recall attempt within time.....	336
4.19.12	ACI311: User accepts CCBS recall	337
4.19.13	ACI312: User accepts CCBS recall, active has to be put on hold first.....	339
4.19.14	ACI313: User accepts CCBS recall, active has to be cleared first	341
4.20	Alternate Line Service Tests (ACI400-ACI410)	343
4.20.1	ACI400: set and query ALS	343
4.20.2	ACI401: Single Voice Call with ALS selection	344
4.20.3	ACI402: Second Voice Call with ALS selection.....	344
4.20.4	ACI403: ALS test test command.....	345
4.21	ALL 500 Tests: NOT TO BE TESTED YET !!!! CPHS (ACI500-ACI550)	346
4.21.1	ACI500: % CPHS - start & refresh, start reading fields.....	346
4.21.2	ACI501: % CPHS - start & refresh, continue with optional fields.....	348
4.21.3	ACI502: % CPHS - start & refresh, continue with optional fields, MBXN fields do not exist	355
4.21.4	ACI503: % CPHS - start & refresh, continue with optional fields.....	361
4.21.5	ACI504: % CPHS - Stop	365
4.21.6	ACI505: % CPHS - Query	366
4.21.7	ACI506: % CPHS - Test.....	367
4.21.8	ACI510: % CPOPEN - Query.....	368
4.21.9	ACI512: % CPROAM - Indication (for GSM)	369
4.21.10	ACI515: % CPVVM - Indication	370
4.21.11	ACI516: % CPVVM - Clear & Set.....	371
4.21.12	ACI517: % CPVVM - Query.....	373
4.21.13	ACI518: % CPVVM - Test.....	374
4.21.14	ACI519: % CPCFU - Clear & Set.....	375
4.21.15	ACI520: % CPCFU - Query	376
4.21.16	ACI521: % CPCFU - Test.....	377
4.21.17	ACI525: % CPALS - Query related to current call	378
4.21.18	ACI526: % CPALS - Query line related to call id	379
4.21.19	ACI527: % CPALS - Query current active line (no call)	380
4.21.20	ACI528: % CPALS - Test.....	381
4.21.21	ACI530: % CPINF - Query	381
4.21.22	ACI535: % CPMB - Test.....	382
4.21.23	ACI536: % CPMB - Query mailbox numbers.....	383
4.21.24	ACI537: % CPMB - Query empty mailbox numbers.....	384
4.21.25	ACI538: % CPMB - Query mailbox numbers, but no mailbox numbers cached	385

4.21.26	ACI540: % CPNUMS - Test.....	386
4.21.27	ACI541: % CPNUMS - explore elements.....	389
4.21.28	ACI542: % CPNUMS - explore elements.....	390
4.21.29	ACI543: % CPNUMS - query elements.....	391
4.21.30	ACI544: % CPNUMS - explore elements, but no elements cached.....	392
4.21.31	ACI550: % CPHS - start, SIM error for mandatory field SIM_CPHS_CCF.....	392
4.21.32	ACI551: % CPHS - start, SIM error for mandatory field SIM_CPHS_VMW.....	393
4.21.33	ACI552: % CPHS - start, SIM error for mandatory field SIM_CPHS_ONSTR.....	395
4.21.34	ACI553: % CPHS - start, SIM error for mandatory field SIM_CPHS_CINF.....	396
4.21.35	ACI555: % CPHS - start, SIM error for optional fields.....	397
4.21.36	ACI560: % CPVVM - failed Clear & Set due to SIM error.....	400
4.21.37	ACI561: % CPVVM - Query after failed set or failed clear.....	401
4.21.38	ACI562: % CPVVM - Clear, Set & Query after failed CPHS initialization.....	402
4.21.39	ACI564: % CPCFU - failed Clear & Set due to SIM error.....	403
4.21.40	ACI565: % CPCFU - Query after failed set or failed clear.....	404
4.21.41	ACI566: % CPCFU - Query after failed CPHS initialization.....	405
4.21.42	ACI567: % CPOPNI - Query after failed CPHS initialization.....	406
4.21.43	ACI568: % CPALS - Query after failed CPHS initialization.....	407
4.21.44	ACI569: % CPINF - Query after failed CPHS initialization.....	407
4.21.45	ACI570: % CPMB - Query after failed CPHS initialization.....	408
4.21.46	ACI571: % CPNUM - Query after failed CPHS initialization.....	409
4.22	Engineering Mode (ACI650-ACI670).....	410
4.22.1	ACI650: Infrastructure Data - Serving Cell.....	410
4.22.2	ACI651: Infrastructure Data - Neighbour Cell.....	411
4.22.3	ACI652: Infrastructure Data - Location and Paging Parameters.....	414
4.22.4	ACI653: Infrastructure Data - PLMN Parameters.....	415
4.22.5	ACI654: Infrastructure Data - Ciphering, Hopping and DTX Parameters.....	416
4.22.6	ACI655: Mobile Data - Power Parameters.....	417
4.22.7	ACI656: Mobile Data - Identity Parameters.....	419
4.22.8	ACI657: Mobile Data - SW-Version.....	420
4.22.9	ACI660: Event Trace - ALR.....	423
4.22.10	ACI661: Event Trace - DL.....	423
4.22.11	ACI662: Event Trace - RR.....	424
4.22.12	ACI663: Event Trace - MM.....	425
4.22.13	ACI668: Event Trace - RR & MM.....	426
4.23	SIM locking, ME personalisation (ACI680-ACI699).....	428
4.23.1	ACI680: ME (sub)network personalisation is on, IMSI of SIM is not matching #def SIMLOCK!!!.....	428
4.23.2	ACI681: ME provider / corporate personalisation is on, GID1/GID2 of SIM is not matching #def SIMLOCK!!!.....	429
4.23.3	ACI682: ME service personalisation is on, SIM is not supporting GID1 file #def SIMLOCK!!!.....	432
4.23.4	ACI683: ME corporate personalisation is on, SIM is not supporting the GID2 file #def SIMLOCK!!!.....	433
4.23.5	ACI684: ME SIM personalisation is on, SIM is not matching #def SIMLOCK!!!.....	435
4.23.6	ACI685: All Personalisations are switched on, SIM is matching.....	437
4.23.7	ACI686: ME network personalisation failed, correct PIN is entered #def SIMLOCK!!!.....	438
4.23.8	ACI687: ME network personalisation failed, wrong PIN entered three times. #def SIMLOCK!!!.....	439
4.23.9	ACI690: Disable personalisation with the correct nck.....	440
4.23.10	ACI691: Enable personalisation with the correct nck.....	442
4.23.11	ACI692: Disable personalisation with the incorrect nck.....	443
4.23.12	ACI693: Enable personalisation with the incorrect nck.....	444
4.23.13	ACI694: Disable personalisation with the incorrect nck 3 times [BLOCKED].....	445
4.24	diverse tests (ACI0900-ACI999).....	448
4.24.1	ACI901: Manual Registration out of PCM: 901A FAILS: probably pcm default problem.....	448
4.24.2	ACI927: LDN tests.....	448
4.25	Voice Mail Number Tests (ACI0933-ACI936).....	450
4.25.1	ACI933: Enable Voice Mail Number +CSVM=1,nbr,ton.....	450
4.25.2	ACI934: Query of Voice Mail Number +CSVM?.....	451
4.25.3	ACI935: Disable Voice Mail Number +CSVM=0.....	452

4.25.4	ACI936: Test of Voice Mail Number +CSVM=?	453
4.26	Preferred Language Tests (ACI0937-ACI941)	454
4.26.1	ACI937: Test of language Event +CLAE=?	454
4.26.2	ACI938: Enable/Disable the mode language Event +CLAE and query it.....	454
4.26.3	ACI939: Test of supported languages AT+CLAN=?.....	456
4.26.4	ACI940: set language +CLAN with result code enabled and query.....	457
4.26.5	ACI941: set language +CLAN with result code disabled and query.	458
4.26.6	ACI943: Enable the result code +CLAE, set automatic select language +CLAN and query	459
4.26.7	ACI944: Disable the result code +CLAE, set automatic select language +CLAN and query	460
4.26.8	ACI945: occur error of read EF ELP after set command +CLAN.....	461
4.26.9	ACI946: successful read of EF LP.....	462
4.26.10	ACI947: Unknown Error at read of EF LP.....	463
4.26.11	ACI948: occur error of read EF ELP after query command +CLAN	464
4.26.12	ACI949: successful read of EF LP after query command +CLAN.....	465
4.26.13	ACI950: default language is selected after fail read of EF LP.....	466
4.26.14	ACI951: Change Pin by SS string	467
4.26.15	ACI952: Change Pin by SS string, new PIN differs from verify new PIN.....	468
4.26.16	ACI955: +CNUM.....	470
4.26.17	ACI956: +CNUM, 2 MSISDN available	471
4.26.18	ACI957: +CNUM, 4 MSISDN available	472
4.26.19	ACI958: +CNUM, 2 MSISDN with CCP available: FAILS ! CCD can't decode ??.....	475
4.26.20	ACI959: +CNUM, 2 MSISDN with CCP available	477
4.26.21	ACI999: ATA without incoming call.....	479

1 Document Control

| Copyright Condat AG, 2002.

All rights reserved.

Every effort has been made to ensure that the information contained in this document is accurate at the time of printing. However, the software described in this document is subject to continuous development and improvement. Condat AG reserves the right to change the specification of the software. Information in this document is subject to change without notice and does not represent a commitment on the part of Condat AG. Condat AG accepts no liability for any loss or damage arising from the use of any information contained in this document.

The software described in this document is furnished under a licence agreement and may be used or copied only in accordance with the terms of the agreement. It is an offence to copy the software in any way except as specifically set out in the agreement. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose without the express written permission of Condat AG.

Condat AG
Alt Moabit 90a
10559 Berlin
Germany

Telephone: +49.30.3983-0
Fax: +49.30.3983-1300
Internet: <http://www.condat.de>
E-mail: gsm@condat.de

1.1 Document History

Document Id.	Date	Author	Remarks
8411.417.98.100	8 August 1998	AK	Initial
8411.417.02.101	25. April 2002	DPI	Testcases ACI024C, ACI403A and ACI403B added (test ALS)
8411.417.02.102	16. May 2002	OT	Testcases ACI662 was corrupted during integratin process. Changed wrong variable name (TON_UNKNOWN)
8411.417.02.103	23. Sep. 2002	MSB	Merge gprs_1.3.3 to g23m
8411.417.02.103	13.Dec. 2002	KGT	Testcases for CPHS

1.2 References

- [1] Rec. T.4 Standardisation of group 3 facsimile apparatus for document transmission; (CCITT-T.4, 1984)
- [2] ITU-T Recommendation T.30; Series T: Terminal equipments and protocols for telematic services; Procedures for document facsimile transmission in the general switched telephone network; (ITU-T.30, 1996)
- [3] ITU-T Recommendation T.31; Terminals for telematic services; Asynchronous facsimile DCE control - service class 1 (ITU-T.31, 1995)
- [4] ITU-T Recommendation T.32; Terminals for telematic services; Asynchronous facsimile DCE control - service class 2 (ITU-T.32, 1995)
- [5] Rec. T.35; Terminal equipment and protocols for telematic services; Procedures for the allocation of CCITT definite codes for non-standard facilities; (CCITT-T.35, 1991)
- [6] ITU-T Recommendation V.25 ter; Series V: data communication over the telephone network; Interfaces and voiceband modems; Serial asynchronous automatic dialling and control (ITU-T V.25 ter, 1997)
- [7] Rec. V.42 bis Data compression procedures for data circuit terminating equipment (DCE) using error correction procedures; (CCITT-V.42 bis, 1990)
- [8] Rec. V.110 (Blue book, Vol. VIII, Fascicle VIII.1) Support of data terminal equipments (DTEs) with V-series type interfaces by an integrated services digital network (ISDN); (CCITT-V.110, 1988)
- [9] European digital cellular telecommunications system (Phase 2); GSM Public Land Mobile Network (PLMN) connection types; (GSM 3.10, September 1994, version 4.3.1)
- [10] European digital cellular telecommunications system (Phase 2); Technical realisation of facsimile group 3 transparent; (GSM 3.45, September 1995, version 4.5.0)
- [11] Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification; (GSM 4.08, November 1996, version 4.17.0)
- [12] European digital cellular telecommunications system (Phase 2); Rate adaptation on the Mobile Station - Base Station System (MS - BSS) Interface; (GSM 4.21, May 1995, version 4.6.0)
- [13] European digital cellular telecommunications system (Phase 2); Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-service Switching Centre (BSS - MSC) interface (GSM 4.22, September 1994, version 4.3.0)
- [14] European digital cellular telecommunications system (Phase 2); Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-service Switching Centre (BSS - MSC) interface (Amendment prA1 for GSM 4.22, version 4.3.0) (GSM 4.22, March 1995, version 4.4.0)
- [15] European digital cellular telecommunications system (Phase 2); General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS); (GSM 7.01, December 1995, version 4.10.0)
- [16] European digital cellular telecommunications system (Phase 2); Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities; (GSM 7.02, September 1994, version 4.5.1)

- [17] European digital cellular telecommunications system (Phase 2);
Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities;
(GSM 7.03, September 1994, version 4.5.1)
- [18] Digital cellular telecommunications system (Phase 2);
Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS)
and Cell Broadcast Services (CBS);
(GSM 7.05, November 1996, version 4.8.0)
- [19] Digital cellular telecommunications system (Phase 2);
AT command set for GSM Mobile Equipment (ME)
(GSM 7.07, May 1996, version 4.1.0)
- [20] Digital cellular telecommunication system (Phase 2);
Mobile Station (MS) conformance specification;
Part 1: Conformance specification
(GSM 11.10-1, November 1996, version 4.17.0)
- [21] Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 2: Protocol Implementation Conformance Statement (PICS)
proforma specification
(GSM 11.10-2, May 1996, version 4.15.0)
- [22] Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 3: Layer 3 (L3) Abstract Test Suite (ATS)
(GSM 11.10-3, November 1996, version 4.17.0)
- [23] Proposal for Rate Adaptation implemented on a DSP;
(C. Bianconi, Texas Instruments, January 1998, version 1.0)
- [24] MCU-DSP Interfaces for Data Applications;
Specification S844
(C. Bianconi, Texas Instruments, March 1998, version 0.1)
- [25] Users Guide
6147.300.96.100; Condat AG
- [26] Service Access Point RA
8411.100.98.100; Condat AG
- [27] Service Access Point RLP
8411.101.98.100; Condat AG
- [28] Service Access Point L2R
8411.102.98.100; Condat AG
- [29] Service Access Point FAD
8411.103.98.100; Condat AG
- [30] Service Access Point T30
8411.104.98.100; Condat AG
- [31] Service Access Point ACI
8411.105.98.100; Condat AG
- [32] Message Sequence Charts RLP
8411.201.98.100; Condat AG
- [33] Message Sequence Charts L2R
8411.202.98.100; Condat AG
- [34] Message Sequence Charts FAD
8411.203.98.100; Condat AG
- [35] Message Sequence Charts T30
8411.204.98.100; Condat AG
- [36] Message Sequence Charts ACI
8411.205.98.100; Condat AG
- [37] Proposal for Fax & Data Integration; March 1998
8411.300.98.100; Condat AG
- [38] Test Specification RLP
8411.401.98.100; Condat AG

- [39] Test Specification L2R
8411.402.98.100; Condat AG
- [40] Test Specification FAD
8411.403.98.100; Condat AG
- [41] Test Specification T30
8411.404.98.100; Condat AG
- [42] Test Specification ACI
8411.405.98.100; Condat AG
- [43] SDL Specification RLP
8411.501.98.100; Condat AG
- [44] SDL Specification L2R
8411.502.98.100; Condat AG
- [45] SDL Specification FAD
8411.503.98.100; Condat AG
- [46] SDL Specification T30
8411.504.98.100; Condat AG
- [47] SDL Specification ACI
8411.505.98.100; Condat AG
- [48] Technical Documentation RLP
8411.701.98.100; Condat AG
- [49] Technical Documentation L2R
8411.702.98.100; Condat AG
- [50] Technical Documentation FAD
8411.703.98.100; Condat AG
- [51] Technical Documentation T30
8411.704.98.100; Condat AG
- [52] Technical Documentation ACI
8411.705.98.100; Condat AG

1.3 Abbreviations

ACI	AT Command Interpreter
AGCH	Access Grant Channel
AT	Attention sequence "AT" to indicate valid commands of the ACI
BCCH	Broadcast Control Channel
BCS	Binary Coded Signals
BS	Base Station
BSIC	Base Station Identification Code
C/R	Command/Response
C1	Path Loss Criterion
C2	Reselection Criterion
CBCH	Cell Broadcast Channel
CBQ	Cell Bar Qualify
CC	Call Control
CCCH	Common Control Channel
CCD	Condat Coder Decoder
CKSN	Ciphering Key Sequence Number
CRC	Cyclic Redundancy Check
DCCH	Dedicated Control Channel
DISC	Disconnect Frame
DL	Data Link Layer
DM	Disconnected Mode Frame
DTX	Discontinuous Transmission
EA	Extension Bit Address Field
EL	Extension Bit Length Field
EMMI	Electrical Man Machine Interface
EOL	End Of Line
F	Final Bit
F&D	Fax and Data Protocol Stack
FACCH	Fast Associated Control Channel
FHO	Forced Handover
GP	Guard Period
GSM	Global System for Mobile Communication
HDLC	High level Data Link Control
HISR	High level Interrupt Service Routine
HPLMN	Home Public Land Mobile Network
I	Information Frame
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
ITU	International Telecommunication Union
IWF	Interworking Function
Kc	Authentication Key
L	Length Indicator
LAI	Location Area Information
LISR	Low level Interrupt Service Routine
LPD	Link Protocol Discriminator
M	More Data Bit
MCC	Mobile Country Code

MM	Mobility Management
MMI	Man Machine Interface
MNC	Mobile Network Code
MS	Mobile Station
MSG	Message phase in the GSM 3.45 protocol
N®	Receive Number
N(S)	Send Number
NCC	National Colour Code
NECI	New Establishment Causes included
OTD	Observed Time Difference
P	Poll Bit
P/F	Poll/Final Bit
PCH	Paging Channel
PCO	Point of Control and Observation
PDU	Protocol Description Unit
PL	Physical Layer
PLMN	Public Land Mobile Network
RACH	Random Access Channel
REJ	Reject Frame
RNR	Receive Not Ready Frame
RR	Radio Resource Management
RR	Receive Ready Frame
RTD	Real Time Difference
RTOS	Real Time Operating System
SABM	Set Asynchronous Balanced Mode
SACCH	Slow Associated Control Channel
SAP	Service Access Point
SAPI	Service Access Point Identifier
SDCCH	Slow Dedicated Control Channel
SIM	Subscriber Identity Module
SMS	Short Message Service
SMSCB	Short Message Service Cell Broadcast
SS	Supplementary Services
T.4	CCITT Standardisation for Document coding of Group 3 Facsimile Apparatus
TAP	Test Application Program
TCH	Traffic Channel
TCH/F	Traffic Channel Full Rate
TCH/H	Traffic Channel Half Rate
TDMA	Time Division Multiple Access
TE	Terminal Equipment - e. g. a PC
TMSI	Temporary Mobile Subscriber Identity
UA	Unnumbered Acknowledgement Frame
UI	Unnumbered Information Frame
V(A)	Acknowledgement State Variable
V®	Receive State Variable
V(S)	Send State Variable
VPLMN	Visiting Public Land Mobile Network

1.4 Terms

Entity:	Program which executes the functions of a layer
Message:	A message is a data unit which is transferred between the entities of the same layer (peer-to-peer) of the mobile and infrastructure side. Message is used as a synonym to protocol data unit (PDU). A message may contain several information elements.
Primitive:	A primitive is a data unit which is transferred between layers on one component (mobile station or infrastructure). The primitive has an operation code which identifies the primitive and its parameters.
Service Access Point	A Service Access Point is a data interface between two layers on one component (mobile station or infrastructure).

2 Overview

The Protocol Stacks are used to define the functionality of the GSM protocols for interfaces. The GSM specifications are normative when used to describe the functionality of interfaces, but the stacks and the subdivision of protocol layers does not imply or restrict any implementation.

The protocol stack for fax and data transmission consists of several entities. Each entity has one or more service access points, over which the entity provides a service for the upper entity. The entity, which is described in this document, is coloured grey in the following figure :

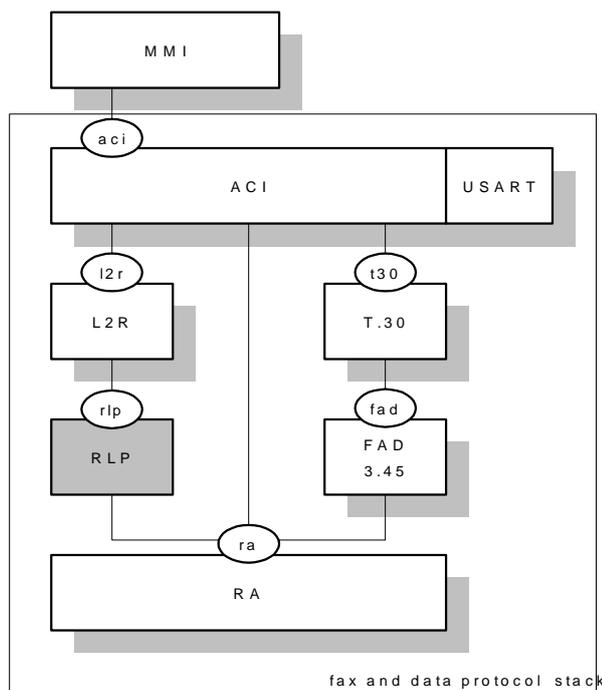


Figure 2-1: Architecture of the fax and data protocol stack

The information units passed via the SAPs are called primitives and consists of an operation code and several parameters. See the Users Guide for details.

The entities of the fax and data protocol stack are:

2.1 RA - Rate Adaptation

This entity performs an adaptation between an asynchronous or synchronous data stream with several bit rates on to the fixed bit rate used at the TCH. This is performed by the rate adaptation functions RA1' and RA0 described in GSM 04.21.

2.2 RLP - Radio Link Protocol

This entity provides a Layer 2 protocol for asynchronous reliable data transfer as specified in GSM 04.22. It includes error correction, sequence numbers and a mechanism for repeating corrupted and lost messages.

2.3 L2R - Layer 2 Relay Functionality

The L2R provides relay functions in order to adapt the character-oriented data received from the TE via USART to the bit-oriented RLP protocol.

2.4 FAD 03.45 - Fax Adaptation Protocol

The fax adaptation protocol, as specified in GSM 03.45, provides synchronisation with the BCS and MSG modems of the peer entity. It uses byte repetition in conjunction with a voting algorithm to handle corruption on the TCH data stream. The non-transparent fax protocol in accordance with GSM 03.46 is not part of this implementation.

The fax adapter enables T.30 to send BCS at 300 BPS and T.4 MSG in 2400, 4800, 7200 and 9600 BPS.

2.5 T.30 - Fax Protocol Entity

The protocol uses binary coded signals packed in HDLC frames to set up and release a connection in the message phase of the FAX transmission. This entity is specified in the ITU-T.30. The main tasks of this unit are:

- Building the HDLC frames with CRC.
- Performing bit stuffing/de-stuffing.
- Executing a sequence of 5 phases: 1.) set up, 2.) pre-message procedures, 3.) transmission/reception, 4.) post message procedures, 5.) waiting for call release.

2.6 ACI - AT Command Interpreter

The ACI is specified in GSM 07.07. It is responsible for call establishment via the GSM voice protocol stack and terminal adaptation for asynchronous transparent character-oriented data transmission. The ACI is able to receive AT commands and send the replies over the USART driver to a remote PC. This makes it possible to control the voice and data protocol stack from a remote application running on a PC. The ACI also provides a unique interface for an internal MMI in the MS.

2.7 USART - Universal Synchronous Asynchronous Receiver Transmitter Driver

The USART is a hardware component that facilitates a connection between the mobile station and terminal equipment (e.g. a PC). This interface uses some of the circuits described in V.24.

The data exchange provided by this unit is serial and asynchronous (synchronous communication is not in the scope of this document). A driver that uses interrupts to manage a circular buffer for the sending and receiving direction is necessary in order to use this component in the F&D. The driver has to be able to perform flow control.

3 Parameters

```
/* array declarations */
DECLARATION ( A_PIN_1234 )
DECLARATION ( A_PIN_4321 )
DECLARATION ( A_PIN_12534 )
DECLARATION ( A_CLG_NUM )
DECLARATION ( IMSI_E_PLUS )
DECLARATION ( IMSI_FIELD_DATA )
DECLARATION ( A_CLD_NUM )
DECLARATION ( A_CLG_EMERG112 )
DECLARATION ( A_CLG_EMERG000 )
DECLARATION ( A_CLG_EMERG08 )
DECLARATION ( A_CLG_EMERG110 )
DECLARATION ( A_CLG_EMERG118 )
DECLARATION ( A_CLG_EMERG119 )
DECLARATION ( A_CLG_EMERG911 )
DECLARATION ( A_CLG_EMERG999 )
DECLARATION ( A_CLG_NOEMERG999099 )
DECLARATION ( A_CLD_EMERG112 )
DECLARATION ( A_CLD_EMERG000 )
DECLARATION ( A_CLD_EMERG08 )
DECLARATION ( A_CLD_EMERG110 )
DECLARATION ( A_CLD_EMERG118 )
DECLARATION ( A_CLD_EMERG119 )
DECLARATION ( A_CLD_EMERG911 )
DECLARATION ( A_CLD_EMERG999 )
DECLARATION ( A_CLD_NOEMERG999099 )
DECLARATION ( A_CLD_NUM_INT )
DECLARATION ( A_FAC_AOC )
DECLARATION ( A_FAC_BUILD_MPTY )
DECLARATION ( A_FAC_BUILD_MPTY_CONTENT )
DECLARATION ( A_FAC_SPLIT_MPTY )
DECLARATION ( A_FAC_SPLIT_MPTY_CONTENT )
DECLARATION ( A_FAC_HOLD_MPTY )
DECLARATION ( A_FAC_HOLD_MPTY_CONTENT )
DECLARATION ( A_FAC_HOLD_MPTY_2 )
DECLARATION ( A_FAC_HOLD_MPTY_2_CONTENT )
DECLARATION ( A_FAC_RETRIEVE_MPTY )
DECLARATION ( A_FAC_RETRIEVE_MPTY_CONTENT )
DECLARATION ( A_FAC_ECT )
DECLARATION ( A_FAC_ECT_2 )
DECLARATION ( A_FAC_ECT_CONTENT )
DECLARATION ( A_FAC_ECT_CONTENT_2 )
DECLARATION ( A_FAC_CCBS )
DECLARATION ( A_FAC_CCBS_CONTENT )
DECLARATION ( A_FAC_NTFY_CCBS )
DECLARATION ( A_FAC_NTFY_CCBS_CONTENT )
DECLARATION ( A_FAC_EMPTY )
DECLARATION ( A_FAC_BUILD_MPTY_RES )
DECLARATION ( A_FAC_BUILD_MPTY_RES_CONTENT )
DECLARATION ( A_FAC_SPLIT_MPTY_RES )
DECLARATION ( A_FAC_SPLIT_MPTY_RES_CONTENT )
DECLARATION ( A_FAC_HOLD_MPTY_RES )
DECLARATION ( A_FAC_HOLD_MPTY_RES_CONTENT )
```

DECLARATION (A_FAC_RETRIEVE_MPTY_RES)
DECLARATION (A_FAC_RETRIEVE_MPTY_RES_CONTENT)
DECLARATION (A_FAC_ECT_RES)
DECLARATION (A_FAC_ECT_RES_CONTENT)
DECLARATION (A_FAC_ECT_REJ_RES)
DECLARATION (A_FAC_ECT_REJ_RES_CONTENT)
DECLARATION (A_FAC_CCBS_RES)
DECLARATION (A_FAC_CCBS_RES_CONTENT)
DECLARATION (A_FAC_CCBS_ERR)
DECLARATION (A_FAC_CCBS_ERR_CONTENT)
DECLARATION (A_EF_PLMNSEL)
DECLARATION (A_EF_PLMNSEL_DEL)
DECLARATION (A_EF_PLMNSEL_DEL_CMP)
DECLARATION (A_EF_PLMNSEL_OVR)
DECLARATION (A_EF_PLMNSEL_NEW)
DECLARATION (A_EF_PLMNSEL_INS_CMP)
DECLARATION (A_EF_PLMNSEL_INS_1_CMP)
DECLARATION (A_EF_PLMNSEL_NEW_CMP)
DECLARATION (A_EF_PLMNSEL_CHG_CMP)
DECLARATION (A_ECC_FIELD)
DECLARATION (A_ECC_FIELD_EMPTY)
DECLARATION (A_ELP_FIELD)
DECLARATION (A_LP_FIELD)
DECLARATION (A_LP_LAN_NOT_SUP)
DECLARATION (A_ELP_LAN_NOT_SUP)
DECLARATION (A_AD_FIELD)
DECLARATION (A_AD_FIELD_CI_DISABLED)
DECLARATION (A_AD_FIELD_CI_ENABLED)
DECLARATION (A_ACM_FIELD)
DECLARATION (A_ADN_REC)
DECLARATION (A_SMS_REC)
DECLARATION (A_RESP_DATA)
DECLARATION (F_FRB_PLMN_LST)
DECLARATION (F_RXL_PLMN_LST)
DECLARATION (F_MNC_45F)
DECLARATION (F_MNC_01F)
DECLARATION (F_MNC_02F)
DECLARATION (F_MNC_55)
DECLARATION (F_RESP_OK)
DECLARATION (F_RESP_CBST)
DECLARATION (F_RESP_FCO)
DECLARATION (F_RESP_COPN)
DECLARATION (F_RESP_CONNECT)
DECLARATION (F_RESP_NO_CARRIER)
DECLARATION (F_RESP_TE0_CR_OK)
DECLARATION (F_RESP_A)
DECLARATION (F_RESP_T)
DECLARATION (F_RESP_E)
DECLARATION (F_RESP_0)
DECLARATION (F_AT_CF)
DECLARATION (F_AT_FBU_1)
DECLARATION (F_AT_H)
DECLARATION (F_AT_O)
DECLARATION (F_AT_UN1)
DECLARATION (F_AT_COPN)
DECLARATION (F_AT_REP)

DECLARATION (F_AT_CBST_NONTRA)
DECLARATION (F_AT_CBST_TRA)
DECLARATION (F_AT_CBST_CHECK)
DECLARATION (F_AT_D_DAT)
DECLARATION (F_AT_FCLASS_2)
DECLARATION (F_AT_FDT)
DECLARATION (F_AT_FET0)
DECLARATION (F_AT_FET2)
DECLARATION (F_AT_BLUP)
DECLARATION (F_AT_E0)
DECLARATION (F_AT_CMUX)
DECLARATION (F_RESP_ERROR)

DECLARATION (A_ARFCN_NC)
DECLARATION (A_C1_NC)
DECLARATION (A_C2_NC)
DECLARATION (A_RXLEV_NC)
DECLARATION (A_BSIC_NC)
DECLARATION (A_CELL_ID_NC)
DECLARATION (A_LAC_NC)
DECLARATION (A_FRAME_OFFSET)
DECLARATION (A_TIME_ALIGNMT)
DECLARATION (A_CBA_NC)
DECLARATION (A_CBQ_NC)
DECLARATION (A_IDENT_DIG)
DECLARATION (A_MA)
DECLARATION (A_MA2)
DECLARATION (EM_FF)
DECLARATION (DATA_MSISDN)
DECLARATION (DATA_MSISDN2)
DECLARATION (DATA_MSISDN3)
DECLARATION (DATA_MSISDN4)
DECLARATION (DATA_MSISDN5)
DECLARATION (DATA_CCP)
DECLARATION (DATA_CCP2)
DECLARATION (DATA_CCP3)
DECLARATION (DATA_SDN000)
DECLARATION (DATA_SDN119)
DECLARATION (DATA_SDN911)
DECLARATION (SIM_SERV_ADN_BDN_SDN)
DECLARATION (SIM_SERV_ABSN_NOSTK)
DECLARATION (SIM_SERV_GID1_GID2)
DECLARATION (SIM_SERV_GID1_NOGID2)

DECLARATION(A_CPHS_CFU_FIELD)
DECLARATION(A_CPHS_CFU_FIELD_ALL)
DECLARATION(A_CPHS_CFU_FIELD_L1L2)
DECLARATION(A_CPHS_CFU_FIELD_LINE1)
DECLARATION(A_CPHS_CFU_FIELD_LINE2)
DECLARATION(A_CPHS_CFU_FIELD_NOLINE1)
DECLARATION(A_CPHS_CFU_FIELD_NOLINE2)

DECLARATION(A_CPHS_VVM_FIELD)
DECLARATION(A_CPHS_VVM_FIELD_ALL)
DECLARATION(A_CPHS_VVM_FIELD_L1L2)

DECLARATION(A_CPHS_VW_FIELD_LINE1)
DECLARATION(A_CPHS_VW_FIELD_LINE2)
DECLARATION(A_CPHS_VW_FIELD_NOLINE1)
DECLARATION(A_CPHS_VW_FIELD_NOLINE2)
DECLARATION(A_CPHS_SST_FIELD)
DECLARATION(A_CPHS_OPN_FIELD)
DECLARATION(A_CPHS_CSP_FIELD)
DECLARATION(A_CPHS_INF_FIELD)
DECLARATION(A_CPHS_INF_ALL_FIELD)
DECLARATION(A_CPHS_MB1_REC1)
DECLARATION(A_CPHS_MB1_REC2)
DECLARATION(A_CPHS_MB1_REC3)
DECLARATION(A_CPHS_MB1_REC4)
DECLARATION(A_CPHS_MB2_REC1)
DECLARATION(A_CPHS_MB2_REC2)
DECLARATION(A_CPHS_MB2_REC3)
DECLARATION(A_CPHS_MB2_REC4)
DECLARATION(A_CPHS_OPNS_FIELD)
DECLARATION(A_CPHS_INUM_FIELD)
DECLARATION(A_CPHS_INUM_REC1)
DECLARATION(A_CPHS_INUM_REC2)
DECLARATION(A_CPHS_INUM_REC3)
DECLARATION(A_CPHS_INUM_REC4)
DECLARATION(A_CPHS_INUM_REC5)
DECLARATION(A_CPHS_INUM_REC6)
DECLARATION(A_CPHS_INUM_REC7)
DECLARATION(A_CPHS_INUM_REC8)
DECLARATION(A_CPHS_INUM_REC9)
DECLARATION(A_CPHS_INUM_REC10)
DECLARATION(A_CPHS_INUM_REC11)
DECLARATION(A_CPHS_INUM_REC12)
DECLARATION(A_FAC_CCFC_CFU_V)
DECLARATION(A_FAC_CCFC_CFU_V_CONTENT)
DECLARATION(A_FAC_CCFC_CFU_D)
DECLARATION(A_FAC_CCFC_CFU_D_CONTENT)
DECLARATION(A_FAC_CCFC_CFU_V_RES)
DECLARATION(A_FAC_CCFC_CFU_V_RES_CONTENT)
DECLARATION(A_FAC_CCFC_CFU_D_RES)
DECLARATION(A_FAC_CCFC_CFU_D_RES_CONTENT)
DECLARATION (A_FAC_KSD_CFU_ACT_ALL)
DECLARATION (A_FAC_KSD_CFU_ACT_ALL_CONTENT)
DECLARATION (A_FAC_KSD_CFU_ACT_RES)
DECLARATION (A_FAC_KSD_CFU_ACT_RES_CONTENT)
DECLARATION (A_FAC_KSD_CFU_ERA_D)
DECLARATION (A_FAC_KSD_CFU_ERA_D_CONTENT)
DECLARATION (A_FAC_KSD_CFU_ERA_D_RES)
DECLARATION (A_FAC_KSD_CFU_ERA_D_RES_CONTENT)

DECLARATION(DELIVER_01)
DECLARATION(D_DELIVER_01)
DECLARATION(DELIVER_02)
DECLARATION(D_DELIVER_02)
DECLARATION(DELIVER_01_CLEAR)
DECLARATION(D_DELIVER_01_CLEAR)

/* structure declarations */

DECLARATION (S_BS_DAT_9600_ASY_TRA)
DECLARATION (S_BS_DAT_9600_ASY_NON_TRA)
DECLARATION (S_CMD_ATUN1)
DECLARATION (S_CMD_ATCF)
DECLARATION (S_PLMN_123_45)
DECLARATION (S_PLMN_262_01)
DECLARATION (S_PLMN_262_02)
DECLARATION (S_CLG_PARTY)
DECLARATION (S_CLD_PARTY_2)
DECLARATION (S_CLG_EMERG112)
DECLARATION (S_CLG_EMERG000)
DECLARATION (S_CLG_EMERG08)
DECLARATION (S_CLG_EMERG110)
DECLARATION (S_CLG_EMERG118)
DECLARATION (S_CLG_EMERG119)
DECLARATION (S_CLG_EMERG911)
DECLARATION (S_CLG_EMERG999)
DECLARATION (S_CLG_NOEMERG999099)
DECLARATION (S_CLD_PARTY)
DECLARATION (S_CLD_EMERG112)
DECLARATION (S_CLD_EMERG000)
DECLARATION (S_CLD_EMERG08)
DECLARATION (S_CLD_EMERG110)
DECLARATION (S_CLD_EMERG118)
DECLARATION (S_CLD_EMERG119)
DECLARATION (S_CLD_EMERG911)
DECLARATION (S_CLD_EMERG999)
DECLARATION (S_CLD_NOEMERG999099)
DECLARATION (S_CLD_PARTY_INT)
DECLARATION (S_CLG_PARTY_SUB)
DECLARATION (S_CLG_EMERG_SUB)
DECLARATION (S_CLD_PARTY_SUB)
DECLARATION (S_CLD_EMERG_SUB)
DECLARATION (S_BS_NOT_PRESENT)
DECLARATION (S_BS_VOICE)
DECLARATION (S_BS_AUX_VOICE)
DECLARATION (S_BS_EMERG)
DECLARATION (S_BS_FAX)
DECLARATION (S_BS_FAX_14400)
DECLARATION (S_BS_DAT_9600_ASY_NTRA)
DECLARATION (S_BS_DEF)
DECLARATION (S_BS_DAT_14400_ASY_BTP)
DECLARATION (S_BS_DAT_14400_ASY_TRA_V34)
DECLARATION (S_HDLC_DCS)
DECLARATION (S_HDLC_DIS)
DECLARATION (S_DCS)
DECLARATION (S_DIS)
DECLARATION (S_DTC)
DECLARATION (S_FAC_AOC)
DECLARATION (S_CHN_SPEECH)
DECLARATION (S_CHN_FULL_9600)
DECLARATION (S_HDLC_DIS_9600)
DECLARATION (S_DIS_9600)
DECLARATION (F_PLMN_LST)

DECLARATION (PLMN_LST_1)
DECLARATION (PLMN_LST_2)
DECLARATION (PLMN_LST_3)
DECLARATION (PLMN_LST_4)
DECLARATION (PLMN_LST_5)
DECLARATION (EMPTY_PLMN_LST)
DECLARATION (MCC_PLMN_LST_1)
DECLARATION (MCC_PLMN_LST_2)
DECLARATION (MCC_PLMN_LST_3)
DECLARATION (MCC_PLMN_LST_4)
DECLARATION (MCC_PLMN_LST_5)
DECLARATION (MCC_PLMN_LST_6)
DECLARATION (MNC_PLMN_LST_1)
DECLARATION (MNC_PLMN_LST_2)
DECLARATION (MNC_PLMN_LST_3)
DECLARATION (MNC_PLMN_LST_4)
DECLARATION (MNC_PLMN_LST_5)
DECLARATION (MNC_PLMN_LST_6)
DECLARATION (F_ICC)
DECLARATION (F_MCC_123)
DECLARATION (F_MCC_262)
DECLARATION (F_MCC_555)
DECLARATION (S_BS_DAT_default)
DECLARATION (S_NET_CTRL)
DECLARATION (S_CLASSM2)
DECLARATION (S_CLASSM3)
DECLARATION (S_MEAS_CAP)
DECLARATION (S_IMEI)
DECLARATION (S_IMSI)
DECLARATION (S_HOP_CHN)

/* Different kind of IMSI fields reported by the IMSI for testing the ME personalisation */

DECLARATION(IMSI_FIELD_NW_FAIL)
DECLARATION(IMSI_FIELD_NW_FAIL_DATA)
DECLARATION(IMSI_FIELD_NWSUB_FAIL)
DECLARATION(IMSI_FIELD_NWSUB_FAIL_DATA)
DECLARATION(IMSI_FIELD_NW_NS_OK)
DECLARATION(IMSI_FIELD_NW_NS_OK_DATA)
DECLARATION(IMSI_FIELD_SIM_FAIL)
DECLARATION(IMSI_FIELD_SIM_FAIL_DATA)
DECLARATION(IMSI_FIELD_SIM_OK)
DECLARATION(IMSI_FIELD_SIM_OK_DATA)

/* GID1 and GID2 fields used while doing SP and Corp type SIM locks */

DECLARATION(A_GID1_FAIL_FIELD)
DECLARATION(A_GID1_OK_FIELD)
DECLARATION(A_GID2_FAIL_FIELD)
DECLARATION(A_GID2_OK_FIELD)

/* Number definitions */

BYTE NUM_0 0
BYTE NUM_1 1

BYTE NUM_2 2
BYTE NUM_3 3
BYTE NUM_4 4
BYTE NUM_5 5
BYTE NUM_6 6
BYTE NUM_7 7
BYTE NUM_8 8
BYTE NUM_9 9
BYTE NUM_10 10
BYTE NUM_11 11
BYTE NUM_12 12
BYTE NUM_18 18
BYTE NUM_20 20
BYTE NUM_27 27
BYTE NUM_30 30
BYTE NUM_5A 0x5A
BYTE NUM_50 50

BYTE NUM_DEC_90 90

BYTE NUM_512 512

BYTE RXLEV 0x0A
BYTE BSIC 0x03F
BYTE DSC 0x08
BYTE TXLEV 0x10
BYTE TN 0x05
BYTE RLT 0x02
BYTE TAV 0x30
BYTE RXLEV_F 0x0A
BYTE RXLEV_S 0x0A
BYTE RXQUAL_F 0x05
BYTE RXQUAL_S 0x05
BYTE CBA 0x01
BYTE CBQ 0x01
BYTE NO_NCELLS 0x06
BYTE MAX_DATAS 0xFF

BYTE MAX_CCP_LEN 14

BYTE NMO 0x02
BYTE NET_CTRL 0x03
BYTE RAC 0x05
SHORT C31 0x08
SHORT C32 0x09

BYTE BS_PA_MFRMS 0x09
BYTE T3212 0x06

BYTE NO_CREQ_MAX 0x0A
BYTE REEST_FLAG 0x01
BYTE TXPWR_MAX 0x0A
BYTE RXLEV_MIN 0x0B
SHORT REL_CS 0x00

BYTE CIPH_STAT 0x01
BYTE HSN 0x10
BYTE DTX_STAT 0x01

BYTE NUM_40 0x40
BYTE NUM_90 0x90
BYTE NUM_92 0x92
BYTE NUM_98 0x98
BYTE NUM_6F 0x6F
BYTE NUM_FF 0xFF

SHORT NUM_9600 9600
SHORT NUM_4800 4800
SHORT NUM_1000 1000

SHORT ARFCN 0x64
SHORT C1 0xF
SHORT C2 0xF
SHORT LAC 0x12

SHORT TMSI 0x64

LONG BITMASK_H 0X00
LONG BITMASK_L 0X2400
LONG BITMASK_DL 0X0005
LONG BITMASK_MM 0X3000
BYTE ENTITY 0X04
BYTE ENTITY_DL 0x02
BYTE ENTITY_RR 0x03
BYTE ENTITY_MM 0x04

BYTE MAX_CPHS_CSP 18
BYTE MAX_CPHS_OPNL 30
BYTE MAX_CPHS_OPNS 10
BYTE REC_NUM_0 0x00
BYTE REC_NUM_MAX 0xFF

SHORT SS_NO_ERROR 0x600

/* Key definitions */

BYTE KEY_0 48
BYTE KEY_1 49
BYTE KEY_2 50
BYTE KEY_3 51
BYTE KEY_4 52
BYTE KEY_5 53
BYTE KEY_6 54
BYTE KEY_7 55
BYTE KEY_8 56
BYTE KEY_9 57
BYTE KEY_A 65

BYTE KEY_B 66
BYTE KEY_C 67
BYTE KEY_D 68
BYTE KEY_STAR 42
BYTE KEY_HASH 35

/*Message: OK
 successful operation*/
STRING(M_OK, "OK")

/*Message: NO CARRIER
 carrier lost*/
STRING(M_NO_CARRIER, "NO CARRIER")

/*Message: NO ANSWER*/
STRING(M_NO_ANSWER, "NO ANSWER")

/*Message: CONNECT
 successful data call connection*/
STRING(M_CONNECT_9600, "CONNECT 9600")
STRING(M_CONNECT, "CONNECT")

/*Message: ERROR
 error result code*/
STRING(M_ERROR, "ERROR")

/*Message: BUSY
 busy result code*/
STRING(M_BUSY, "BUSY")

/*Message: +CME
 error result code*/
STRING(M_ERR_UNKNOWN, "+CME ERROR: unknown")
STRING(M_ERR_PIN_REQ, "+CME ERROR: SIM PIN required")
STRING(M_ERR_WRONG_PWD, "+CME ERROR: incorrect password")
STRING(M_ERR_SIM_FATAL, "+CME ERROR: SIM not inserted")
STRING(M_ERR_SIM_INV, "+CME ERROR: SIM wrong")
STRING(M_ERR_SIM_BLK, "+CME ERROR: SIM PUK required")
STRING(M_ERR_SIM_FAIL, "+CME ERROR: SIM failure")
STRING(M_ERR_NO_NTW_SRV, "+CME ERROR: no network service")
STRING(M_ERR_LIMITED_SRV, "+CME ERROR: network not allowed - emergency calls only")
STRING(M_ERR_OPERATION, "+CME ERROR: operation not allowed")
STRING(M_ERR_LOCK_PN_PIN_REQ, "+CME ERROR: Network lock - PIN required")
STRING(M_ERR_LOCK_PN_PUK_REQ, "+CME ERROR: Network lock - PUK required")
STRING(M_ERR_LOCK_PU_PIN_REQ, "+CME ERROR: Subnetwork lock - PIN required")
STRING(M_ERR_LOCK_PU_PUK_REQ, "+CME ERROR: Subnetwork lock - PUK required")
STRING(M_ERR_LOCK_PP_PIN_REQ, "+CME ERROR: Provider lock - PIN required")

```
STRING(M_ERR_LOCK_PP_PUK_REQ, "+CME ERROR: Provider lock - PUK required" )
STRING(M_ERR_LOCK_PC_PIN_REQ, "+CME ERROR: Corporate lock - PIN required" )
STRING(M_ERR_LOCK_PC_PUK_REQ, "+CME ERROR: Corporate lock - PUK required" )
STRING(M_ERR_LOCK_PH_PIN_REQ, "+CME ERROR: PH-SIM PIN required" )
```

```
/*Command:      S
                set S register*/
```

```
STRING(C_S0_1, "ATS0=1" )
STRING(C_S0_3, "ATS0=3" )
```

```
/*Command:      +CFUN
                set phone functionality*/
STRING(C_PLUS_CFUN_FULL, "AT+CFUN=1 " )
```

```
/*Command:      +CEER
                extended error report*/
STRING(C_PLUS_CEER, "AT+CEER " )
```

```
/*Command:      +CMEE
                extended error report mode*/
STRING(C_PLUS_CMEE_VERB, "AT+CMEE=2 " )
```

```
/*Command:      Z
                reset to defaults*/
STRING(C_Z, "ATZ " )
```

```
/*Command:      +CPAS
                phone activity status*/
STRING(C_PLUS_CPAS, "AT+CPAS " )
```

```
/*Command:      +CPIN
                enter PIN*/
STRING(C_PLUS_CPIN_1234, "AT+CPIN=\"1234\" " )
STRING(C_PLUS_CPIN_5678, "AT+CPIN=\"5678\" " )
STRING(C_PLUS_CPIN_123456, "AT+CPIN=\"123456\" " )
STRING(C_PLUS_CPIN_QUERY, "AT+CPIN? " )
```

```
/*Message:      +CPIN
                enter PIN*/
STRING(M_PLUS_CPIN_PIN1, "+CPIN: SIM PIN" )
```

```
/*Command:      +CNUM
                Request own MSISDN*/
STRING(C_PLUS_CNUM, "AT+CNUM" )
/*Message:      +CNUM
                Request own MSISDN*/
STRING(M_PLUS_CNUM, "+CNUM: ;\\"03039491447\\",129" )
STRING(M_PLUS_CNUM2, "+CNUM: \\"LINE2\\",\\"\",255" )
```

```
/*Command:      +CMOD
                mode selection*/
STRING(C_PLUS_CMOD_FAX, "AT+CMOD=1 " )
```

STRING(C_PLUS_CMOD_ALT_DAT, "AT+CMOD=2 ")

/*Command: +CCWA
 Call waiting indication*/
STRING(C_PLUS_CCWA_ON, "AT+CCWA=1 ")

/*Command: D
 Dial a number*/
STRING(C_D_DAT, "ATDT(030)39094444")
STRING(C_D_CHPIN, "ATD**04*1234*4321*4321#")
STRING(C_D_CHPIN_FAIL, "ATD**04*1234*4321*2222#")
STRING(C_D_VOICE, "ATD03039094444;")
STRING(C_D_VOICE_INT_A, "ATD004903039094444;")
STRING(C_D_VOICE_INT_B, "ATD+4903039094444;")
STRING(C_D_EMERG112, "ATD112;")
STRING(C_D_EMERG000, "ATD000;")
STRING(C_D_EMERG08, "ATD08;")
STRING(C_D_EMERG110, "ATD110;")
STRING(C_D_EMERG118, "ATD118;")
STRING(C_D_EMERG119, "ATD119;")
STRING(C_D_EMERG911, "ATD911;")
STRING(C_D_EMERG999, "ATD999;")
STRING(C_D_NOEMERG999099, "ATD999099;")
STRING(C_D_MDF, "ATD")
STRING(C_D_VOICE_CLIR, "ATD*31#03039094444;")
STRING(C_D_SS_CLIR, "ATD*31#03039094444;")
STRING(C_D_SS_IMEI, "ATD*#06#;")
STRING(M_IMEI, "13579024681122278")
STRING(C_D_USSD, "ATD*100#;")

/*Command: H
 Hang up call*/
STRING(C_H, "ATH0")

/*Command: +CHUP
 Hang up call*/
STRING(C_PLUS_CHUP, "AT+CHUP")

/*Command: A
 accept call*/
STRING(C_A, "ATA")

/* Command: AT , just to check a living AT Interpreter */
STRING(C_AT, "AT")

/*Command: +CBST
 Set bearer services*/
STRING(C_PLUS_CBST_CURR, "AT+CBST?")
STRING(C_PLUS_CBST_9600_ASY_TRA, "AT+CBST=71,0,0")
STRING(C_PLUS_CBST_9600_ASY_NTRA, "AT+CBST=71,0,1")
STRING(C_PLUS_CBST_14400_ASY_BTP, "AT+CBST=43,0,2")

STRING(C_PLUS_CBST_14400_ASY_TRA_V34, "AT+CBST=14,0,0")

/*Command: +COPS
 operator selection*/

```
STRING(C_PLUS_COPS_DREG, "AT+COPS=2" )
STRING(C_PLUS_COPS_REG, "AT+COPS=0,0" )
STRING(C_PLUS_COPS_QUE, "AT+COPS?" )
STRING(C_PLUS_COPS_TST, "AT+COPS=?" )
STRING(C_PLUS_COPS_MAN_LNG, "AT+COPS=1,0,\"Vodafone D2\"")
STRING(C_PLUS_COPS_MAN_SHRT, "AT+COPS=1,1,\"Voda D2\"")
STRING(C_PLUS_COPS_MAN_NUM, "AT+COPS=1,2,\"26202\"")

/*
Message:      +COPS
              operator selection

*/
STRING(M_PLUS_COPS_LST, "+COPS: (1,\"T-Mobile D\", \"TMO D\", \"26201\"),(1,\"Vodafone D2\", \"Voda D2\", \"26202\"),(1,\"E-Plus\", \"E-Plus\", \"26203\")" )

/*message:      +COPS
              operator selection*/
STRING(M_PLUS_COPS_AUT_LNG_26201, "+COPS: 0,0,\"T-Mobile D\"")

/*Command:      +CLCK
              facility lock*/
STRING(C_PLUS_CLCK_FD_ENA, "AT+CLCK=\"FD\",1,\"1234\"")
STRING(C_PLUS_CLCK_FD_ENA2, "AT+CLCK=\"FD\",1" )
STRING(C_PLUS_CLCK_FD_DIS, "AT+CLCK=\"FD\",0,\"1234\"")
STRING(C_PLUS_CLCK_FD_QUERY, "AT+CLCK=\"FD\",2" )

/*Message:      +CLCK
              facility lock*/
STRING(M_PLUS_CLCK_FD_ENA, "+CLCK: 1" )
STRING(M_PLUS_CLCK_FD_DIS, "+CLCK: 0" )

/*Command:      +CLCK
              facility lock, ME personalisation*/

/* Network */
STRING(C_PLUS_CLCK_PN_ENA, "AT+CLCK=\"PN\",1,\"1234\"")
STRING(C_PLUS_CLCK_PN_DIS, "AT+CLCK=\"PN\",0,\"1234\"")
STRING(C_PLUS_CLCK_PN_ENAERR, "AT+CLCK=\"PN\",1,\"5678\"")
STRING(C_PLUS_CLCK_PN_DISERR, "AT+CLCK=\"PN\",0,\"5678\"")
STRING(C_PLUS_CLCK_PN_QUERY, "AT+CLCK=\"PN\",2" )

/* Network subnet */
STRING(C_PLUS_CLCK_PU_ENA, "AT+CLCK=\"PU\",1,\"1234\"")
STRING(C_PLUS_CLCK_PU_DIS, "AT+CLCK=\"PU\",0,\"1234\"")
STRING(C_PLUS_CLCK_PU_ENAERR, "AT+CLCK=\"PU\",1,\"5678\"")
STRING(C_PLUS_CLCK_PU_DISERR, "AT+CLCK=\"PU\",0,\"5678\"")
STRING(C_PLUS_CLCK_PU_QUERY, "AT+CLCK=\"PU\",2" )

/* service provider */
STRING(C_PLUS_CLCK_PP_ENA, "AT+CLCK=\"PP\",1,\"1234\"")
STRING(C_PLUS_CLCK_PP_DIS, "AT+CLCK=\"PP\",0,\"1234\"")
STRING(C_PLUS_CLCK_PP_ENAERR, "AT+CLCK=\"PP\",1,\"5678\"")
```

```
STRING(C_PLUS_CLCK_PP_DISERR, "AT+CLCK="PP",0,\"5678\"")
STRING(C_PLUS_CLCK_PP_QUERY, "AT+CLCK="PP",2")
```

```
/* corporate */
```

```
STRING(C_PLUS_CLCK_PC_ENA, "AT+CLCK="PC",1,\"1234\"")
STRING(C_PLUS_CLCK_PC_DIS, "AT+CLCK="PC",0,\"1234\"")
STRING(C_PLUS_CLCK_PC_ENAERR, "AT+CLCK="PC",1,\"5678\"")
STRING(C_PLUS_CLCK_PC_DISERR, "AT+CLCK="PC",0,\"5678\"")
STRING(C_PLUS_CLCK_PC_QUERY, "AT+CLCK="PC",2")
```

```
/* SIM */
```

```
STRING(C_PLUS_CLCK_PS_ENA, "AT+CLCK="PS",1,\"1234\"")
STRING(C_PLUS_CLCK_PS_DIS, "AT+CLCK="PS",0,\"1234\"")
STRING(C_PLUS_CLCK_PS_ENAERR, "AT+CLCK="PS",1,\"5678\"")
STRING(C_PLUS_CLCK_PS_DISERR, "AT+CLCK="PS",0,\"5678\"")
STRING(C_PLUS_CLCK_PS_QUERY, "AT+CLCK="PS",2")
```

```
/* First SIM */
```

```
STRING(C_PLUS_CLCK_PF_ENA, "AT+CLCK="PF",1,\"1234\"")
STRING(C_PLUS_CLCK_PF_DIS, "AT+CLCK="PF",0,\"1234\"")
STRING(C_PLUS_CLCK_PF_ENAERR, "AT+CLCK="PF",1,\"5678\"")
STRING(C_PLUS_CLCK_PF_DISERR, "AT+CLCK="PF",0,\"5678\"")
STRING(C_PLUS_CLCK_PF_QUERY, "AT+CLCK="PF",2")
```

```
/*Message:      +CLCK
                facility lock, ME personalisation*/
```

```
/* Answer message is for all CLCK query commands the same! */
```

```
STRING(M_PLUS_CLCK_ENA, "+CLCK: 1")
STRING(M_PLUS_CLCK_DIS, "+CLCK: 0")
```

```
/*Command:      %NRG
                network registration*/
```

```
STRING(C_PLUS_NRG_FULL_AUTO, "AT%NRG=0,0 ")
STRING(C_PLUS_NRG_FULL_MAN, "AT%NRG=1,0,1,\"TMO D\" ")
STRING(C_PLUS_NRG_LIM, "AT%NRG=,1 ")
STRING(C_PLUS_NRG_NO, "AT%NRG=,2 ")
STRING(C_PLUS_NRG_SET_AUTO, "AT%NRG=0,3 ")
STRING(C_PLUS_NRG_SET_MAN, "AT%NRG=1,3 ")
STRING(C_PLUS_NRG_QUERY, "AT%NRG? ")
```

```
/*Message:      %NRG
                network registration*/
```

```
STRING(M_PLUS_NRG_AUTO_FULL_LONG_D1, "%NRG: 0,0,0,0,\"T-Mobile D\"")
STRING(M_PLUS_NRG_MAN_FULL_SHORT_D1, "%NRG: 1,0,1,0,\"TMO D\"")
STRING(M_PLUS_NRG_AUTO_LIM_SHORT_NONE, "%NRG: 0,1,,1")
STRING(M_PLUS_NRG_MAN_LIM_SHORT_NONE, "%NRG: 1,1,,1")
STRING(M_PLUS_NRG_AUTO_NO_LONG_NONE, "%NRG: 0,2,,2")
```

```
/*Command:      +COLP
                  Calling line presentation mode*/
STRING(C_PLUS_COLP_ON, "AT+COLP=1 ")

/*Command:      +CLIR
                  Calling line restriction mode*/
STRING(C_PLUS_CLIR_SUP, "AT+CLIR=2 ")

/*Command:      +CHLD
                  Call on hold*/
STRING(C_PLUS_CHLD_0, "AT+CHLD=0 ")
STRING(C_PLUS_CHLD_1, "AT+CHLD=1 ")
STRING(C_PLUS_CHLD_2, "AT+CHLD=2 ")
STRING(C_PLUS_CHLD_21, "AT+CHLD=21 ")
STRING(C_PLUS_CHLD_12, "AT+CHLD=12 ")
STRING(C_PLUS_CHLD_3, "AT+CHLD=3 ")
STRING(C_PLUS_CHLD_4, "AT+CHLD=4 ")
STRING(C_PLUS_CHLD_5, "AT+CHLD=5 ")

/*Command:      +CSVM
                  Set a Voice Mail Number*/
STRING(C_PLUS_CSVM_ENABLE, "AT+CSVM=1,\"03039491478\",145 ")
STRING(M_PLUS_CSVM_ENABLE, "+CSVM: 1,\"03039491478\",145")

STRING(C_PLUS_CSVM_Disable, "AT+CSVM=0 ")
STRING(M_PLUS_CSVM_Disable, "+CSVM: 0,\"\",145")

STRING(C_PLUS_CSVM_Q, "AT+CSVM? ")
STRING(M_PLUS_CSVM_Q, "+CSVM: 0,\"030390943367\",129")

STRING(C_PLUS_CSVM_T, "AT+CSVM=? ")
STRING(M_PLUS_CSVM_T, "+CSVM: (0,1),(129,145,161)")

/*Command:      +CLAE
                  Language Event*/
STRING(C_PLUS_CLAE_T, "AT+CLAE=?")
STRING(M_PLUS_CLAE_T, "+CLAE: (0-1)")
STRING(C_PLUS_CLAE_Ena, "AT+CLAE=1")
STRING(C_PLUS_CLAE_Dis, "AT+CLAE=0")
STRING(C_PLUS_CLAE_Q, "AT+CLAE?")
STRING(M_PLUS_CLAE_Q, "+CLAE: 1")
STRING(M_PLUS_CLAE_Dis, "+CLAE: 0")

/*Command:      +CLAN
                  Set a language*/

STRING(C_PLUS_CLAN_T, "AT+CLAN=?")
STRING(M_PLUS_CLAN_T, "+CLAN: en,fr,de,it,es,pt,no,el,pl,in,cs,zh,ar")
STRING(C_PLUS_CLAN_S, "AT+CLAN=\"de\"")
STRING(C_PLUS_CLAN_AUTO, "AT+CLAN=\"au\"")
STRING(C_PLUS_CLAN_Q, "AT+CLAN?")
STRING(M_PLUS_CLAN_Q, "+CLAN: de")
STRING(M_PLUS_CLAN_ar, "+CLAN: ar")
STRING(M_PLUS_CLAN_en, "+CLAN: en")
STRING(M_PLUS_CLAV_rst, "+CLAV: de")
```

```
/*Command:      +VTS
                send DTMF*/
STRING(C_PLUS_VTS_1, "AT+VTS=1,0" )
STRING(C_PLUS_VTS_2, "AT+VTS=2" )
STRING(C_PLUS_VTS_A, "AT+VTS=a" )

STRING(C_PLUS_VTS_STAR, "AT+VTS=*" )

STRING(C_PLUS_VTS_HASH, "AT+VTS=#" )

STRING(C_PLUS_VTS_C, "AT+VTS=C" )
STRING(C_PLUS_VTS_D, "AT+VTS=D" )
STRING(C_PLUS_VTS_12, "AT+VTS=12" )

/*message:      +COLP
                calling line presentation*/
STRING(M_PLUS_COLP_NUM, "+COLP: \03039094223\,129" )
STRING(M_PLUS_COLP_EMERG112, "+COLP: \112\,129" )
STRING(M_PLUS_COLP_EMERG000, "+COLP: \000\,129" )
STRING(M_PLUS_COLP_EMERG08, "+COLP: \08\,129" )
STRING(M_PLUS_COLP_EMERG110, "+COLP: \110\,129" )
STRING(M_PLUS_COLP_EMERG118, "+COLP: \118\,129" )
STRING(M_PLUS_COLP_EMERG119, "+COLP: \119\,129" )
STRING(M_PLUS_COLP_EMERG911, "+COLP: \911\,129" )
STRING(M_PLUS_COLP_EMERG999, "+COLP: \999\,129" )
STRING(M_PLUS_COLP_NOEMERG000, "+COLP: \000\,129,,,\Heier, Max\ "" )
STRING(M_PLUS_COLP_NOEMERG119, "+COLP: \119\,129,,,\Heier, Max\ "" )
STRING(M_PLUS_COLP_NOEMERG911, "+COLP: \911\,129,,,\Heier, Max\ "" )
STRING(M_PLUS_COLP_NOEMERG999099, "+COLP: \999099\,129" )

STRING(M_PLUS_COLP_NUM_2, "+COLP: \03039094444\,129" )

/*message:      +CCWA
                call waiting presentation*/
STRING(M_PLUS_CCWA, "+CCWA: \03039094223\,129,1,,0" )

/*message:      % SIMINS
                SIM inserted*/
STRING(M_PERCENT_SIMINS_ERR_11, "% SIMINS: 11" )

/*message:      % SIMREM
                SIM removed*/
STRING(M_PERCENT_SIMREM_ERR_0, "% SIMREM: 0" )

/*message:      +CREG
                network registration*/
STRING(M_PLUS_CREG_NO, "+CREG: 0" )
STRING(M_PLUS_CREG_SEARCH, "+CREG: 2" )
STRING(M_PLUS_CREG_SET, "AT+CREG=1" )

/*Command:      +CSNS
                single numbering scheme*/
STRING(C_PLUS_CSNS_VAF_V, "AT+CSNS=5 " )
STRING(C_PLUS_CSNS_VFD, "AT+CSNS=7 " )

STRING(C_PLUS_CSNS_QUERY, "AT+CSNS? " )
```

```
/*Message:      +CSNS
                single numbering scheme*/
STRING(M_PLUS_CSNS_0, "+CSNS: 0" )
STRING(M_PLUS_CSNS_5, "+CSNS: 5" )

/*Command:      +COPN
                read operator names*/
STRING(C_PLUS_COPN, "AT+COPN" )

/*Command:      +CPOL
                Preferred operator list*/
STRING(C_PLUS_CPOL_FRMT_LONG, "AT+CPOL=,0" )
STRING(C_PLUS_CPOL_FRMT_SHRT, "AT+CPOL=,1" )
STRING(C_PLUS_CPOL_FRMT_NUM, "AT+CPOL=,2" )
STRING(C_PLUS_CPOL_Q, "AT+CPOL?" )
STRING(C_PLUS_CPOL_T, "AT+CPOL=?" )
STRING(C_PLUS_CPOL_DEL_1, "AT+CPOL=1" )
STRING(C_PLUS_CPOL_DEL_2, "AT+CPOL=2" )
STRING(C_PLUS_CPOL_OVR_3, "AT+CPOL=5,2,\"28401\"")
STRING(C_PLUS_CPOL_NEW_3, "AT+CPOL=,2,\"28401\"")
STRING(C_PLUS_CPOL_INS_3, "AT+CPOL=3,2,\"28401\"")
STRING(C_PLUS_CPOL_INS_1, "AT+CPOL=1,2,\"28401\"")
STRING(C_PLUS_CPOL_CHG, "AT+CPOL=1" )

/*Message:      +CPOL
                Preferred operator list*/
STRING(M_PLUS_CPOL_T, "+CPOL: (1-9),(0-2)" )
STRING(M_PLUS_CPOL_PLMN1_NUM, "+CPOL: 2,2,\"26201\"")
STRING(M_PLUS_CPOL_PLMN1_LNG, "+CPOL: 2,0,\"T-Mobile D\"")
STRING(M_PLUS_CPOL_PLMN1_SHRT, "+CPOL: 2,1,\"TMO D\"")
STRING(M_PLUS_CPOL_PLMN1_CMP, "+CPOL: 1,0,\"T-Mobile D\"")
STRING(M_PLUS_CPOL_PLMN1_CHG, "+CPOL: 5,0,\"T-Mobile D\"")
STRING(M_PLUS_CPOL_PLMN1_INS, "+CPOL: 2,0,\"T-Mobile D\"")
STRING(M_PLUS_CPOL_PLMN2_NUM, "+CPOL: 3,2,\"26202\"")
STRING(M_PLUS_CPOL_PLMN2_LNG, "+CPOL: 3,0,\"Vodafone D2\"")
STRING(M_PLUS_CPOL_PLMN2_SHRT, "+CPOL: 3,1,\"Voda D2\"")
STRING(M_PLUS_CPOL_PLMN2_CMP, "+CPOL: 2,0,\"Vodafone D2\"")
STRING(M_PLUS_CPOL_PLMN2_DLT, "+CPOL: 1,0,\"Vodafone D2\"")
STRING(M_PLUS_CPOL_PLMN2_INS, "+CPOL: 3,0,\"Vodafone D2\"")
STRING(M_PLUS_CPOL_PLMN3_NUM, "+CPOL: 5,2,\"26203\"")
STRING(M_PLUS_CPOL_PLMN3_LNG, "+CPOL: 5,0,\"E-Plus\"")
STRING(M_PLUS_CPOL_PLMN3_SHRT, "+CPOL: 5,1,\"E-Plus\"")
STRING(M_PLUS_CPOL_PLMN3_CMP, "+CPOL: 3,0,\"E-Plus\"")
STRING(M_PLUS_CPOL_PLMN3_DLT, "+CPOL: 2,0,\"E-Plus\"")
STRING(M_PLUS_CPOL_PLMN3_INS, "+CPOL: 4,0,\"E-Plus\"")
STRING(M_PLUS_CPOL_PLMN4_NUM, "+CPOL: 6,2,\"26207\"")
STRING(M_PLUS_CPOL_PLMN4_LNG, "+CPOL: 6,0,\"o2 - de\"")
STRING(M_PLUS_CPOL_PLMN4_SHRT, "+CPOL: 6,1,\"o2 - de\"")
STRING(M_PLUS_CPOL_PLMN4_CMP, "+CPOL: 4,0,\"o2 - de\"")
STRING(M_PLUS_CPOL_PLMN4_DLT, "+CPOL: 3,0,\"o2 - de\"")
STRING(M_PLUS_CPOL_PLMN4_INS, "+CPOL: 5,0,\"o2 - de\"")
STRING(M_PLUS_CPOL_PLMN5_NUM, "+CPOL: 8,2,\"23433\"")
STRING(M_PLUS_CPOL_PLMN5_LNG, "+CPOL: 8,0,\"ORANGE\"")
STRING(M_PLUS_CPOL_PLMN5_SHRT, "+CPOL: 8,1,\"ORANGE\"")
```

```
STRING(M_PLUS_CPOL_PLMN5_CMP, "+CPOL: 5,0,\"ORANGE\"")
STRING(M_PLUS_CPOL_PLMN5_DLT, "+CPOL: 4,0,\"ORANGE\"")
STRING(M_PLUS_CPOL_PLMN5_INS, "+CPOL: 6,0,\"ORANGE\"")
STRING(M_PLUS_CPOL_PLMN5_CHG, "+CPOL: 1,0,\"ORANGE\"")
STRING(M_PLUS_CPOL_PLMN_OVR_LNG, "+CPOL: 5,0,\"M-TEL GSM BG\"")
STRING(M_PLUS_CPOL_PLMN_OVR_NUM, "+CPOL: 5,2,\"28401\"")
STRING(M_PLUS_CPOL_PLMN_NEW_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"")
STRING(M_PLUS_CPOL_PLMN_NEW_NUM, "+CPOL: 1,2,\"28401\"")
STRING(M_PLUS_CPOL_PLMN_NEW_CMP, "+CPOL: 6,0,\"M-TEL GSM BG\"")
STRING(M_PLUS_CPOL_PLMN_INS_LNG, "+CPOL: 3,0,\"M-TEL GSM BG\"")
STRING(M_PLUS_CPOL_PLMN_INS_1_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"")
```

```
/*Message:      +CRSM
                restricted SIM access*/
STRING(C_PLUS_CRSM_EFecc, "AT+CRSM=176,28599,0,0,12")
STRING(M_PLUS_CRSM_EFecc, "+CRSM: 144,0,11F2FF99F9FF214365FFFFFF")
STRING(C_PLUS_CRSM_EFadn, "AT+CRSM=178,28474,1,5,20")
STRING(M_PLUS_CRSM_EFadn, "+CRSM: 144,0,0123456789ABCDEF0123456789ABCDEF01234567")
STRING(C_PLUS_CRSM_EFacm, "AT+CRSM=214,28473,0,0,3,123456")
STRING(M_PLUS_CRSM_EFacm, "+CRSM: 144,0")
STRING(C_PLUS_CRSM_EFsms, "AT+CRSM=220,28476,1,5,10,12345678901234567890")
STRING(M_PLUS_CRSM_EFsms, "+CRSM: 144,0")
STRING(C_PLUS_CRSM_GetRes, "AT+CRSM=192,28475")
STRING(M_PLUS_CRSM_GetRes, "+CRSM: 144,0,12345678901234567890")
STRING(C_PLUS_CRSM_Stat, "AT+CRSM=242")
STRING(M_PLUS_CRSM_Stat, "+CRSM: 146,144")
STRING(M_PLUS_CRSM_PIN, "+CRSM: 152,4")
STRING(M_PLUS_CRSM_FATAL, "+CRSM: 111,0")
STRING(M_PLUS_CRSM_INV, "+CRSM: 152,64")
```

```
/*message:      RING
                alerting*/
STRING(M_RING, "RING")
```

```
/*Command:      % CPRI
                cipherring indication set command*/
STRING(C_PERCENT_CPRI_S1, "AT% CPRI=1")
```

```
/*Command:      % CPRI
                cipherring indication set command*/
STRING(C_PERCENT_CPRI_S2, "AT% CPRI=0")
```

```
/*Command:      % CPRI
                cipherring indication query command*/
STRING(C_PERCENT_CPRI_Q1, "AT% CPRI?")
```

```
/*Message:      % CPRI */
STRING(M_PERCENT_CPRI_Q1, "% CPRI: 2")
STRING(C_PERCENT_CPRI_T1, "AT% CPRI=?")
STRING(M_PERCENT_CPRI_T1, "% CPRI: (0,1)")
STRING(M_PERCENT_CPRI_Q2, "% CPRI: 1")
STRING(M_PERCENT_CPRI_U1, "% CPRI: 1,2")
```

```
/*Command:      % CCBS
                Call completion to busy subscriber*/
STRING(C_PERCENT_CCBS_ENA, "AT% CCBS=1")
```

```
/*Command:      % ALS
                Alternate Line Service*/
STRING(C_PERCENT_ALS_QUERY, "AT% ALS?" )
STRING(C_PERCENT_ALS_T1, "AT% ALS=?" )
STRING(C_PERCENT_ALS_ON, "AT% ALS=1" )
STRING(C_PERCENT_ALS_OFF, "AT% ALS=0" )

STRING(M_PERCENT_ALS_T1, "% ALS: (0,1)" )
STRING(M_PERCENT_ALS_ON, "% ALS: 1" )
STRING(M_PERCENT_ALS_OFF, "% ALS: 0" )

/*Command:      % CPI
                Call progress information
*/
STRING(C_PERCENT_CPI_ON, "AT% CPI=1" )

STRING(C_PERCENT_CUNS_ON, "AT% CUNS=1" )
/*
Message:        % CPI
                Call progress information
*/
STRING(M_CPI_ALERT, "% CPI: 1,2,1,0" )
STRING(M_CPI_SYNC, "% CPI: 1,4,1,1" )
STRING(M_CPI_CONN, "% CPI: 1,6,1,1" )

/*Command:      +CPBS
                select phonebook memory storage*/
STRING(C_PLUS_CPBS_LD, "AT+CPBS=LD" )
/*Command:      +CPBR
                read phonebook entry*/
STRING(C_PLUS_CPBR, "AT+CPBR=1,13" )

/*message:      % CCBS
                CCBS indications*/
STRING(M_PERCENT_CCBS_PSSBL, "% CCBS: 1" )
STRING(M_PERCENT_CCBS_PSSBL_TMO, "% CCBS: 0" )
STRING(M_PERCENT_CCBS_REG_V, "% CCBS: 2,1,\"493039094223\",145,,1" )
STRING(M_PERCENT_CCBS_RECALL, "% CCBS: 3,1,\"493039094444\",145,,1,3" )
STRING(M_PERCENT_CCBS_RCL_TMO, "% CCBS: 4" )

/* Command:     +CMUX
                set multiplexer */
STRING(C_PLUS_CMUX, "AT+CMUX=1" )

/* Engineering mode – AT-CMD */

/* Command:     % EM
                get infrastructure data serving cell */
STRING(C_PERCENT_EM_QUERY_1, "AT% EM=2,1" )
```

```
/*Message:      %EM
                get infrastructure data serving cell */
STRING(M_PERCENT_EM_1, "%EM: 100,15,15,10,63,8,16,5,2,48,10,10,5,5,18,1,1" )
```

```
/*Command:      %EM
                get infrastructure data serving cell GPRS*/
STRING(C_PERCENT_EM_QUERY_2, "AT%EM=2,2 " )
```

```
/*Message:      %EM
                get infrastructure data serving cell GPRS */
STRING(M_PERCENT_EM_2, "%EM: 1,2,3,3,4,5,6,7,8,9" )
```

```
/*Command:      %EM
                get infrastructure data neighbour cell*/
STRING(C_PERCENT_EM_QUERY_3, "AT%EM=2,3 " )
```

```
/*Message:      %EM
                get infrastructure data neighbour cell*/
STRING(M_PERCENT_EM_3_1, "%EM: 6" )
```

```
/* arfcn_nc */
```

```
STRING(M_PERCENT_EM_3_2, "1,2,3,4,5,6" )
```

```
/* c1_nc */
```

```
STRING(M_PERCENT_EM_3_3, "1,2,3,4,5,6" )
```

```
/* c2_nc */
```

```
STRING(M_PERCENT_EM_3_4, "1,2,3,4,5,6" )
```

```
/* rxlev_nc */
```

```
STRING(M_PERCENT_EM_3_5, "1,2,3,4,5,6" )
```

```
/* bsic_nc */
```

```
STRING(M_PERCENT_EM_3_6, "1,2,3,4,5,6" )
```

```
/* cid_nc */
```

```
STRING(M_PERCENT_EM_3_7, "1,2,3,4,5,6" )
```

```
/* lac_nc */
```

```
STRING(M_PERCENT_EM_3_8, "1,2,3,4,5,6" )
```

```
/* offset_nc */
```

```
STRING(M_PERCENT_EM_3_9, "1,2,3,4,5,6" )
```

```
/* alignmt_nc */
```

```
STRING(M_PERCENT_EM_3_10, "1,2,3,4,5,6" )
```

```
/* cbq_nc */
```

```
STRING(M_PERCENT_EM_3_11, "1,2,3,4,5,6" )
```

```
/* cba_nc */
```

STRING(M_PERCENT_EM_3_12, "1,2,3,4,5,6")

/*Command: % EM
 get infrastructure data location and paging parameters */

STRING(C_PERCENT_EM_QUERY_4, "AT%EM=2,4 ")

/*Message: % EM
 get infrastructure data location and paging parameters*/

STRING(M_PERCENT_EM_4, "%EM: 9,6,1,2,3,4,5,6,100")

/*Command: % EM
 get infrastructure data plmn parameters */

STRING(C_PERCENT_EM_QUERY_5, "AT%EM=2,5 ")

/*Message: % EM
 get infrastructure data plmn parameters */

STRING(M_PERCENT_EM_5, "%EM: 10,1,10,11,0")

/*Command: % EM
 get infrastructure data ciph, hop and dtx parameters */

STRING(C_PERCENT_EM_QUERY_6, "AT%EM=2,6 ")

/*Message: % EM
 get infrastructure data ciph, hop and dtx parameters */

STRING(M_PERCENT_EM_6_1, "%EM: 1")

STRING(M_PERCENT_EM_6_2, "1,2,")

STRING(M_PERCENT_EM_6_3, "16,1")

/*Command: % EM
 get mobile data power parameters */

STRING(C_PERCENT_EM_QUERY_7, "AT%EM=2,7 ")

/*Message: % EM
 get infrastructure data power parameters */

STRING(M_PERCENT_EM_7_1, "%EM: 1,2,3,4,5,6,7,8,9,1,2,3")

STRING(M_PERCENT_EM_7_2, "1,2,3,4,5,1,2,1,3,1,4,1,5,6,7,1,1,1")

/*

Command: % EM
 get infrastructure data identity parameters

*/

STRING(C_PERCENT_EM_QUERY_8, "AT%EM=2,8 ")

/*Message: % EM
 get mobile data identity parameters */

STRING(M_PERCENT_EM_8_1, "%EM: 1,1,1,2,1,2,3,4,5,6,7,8,1,2,3,4,5,6,7,8")

STRING(M_PERCENT_EM_8_2, "1,1,1,2,1,2,3,4,5,6,7,8,1,2,3,4,5,6,7,8")

STRING(M_PERCENT_EM_8_3, "100")

/*Command: % EM
 get mobile data sw version*/

STRING(C_PERCENT_EM_QUERY_9, "AT%EM=2,9")

/*Message: % EM
 get infrastructure data identity parameters */

STRING(M_PERCENT_EM_9_1, "% VER: ALR")

STRING(M_PERCENT_EM_9_2, "% VER: DL")

STRING(M_PERCENT_EM_9_3, "% VER: RR")

STRING(M_PERCENT_EM_9_4, "% VER: MM")

STRING(M_PERCENT_EM_9_5, "% VER: CC")

STRING(M_PERCENT_EM_9_6, "% VER: SMS")

STRING(M_PERCENT_EM_9_7, "% VER: SS")

STRING(M_PERCENT_EM_9_8, "% VER: ACI")

BYTE V_MMI 0xFF

BYTE V_SIM 0xFF

BYTE V_CC 0xFF

BYTE V_SS 0xFF

BYTE V_SMS 0xFF

BYTE V_MM 0xFF

BYTE V_RR 0xFF

BYTE V_DL 0xFF

BYTE V_L1 0xFF

/*Command: % EMETS
 set bitmask for event tracing - RR */

STRING(C_PERCENT_EMETS_2, "AT%EMETS=2,0,5")

STRING(C_PERCENT_EMETS_3, "AT%EMETS=3,0,2400")

STRING(C_PERCENT_EMETS_4, "AT%EMETS=4,0,3000")

/*Command: % EMET
 read event tracing data*/

STRING(C_PERCENT_EMET_3, "AT%EMET=4")

STRING(C_PERCENT_EMET_4, "AT%EMET=8")

STRING(C_PERCENT_EMET_12, "AT%EMET=12")

STRING(C_PERCENT_EMET_255, "AT%EMET=255")

/*Message: % EM
 get infrastructure data identity parameters */

STRING(M_PERCENT_EMET_3, "% EMET END")

STRING(M_PERCENT_EMET_4, "% EMET END")

/* Message: +CUSD */

STRING(M_PLUS_CUSD_REQ, "+CUSD: 1,\"abcdefghijklmnopqrstuvwxyz\",165")

/* CPHS functionality-----*/

/* Command: % CPHS
 Common PCN Handset Specification */

STRING(C_PERCENT_CPHS_QUERY, "AT%CPHS?")
STRING(C_PERCENT_CPHS_START, "AT%CPHS=1")
STRING(C_PERCENT_CPHS_REFRESH, "AT%CPHS=2")
STRING(C_PERCENT_CPHS_STOP, "AT%CPHS=0")
STRING(C_PERCENT_CPHS_TEST, "AT%CPHS=?")

STRING(M_PERCENT_CPHS_ON, "%CPHS: 1")
STRING(M_PERCENT_CPHS_OFF, "%CPHS: 0")
STRING(M_PERCENT_CPHS_TEST, "%CPHS: (0-2)")

/* Command: % CPOP
 Query Operator name */

STRING(C_PERCENT_CPOP, "AT%CPOP?")

STRING(M_PERCENT_CPOP_L, "%CPOP: \"T-Mobil D\"")
STRING(M_PERCENT_CPOP_LS, "%CPOP: \"T-Mobil D\", \"TMO D\"")

/* Command: % CPROAM
 home contry roaming indication */

STRING(M_PERCENT_CPROAM, "%CPROAM: 1")

/* Command: % CPVW
 voice mail indication */

STRING(C_PERCENT_CPVW_CLEAR_ALL, "AT%CPVW=0")
STRING(C_PERCENT_CPVW_CLEAR_L1, "AT%CPVW=0,1")
STRING(C_PERCENT_CPVW_CLEAR_L2, "AT%CPVW=0,256")
STRING(C_PERCENT_CPVW_SET_ALL, "AT%CPVW=1")
STRING(C_PERCENT_CPVW_SET_L1, "AT%CPVW=1,1")
STRING(C_PERCENT_CPVW_SET_L2, "AT%CPVW=1,256")
STRING(C_PERCENT_CPVW_QUERY_ALL, "AT%CPVW=2")
STRING(C_PERCENT_CPVW_QUERY_L1, "AT%CPVW=2,1")
STRING(C_PERCENT_CPVW_QUERY_L2, "AT%CPVW=2,256")
STRING(C_PERCENT_CPVW_TEST, "AT%CPVW=?")

STRING(M_PERCENT_CPVW_NOMSG, "%CPVW: 0")
STRING(M_PERCENT_CPVW_MSG_L1, "%CPVW: 1,1")
STRING(M_PERCENT_CPVW_NOMSG_L1, "%CPVW: 0,1")
STRING(M_PERCENT_CPVW_MSG_L2, "%CPVW: 1,256")
STRING(M_PERCENT_CPVW_NOMSG_L2, "%CPVW: 0,256")
STRING(M_PERCENT_CPVW_MSG_L1L2, "%CPVW: 1,257")
STRING(M_PERCENT_CPVW_MSG_L1FD, "%CPVW: 1,7")
STRING(M_PERCENT_CPVW_MSG_L1L2FD, "%CPVW: 1,263")
STRING(M_PERCENT_CPVW_TEST, "%CPVW: (0-2),(1,256)")

/* Command: % CPCFU
 call forwaring unconditional */

```
STRING(C_PERCENT_CPCFU_CLEAR_ALL, "AT%CPCFU=0" )
STRING(C_PERCENT_CPCFU_CLEAR_L1, "AT%CPCFU=0,1" )
STRING(C_PERCENT_CPCFU_CLEAR_L2, "AT%CPCFU=0,256" )
STRING(C_PERCENT_CPCFU_SET_ALL, "AT%CPCFU=1" )
STRING(C_PERCENT_CPCFU_SET_L1, "AT%CPCFU=1,1" )
STRING(C_PERCENT_CPCFU_SET_L2, "AT%CPCFU=1,256" )
STRING(C_PERCENT_CPCFU_QUERY_ALL, "AT%CPCFU=2" )
STRING(C_PERCENT_CPCFU_QUERY_L1, "AT%CPCFU=2,1" )
STRING(C_PERCENT_CPCFU_QUERY_L2, "AT%CPCFU=2,256" )
STRING(C_PERCENT_CPCFU_TEST, "AT%CPCFU=?" )
```

```
STRING(M_PERCENT_CPCFU_NOFLG, "%CPCFU: 0" )
STRING(M_PERCENT_CPCFU_FLG_L1, "%CPCFU: 1,1" )
STRING(M_PERCENT_CPCFU_FLG_L2FD, "%CPCFU: 1,262" )
STRING(M_PERCENT_CPCFU_FLG_L2, "%CPCFU: 1,256" )
STRING(M_PERCENT_CPCFU_FLG_L1FD, "%CPCFU: 1,7" )
STRING(M_PERCENT_CPCFU_FLG_L1L2, "%CPCFU: 1,257" )
STRING(M_PERCENT_CPCFU_FLG_L1L2FD, "%CPCFU: 1,263" )
STRING(M_PERCENT_CPCFU_TEST, "%CPCFU: (0-2),(1,256)" )
```

```
/* Command:      %CPALS
                  alternate line service */
```

```
STRING(C_PERCENT_CPALS_SET_ID1, "AT%CPALS=1" )
STRING(C_PERCENT_CPALS_SET_ID2, "AT%CPALS=2" )
STRING(C_PERCENT_CPALS_QUERY, "AT%CPALS?" )
STRING(C_PERCENT_CPALS_TEST, "AT%CPALS=?" )
```

```
STRING(M_PERCENT_CPALS_L1, "%CPALS: 1,\"Line 1\"" )
STRING(M_PERCENT_CPALS_L2, "%CPALS: 2,\"Data\"" )
STRING(M_PERCENT_CPALS_L4, "%CPALS: 4,\"Fax\"" )
STRING(M_PERCENT_CPALS_L256, "%CPALS: 256,\"Line 2\"" )
STRING(M_PERCENT_CPALS_L256_SIM, "%CPALS: 256,\"LINE2\"" )
```

```
/* Command:      %CPINF
                  CPHS information */
```

```
STRING(C_PERCENT_CPINF, "AT%CPINF?" )
```

```
STRING(M_PERCENT_CPINF_1, "%CPINF: 2,\"FF03\", \"01F802F803F804F005FE0680078008FB09FC\"" )
STRING(M_PERCENT_CPINF_2, "%CPINF: 1,\"0000\"" )
```

```
/* Command:      %CPMB
                  mailbox numbers */
```

```
STRING(C_PERCENT_CPMB_1, "AT%CPMB=1" )
STRING(C_PERCENT_CPMB_2, "AT%CPMB=2" )
STRING(C_PERCENT_CPMB_3, "AT%CPMB=3" )
STRING(C_PERCENT_CPMB_4, "AT%CPMB=4" )
STRING(C_PERCENT_CPMB_TEST, "AT%CPMB=?" )
```

```
STRING(M_PERCENT_CPMB_1, "%CPMB: 1,1,\"12345\",129,\"Line 1\"" )
STRING(M_PERCENT_CPMB_3, "%CPMB: 3,2,\"13579\",129,\"Data\"" )
STRING(M_PERCENT_CPMB2_1, "%CPMB: 1,1,\"491793000333\",145,\"\"" )
STRING(M_PERCENT_CPMB2_3, "%CPMB: 3,2,\"\",0,\"\"" )
```

```
STRING(M_PERCENT_CPMB_TEST, "%CPMB: 4")
```

```
/* Command:      %CPNUMS
                  information numbers */
```

```
STRING(C_PERCENT_CPNUMS_TEST, "AT%CPNUMS=?")
STRING(C_PERCENT_CPNUMS_EXP_0, "AT%CPNUMS=0,1")
STRING(C_PERCENT_CPNUMS_EXP_8, "AT%CPNUMS=8,1")
STRING(C_PERCENT_CPNUMS_ELM_9, "AT%CPNUMS=9,2")
```

```
STRING(M_PERCENT_CPNUMS_1, "%CPNUMS: 1,\"TRAVEL\",\",\",1,0,0")
STRING(M_PERCENT_CPNUMS_2, "%CPNUMS: 2,\"TAXIS\",\",\",2,0,0")
STRING(M_PERCENT_CPNUMS_3, "%CPNUMS: 3,\"Computercabs\",\",\",111\",3,0,0")
STRING(M_PERCENT_CPNUMS_4, "%CPNUMS: 4,\"Dial-a-cab\",\",\",132\",3,0,0")
STRING(M_PERCENT_CPNUMS_5, "%CPNUMS: 5,\"AIRPORTS\",\",\",2,0,0")
STRING(M_PERCENT_CPNUMS_6, "%CPNUMS: 6,\"Heathrow\",\",\",345\",3,0,0")
STRING(M_PERCENT_CPNUMS_7, "%CPNUMS: 7,\"Gatwick\",\",\",651\",3,0,0")
STRING(M_PERCENT_CPNUMS_8, "%CPNUMS: 8,\"WEATHER\",\",\",1,0,0")
STRING(M_PERCENT_CPNUMS_9, "%CPNUMS: 9,\"North\",\",\",323\",2,0,0")
STRING(M_PERCENT_CPNUMS_10, "%CPNUMS: 10,\"South\",\",\",597\",2,0,0")
STRING(M_PERCENT_CPNUMS_11, "%CPNUMS: 11,\"ENTERTAINMENT\",\",\",1,0,0")
STRING(M_PERCENT_CPNUMS_12, "%CPNUMS: 12,\"Ticketmaster\",\",\",562\",2,0,0")
```

```
/* Activate CFU Voive and data */
/*STRING(C_PLUS_CCFC_CFU_ACT, "AT+CCFC=0,1,,5")*/
STRING(C_PLUS_CCFC_CFU_VD_ACT, "AT+CCFC=0,1,,3")
```

```
/*----- AT commands ----- */
```

```
/* OK Response */
BEGINARRAY (F_RESP_OK, 6) 0x10, 0x00, 0x00, 0x00, 0x4F, 0x4B
ENDARRAY
```

```
/* +CBST Response */
BEGINARRAY (F_RESP_CBST, 16) 0x60, 0x00, 0x00, 0x00, 0x2b, 0x43, 0x42, 0x53, 0x54, 0x3a, 0x20, 0x37, 0x2c, 0x30, 0x2c,
    0x31
ENDARRAY
```

```
/* +FCO Response */
BEGINARRAY (F_RESP_FCO, 6) 0x20, 0x00, 0x00, 0x00, 0x2B, 0x46, 0x43, 0x4f
ENDARRAY
```

```
/* 1. +COPN Response */
BEGINARRAY (F_RESP_COPN, 41) 0x28, 0x01, 0x00, 0x00, 0x2b, 0x43, 0x4f, 0x50, 0x4e, 0x3a, 0x20, 0x22, 0x35, 0x35, 0x35,
    0x35, 0x35, 0x22, 0x2c, 0x22, 0x5a, 0x57, 0x41, 0x4e, 0x5a, 0x49, 0x47, 0x20, 0x54, 0x45, 0x4c, 0x45, 0x4b, 0x4f, 0x4d, 0x20,
    0x40, 0x43, 0x4f, 0x4d, 0x22
ENDARRAY
```

```
/* CONNECT Response */
BEGINARRAY (F_RESP_CONNECT, 11) 0x38, 0x00, 0x00, 0x00, 0x43, 0x4F, 0x4E, 0x4E, 0x45, 0x43, 0x54
ENDARRAY
```

```
/* NO CARRIER Response */
BEGINARRAY (F_RESP_NO_CARRIER, 11) 0x50, 0x00, 0x00, 0x00, 0x4E, 0x4F, 0x20, 0x43, 0x41, 0x52, 0x52, 0x49, 0x45, 0x52
```

ENDARRAY

/ "Error" Response */*

BEGINARRAY (F_RESP_ERROR, 9) 0x28, 0x00, 0x00, 0x00, 0x45, 0x52, 0x52, 0x4f, 0x52
ENDARRAY

/ Echo ATE0 */*

BEGINARRAY (F_RESP_TE0_CR_OK, 10) 0x30, 0x00, 0x00, 0x00, 0x54, 0x45, 0x30, 0x0d, 0x4f, 0x4b
ENDARRAY

/ */*

BEGINARRAY (F_RESP_A, 5) 0x08, 0x00, 0x00, 0x00, 0x41
ENDARRAY

/ */*

BEGINARRAY (F_RESP_T, 5) 0x08, 0x00, 0x00, 0x00, 0x54
ENDARRAY

/ */*

BEGINARRAY (F_RESP_E, 5) 0x08, 0x00, 0x00, 0x00, 0x45
ENDARRAY

/ */*

BEGINARRAY (F_RESP_0, 5) 0x08, 0x00, 0x00, 0x00, 0x30
ENDARRAY

/ AT cmd GPAT+CF field */*

BEGINARRAY (F_AT_CF, 11) 0x38, 0x00, 0x00, 0x00, 0x47, 0x50, 0x41, 0x54, 0x2B, 0x43, 0x46
ENDARRAY

/ AT cmd AT+FBU=1 field */*

BEGINARRAY (F_AT_FBU_1, 13) 0x48, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x46, 0x42, 0x55, 0x3D, 0x31, 0x0D
ENDARRAY

/ AT cmd ATH field */*

BEGINARRAY (F_AT_H, 8) 0x20, 0x00, 0x00, 0x00, 0x41, 0x54, 0x48, 0x0D
ENDARRAY

/ AT cmd ATO field */*

BEGINARRAY (F_AT_O, 8) 0x20, 0x00, 0x00, 0x00, 0x41, 0x54, 0x4F, 0x0D
ENDARRAY

/ AT cmd AT_UN1 field */*

BEGINARRAY (F_AT_UN1, 9) 0x28, 0x00, 0x00, 0x00, 0x55, 0x4E, 0x3D, 0x31, 0x0D
ENDARRAY

/ AT cmd AT+COPN field */*

BEGINARRAY (F_AT_COPN, 12) 0x40, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x4F, 0x50, 0x4E, 0x0D
ENDARRAY

/ AT cmd A/ field */*

BEGINARRAY (F_AT_REP, 7) 0x18, 0x00, 0x00, 0x00, 0x41, 0x2F, 0x0D
ENDARRAY

/ AT cmd AT+CBST=71,0,1 field */*

```
BEGINARRAY (F_AT_CBST_NONTRA, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x42, 0x53, 0x54, 0x3D, 0x37, 0x31,  
0x2C, 0x30, 0x2C, 0x31, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+CBST=71,0,0 field */
```

```
BEGINARRAY (F_AT_CBST_TRA, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x42, 0x53, 0x54, 0x3D, 0x37, 0x31, 0x2C,  
0x30, 0x2C, 0x30, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+CBST? field */
```

```
BEGINARRAY (F_AT_CBST_CHECK, 13) 0x48, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x42, 0x53, 0x54, 0x3F, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd ATD123456 field */
```

```
BEGINARRAY (F_AT_D_DAT, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x44, 0x30, 0x33, 0x30, 0x33, 0x39, 0x30, 0x39, 0x34, 0x34,  
0x34, 0x34, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+FCLASS=2 field */
```

```
BEGINARRAY (F_AT_FCLASS_2, 18) 0x70, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x46, 0x43, 0x4C, 0x41, 0x53, 0x53, 0x3D, 0x32,  
0x2E, 0x30, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+FDT field */
```

```
BEGINARRAY (F_AT_FDT, 11) 0x38, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x46, 0x44, 0x54, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+FET=0 field */
```

```
BEGINARRAY (F_AT_FET0, 13) 0x48, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x46, 0x45, 0x54, 0x3D, 0x30, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+FET=2 field */
```

```
BEGINARRAY (F_AT_FET2, 13) 0x48, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x46, 0x45, 0x54, 0x3D, 0x32, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+BLUP field */
```

```
BEGINARRAY (F_AT_BLUP, 12) 0x40, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x42, 0x4C, 0x55, 0x50, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd ATE0 field */
```

```
BEGINARRAY (F_AT_E0, 9) 0x28, 0x00, 0x00, 0x00, 0x41, 0x54, 0x45, 0x30, 0x0D
```

```
ENDARRAY
```

```
/* AT cmd AT+CMUX field */
```

```
BEGINARRAY (F_AT_CMUX, 14) 0x50, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x4D, 0x55, 0x58, 0x3D, 0x31, 0x0D
```

```
ENDARRAY
```

```
/* --- international mobil subscriber identity --- */
```

```
BEGINARRAY (IMSI_FIELD_DATA, 9)  
0x20, 0x26, 0x30, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
```

```
ENDARRAY
```

```
/* --- IMSI --- */
```

```
BEGIN_PSTRUCT ("imsi_field", IMSI_E_PLUS)
```

```
        SET_COMP ("c_field",      0x09)
        SET_COMP ("field",        IMSI_FIELD_DATA)
ENDSTRUCT

/* chipcard identification field */
BEGINARRAY (F_ICC, 10)
    0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, 0x00
ENDARRAY

/* mobile country code field */
BEGINARRAY (F_MCC_123, 3) 0x01, 0x02, 0x03 ENDARRAY
BEGINARRAY (F_MCC_262, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (F_MCC_555, 3) 0x05, 0x05, 0x05 ENDARRAY

BEGIN_PSTRUCT_ARRAY (F_PLMN_LST, 12)
    PLMN_LST_1, PLMN_LST_2, PLMN_LST_3, PLMN_LST_4, PLMN_LST_5,
    EMPTY_PLMN_LST, EMPTY_PLMN_LST, EMPTY_PLMN_LST,
    EMPTY_PLMN_LST, EMPTY_PLMN_LST, EMPTY_PLMN_LST,
    EMPTY_PLMN_LST
ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_LST_1)
    SET_COMP ("v_plmn", 0x01)
    SET_COMP ("mcc", MCC_PLMN_LST_1)
    SET_COMP ("mnc", MNC_PLMN_LST_1)
ENDSTRUCT

BEGINARRAY (MCC_PLMN_LST_1, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_1, 3) 0x00, 0x01, 0x0F ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_LST_2)
    SET_COMP ("v_plmn", 0x01)
    SET_COMP ("mcc", MCC_PLMN_LST_2)
    SET_COMP ("mnc", MNC_PLMN_LST_2)
ENDSTRUCT

BEGINARRAY (MCC_PLMN_LST_2, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_2, 3) 0x00, 0x02, 0x0F ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_LST_3)
    SET_COMP ("v_plmn", 0x01)
    SET_COMP ("mcc", MCC_PLMN_LST_3)
    SET_COMP ("mnc", MNC_PLMN_LST_3)
ENDSTRUCT

BEGINARRAY (MCC_PLMN_LST_3, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_3, 3) 0x00, 0x03, 0x0F ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_LST_4)
    SET_COMP ("v_plmn", 0xFF)
    SET_COMP ("mcc", MCC_PLMN_LST_4)
    SET_COMP ("mnc", MNC_PLMN_LST_4)
ENDSTRUCT

BEGINARRAY (MCC_PLMN_LST_4, 3) 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_4, 2) 0x00, 0x00 ENDARRAY
```

```

BEGIN_PSTRUCT ("plmn", PLMN_LST_5)
    SET_COMP ("v_plmn", 0xFF)
    SET_COMP ("mcc", MCC_PLMN_LST_5)
    SET_COMP ("mnc", MNC_PLMN_LST_5)
ENDSTRUCT

BEGINARRAY (MCC_PLMN_LST_5, 3) 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_5, 2) 0x00, 0x00 ENDARRAY

BEGINARRAY (MCC_PLMN_LST_6, 3) 0x01, 0x02, 0x03 ENDARRAY
BEGINARRAY (MNC_PLMN_LST_6, 3) 0x04, 0x05, 0x06 ENDARRAY

BEGINARRAY (F_FRB_PLMN_LST, 7)
    0x00, 0x00, 0x00, 0x01, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_RXL_PLMN_LST, 7)
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGIN_PSTRUCT ("plmn", EMPTY_PLMN_LST)
    SET_COMP ("v_plmn", 0xFF)
    SKIP_COMP ("mcc")
    SKIP_COMP ("mnc")
ENDSTRUCT

/* mobile network code field */
BEGINARRAY (F_MNC_45F, 2) 0x04, 0x05, 0x0F ENDARRAY
BEGINARRAY (F_MNC_01F, 3) 0x00, 0x01, 0x0F ENDARRAY
BEGINARRAY (F_MNC_02F, 3) 0x00, 0x02, 0x0F ENDARRAY
BEGINARRAY (F_MNC_55, 2) 0x05, 0x05 ENDARRAY

/*----- arrays -----*/
BEGINARRAY (SIM_SERV_ADN_BDN_SDN, 10)
    0xCF, // 1100 1111
    0x3C, // 0011 1100
    0x3C, // 0011 1100
    0x03, // 0000 0011
    0xFF, // 1111 1111
    0x00, // 0000 0000
    0xC0, // 1100 0000
    0x30, // 0011 0000
    0x00, // 0000 0000
    0x00 // 0000 0000
ENDARRAY

BEGINARRAY (SIM_SERV_ABSDN_NOSTK, 10) //ADN BDN SDN no STK CCcheck
    0xCF, // 1100 1111
    0x3C, // 0011 1100
    0x3C, // 0011 1100
    0x03, // 0000 0011
    0xFF, // 1111 1111
    0x00, // 0000 0000
    0x00, // 0000 0000

```

```
0x30, // 0011 0000
0x00, // 0000 0000
0x00 // 0000 0000
ENDARRAY

// Service table signalling a support for GID1 and GID2 file on the SIM
BEGINARRAY (SIM_SERV_GID1_GID2, 10)
0xCF, // 1100 1111 : 01-04
0xCC, // 1100 1100 : 05-08
0x3C, // 0011 1100 : 09-12
0xF3, // 1111 0011 : 13-16
0xFF, // 1111 1111
0x00, // 0000 0000
0xC0, // 1100 0000
0x30, // 0011 0000
0x00, // 0000 0000
0x00 // 0000 0000
ENDARRAY

// Service table signalling a support for GID1 but not for the GID2 file on the SIM
BEGINARRAY (SIM_SERV_GID1_NOGID2, 10)
0xCF, // 1100 1111 : 01-04
0xCC, // 1100 1100 : 05-08
0x3C, // 0011 1100 : 09-12
0x33, // 0011 0011 : 13-16
0xFF, // 1111 1111
0x00, // 0000 0000
0xC0, // 1100 0000
0x30, // 0011 0000
0x00, // 0000 0000
0x00 // 0000 0000
ENDARRAY

/* PIN 1234 array */
BEGINARRAY_PART (A_PIN_1234,8) 0x31, 0x32, 0x33, 0x34, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY
/* PIN 4321 array */
BEGINARRAY_PART (A_PIN_4321,8) 0x34, 0x33, 0x32, 0x31, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY
/* PIN 1256 array */
BEGINARRAY_PART (A_PIN_12534,8) 0x31, 0x32, 0x35, 0x33, 0x34, 0xFF, 0xFF, 0xFF ENDARRAY
/* calling number array */
BEGINARRAY_PART (A_CLG_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x2, 0x2, 0x3 ENDARRAY
BYTE LA_CLG_NUM 11
/* calling emergency array */
BEGINARRAY_PART (A_CLG_EMERG112,3) 0x1, 0x1, 0x2 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG000,3) 0x0, 0x0, 0x0 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG08,2) 0x0, 0x8 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG110,3) 0x1, 0x1, 0x0 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG118,3) 0x1, 0x1, 0x8 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG119,3) 0x1, 0x1, 0x9 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG911,3) 0x9, 0x1, 0x1 ENDARRAY
BEGINARRAY_PART (A_CLG_EMERG999,3) 0x9, 0x9, 0x9 ENDARRAY
BEGINARRAY_PART (A_CLG_NOEMERG999099,6) 0x9, 0x9, 0x9, 0x0, 0x9, 0x9 ENDARRAY
BYTE LA_CLG_EMERG 3
BYTE LA_CLG_EMERG08 2
BYTE LA_CLG_NOEMERG 6
```

```
/* called number array */
BEGINARRAY_PART (A_CLD_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x4, 0x4, 0x4 ENDARRAY
BYTE LA_CLD_NUM 11
/* called emergency array */
BEGINARRAY_PART (A_CLD_EMERG112,3) 0x1, 0x1, 0x2 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG000,3) 0x0, 0x0, 0x0 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG08,2) 0x0, 0x8 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG110,3) 0x1, 0x1, 0x0 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG118,3) 0x1, 0x1, 0x8 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG119,3) 0x1, 0x1, 0x9 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG911,3) 0x9, 0x1, 0x1 ENDARRAY
BEGINARRAY_PART (A_CLD_EMERG999,3) 0x9, 0x9, 0x9 ENDARRAY
BEGINARRAY_PART (A_CLD_NOEMERG999099,6) 0x9, 0x9, 0x9, 0x0, 0x9, 0x9 ENDARRAY
BYTE LA_CLD_EMERG 3
BYTE LA_CLD_EMERG08 2
BYTE LA_CLD_NOEMERG 6
/* international called number array */
BEGINARRAY_PART (A_CLD_NUM_INT,13) 0x4, 0x9, 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x4, 0x4, 0x4 ENDARRAY
BYTE LA_CLD_NUM_INT 13
/* EF PLMNsel field array */
BEGINARRAY_PART (A_EF_PLMNSEL,30) 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF, 0xFF, 0xFF, 0x62, 0xF2,
0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY

/* EF PLMNsel field array, deleted entry*/
BEGINARRAY_PART (A_EF_PLMNSEL_DEL,26) 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x20, 0xFF, 0xFF, 0xFF, 0x62,
0xF2, 0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF ENDARRAY

/* EF PLMNsel field array, deleted entry, compact*/
BEGINARRAY_PART (A_EF_PLMNSEL_DEL_CMP,26) 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33,
0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, inserted entry, compact*/
BEGINARRAY_PART (A_EF_PLMNSEL_INS_CMP,26) 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0x82, 0xF4, 0x10, 0x62, 0xF2, 0x30,
0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, inserted 1st entry, compact*/
BEGINARRAY_PART (A_EF_PLMNSEL_INS_1_CMP,26) 0x82, 0xF4, 0x10, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30,
0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, append entry, compact*/
BEGINARRAY_PART (A_EF_PLMNSEL_NEW_CMP,26) 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70,
0x32, 0xF4, 0x33, 0x82, 0xF4, 0x10, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, changed entries, compact*/
BEGINARRAY_PART (A_EF_PLMNSEL_CHG_CMP,26) 0x32, 0xF4, 0x33, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70,
0x62, 0xF2, 0x10, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, overwritten entry*/
BEGINARRAY_PART (A_EF_PLMNSEL_OVR,26) 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF, 0xFF, 0xFF, 0x82,
0xF4, 0x10, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array */
BEGINARRAY_PART (A_EF_PLMNSEL_NEW,26) 0x82, 0xF4, 0x10, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF, 0xFF, 0xFF, 0x62,
0xF2, 0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF ENDARRAY
/* EF ECC field array */
BEGINARRAY (A_ECC_FIELD,12) 0x11, 0xF2, 0xFF, 0x99, 0xF9, 0xFF, 0x21, 0x43, 0x65, 0xFF, 0xFF, 0xFF ENDARRAY
/* EF ECC field array empty */
BEGINARRAY (A_ECC_FIELD_EMPTY,12) 0xFF, 0xFF
ENDARRAY
/* EF AD field array , disable CI */
BEGINARRAY_PART (A_AD_FIELD_CI_DISABLED,4) 0x00, 0x00, 0x00, 0x02 ENDARRAY
```

```
/* EF AD field array , enable CI */
BEGINARRAY_PART (A_AD_FIELD_CI_ENABLED,4) 0x00, 0x00, 0x01, 0x02 ENDARRAY
/* EF ACM field array */
BEGINARRAY_PART (A_ACM_FIELD,3) 0x12, 0x34, 0x56 ENDARRAY
/* EF ADN record array */
BEGINARRAY (A_ADN_REC,20) 0x01, 0x23, 0x45, 0x67, 0x89, 0xAB, 0xCD, 0xEF, 0x01, 0x23, 0x45, 0x67, 0x89, 0xAB, 0xCD,
0xEF, 0x01, 0x23, 0x45, 0x67 ENDARRAY

/* SIM CPHS Fields */
/* EF CPHS CFU field array */
BEGINARRAY_PART (A_CPHS_CFU_FIELD,2)
    0x55, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_ALL,2)
    0xAA, 0xAA
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_LINE1,2)
    0xA5, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_L1L2,2)
    0xAA, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_NOLINE2,2)
    0xA5, 0xAA
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_LINE2,2)
    0x5A, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_CFU_FIELD_NOLINE1,2)
    0x5A, 0xAA
ENDARRAY

BYTE CPHS_CFU_LEN 2

/* EF VMW - CPHS VMW field array */
BEGINARRAY_PART (A_CPHS_VMW_FIELD,2)
    0x55, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_VMW_FIELD_ALL,2)
    0xAA, 0xAA
ENDARRAY

BEGINARRAY_PART (A_CPHS_VMW_FIELD_LINE1,2)
    0xA5, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_VMW_FIELD_L1L2,2)
```

```
0xAA, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_VVM_FIELD_NOLINE2,2)
0xA5, 0xAA
ENDARRAY

BEGINARRAY_PART (A_CPHS_VVM_FIELD_LINE2,2)
0x5A, 0x55
ENDARRAY

BEGINARRAY_PART (A_CPHS_VVM_FIELD_NOLINE1,2)
0x5A, 0xAA
ENDARRAY

BYTE CPHS_VVM_LEN 2

/* EF CPHS SST field array */
BEGINARRAY_PART (A_CPHS_SST_FIELD,4)
0x00, 0x00, 0x00, 0x00
ENDARRAY
BYTE CPHS_SST_LEN 4

/* EF CPHS OPN field array */
BEGINARRAY_PART (A_CPHS_OPN_FIELD,20)
0x54, 0x2D, 0x4D, 0x6F, 0x62, 0x69, 0x6C, 0x20,
0x44, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00
ENDARRAY
BYTE CPHS_OPN_LEN 20

/* EF CPHS OPNS field array */
BEGINARRAY_PART (A_CPHS_OPNS_FIELD,5)
0x54, 0x4D, 0x4F, 0x20, 0x44
ENDARRAY
BYTE CPHS_OPNS_LEN 5

/* EF CPHS CSP field array */
BYTE CPHS_CSP_LEN 18
BEGINARRAY_PART (A_CPHS_CSP_FIELD,18)
0x01, 0xF8,
0x02, 0xF8,
0x03, 0xF8,
0x04, 0xF0,
0x05, 0xFE,
0x06, 0x80,
0x07, 0x80,
0x08, 0xFB,
0x09, 0xFC
ENDARRAY

/* EF CINF - CPHS INF field array */
BEGINARRAY_PART (A_CPHS_INF_FIELD,3)
0x01, 0x00, 0x00
ENDARRAY
BYTE CPHS_INF_LEN 3
```

```
/* EF CINF - CPHS INF ALL field array */
BEGINARRAY_PART (A_CPHS_INF_ALL_FIELD,3)
    0x02, 0xFF, 0x03
ENDARRAY
BYTE CPHS_INF_ALL_LEN 3

/* EF CPHS INUM field array */
BEGINARRAY_PART (A_CPHS_INUM_FIELD,20)
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00
ENDARRAY
BYTE CPHS_INUM_LEN 20

BYTE A_CPHS_INUM_REC1_LEN 12
BEGINARRAY_PART (A_CPHS_INUM_REC1, A_CPHS_INUM_REC1_LEN)
    0x06, 0xC1, 0x54, 0x52, 0x41, 0x56, 0x45, 0x4C,
    0x01, 0x81, 0xFF, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC2_LEN 11
BEGINARRAY_PART (A_CPHS_INUM_REC2, A_CPHS_INUM_REC2_LEN)
    0x05, 0xC2, 0x54, 0x41, 0x58, 0x49, 0x53,
    0x01, 0x81, 0xFF, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC3_LEN 19
BEGINARRAY_PART (A_CPHS_INUM_REC3, A_CPHS_INUM_REC3_LEN)
    0x0C, 0xC3, 0x43, 0x6F, 0x6D, 0x70, 0x75, 0x74, 0x65, 0x72, 0x63, 0x61, 0x62, 0x73,
    0x03, 0x81, 0x11, 0xF1, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC4_LEN 21
BEGINARRAY_PART (A_CPHS_INUM_REC4, A_CPHS_INUM_REC4_LEN)
    0x0A, 0xC3, 0x44, 0x69, 0x61, 0x6C, 0x2D, 0x61, 0x2D, 0x63, 0x61, 0x62,
    0x03, 0x81, 0x31, 0xF2, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC5_LEN 14
BEGINARRAY_PART (A_CPHS_INUM_REC5, A_CPHS_INUM_REC5_LEN)
    0x08, 0xC2, 0x41, 0x49, 0x52, 0x50, 0x4F, 0x52, 0x54, 0x53,
    0x01, 0x81, 0xFF, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC6_LEN 15
BEGINARRAY_PART (A_CPHS_INUM_REC6, A_CPHS_INUM_REC6_LEN)
    0x08, 0xC3, 0x48, 0x65, 0x61, 0x74, 0x68, 0x72, 0x6F, 0x77,
    0x03, 0x81, 0x43, 0xF5, 0xFF
ENDARRAY

BYTE A_CPHS_INUM_REC7_LEN 14
BEGINARRAY_PART (A_CPHS_INUM_REC7, A_CPHS_INUM_REC7_LEN)
    0x07, 0xC3, 0x47, 0x61, 0x74, 0x77, 0x69, 0x63, 0x6B,
    0x03, 0x81, 0x56, 0xF1, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_INUM_REC8_LEN 13
BEGINARRAY_PART (A_CPHS_INUM_REC8, A_CPHS_INUM_REC8_LEN)
    0x07, 0xC1, 0x57, 0x45, 0x41, 0x54, 0x48, 0x45, 0x52,
    0x01, 0x81, 0xFF, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_INUM_REC9_LEN 12
BEGINARRAY_PART (A_CPHS_INUM_REC9, A_CPHS_INUM_REC9_LEN)
    0x05, 0xC2, 0x4E, 0x6F, 0x72, 0x74, 0x68,
    0x03, 0x81, 0x23, 0xF3, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_INUM_REC10_LEN 12
BEGINARRAY_PART (A_CPHS_INUM_REC10, A_CPHS_INUM_REC10_LEN)
    0x05, 0xC2, 0x53, 0x6F, 0x75, 0x74, 0x68,
    0x03, 0x81, 0x95, 0xF7, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_INUM_REC11_LEN 19
BEGINARRAY_PART (A_CPHS_INUM_REC11, A_CPHS_INUM_REC11_LEN)
    0x0D, 0xC1, 0x45, 0x4E, 0x54, 0x45, 0x52, 0x54, 0x41, 0x49, 0x4E, 0x4D, 0x45, 0x4E, 0x54,
    0x01, 0x81, 0xFF, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_INUM_REC12_LEN 19
BEGINARRAY_PART (A_CPHS_INUM_REC12, A_CPHS_INUM_REC12_LEN)
    0x0C, 0xC2, 0x54, 0x69, 0x63, 0x6B, 0x65, 0x74, 0x6D, 0x61, 0x73, 0x74, 0x65, 0x72,
    0x03, 0x81, 0x65, 0xF2, 0xFF
ENDARRAY
```

/* EF CPHS MB field array */

```
BYTE A_CPHS_MB1_REC1_LEN 20
BEGINARRAY_PART (A_CPHS_MB1_REC1, A_CPHS_MB1_REC1_LEN)
    0x4C, 0x69, 0x6E, 0x65, 0x20, 0x31,
    0x04,
    0x81,
    0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
    0x00, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_MB1_REC2_LEN 20
BEGINARRAY_PART (A_CPHS_MB1_REC2, A_CPHS_MB1_REC2_LEN)
    0x4C, 0x69, 0x6E, 0x65, 0x20, 0x32,
    0x04,
    0x81,
    0x56, 0x34, 0x12, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
    0x00, 0xFF
ENDARRAY
```

```
BYTE A_CPHS_MB1_REC3_LEN 18
BEGINARRAY_PART (A_CPHS_MB1_REC3, A_CPHS_MB1_REC3_LEN)
    0x44, 0x61, 0x74, 0x61,
    0x04,
    0x81,
```

0x31, 0x75, 0xF9, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x00, 0xFF

ENDARRAY

BYTE A_CPHS_MB1_REC4_LEN 17

BEGINARRAY_PART (A_CPHS_MB1_REC4, A_CPHS_MB1_REC4_LEN)

0x46, 0x61, 0x78,
0x04,
0x81,
0x68, 0x24, 0xF0, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x00, 0xFF

ENDARRAY

/ a second EF CPHS MB field array */*

BYTE A_CPHS_MB2_REC1_LEN 30

BEGINARRAY_PART (A_CPHS_MB2_REC1, A_CPHS_MB2_REC1_LEN)

0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x07, 0x91, 0x94, 0x71,
0x39, 0x00, 0x30, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF

ENDARRAY

BYTE A_CPHS_MB2_REC2_LEN 30

BEGINARRAY_PART (A_CPHS_MB2_REC2, A_CPHS_MB2_REC2_LEN)

0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF

ENDARRAY

BYTE A_CPHS_MB2_REC3_LEN 30

BEGINARRAY_PART (A_CPHS_MB2_REC3, A_CPHS_MB2_REC3_LEN)

0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF

ENDARRAY

BYTE A_CPHS_MB2_REC4_LEN 30

BEGINARRAY_PART (A_CPHS_MB2_REC4, A_CPHS_MB2_REC4_LEN)

0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF

ENDARRAY

/ MSISDN field array */*

BYTE LDATA_MSISDN 34

BEGINARRAY(DATA_MSISDN, 34)

0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08,
0x81,
0x30, 0x30, 0x49, 0x19, 0x44, 0xF7, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF

ENDARRAY

BEGINARRAY(DATA_MSISDN2, 34)

0x4C, 0x49, 0x4E, 0x45, 0x32, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,

```
0x08,
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
BEGINARRAY(DATA_MSISDN3, 34)
0x4C, 0x49, 0x4E, 0x45, 0x32, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF,
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
BEGINARRAY(DATA_MSISDN4, 34)
0x4C, 0x49, 0x4E, 0x45, 0x32, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08,
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x01, 0x02
ENDARRAY
BEGINARRAY(DATA_MSISDN5, 34)
0x4C, 0x49, 0x4E, 0x45, 0x32, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08,
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x02, 0x02
ENDARRAY
BYTE LDATA_CCP 14
BEGINARRAY(DATA_CCP, 14)
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
BYTE LDATA_CCP2 14
BEGINARRAY(DATA_CCP2, 14)
0x01, 0xA0, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
BYTE LDATA_CCP3 14
BEGINARRAY(DATA_CCP3, 14)
0x01, 0xA6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* SDN field array */
BEGINARRAY(DATA_SDN000, 34) 0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08,
0x81,
0x00, 0xF0, 0xFF, 0xFF
ENDARRAY
BEGINARRAY(DATA_SDN119, 34) 0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08,
0x81,
0x11, 0xF9, 0xFF, 0xFF
ENDARRAY
BEGINARRAY(DATA_SDN911, 34) 0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
```

```
0x08,
0x81,
0x19, 0xF1, 0xFF, 0xFF
ENDARRAY
BYTE LDATA_SDN 34

/* EF SMS record array */
BEGINARRAY_PART (A_SMS_REC,10) 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90 ENDARRAY
/* get response data */
BEGINARRAY (A_RESP_DATA,10) 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90 ENDARRAY

/* EF ELP field array */
BEGINARRAY (A_ELP_FIELD,20) 0x64, 0x65, 0x65, 0x6E, 0x61, 0x72, 0x66, 0x72, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY

/*BEGINARRAY (A_ELP_FIELD,20) 0x73, 0x76, 0x65, 0x6E, 0x61, 0x72, 0x66, 0x72, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY*/

/* EF ELP field array */
BEGINARRAY (A_ELP_LAN_NOT_SUP,20) 0x73, 0x76, 0x65, 0x6E, 0x61, 0x72, 0x66, 0x72, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY

/* EF LP field array */
BEGINARRAY (A_LP_FIELD,5) 0x16, 0x02, 0x03, 0x04, 0xFF ENDARRAY

/* EF LP field array */
BEGINARRAY (A_LP_LAN_NOT_SUP,5) 0x17, 0x02, 0x03, 0x04, 0xFF ENDARRAY

/*AT cmd neighbour cell field */
BEGIN_SHORT_ARRAY (A_ARFCN_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_SHORT_ARRAY (A_C1_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_SHORT_ARRAY (A_C2_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGINARRAY (A_RXLEV_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGINARRAY (A_BSIC_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_SHORT_ARRAY (A_CELL_ID_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_SHORT_ARRAY (A_LAC_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_LONG_ARRAY (A_FRAME_OFFSET,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGIN_LONG_ARRAY (A_TIME_ALIGNMT,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGINARRAY (A_CBA_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY
BEGINARRAY (A_CBQ_NC,6) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 ENDARRAY

BEGINARRAY (A_IDENT_DIG, 16) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08
ENDARRAY
BEGINARRAY (EM_FF, 6) 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

BEGIN_SHORT_ARRAY (A_MA, 3) 0x1, 0x2, 0xFFFF ENDARRAY
BEGIN_SHORT_ARRAY (A_MA2, 3) 0x4, 0x5, 0xFFFF ENDARRAY

/*----- SIM lock ----- */

/* IMSI with network id not matching ME */
BEGINARRAY (IMSI_FIELD_NW_FAIL_DATA,9)
/*      0x02,0x21,0x30,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF is correct      */
      0x02,0x21,0x40,0x02,0x02,0x03,0xFF,0xFF,0xFF
ENDARRAY
```

```

/* IMSI with subnetwork id not matching ME */
BEGINARRAY (IMSI_FIELD_NWSUB_FAIL_DATA,9)
/*      0x02,0x21,0x30,0x01,0xFF,0xFF,0xFF,0xFF,0xFF is correct      */
      0x02,0x21,0x30,0x02,0x03,0x03,0xFF,0xFF,0xFF
ENDARRAY

```

```

/* IMSI with correct NW and subNW */
BEGINARRAY (IMSI_FIELD_NW_NS_OK_DATA,9)
/*      0x02,0x21,0x30,0x01,0xFF,0xFF,0xFF,0xFF,0xFF is correct      */
      0x02,0x21,0x30,0x01,0x02,0x03,0xFF,0xFF,0xFF
ENDARRAY

```

```

/* IMSI with correct NW and subNW but not matching the rest of the IMSI*/
BEGINARRAY (IMSI_FIELD_SIM_FAIL_DATA,9)
/*      0x02,0x21,0x30,0x01,0x02,0x03,0x45,0x67,0x89 is correct      */
      0x02,0x21,0x30,0x01,0x02,0x03,0x45,0x77,0xFF
ENDARRAY

```

```

/* IMSI matching (one of) the IMSI(s), the ME is personalised on */
BEGINARRAY (IMSI_FIELD_SIM_OK_DATA,9)
/*      0x02,0x21,0x30,0x01,0x02,0x03,0x45,0x67,0x89 is correct      */
      0x02,0x21,0x30,0x01,0x02,0x03,0x45,0x67, 0x89
ENDARRAY

```

```

BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD_NW_FAIL)
    SET_COMP ("c_field",      0x09)
    SET_COMP ("field",       IMSI_FIELD_NW_FAIL_DATA)
ENDSTRUCT
BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD_NWSUB_FAIL)
    SET_COMP ("c_field",      0x09)
    SET_COMP ("field",       IMSI_FIELD_NWSUB_FAIL_DATA)
ENDSTRUCT
BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD_NW_NS_OK)
    SET_COMP ("c_field",      0x09)
    SET_COMP ("field",       IMSI_FIELD_NW_NS_OK_DATA)
ENDSTRUCT
BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD_SIM_FAIL)
    SET_COMP ("c_field",      0x09)
    SET_COMP ("field",       IMSI_FIELD_SIM_FAIL_DATA)
ENDSTRUCT
BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD_SIM_OK)
    SET_COMP ("c_field",      0x09)
    SET_COMP ("field",       IMSI_FIELD_SIM_OK_DATA)
ENDSTRUCT

```

```

/* GID1 and GID2 files for SP and corporate lock tests */
BEGINARRAY (A_GID1_FAIL_FIELD,3) 0x02,0xFF,0xFF ENDARRAY
BEGINARRAY (A_GID1_OK_FIELD,3) 0x01,0xFF,0xFF ENDARRAY
BEGINARRAY (A_GID2_FAIL_FIELD,3) 0x02,0xFF,0xFF ENDARRAY
BEGINARRAY (A_GID2_OK_FIELD,3) 0x01,0xFF,0xFF ENDARRAY

```

```

/*----- SS facilities ----- */

```

```
/* invoke build MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_BUILD_MPTY)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_BUILD_MPTY_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_BUILD_MPTY_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7C
ENDARRAY

/* invoke split MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_SPLIT_MPTY)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_SPLIT_MPTY_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_SPLIT_MPTY_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x79
ENDARRAY

/* invoke hold MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_HOLD_MPTY)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_HOLD_MPTY_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_HOLD_MPTY_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x7B
ENDARRAY

/* invoke hold MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_HOLD_MPTY_2)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_HOLD_MPTY_2_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_HOLD_MPTY_2_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x03, 0x02, 0x01, 0x7B
ENDARRAY

/* invoke retrieve MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_RETRIEVE_MPTY)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_RETRIEVE_MPTY_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_RETRIEVE_MPTY_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x02, 0x02, 0x01, 0x7A
ENDARRAY
```

```
/* invoke ECT FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_ECT)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_ECT_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_ECT_CONTENT, 8)
    0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7E
ENDARRAY

/* invoke ECT FIE Retry !*/
BEGIN_PSTRUCT ("fac_in#", A_FAC_ECT_2)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_ECT_CONTENT_2)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_ECT_CONTENT_2, 8)
    0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x7E
ENDARRAY

/* invoke CCBS FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_CCBS)
    SET_COMP ("l_fac", 0x0050)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_CCBS_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_CCBS_CONTENT, 10)
    0xA1, 0x08, 0x02, 0x01, 0x00, 0x02, 0x01, 0x77, 0x30, 0x00
ENDARRAY

/* invoke notify CCBS */
BEGIN_PSTRUCT ("fac_in#", A_FAC_NTFY_CCBS)
    SET_COMP ("l_fac", 0x0100)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_NTFY_CCBS_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_NTFY_CCBS_CONTENT, 32)
    0xA1, 0x1E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x10, 0x30, 0x16, 0xB5, 0x11, 0x80, 0x01, 0x01, 0x81, 0x07, 0x91, 0x94,
    0x03, 0x93, 0x90, 0x44, 0x44, 0xA3, 0x03, 0x83, 0x01, 0x10, 0x96, 0x01, 0x03
ENDARRAY

/* empty FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_EMPTY)
    SKIP_COMP ("l_fac")
    SKIP_COMP ("o_fac")
    SKIP_COMP ("fac")
ENDSTRUCT

/* result build MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_BUILD_MPTY_RES)
    SET_COMP ("l_fac", 0x0028)
    SET_COMP ("o_fac", 0x0000)
```

```
        SET_COMP ("fac", A_FAC_BUILD_MPTY_RES_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_BUILD_MPTY_RES_CONTENT, 5)
    0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result split MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_SPLIT_MPTY_RES)
    SET_COMP ("l_fac", 0x0028)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_SPLIT_MPTY_RES_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_SPLIT_MPTY_RES_CONTENT, 5)
    0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result hold MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_HOLD_MPTY_RES)
    SET_COMP ("l_fac", 0x0028)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_HOLD_MPTY_RES_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_HOLD_MPTY_RES_CONTENT, 5)
    0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result retrieve MPTY FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_RETRIEVE_MPTY_RES)
    SET_COMP ("l_fac", 0x0028)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_RETRIEVE_MPTY_RES_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_RETRIEVE_MPTY_RES_CONTENT, 5)
    0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result ECT FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_ECT_RES)
    SET_COMP ("l_fac", 0x0028)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_ECT_RES_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (A_FAC_ECT_RES_CONTENT, 5)
    0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result ECT FIE */
BEGIN_PSTRUCT ("fac_in#", A_FAC_ECT_REJ_RES)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_ECT_REJ_RES_CONTENT)
```

ENDSTRUCT

```
BEGINARRAY_PART (A_FAC_ECT_REJ_RES_CONTENT, 8)
    0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x11
ENDARRAY
```

/* result CCBS FIE */

```
BEGIN_PSTRUCT ("fac_inf", A_FAC_CCBS_RES)
    SET_COMP ("l_fac", 0x00F8)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_CCBS_RES_CONTENT)
ENDSTRUCT
```

```
BEGINARRAY_PART (A_FAC_CCBS_RES_CONTENT, 31)
    0xA2, 0x1D, 0x02, 0x01, 0x00, 0x30, 0x18, 0x02, 0x01, 0x77, 0x30, 0x13, 0xA0, 0x11, 0x80, 0x01, 0x01, 0x81, 0x07,
    0x91, 0x94, 0x03, 0x93, 0x90, 0x24, 0x32, 0xA3, 0x03, 0x83, 0x01, 0x10
ENDARRAY
```

/* error CCBS FIE */

```
BEGIN_PSTRUCT ("fac_inf", A_FAC_CCBS_ERR)
    SET_COMP ("l_fac", 0x0040)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_CCBS_ERR_CONTENT)
ENDSTRUCT
```

```
BEGINARRAY_PART (A_FAC_CCBS_ERR_CONTENT, 8)
    0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x15
ENDARRAY
```

/* advice of charge facility */

```
BEGINARRAY (A_FAC_AOC, 43) 0xA1, 0x29, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7D, 0x30, 0x7E, 0x80, 0x01, 0x72, 0xA1, 0x1A, 0x81,
0x01, 0x3C, 0x82, 0x02, 0x00, 0x8C, 0x83, 0x01, 0x64, 0x84, 0x02, 0x00, 0xFA, 0x85, 0x02, 0x00, 0x00, 0x86, 0x02, 0x00, 0x00,
0x87, 0x02, 0x02, 0x58, 0x00, 0x00 ENDARRAY
```

BYTE LA_FAC_AOC 344

/*----- structures ----- */

/* plmn declaration */

```
BEGIN_PSTRUCT ("plmn", S_PLMN_123_45)
    SET_COMP ("v_plmn", NUM_1)
    SET_COMP ("mcc", F_MCC_123)
    SET_COMP ("mnc", F_MNC_45F)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_262_01)
    SET_COMP ("v_plmn", NUM_1)
    SET_COMP ("mcc", F_MCC_262)
    SET_COMP ("mnc", F_MNC_01F)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_262_02)
    SET_COMP ("v_plmn", NUM_1)
    SET_COMP ("mcc", F_MCC_262)
    SET_COMP ("mnc", F_MNC_02F)
ENDSTRUCT
```

```
/* bearer service not present */
BEGIN_PSTRUCT ("bcpara", S_BS_NOT_PRESENT)
    SET_COMP ("rate", UR_NOT_PRES)
    SET_COMP ("bearer_serv", BEARER_SERV_NOT_PRES)
    SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", NO_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* bearer service voice */
BEGIN_PSTRUCT ("bcpara", S_BS_VOICE)
    SET_COMP ("rate", UR_NOT_PRES)
    SET_COMP ("bearer_serv", BEARER_SERV_SPEECH)
    SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", NO_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* bearer service aux voice */
BEGIN_PSTRUCT ("bcpara", S_BS_AUX_VOICE)
    SET_COMP ("rate", UR_NOT_PRES)
    SET_COMP ("bearer_serv", BEARER_SERV_AUX_SPEECH)
    SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", NO_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* bearer service emergency */
BEGIN_PSTRUCT ("bcpara", S_BS_EMERG)
    SET_COMP ("rate", UR_NOT_PRES)
    SET_COMP ("bearer_serv", BEARER_SERV_SPEECH)
    SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", NO_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* bearer service FAX 9600 */
BEGIN_PSTRUCT ("bcpara", S_BS_FAX)
    SET_COMP ("rate", UR_9_6_KBIT)
    SET_COMP ("bearer_serv", BEARER_SERV_FAX)
    SET_COMP ("conn_elem", CONN_ELEM_TRANS)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
```

```
        SET_COMP ("flow_control",      NO_FLOW_CONTROL)
        SET_COMP ("modem_type",        MT_NONE)
ENDSTRUCT
```

/* bearer service FAX 14400 */

```
BEGIN_PSTRUCT ("bcpara", S_BS_FAX_14400)
    SET_COMP ("rate",                UR_14_4_KBIT)
    SET_COMP ("bearer_serv",         BEARER_SERV_FAX)
    SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
    SET_COMP ("stop_bits",          STOP_1_BIT)
    SET_COMP ("data_bits",          DATA_8_BIT)
    SET_COMP ("parity",             PARITY_NONE)
    SET_COMP ("flow_control",        NO_FLOW_CONTROL)
    SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT
```

/* bearer service default value */

```
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_default)
    SET_COMP ("rate",                UR_9_6_KBIT)
    SET_COMP ("bearer_serv",         BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",          CONN_ELEM_NON_TRANS)
    SET_COMP ("stop_bits",          STOP_1_BIT)
    SET_COMP ("data_bits",          DATA_8_BIT)
    SET_COMP ("parity",             PARITY_NONE)
    SET_COMP ("flow_control",        NO_FLOW_CONTROL)
    SET_COMP ("modem_type",         MT_V32)
ENDSTRUCT
```

/* bearer service transparent data 9600 */

```
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_TRA)
    SET_COMP ("rate",                UR_9_6_KBIT)
    SET_COMP ("bearer_serv",         BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
    SET_COMP ("stop_bits",          STOP_1_BIT)
    SET_COMP ("data_bits",          DATA_8_BIT)
    SET_COMP ("parity",             PARITY_NONE)
    SET_COMP ("flow_control",        NO_FLOW_CONTROL)
    SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT
```

/* bearer service non-transparent data 9600 */

```
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_NTRA)
    SET_COMP ("rate",                UR_9_6_KBIT)
    SET_COMP ("bearer_serv",         BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",          CONN_ELEM_NON_TRANS)
    SET_COMP ("stop_bits",          STOP_1_BIT)
    SET_COMP ("data_bits",          DATA_8_BIT)
    SET_COMP ("parity",             PARITY_NONE)
    SET_COMP ("flow_control",        NO_FLOW_CONTROL)
    SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT
```

/* bearer service default */

```
BEGIN_PSTRUCT ("bcpara", S_BS_DEF)
    SET_COMP ("rate",                UR_9_6_KBIT)
    SET_COMP ("bearer_serv",         BEARER_SERV_FAX)
```

```
        SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
        SET_COMP ("stop_bits",          STOP_1_BIT)
        SET_COMP ("data_bits",          DATA_8_BIT)
        SET_COMP ("parity",             PARITY_NONE)
        SET_COMP ("flow_control",       NO_FLOW_CONTROL)
        SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT

/* bearer service transparent data prefer 14400 */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_14400_ASY_BTP)
    SET_COMP ("rate",                  UR_14_4_KBIT)
    SET_COMP ("bearer_serv",           BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",             CONN_ELEM_TRANS_PREF)
    SET_COMP ("stop_bits",             STOP_1_BIT)
    SET_COMP ("data_bits",             DATA_8_BIT)
    SET_COMP ("parity",                PARITY_NONE)
    SET_COMP ("flow_control",          NO_FLOW_CONTROL)
    SET_COMP ("modem_type",            MT_NONE)
ENDSTRUCT

/* bearer service transparent data 14400 V32 */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_14400_ASY_TRA_V34)
    SET_COMP ("rate",                  UR_14_4_KBIT)
    SET_COMP ("bearer_serv",           BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",             CONN_ELEM_TRANS)
    SET_COMP ("stop_bits",             STOP_1_BIT)
    SET_COMP ("data_bits",             DATA_8_BIT)
    SET_COMP ("parity",                PARITY_NONE)
    SET_COMP ("flow_control",          NO_FLOW_CONTROL)
    SET_COMP ("modem_type",            MT_V34)
ENDSTRUCT

/* calling party address */
BEGIN_PSTRUCT ("calling_party", S_CLG_PARTY)
    SET_COMP ("ton",                   TON_UNKNOWN)
    SET_COMP ("npi",                   NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("present",                PRES_PRES_ALLOW)
    SET_COMP ("screen",                 SCREEN_IND_NOT_PRES)
    SET_COMP ("c_num",                  LA_CLG_NUM)
    SET_COMP ("num",                     A_CLG_NUM)
ENDSTRUCT

/* calling party sub address */
BEGIN_PSTRUCT ("calling_party_sub", S_CLG_PARTY_SUB)
    SET_COMP ("tos",                    TOS_NOT_PRES)
    SET_COMP ("odd_even",                OE_EVEN)
    SET_COMP ("c_subaddr",              NUM_0)
    SKIP_COMP ("subaddr")
ENDSTRUCT

/* calling party emergency address */
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG112)
    SET_COMP ("ton",                    TON_UNKNOWN)
    SET_COMP ("npi",                    NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("present",                 PRES_PRES_ALLOW)
    SET_COMP ("screen",                 SCREEN_IND_NOT_PRES)
```

```

SET_COMP ("c_num",
SET_COMP ("num",
LA_CLG_EMERG)
A_CLG_EMERG112)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG000)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG)
A_CLG_EMERG000)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG08)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG08)
A_CLG_EMERG08)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG110)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG)
A_CLG_EMERG110)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG118)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG)
A_CLG_EMERG118)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG119)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG)
A_CLG_EMERG119)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG911)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",
SET_COMP ("c_num",
SET_COMP ("num",
TON_UNKNOWNN)
NPI_ISDN_TEL_NUMB_PLAN)
PRES_PRES_ALLOW)
SCREEN_IND_NOT_PRES)
LA_CLG_EMERG)
A_CLG_EMERG911)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG999)
SET_COMP ("ton",
SET_COMP ("npi",
SET_COMP ("present",
SET_COMP ("screen",

```

```
        SET_COMP ("c_num",           LA_CLG_EMERG)
        SET_COMP ("num",             A_CLG_EMERG999)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", S_CLG_NOEMERG999099)
    SET_COMP ("ton",                 TON_UNKNOWN)
    SET_COMP ("npi",                 NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("present",             PRES_PRES_ALLOW)
    SET_COMP ("screen",              SCREEN_IND_NOT_PRES)
    SET_COMP ("c_num",               LA_CLG_NOEMERG)
    SET_COMP ("num",                 A_CLG_NOEMERG999099)
ENDSTRUCT

/* calling party emergency sub address */
BEGIN_PSTRUCT ("calling_party_sub", S_CLG_EMERG_SUB)
    SET_COMP ("tos",                  TOS_NOT_PRES)
    SET_COMP ("odd_even",             OE_EVEN)
    SET_COMP ("c_subaddr",            NUM_0)
    SKIP_COMP ("subaddr")
ENDSTRUCT

/* called party address national*/
BEGIN_PSTRUCT ("called_party", S_CLD_PARTY)
    SET_COMP ("ton",                  TON_UNKNOWN)
    SET_COMP ("npi",                  NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num",         LA_CLD_NUM)
    SET_COMP ("called_num",           A_CLD_NUM)
ENDSTRUCT

/* called party address national*/
BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_2)
    SET_COMP ("ton",                  TON_UNKNOWN)
    SET_COMP ("npi",                  NPI_UNKNOWN)
    SET_COMP ("c_called_num",         LA_CLD_NUM)
    SET_COMP ("called_num",           A_CLD_NUM)
ENDSTRUCT

/* called party emergency address*/
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG112)
    SET_COMP ("ton",                  TON_UNKNOWN)
    SET_COMP ("npi",                  NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num",         LA_CLD_EMERG)
    SET_COMP ("called_num",           A_CLD_EMERG112)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG000)
    SET_COMP ("ton",                  TON_UNKNOWN)
    SET_COMP ("npi",                  NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num",         LA_CLD_EMERG)
    SET_COMP ("called_num",           A_CLD_EMERG000)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG08)
    SET_COMP ("ton",                  TON_UNKNOWN)
    SET_COMP ("npi",                  NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num",         LA_CLD_EMERG08)
    SET_COMP ("called_num",           A_CLD_EMERG08)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG110)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG110)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG118)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG118)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG119)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG119)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG911)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG911)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG999)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG999)
ENDSTRUCT
BEGIN_PSTRUCT ("called_party", S_CLD_NOEMERG999099)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_NOEMERG)
    SET_COMP ("called_num", A_CLD_NOEMERG999099)
ENDSTRUCT

/* called party address international*/
BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_INT)
    SET_COMP ("ton", TON_INT_NUMB)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_NUM_INT)
    SET_COMP ("called_num", A_CLD_NUM_INT)
ENDSTRUCT

/* called party sub address */
BEGIN_PSTRUCT ("called_party_sub", S_CLD_PARTY_SUB)
    SET_COMP ("tos", TOS_NOT_PRES)
    SET_COMP ("odd_even", OE_EVEN)
    SET_COMP ("c_subaddr", NUM_0)
    SKIP_COMP ("subaddr")
ENDSTRUCT

/* called party emergency sub address */
BEGIN_PSTRUCT ("called_party_sub", S_CLD_EMERG_SUB)
    SET_COMP ("tos", TOS_NOT_PRES)
```

```
        SET_COMP ("odd_even",          OE_EVEN)
        SET_COMP ("c_subaddr",         NUM_0)
        SKIP_COMP ("subaddr")
ENDSTRUCT

/* forward advice of charge info */
BEGIN_PSTRUCT ("fac_inf", S_FAC_AOC)
        SET_COMP ("l_fac",             LA_FAC_AOC)
        SET_COMP ("o_fac",             NUM_0)
        SET_COMP ("fac",               A_FAC_AOC)
ENDSTRUCT

/* speech full rate */
BEGIN_PSTRUCT ("chm", S_CHN_SPEECH)
        SET_COMP ("ch_type",           CH_TCH_F)
        SET_COMP ("ch_mode",           CHM_SPEECH)
ENDSTRUCT

/* data full rate 9600 */
BEGIN_PSTRUCT ("chm", S_CHN_FULL_9600)
        SET_COMP ("ch_type",           CH_TCH_F)
        SET_COMP ("ch_mode",           CHM_DATA_9_6)
ENDSTRUCT

/* DCS frame */
BEGIN_PSTRUCT ("dcs", S_DCS)
        SKIP_COMP ("v8")
        SKIP_COMP ("n_byte")
        SKIP_COMP ("ready_tx_fax")
        SKIP_COMP ("rec_fax_op")
        SKIP_COMP ("data_sig_rate")
        SKIP_COMP ("R8_lines_pels")
        SKIP_COMP ("two_dim_coding")
        SKIP_COMP ("rec_width")
        SKIP_COMP ("max_rec_len")
        SKIP_COMP ("min_scan_time")
        SKIP_COMP ("uncomp_mode")
        SKIP_COMP ("err_corr_mode")
        SKIP_COMP ("frame_size")
        SKIP_COMP ("t6_coding")
        SKIP_COMP ("R8_lines")
        SKIP_COMP ("r_300_pels")
        SKIP_COMP ("R16_lines_pels")
        SKIP_COMP ("resolution_type")
        SKIP_COMP ("i_res_pref")
        SKIP_COMP ("m_res_pref")
        SKIP_COMP ("min_scan_time_hr")
        SKIP_COMP ("sel_polling")
        SKIP_COMP ("subaddr")
        SKIP_COMP ("password")
        SKIP_COMP ("ready_tx_doc")
        SKIP_COMP ("bft")
        SKIP_COMP ("dtm")
        SKIP_COMP ("edi")
        SKIP_COMP ("btm")
        SKIP_COMP ("ready_tx_mixed")
```

```
SKIP_COMP ("char_mode")
SKIP_COMP ("mixed_mode")
SKIP_COMP ("proc_mode_26")
SKIP_COMP ("dig_network_cap")
SKIP_COMP ("duplex")
SKIP_COMP ("jpeg")
SKIP_COMP ("full_colour")
SKIP_COMP ("huffman_tables")
SKIP_COMP ("r_12_bits_pel_comp")
SKIP_COMP ("no_subsamp")
SKIP_COMP ("cust_illum")
SKIP_COMP ("cust_gamu")
SKIP_COMP ("na_letter")
SKIP_COMP ("na_legal")
SKIP_COMP ("sing_prog_seq_coding_basic")
SKIP_COMP ("sing_prog_seq_coding_L0")
```

ENDSTRUCT

/* DIS frame */

```
BEGIN_PSTRUCT ("dis", S_DIS)
SKIP_COMP ("v8")
SKIP_COMP ("n_byte")
SKIP_COMP ("ready_tx_fax")
SKIP_COMP ("rec_fax_op")
SKIP_COMP ("data_sig_rate")
SKIP_COMP ("R8_lines_pels")
SKIP_COMP ("two_dim_coding")
SKIP_COMP ("rec_width")
SKIP_COMP ("max_rec_len")
SKIP_COMP ("min_scan_time")
SKIP_COMP ("uncomp_mode")
SKIP_COMP ("err_corr_mode")
SKIP_COMP ("frame_size")
SKIP_COMP ("t6_coding")
SKIP_COMP ("R8_lines")
SKIP_COMP ("r_300_pels")
SKIP_COMP ("R16_lines_pels")
SKIP_COMP ("resolution_type")
SKIP_COMP ("i_res_pref")
SKIP_COMP ("m_res_pref")
SKIP_COMP ("min_scan_time_hr")
SKIP_COMP ("sel_polling")
SKIP_COMP ("subaddr")
SKIP_COMP ("password")
SKIP_COMP ("ready_tx_doc")
SKIP_COMP ("bft")
SKIP_COMP ("dtm")
SKIP_COMP ("edi")
SKIP_COMP ("btm")
SKIP_COMP ("ready_tx_mixed")
SKIP_COMP ("char_mode")
SKIP_COMP ("mixed_mode")
SKIP_COMP ("proc_mode_26")
SKIP_COMP ("dig_network_cap")
SKIP_COMP ("duplex")
SKIP_COMP ("jpeg")
```

```
SKIP_COMP ("full_colour")
SKIP_COMP ("huffman_tables")
SKIP_COMP ("r_12_bits_pel_comp")
SKIP_COMP ("no_subsamp")
SKIP_COMP ("cust_illum")
SKIP_COMP ("cust_gamut")
SKIP_COMP ("na_letter")
SKIP_COMP ("na_legal")
SKIP_COMP ("sing_prog_seq_coding_basic")
SKIP_COMP ("sing_prog_seq_coding_L0")
```

ENDSTRUCT

/* DTC frame */

```
BEGIN_PSTRUCT ("dtc", S_DTC)
SKIP_COMP ("v8")
SKIP_COMP ("n_byte")
SKIP_COMP ("ready_tx_fax")
SKIP_COMP ("rec_fax_op")
SKIP_COMP ("data_sig_rate")
SKIP_COMP ("R8_lines_pels")
SKIP_COMP ("two_dim_coding")
SKIP_COMP ("rec_width")
SKIP_COMP ("max_rec_len")
SKIP_COMP ("min_scan_time")
SKIP_COMP ("uncomp_mode")
SKIP_COMP ("err_corr_mode")
SKIP_COMP ("frame_size")
SKIP_COMP ("t6_coding")
SKIP_COMP ("R8_lines")
SKIP_COMP ("r_300_pels")
SKIP_COMP ("R16_lines_pels")
SKIP_COMP ("resolution_type")
SKIP_COMP ("i_res_pref")
SKIP_COMP ("m_res_pref")
SKIP_COMP ("min_scan_time_hr")
SKIP_COMP ("sel_polling")
SKIP_COMP ("subaddr")
SKIP_COMP ("password")
SKIP_COMP ("ready_tx_doc")
SKIP_COMP ("bft")
SKIP_COMP ("dtm")
SKIP_COMP ("edi")
SKIP_COMP ("btm")
SKIP_COMP ("ready_tx_mixed")
SKIP_COMP ("char_mode")
SKIP_COMP ("mixed_mode")
SKIP_COMP ("proc_mode_26")
SKIP_COMP ("dig_network_cap")
SKIP_COMP ("duplex")
SKIP_COMP ("jpeg")
SKIP_COMP ("full_colour")
SKIP_COMP ("huffman_tables")
SKIP_COMP ("r_12_bits_pel_comp")
SKIP_COMP ("no_subsamp")
SKIP_COMP ("cust_illum")
SKIP_COMP ("cust_gamut")
```

```

SKIP_COMP ("na_letter")
SKIP_COMP ("na_legal")
SKIP_COMP ("sing_prog_seq_coding_basic")
SKIP_COMP ("sing_prog_seq_coding_L0")

```

```
ENDSTRUCT
```

```
/* HDLC frame */
```

```

BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DCS)
    SET_COMP ("crp", NUM_0)
    SET_COMP ("c_pwd", NUM_0)
    SKIP_COMP ("pwd")
    SET_COMP ("c_sub", NUM_0)
    SKIP_COMP ("sub")
    SET_COMP ("c_sep", NUM_0)
    SKIP_COMP ("sep")
    SET_COMP ("c_nsc", NUM_0)
    SKIP_COMP ("nsc")
    SET_COMP ("c_nsf", NUM_0)
    SKIP_COMP ("nsf")
    SET_COMP ("c_tsi", NUM_0)
    SKIP_COMP ("tsi")
    SET_COMP ("c_cig", NUM_0)
    SKIP_COMP ("cig")
    SET_COMP ("c_csi", NUM_0)
    SKIP_COMP ("csi")
    SET_COMP ("c_nss", NUM_0)
    SKIP_COMP ("nss")
    SET_COMP ("v_dis", NUM_0)
    SKIP_COMP ("dis")
    SET_COMP ("v_dcs", NUM_1)
    SET_COMP ("dcs", S_DCS)
    SET_COMP ("v_dtc", NUM_0)
    SKIP_COMP ("dtc")

```

```
ENDSTRUCT
```

```

BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DIS)
    SET_COMP ("crp", NUM_0)
    SET_COMP ("c_pwd", NUM_0)
    SKIP_COMP ("pwd")
    SET_COMP ("c_sub", NUM_0)
    SKIP_COMP ("sub")
    SET_COMP ("c_sep", NUM_0)
    SKIP_COMP ("sep")
    SET_COMP ("c_nsc", NUM_0)
    SKIP_COMP ("nsc")
    SET_COMP ("c_nsf", NUM_0)
    SKIP_COMP ("nsf")
    SET_COMP ("c_tsi", NUM_0)
    SKIP_COMP ("tsi")
    SET_COMP ("c_cig", NUM_0)
    SKIP_COMP ("cig")
    SET_COMP ("c_csi", NUM_0)
    SKIP_COMP ("csi")
    SET_COMP ("c_nss", NUM_0)
    SKIP_COMP ("nss")
    SET_COMP ("v_dis", NUM_1)
    SET_COMP ("dis", S_DIS)

```

```
        SET_COMP ("v_dcs",          NUM_0)
        SKIP_COMP ("dcs")
        SET_COMP ("v_dtc",          NUM_0)
        SKIP_COMP ("dtc")
```

ENDSTRUCT

/* bearer service non transparent data 9600 */

```
    BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_NON_TRA)
        SET_COMP ("rate",          UR_9_6_KBIT)
        SET_COMP ("bearer_serv",   BEARER_SERV_ASYNC)
        SET_COMP ("conn_elem",     CONN_ELEM_NON_TRANS)
        SET_COMP ("stop_bits",     STOP_1_BIT)
        SET_COMP ("data_bits",     DATA_8_BIT)
        SET_COMP ("parity",        PARITY_NONE)
        SET_COMP ("flow_control",  NO_FLOW_CONTROL)
        SET_COMP ("modem_type",    MT_NONE)
```

ENDSTRUCT

/* DIS frame – 9600 bps */

```
    BEGIN_PSTRUCT ("dis", S_DIS_9600)
        SKIP_COMP ("v8")
        SKIP_COMP ("n_byte")
        SKIP_COMP ("ready_tx_fax")
        SKIP_COMP ("rec_fax_op")
        SET_COMP ("data_sig_rate", NUM_8)
        SET_COMP ("R8_lines_pels", NUM_1)
        SKIP_COMP ("two_dim_coding")
        SKIP_COMP ("rec_width")
        SET_COMP ("max_rec_len", NUM_1)
        SET_COMP ("min_scan_time", NUM_7)
        SKIP_COMP ("uncomp_mode")
        SKIP_COMP ("err_corr_mode")
        SKIP_COMP ("frame_size")
        SKIP_COMP ("t6_coding")
        SKIP_COMP ("R8_lines")
        SKIP_COMP ("r_300_pels")
        SKIP_COMP ("R16_lines_pels")
        SKIP_COMP ("resolution_type")
        SKIP_COMP ("i_res_pref")
        SKIP_COMP ("m_res_pref")
        SKIP_COMP ("min_scan_time_hr")
        SKIP_COMP ("sel_polling")
        SKIP_COMP ("subaddr")
        SKIP_COMP ("password")
        SKIP_COMP ("ready_tx_doc")
        SKIP_COMP ("bft")
        SKIP_COMP ("dtm")
        SKIP_COMP ("edi")
        SKIP_COMP ("btm")
        SKIP_COMP ("ready_tx_mixed")
        SKIP_COMP ("char_mode")
        SKIP_COMP ("mixed_mode")
        SKIP_COMP ("proc_mode_26")
        SKIP_COMP ("dig_network_cap")
        SKIP_COMP ("duplex")
        SKIP_COMP ("jpeg")
```

```
SKIP_COMP ("full_colour")
SKIP_COMP ("huffman_tables")
SKIP_COMP ("r_12_bits_pel_comp")
SKIP_COMP ("no_subsamp")
SKIP_COMP ("cust_illum")
SKIP_COMP ("cust_gamut")
SKIP_COMP ("na_letter")
SKIP_COMP ("na_legal")
SKIP_COMP ("sing_prog_seq_coding_basic")
SKIP_COMP ("sing_prog_seq_coding_L0")
ENDSTRUCT

BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DIS_9600)
SET_COMP ("crp", NUM_0)
SET_COMP ("c_pwd", NUM_0)
SKIP_COMP ("pwd")
SET_COMP ("c_sub", NUM_0)
SKIP_COMP ("sub")
SET_COMP ("c_sep", NUM_0)
SKIP_COMP ("sep")
SET_COMP ("c_nsc", NUM_0)
SKIP_COMP ("nsc")
SET_COMP ("c_nsf", NUM_0)
SKIP_COMP ("nsf")
SET_COMP ("c_tsi", NUM_0)
SKIP_COMP ("tsi")
SET_COMP ("c_cig", NUM_0)
SKIP_COMP ("cig")
SET_COMP ("c_csi", NUM_0)
SKIP_COMP ("csi")
SET_COMP ("c_nss", NUM_0)
SKIP_COMP ("nss")
SET_COMP ("v_dis", NUM_1)
SET_COMP ("dis", S_DIS_9600)
SET_COMP ("v_dcs", NUM_0)
SKIP_COMP ("dcs")
SET_COMP ("v_dtc", NUM_0)
SKIP_COMP ("dtc")
ENDSTRUCT

BEGIN_PSTRUCT ("net_ctrl", S_NET_CTRL)
SET_COMP ("spgc_ccch_sup", NUM_2)
SET_COMP ("priority_access_thr", NUM_2)
ENDSTRUCT

BEGIN_PSTRUCT ("em_imeisv", S_IMEI)
SET_COMP ("ident_type", NUM_1)
SET_COMP ("odd_even", NUM_1)
SET_COMP ("v_ident_dig", NUM_1)
SET_COMP ("c_ident_dig", NUM_2)
SET_COMP ("ident_dig", A_IDENT_DIG)
ENDSTRUCT

BEGIN_PSTRUCT ("em_imsi", S_IMSI)
SET_COMP ("ident_type", NUM_1)
SET_COMP ("odd_even", NUM_1)
```

```
    SET_COMP ("v_ident_dig",NUM_1)
    SET_COMP ("c_ident_dig",NUM_2)
    SET_COMP ("ident_dig",    A_IDENT_DIG)
ENDSTRUCT

BEGIN_PSTRUCT ("hop_chn", S_HOP_CHN)
    SET_COMP ("ma",          A_MA)
    SET_COMP ("ma2",         A_MA2)
    SET_COMP ("v_start",     NUM_0)
ENDSTRUCT

BEGIN_PSTRUCT ("meas_cap", S_MEAS_CAP)
    SET_COMP ("sw_time",     NUM_1)
    SET_COMP ("sws_time",    NUM_1)
    SET_COMP ("dummy1",      NUM_3)
    SET_COMP ("dummy2",      NUM_4)
ENDSTRUCT

BEGIN_PSTRUCT ("classm2", S_CLASSM2)
    SET_COMP ("rev_lev",     NUM_1)
    SET_COMP ("es_ind",      NUM_2)
    SET_COMP ("a5_1",        NUM_3)
    SET_COMP ("rf_pow_cap",  NUM_4)
    SET_COMP ("ps_cap",      NUM_5)
    SET_COMP ("ss_screen",   NUM_6)
    SET_COMP ("sm_cap",      NUM_7)
    SET_COMP ("freq_cap",    NUM_8)
    SET_COMP ("class_3",     NUM_9)
    SET_COMP ("cmsp",        NUM_1)
    SET_COMP ("a5_3",        NUM_2)
    SET_COMP ("a5_2",        NUM_3)
ENDSTRUCT

BEGIN_PSTRUCT ("classm3", S_CLASSM3)
    SET_COMP ("mb_sub",      NUM_1)
    SET_COMP ("a5_7",        NUM_2)
    SET_COMP ("a5_6",        NUM_3)
    SET_COMP ("a5_5",        NUM_4)
    SET_COMP ("a5_4",        NUM_5)
    SET_COMP ("v_radio_cap_2", NUM_1)
    SET_COMP ("radio_cap_2", NUM_2)
    SET_COMP ("v_radio_cap_1", NUM_1)
    SET_COMP ("radio_cap_1", NUM_3)
    SET_COMP ("v_r_support", NUM_1)
    SET_COMP ("r_support",   NUM_4)
    SET_COMP ("v_m_s_class", NUM_1)
    SET_COMP ("m_s_class",   NUM_5)
    SET_COMP ("ucs2_treat",   NUM_6)
    SET_COMP ("ext_meas_cap", NUM_7)
    SET_COMP ("v_meas_cap",  NUM_1)
    SET_COMP ("meas_cap",    S_MEAS_CAP)
ENDSTRUCT

/* activate CFU Voice FIE 31.2.1.3 */
BEGIN_PSTRUCT ("fac_in", A_FAC_KSD_CFU_ACT_ALL)
    SET_COMP ("l_fac", 8*13)
```

```
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_KSD_CFU_ACT_ALL_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_KSD_CFU_ACT_ALL_CONTENT, 13)
        0xA1, 0x0B, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x03, 0x04, 0x01, 0x21
ENDARRAY

/* result activate CFU Voice FIE 31.2.1.3 */
BEGIN_PSTRUCT ("fac_inf", A_FAC_KSD_CFU_ACT_RES)
        SET_COMP ("l_fac", 0x00D0)
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_KSD_CFU_ACT_RES_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_KSD_CFU_ACT_RES_CONTENT, 26)
        0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x0C, 0xA0, 0x80, 0x04, 0x01, 0x21, 0x30, 0x05, 0x30, 0x03,
        0x84, 0x01, 0x07, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* erase All Fwd Data */
BEGIN_PSTRUCT ("fac_inf", A_FAC_KSD_CFU_ERA_D)
        SET_COMP ("l_fac", 16 * 8)
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_KSD_CFU_ERA_D_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_KSD_CFU_ERA_D_CONTENT, 16)
        0xA1, 0x0E, 0x02, 0x01, 0x02, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x20, 0x82, 0x01, 0x00
ENDARRAY

/* result erase All Fwd Data */
BEGIN_PSTRUCT ("fac_inf", A_FAC_KSD_CFU_ERA_D_RES)
        SET_COMP ("l_fac", 18 * 8)
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_KSD_CFU_ERA_D_RES_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_KSD_CFU_ERA_D_RES_CONTENT, 18)
        0xA2, 0x10, 0x02, 0x01, 0x00, 0x30, 0x0B, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x00, 0x82, 0x01, 0x00
ENDARRAY

/* activate CCFC CFU Voice/Fax FIE */
BEGIN_PSTRUCT ("fac_inf", A_FAC_CCFC_CFU_V)
        SET_COMP ("l_fac", 0x0080)
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_CCFC_CFU_V_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_CCFC_CFU_V_CONTENT, 16)
        0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x21, 0x83, 0x01, 0x10
ENDARRAY

/* activate CCFC CFU Data FIE */
BEGIN_PSTRUCT ("fac_inf", A_FAC_CCFC_CFU_D)
        SET_COMP ("l_fac", 0x0080)
        SET_COMP ("o_fac", 0x0000)
        SET_COMP ("fac", A_FAC_CCFC_CFU_D_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (A_FAC_CCFC_CFU_D_CONTENT, 16)
        0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00
```

ENDARRAY

/* interrogate result CCFC CFU FIE */

```
BEGIN_PSTRUCT ("fac_in#", A_FAC_CCFC_CFU_V_RES)
    SET_COMP ("l_fac", 23 * 8)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_CCFC_CFU_V_RES_CONTENT)
```

ENDSTRUCT

```
BEGINARRAY_PART (A_FAC_CCFC_CFU_V_RES_CONTENT,23)
    0xA2, 0x15, /* Return Result Component Tag, Length */
    0x02, 0x01, 0x00, /* Invoke ID Tag, Length, Value */
    0x30, 0x10, /* Sequence Tag, Length */
    0x02, 0x01, 0x0C, /* Operation Code Tag (ActivateSS), Length, Value */
    /* begin of parameters */
    0xA0, 0x0B, /* forwardingFeatureList */
    0x04, 0x01, 0x21, /* ss code CFU */
    0x30, 0x06, /* Sequence Tag, Length */
    0x83, 0x01, 0x10, /* TeleService Tag, Length, Value (all speech transmission services) */
    0x84, 0x01, 0x07 /* ss-Status Tag, Length, Value (provisioned) */
```

ENDARRAY

/* interrogate result CCFC CFU FIE */

```
BEGIN_PSTRUCT ("fac_in#", A_FAC_CCFC_CFU_D_RES)
    SET_COMP ("l_fac", 23 * 8)
    SET_COMP ("o_fac", 0x0000)
    SET_COMP ("fac", A_FAC_CCFC_CFU_D_RES_CONTENT)
```

ENDSTRUCT

```
BEGINARRAY_PART (A_FAC_CCFC_CFU_D_RES_CONTENT,23)
    0xA2, 0x15, /* Return Result Component Tag, Length */
    0x02, 0x01, 0x00, /* Invoke ID Tag, Length, Value */
    0x30, 0x10, /* Sequence Tag, Length */
    0x02, 0x01, 0x0C, /* Operation Code Tag (ActivateSS), Length, Value */
    /* begin of parameters */
    0xA0, 0x0B, /* forwardingFeatureList */
    0x04, 0x01, 0x21, /* ss code CFU */
    0x30, 0x06, /* Sequence Tag, Length */
    0x82, 0x01, 0x10, /* BearerService Tag, Length, Value (all data CDA services) */
    0x84, 0x01, 0x07 /* ss-Status Tag, Length, Value */
```

ENDARRAY

/* SMS-DELIVER */

```
/* SA_12345, OA_9876, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS)
--- empty user data ("")--- */
```

BYTE L_DELIVER_01 21

```
BEGIN_PSTRUCT ("sms_sdu", DELIVER_01)
    SET_COMP ("l_buf#", L_DELIVER_01*8)
    SET_COMP ("o_buf#", 0x00)
    SET_COMP ("buf#", D_DELIVER_01)
```

ENDSTRUCT

```
BEGINARRAY_PART(D_DELIVER_01, L_DELIVER_01)
    0x04, 0x81, 0x21, 0x43, 0xF5,
    0x00, 0x04, 0xD1, 0x11, 0x00,
    0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
    0x01, 0x20
```

ENDARRAY

```
/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
--- empty user data ( " " )--- */
BYTE L_DELIVER_02 21
BEGIN_PSTRUCT ("sms_sdu", DELIVER_02)
    SET_COMP ("l_buf",      L_DELIVER_02*8)
    SET_COMP ("o_buf",      0x00)
    SET_COMP ("buf", D_DELIVER_02)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_02, L_DELIVER_02)
    0x04, 0x81, 0x21, 0x43, 0xF5,
    0x00, 0x04, 0xD1, 0x11, 0x01,
    0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
    0x01, 0x20
ENDARRAY
```

```
/* SA_12345, OA_9876, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS)
--- empty user data ( " " )--- */
BYTE L_DELIVER_01_CLEAR 21
BEGIN_PSTRUCT ("sms_sdu", DELIVER_01_CLEAR)
    SET_COMP ("l_buf",      L_DELIVER_01_CLEAR*8)
    SET_COMP ("o_buf",      0x00)
    SET_COMP ("buf", D_DELIVER_01_CLEAR)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_01_CLEAR, L_DELIVER_01_CLEAR)
    0x04, 0x81, 0x21, 0x43, 0xF5,
    0x00, 0x04, 0xD1, 0x10, 0x00,
    0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
    0x01, 0x20
ENDARRAY
```

4 TEST CASES

4.1 Routing (internal) (ACI001 - ACI010)

4.1.1 ACI001: Setup the Routing and the PCO view for the ACI test, and set ACI to transparent mode

Description:

Routings for the ACI tests are set

Preamble:

APL	None	ACI	PS
COMMAND (TAP RESET)			
COMMAND (CC RESET)			
COMMAND (MM RESET)			
COMMAND (SIM RESET)			
COMMAND (SS RESET)			
COMMAND (MMI RESET)			
COMMAND (SMS RESET)			
COMMAND (RR RESET)			
COMMAND (PL RESET)			
COMMAND (TAP REDIRECT CLEAR)			
COMMAND (CC REDIRECT CLEAR)			
COMMAND (MM REDIRECT CLEAR)			
COMMAND (SIM REDIRECT CLEAR)			
COMMAND (SS REDIRECT CLEAR)			
COMMAND (MMI REDIRECT CLEAR)			
COMMAND (SMS REDIRECT CLEAR)			
COMMAND (RR REDIRECT CLEAR)			
COMMAND (PL REDIRECT CLEAR)			
COMMAND (MMI REDIRECT CC TAP)			
COMMAND (MMI REDIRECT MM TAP)			
COMMAND (MMI REDIRECT SIM TAP)			
COMMAND (MMI REDIRECT SS TAP)			
COMMAND (MMI REDIRECT MMI TAP)			
COMMAND (MMI REDIRECT SMS TAP)			
COMMAND (MMI REDIRECT T30 TAP)			
COMMAND (MMI REDIRECT L2R TAP)			
COMMAND (MMI REDIRECT RA TAP)			
COMMAND (MMI REDIRECT RR TAP)			
COMMAND (PL REDIRECT MMI NULL)			
COMMAND (TAP REDIRECT TAP MMI)			
COMMAND (MMI REDIRECT MMI TAP)			

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

History: 14.12.98 AK Initial

4.2 Initialisation (ACI011 - ACI020)

4.2.1 ACI010: Set error message format

Description:
set error messages to verbose

Preamble:

```

ACI001
APL          ACI          PS
|            |            |
(1) |          ACI_CMD_REQ |            |
    |          (cmd: +CMEE=2) |            |
    * =====> *            |
(2) |          ACI_CMD_IND |            |
    |          (msg: OK)   |            |
    * <===== *            |
    |            |            |
  
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CMEE_VERB)	
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 10.09.02 ACI Initial

4.2.2 ACI011: Power On

Description:
activate SIM card at power on

Preamble:

```

ACI010
APL          ACI          PS
|            |            |
(3) |          ACI_CMD_REQ |            |
    |          (cmd: +CFUN=1) |            |
    * =====> *            |
(4) |            |          SIM_ACTIVATE_REQ |            |
    |            |          * =====> *            |
    |            |            |            |
  
```

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

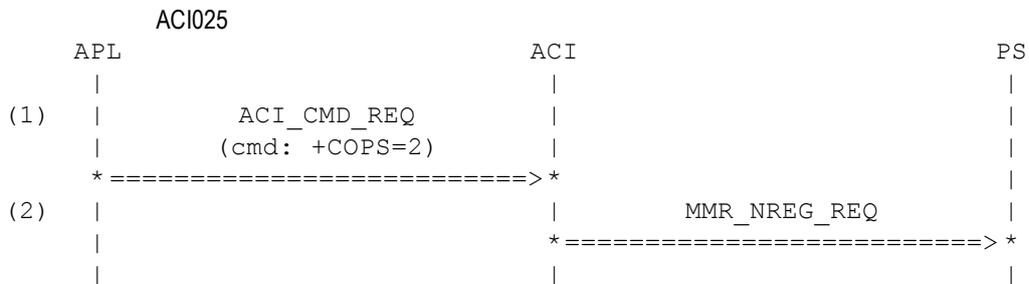
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CFUN_FULL) cmd_seq	CMD_SRC_EXT C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED
History:	10.08.98	ACI Initial

4.2.3 ACI012: Power Off

Description:

synchronize SIM card at power off

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_COPS_DREG) cmd_seq	CMD_SRC_EXT C_PLUS_COPS_DREG
(2) MMR_NREG_REQ	detach_cause	CS_SIM_REM

History: 10.08.98 ACI Initial

4.3 SIM Detection (ACI021 - ACI030)

4.3.1 ACI021: no SIM inserted

Description: after activation of the SIM, it is detected that no SIM is available

Preamble:

```

ACI011
  APL          ACI          PS
  |            |            |
(1) |          |          SIM_ACTIVATE_CNF |
  |            |          * <===== *    |
(2) |          ACI_CMD_IND |            |
  |            |          (msg: err)    | |
  |            |          * <===== *    |
  |            |            |            |
  
```

Parametrization:

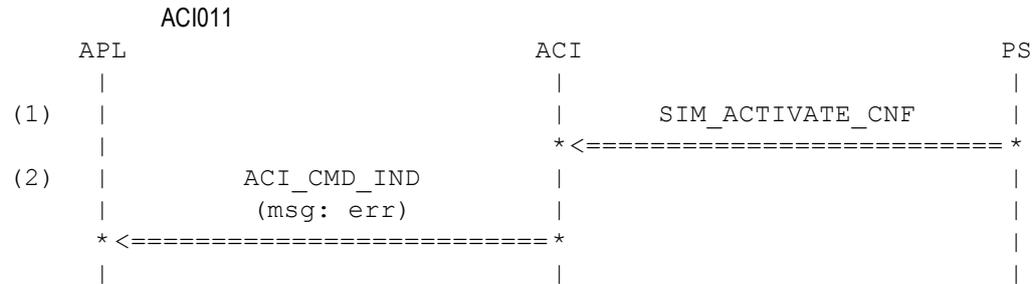
Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_CARD_REMOVED
	pin_cnt	NUM_0
	puk_cnt	NUM_0
	pin2_cnt	NUM_0
	puk2_cnt	NUM_0
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_SIM_FATAL)
	cmd_seq	M_ERR_SIM_FATAL

History: 10.08.98 ACI Initial

4.3.2 ACI022: SIM card blocked

Description: after activation of the SIM, it is detected that the SIM is blocked

Preamble:



Parametrization:

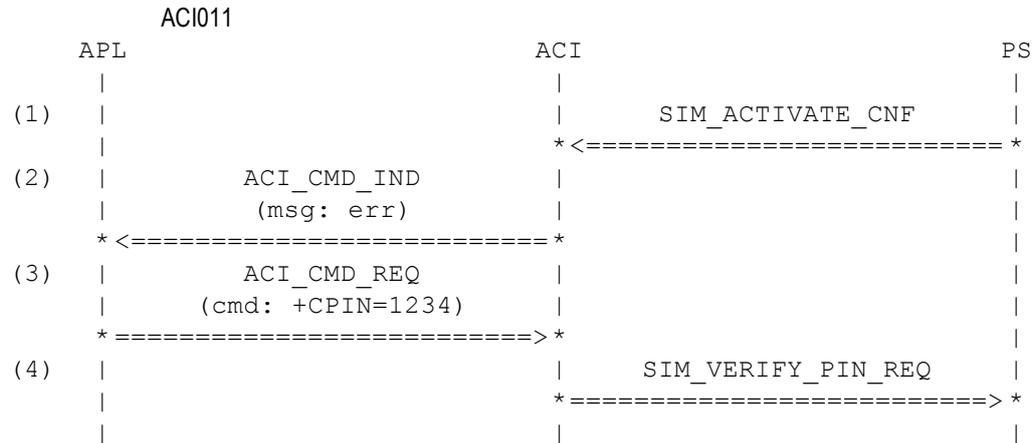
Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_PUK1_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_SIM_BLK)
	cmd_seq	M_ERR_SIM_BLK

History: 10.08.98 ACI Initial

4.3.3 ACI023: PIN required

Description: after activation of the SIM, it is detected that the PIN is required

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_PIN_REQ)
	cmd_seq	M_ERR_PIN_REQ
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPIN_1234)
	cmd_seq	C_PLUS_CPIN_1234
(4) SIM_VERIFY_PIN_REQ	source	SRC_MMI
	pin	A_PIN_1234
	pin_id	PHASE_2_PIN_1

		access_acmmax	NOT_USED
		access_puct	NOT_USED
(3)	SIM_READ_REQ	source	SRC_MMI
		offset	NUM_0
		datafield	SIM_ECC
		length	NOT_PRESENT_8BIT
		max_length	NUM_0
(4)	SIM_READ_CNF	datafield	SIM_ECC
		cause	SIM_NO_ERROR
		length	NUM_12
		trans_data	A_ECC_FIELD
(5)	SIM_READ_REQ	source	SRC_MMI
		offset	NUM_0
		datafield	SIM_AD
		length	NOT_PRESENT_8BIT
		max_length	NUM_0
(6)	SIM_READ_CNF	datafield	SIM_AD
		cause	SIM_NO_ERROR
		length	NUM_4
	<A>	trans_data	A_AD_FIELD_CI_DISABLED
		trans_data	A_AD_FIELD_CI_ENABLED
	<C>	trans_data	A_AD_FIELD_CI_DISABLED
(7)	ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK
History:	10.08.98	ACI	Initial
	25.04.02	DPI	Variant <C> added

4.3.5 ACI025: erroneous PIN entry

Description:

after that a PIN is required, a wrong PIN is entered

Preamble:

	ACI023		
	APL	ACI	PS
(1)			
		SIM_VERIFY_PIN_CNF	
		* <=====*	
(2)			
	ACI_CMD_IND		
	(msg: err)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) SIM_VERIFY_PIN_CNF

cause	SIM_CAUSE_PIN1_EXPECT
pin_id	PHASE_2_PIN_1
pin_cnt	NUM_2
puk_cnt	NUM_10
pin2_cnt	NUM_3
puk2_cnt	NUM_10

(2) ACI_CMD_IND

cmd_len	
NUM_ELEMENTS(M_ERR_WRONG_PWD)	
cmd_seq	M_ERR_WRONG_PWD

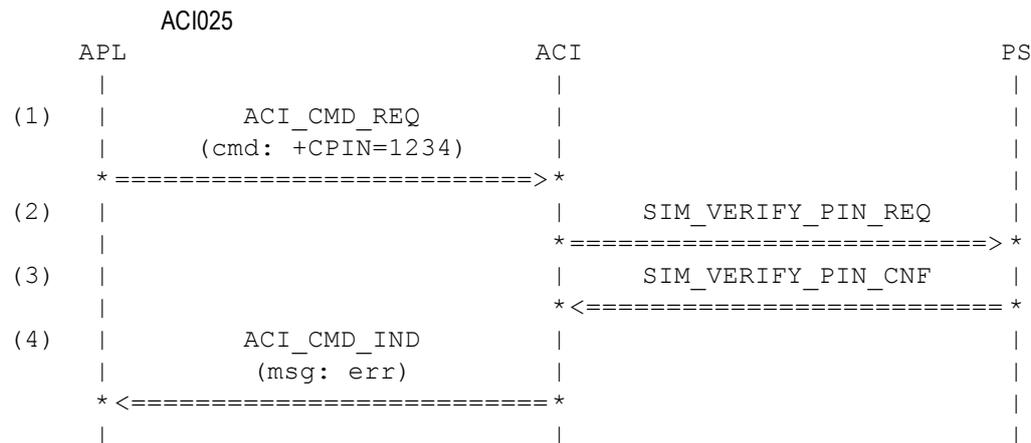
History: 10.08.98 ACI Initial

4.3.6 ACI026: SIM blocked, due to invalid PIN entry

Description:

after illegal PIN entry no attempts are left which leads to a SIM blocking

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_1234)	
	cmd_seq	C_PLUS_CPIN_1234
(2) SIM_VERIFY_PIN_REQ	source	SRC_MMI
	pin	A_PIN_1234
	pin_id	PHASE_2_PIN_1
(3) SIM_VERIFY_PIN_CNF	cause	SIM_CAUSE_PIN1_EXPECT
	pin_id	PHASE_2_PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10

(4) ACI_CMD_IND

cmd_len
 NUM_ELEMENTS(M_ERR_WRONG_PWD)
 cmd_seq M_ERR_WRONG_PWD

History: 10.08.98 ACI Initial

4.3.7 ACI027: SIM removed/inserted

Description:

SIM is removed and inserted during power on

Preamble:

ACI024A		ACI	PS
APL			
(1)		SIM_REMOVE_IND	
		* <=====*	
(2)	ACI_CMD_REQ		
	(cmd: +CPIN?)		
	* =====>*		
(3)		SIM_ACTIVATE_REQ	
		* =====>*	
(4)		SIM_ACTIVATE_CNF	
		* <=====*	
(5)	ACI_CMD_IND		
	(msg: err)		
	* <=====*		
(6)		SIM_ACTIVATE_CNF	
		* <=====*	
(7)	ACI_CMD_IND		
	(msg: %SIMINS: 11)		
	* <=====*		
(8)	ACI_CMD_REQ		
	(cmd: +CPIN?)		
	* =====>*		
(9)	ACI_CMD_IND		
	(msg: +CPIN:)		
	* <=====*		
(10)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) SIM_REMOVE_IND	cause	SIM_NO_ERROR
(2) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

	NUM_ELEMENTS(C_PLUS_CPIN_QUERY)	
	cmd_seq	C_PLUS_CPIN_QUERY
(3) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(4) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_CARD_REMOVED
	pin_cnt	NUM_0
	puk_cnt	NUM_0
	pin2_cnt	NUM_0
	puk2_cnt	NUM_0
	ec_code	NOT_USED
	pref_lang	NOT_USED
(5) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_ERR_SIM_FATAL)	
	cmd_seq	M_ERR_SIM_FATAL
(6) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(7) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PERCENT_SIMINS_ERR_11)	
	cmd_seq	M_PERCENT_SIMINS_ERR_11
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_QUERY)	
	cmd_seq	C_PLUS_CPIN_QUERY
(9) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPIN_PIN1)	
	cmd_seq	M_PLUS_CPIN_PIN1
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.3.8 ACI028: PIN required (not entered)

Description: after activation of the SIM, it is detected that the PIN is required

Preamble:

	ACI011		
	APL	ACI	PS
(1)			
		SIM_ACTIVATE_CNF	
		* <=====*	
(2)			
	ACI_CMD_IND		
	(msg: err)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_PIN_REQ)
	cmd_seq	M_ERR_PIN_REQ

History: 12.12.01 KGT Initial

4.3.9 ACI029: PIN not required (SIM: read SDN but no ECC and no CC control)

Description: after activation of the SIM, it is detected that no PIN is required. The network registration is started. ciphering indication disabled (A) / enabled (B). There is no CC control in the SIM service table: should be so for test ACI207.

Preamble:

ACI011

Variants: <A>....

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
(2)	SIM_MMI_INSERT_IND	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	ACI_CMD_IND (msg: OK)	
(5)	MNSMS_REPORT_IND	
(6)	SIM_READ_RECORD_REQ	
(7)	SIM_READ_RECORD_CNF	
(8)	SIM_READ_RECORD_REQ	
(9)	SIM_READ_RECORD_CNF	
(10)	SIM_READ_RECORD_REQ	
(11)	SIM_READ_RECORD_CNF	
(12)	SIM_READ_RECORD_REQ	
(13)	SIM_READ_RECORD_CNF	
(14)	SIM_READ_RECORD_REQ	
(15)	SIM_READ_RECORD_CNF	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED

	sim_serv	SIM_SERV_ABSDN_NOSTK
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(4) SIM_READ_CNF		
	datafield	SIM_ECC
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_4
<A>	trans_data	A_AD_FIELD_CI_DISABLED
	trans_data	A_AD_FIELD_CI_ENABLED
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(8) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_1
	length	MAX_DATAS
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	LDATA_SDN
	linear_data	DATA_SDN000
(11) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_BDN

	record	NUM_1
	length	MAX_DATAS
(12) SIM_READ_RECORD_CNF		
	datafield	SIM_BDN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	LDATA_SDN
	linear_data	DATA_SDN000
(13) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SDN
	record	NUM_1
	length	MAX_DATAS
(14) SIM_READ_RECORD_CNF		
	datafield	SIM_SDN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
	length	LDATA_SDN
	linear_data	DATA_SDN000
(15) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SDN
	record	NUM_2
	length	LDATA_SDN
(16) SIM_READ_RECORD_CNF		
	datafield	SIM_SDN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_3
	length	LDATA_SDN
	linear_data	DATA_SDN119
(17) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SDN
	record	NUM_3
	length	LDATA_SDN
(18) SIM_READ_RECORD_CNF		
	datafield	SIM_SDN
	cause	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_3
	length	LDATA_SDN
	linear_data	DATA_SDN911

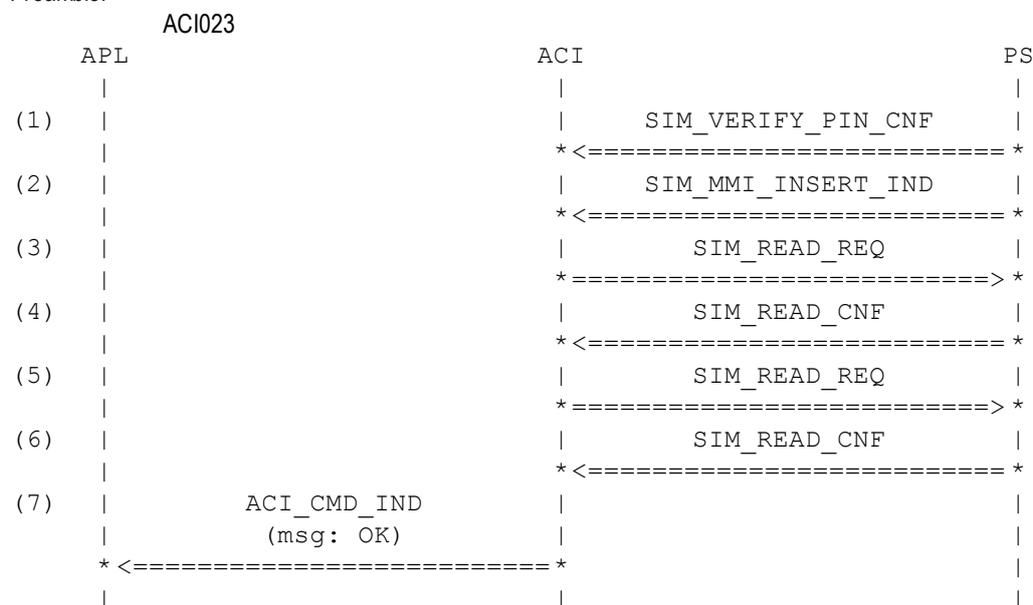
History: 13.012.01 KGT Initial
 19.09.02 CLB SIM service table changed: NO CC control for ACI207.

4.3.10 ACI030: correct PIN entry (no ECC read from SIM)

Description:

after that a PIN is required, a correct PIN is entered

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_CNF	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	(2) SIM_MMI_INSERT_IND	func
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(4) SIM_READ_CNF	datafield	SIM_ECC

	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD_EMPTY
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_4
	trans_data	A_AD_FIELD_CI_DISABLED
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.03.02 kgt Initial

4.4 Network Registration (ACI031 - ACI040)

4.4.1 ACI031: service available

Description:

registration to network ends up with full service available

Preamble:

ACI024A

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: +COPS=0,0) *=====>*	 	
(2) 	MMR_PLMN_MODE_REQ *=====>*	
(3) 	MMR_REG_REQ *=====>*	
(4) 	MMR_REG_CNF *<=====*	
(5) 	MMR_PLMN_MODE_REQ *=====>*	
(6) ACI_CMD_IND (msg: OK) *<=====*	 	
(7) ACI_CMD_REQ (cmd: +COPS?) *=====>*	 	
(8) ACI_CMD_IND (msg: +COPS:0,0,"...") *<=====*	 	
(9) ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COPS_REG)
	cmd_seq	C_PLUS_COPS_REG
(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(3) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(4) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(5) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(7) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

			new_forb_plmn cause	S_PLMN_262_01 NOT_USED
(5)	MMR_PLMN_MODE_REQ		mode	MODE_AUTO
(6)	ACI_CMD_IND		cmd_len NUM_ELEMENTS(M_ERR_LIMITED_SRV) cmd_seq	M_ERR_LIMITED_SRV
History:	10.08.98	ACI	Initial	

4.4.3 ACI033: no service available

Description:
registration to network ends up with no service available

Preamble:

	ACI024A		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: +CREG=1)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)		MMR_NREG_IND	
		<=====	
(4)	ACI_CMD_IND (msg: +CREG: 2)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(M_PLUS_CREG_SET) cmd_seq	CMD_SRC_EXT M_PLUS_CREG_SET
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) MMR_NREG_IND	service search_running new_forb_plmn cause	NREG_NO_SERVICE NOT_USED NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len	

NUM_ELEMENTS(M_PLUS_CREG_SEARCH)
cmd_seq M_PLUS_CREG_SEARCH

History: 10.08.98 ACI Initial

4.5 Voice Call Management (ACI050-ACI069)

4.5.1 ACI050: Single Voice Call variant G fails: needs CPHS

Description:

Mobile originated voice call establishment

Variants: <A>...<G>

Preamble:

<A>ACI001
ACI001
<C>ACI001
<D>ACI001
<E>ACI001
<F>ACI001
<G>ACI501A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%ALS=)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(6)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(7)		
	ACI_CMD_REQ	
	(cmd: ATD123456;)	
	=====>	
(8)		
	MNCC_SETUP_REQ	
	=====>	
(9)		
	SIM_SYNC_REQ	
	=====>	
(10)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(11)		
	MNCC_PROGRESS_IND	
	<=====	
(12)		
	MNCC_ALERT_IND	
	<=====	
(13)		
	MNCC_FACILITY_IND	
	<=====	
(14)		
	MNCC_SYNC_IND	
	<=====	
(15)		
	MNCC_SETUP_CNF	
	<=====	
(16)		
	ACI_CMD_IND	
	(msg: +COLP:...)	
	<=====	
(17)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_ALS_OFF)	

	bcpara bcpara2	S_BS_VOICE S_BS_NOT_PRESENT
(11) MNCC_PROGRESS_IND	ti progress_desc progress_desc progress_desc progress_desc progress_desc progress_desc progress_desc	NUM_0 PROG_NOT_PRES PROG_INBAND_AVAIL PROG_NO_END_TO_END_PLMN PROG_DEST_NON_PLMN PROG_ORIGIN_NON_PLMN PROG_ORIGIN_NON_PLMN PROG_ORIGIN_NON_PLMN
(12) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRES
(13) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 FAC_IN_ALERT S_FAC_AOC
(14) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(15) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_0 MNCC_CAUSE_SUCCESS PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB
(16) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NUM) cmd_seq	M_PLUS_COLP_NUM
(17) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	22.12.98 AK	Initial

4.5.2 ACI051: Second Single Voice Call variant E fails: needs CPHS

Description:

Second mobile originated voice call establishment during an active MOC.

Variants: <A>....<E>

Preamble:

- <A>ACI050A
- ACI050F
- <C>ACI050A
- <D>ACI050F
- <E>ACI050G

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%ALS=)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: ATD123456;)	
	=====>	
(4)		
	MNCC_HOLD_REQ	
	=====>	
(5)		
	MNCC_HOLD_CNF	
	<=====	
(6)		
	MNCC_SETUP_REQ	
	=====>	
(7)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(8)		
	MNCC_PROGRESS_IND	
	<=====	
(9)		
	MNCC_ALERT_IND	
	<=====	
(10)		
	MNCC_SYNC_IND	
	<=====	
(11)		
	MNCC_SETUP_CNF	
	<=====	
(12)		
	ACI_CMD_IND	
	(msg: +COLP:...)	
	<=====	
(13)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		cmd_src CMD_SRC_EXT
		cmd_len
	NUM_ELEMENTS(C_PERCENT_ALS_OFF)	
<A>	cmd_seq	C_PERCENT_ALS_OFF
	cmd_seq	C_PERCENT_ALS_ON
<C>	cmd_seq	C_PERCENT_ALS_ON
<D>	cmd_seq	C_PERCENT_ALS_OFF
<E>	cmd_seq	C_PERCENT_ALS_ON
(2) ACI_CMD_IND		cmd_len NUM_ELEMENTS(M_OK)
		cmd_seq M_OK
(3) ACI_CMD_REQ		cmd_src CMD_SRC_EXT
		cmd_len

	NUM_ELEMENTS(C_D_VOICE)	cmd_seq	C_D_VOICE
(4) MNCC_HOLD_REQ		ti	NUM_0
(5) MNCC_HOLD_CNF		ti	NUM_0
		cause	
	MNCC_CAUSE_HOLD_SUCCESS		
(6) MNCC_SETUP_REQ		ti	NUM_1
		prio	PRIO_NORM_CALL
		ri	RI_NOT_PRESENT
	<A>	bcpara	S_BS_VOICE
		bcpara	S_BS_AUX_VOICE
<C>	bcpara		S_BS_AUX_VOICE
	<D>	bcpara	S_BS_VOICE
	<E>	bcpara	S_BS_AUX_VOICE
		bcpara2	S_BS_NOT_PRESENT
		called_party	S_CLD_PARTY
		called_party_sub	
	S_CLD_PARTY_SUB		
		clr_sup	CLR_SUP
		fac_inf	NOT_USED
(7) MNCC_CALL_PROCEED_IND		ti	NUM_1
		progress_desc	
	PROG_NOT_PRESENT		
		ri	RI_NOT_PRESENT
	<A>	bcpara	S_BS_VOICE
		bcpara	S_BS_AUX_VOICE
<C>	bcpara		S_BS_AUX_VOICE
	<D>	bcpara	S_BS_VOICE
	<E>	bcpara	S_BS_AUX_VOICE
		bcpara2	S_BS_NOT_PRESENT
(8) MNCC_PROGRESS_IND		ti	NUM_1
		progress_desc	
	PROG_NOT_PRESENT		
(9) MNCC_ALERT_IND		ti	NUM_1
		progress_desc	
	PROG_NOT_PRESENT		
(10) MNCC_SYNC_IND		ti	NOT_PRESENT_8BIT
		cause	
	MNCC_CAUSE_CHANNEL_SYNC		
		chm	S_CHN_SPEECH
(11) MNCC_SETUP_CNF		ti	NUM_1
		cause	
	MNCC_CAUSE_SUCCESS		
		progress_desc	

	PROG_NOT_PRES	connected_number	S_CLG_PARTY
		connected_number_sub	
	S_CLG_PARTY_SUB		
(12) ACI_CMD_IND		cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NUM)	cmd_seq	M_PLUS_COLP_NUM
(13) ACI_CMD_IND		cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK
History:	22.12.98	AK	Initial

4.5.3 ACI052: Third Single Voice Call

Description:

Third mobile originated voice call establishment during an active MOC and a held call.

Variants: <A>...

Preamble:

<A>ACI051A
ACI051B

	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%ALS=)		
	* =====> *		
(2)	ACI_CMD_IND (msg: OK)		
	* <===== *		
(2)	ACI_CMD_REQ (cmd: ATD123456;)		
	* =====> *		
(3)	ACI_CMD_IND (msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_ALS_OFF)	
<A>	cmd_seq	C_PERCENT_ALS_OFF
	cmd_seq	C_PERCENT_ALS_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src
cmd_len
cmd_seq

CMD_SRC_EXT
NUM_ELEMENTS(C_D_VOICE)
C_D_VOICE

(4) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_ERROR)
M_ERROR

History: 22.12.98 AK Initial

4.5.4 ACI054: Voice Call with no answer by Subscriber, no in-band tones

Description:

Mobile originated voice call establishment

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLIR=2) *=====>*	 	
(2) ACI_CMD_IND (msg: OK) *<=====*	 	
(3) ACI_CMD_REQ (cmd: AT+COLP=1) *=====>*	 	
(4) ACI_CMD_IND (msg: OK) *<=====*	 	
(5) ACI_CMD_REQ (cmd: ATD123456;) *=====>*	 	
(6) 	 MNCC_SETUP_REQ *=====>*	
(7) 	 SIM_SYNC_REQ *=====>*	
(8) 	 MNCC_CALL_PROCEED_IND *<=====*	
(9) 	 MNCC_PROGRESS_IND *<=====*	
(10) 	 MNCC_ALERT_IND *<=====*	
(11) 	 MNCC_SYNC_IND *<=====*	
(12) 	 MNCC_DISCONNECT_IND *<=====*	
(13) 	 SIM_SYNC_REQ *=====>*	
(14) ACI_CMD_IND (msg: NO ANSWER) *<=====*	 	
(15) 	 MNCC_RELEASE_CNF *<=====*	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len cmd_seq	NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_ALERT_NO_ANSWER NOT_PRESENT_8BIT PROG_NOT_PRESENT
(13) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_NO_ANSWER) M_NO_ANSWER
(15) MNCC_RELEASE_CNF	ti cause	NUM_0 MNCC_CAUSE_ALERT_NO_ANSWER

History: 22.12.98 AK Initial

4.5.5 ACI055: Voice Call with no answer by Subscriber, with in-band tones no reaction by user

Description: Mobile originated voice call establishment

Preamble: ACI001

Variants: <A>....<E>

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATD123456;)	
	=====>	
(6)		
	MNCC_SETUP_REQ	
	=====>	
(7)		
	SIM_SYNC_REQ	
	=====>	
(8)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(9)		
	MNCC_PROGRESS_IND	
	<=====	
(10)		
	MNCC_ALERT_IND	
	<=====	
(11)		
	MNCC_SYNC_IND	
	<=====	
(12)		
	MNCC_DISCONNECT_IND	
	<=====	
(13)		
	MNCC_RELEASE_CNF	
	<=====	
(14)		
	SIM_SYNC_REQ	
	=====>	
(15)		
	ACI_CMD_IND	
	(msg: NO ANSWER)	
	<=====	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti <A> progress_desc progress_desc <C> progress_desc <D> progress_desc <E> progress_desc	NUM_0 PROG_INBAND_AVAIL PROG_NO_END_TO_END_PLMN PROG_DEST_NON_PLMN PROG_ORIGIN_NON_PLMN PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH

(12) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_ALERT_NO_ANSWER
	diagnostic	NOT_PRESENT_8BIT
<A>	progress_desc	PROG_NOT_PRES
	progress_desc	PROG_NOT_PRES
<C>	progress_desc	PROG_NOT_PRES
<D>	progress_desc	PROG_NOT_PRES
<E>	progress_desc	PROG_INBAND_AVAIL
(13) MNCC_RELEASE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_ALERT_NO_ANSWER
(14) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(15) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_NO_ANSWER)
	cmd_seq	M_NO_ANSWER

History: 21.09.99 AK Initial

4.5.6 ACI056: Voice Call with no answer by Subscriber, with in-band tones release by user

Description: Mobile originated voice call establishment

Preamble:

ACI024A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATD123456;)	
	=====>	
(6)		
	MNCC_SETUP_REQ	
	=====>	
(7)		
	SIM_SYNC_REQ	
	=====>	
(8)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(9)		
	MNCC_PROGRESS_IND	
	<=====	
(10)		
	MNCC_ALERT_IND	
	<=====	
(11)		
	MNCC_SYNC_IND	
	<=====	
(12)		
	MNCC_DISCONNECT_IND	
	<=====	
(13)		
	ACI_ABORT_REQ	
	=====>	
(14)		
	SIM_SYNC_REQ	
	=====>	
(15)		
	MNCC_RELEASE_REQ	
	=====>	
(16)		
	MNCC_RELEASE_CNF	
	<=====	
(17)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_NO_RESPONSE NOT_PRESENT_8BIT PROG_INBAND_AVAIL
(13) ACI_ABORT_REQ	cmd_src cause	CMD_SRC_EXT ABT_ABORT_CMD
(14) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL

(15) MNCC_RELEASE_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR A_FAC_EMPTY NOT_USED
(16) MNCC_RELEASE_CNF	ti cause	NUM_0 MNCC_CAUSE_NO_RESPONSE
(17) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	21.09.99 AK Initial	

4.5.7 ACI057: Call Termination without in-band tones

Description:
call termination procedure without in-band tones active.

Preamble:
ACI050A

Variants:
<A>....<D>

	APL	ACI	PS
(1)		MNCC_DISCONNECT_IND	
		* <===== *	
(2)		SIM_SYNC_REQ	
		* =====> *	
(3)	ACI_CMD_IND		
	(msg: NO CARRIER)		
	* <===== *		
(4)		MNCC_RELEASE_CNF	
		* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti cause diagnostic <A> progress_desc progress_desc <C> progress_desc <D> progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES PROG_NO_END_TO_END_PLMN PROG_DEST_NON_PLMN PROG_ORIGIN_NON_PLMN
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_NO_CARRIER) M_NO_CARRIER

(4) MNCC_RELEASE_CNF

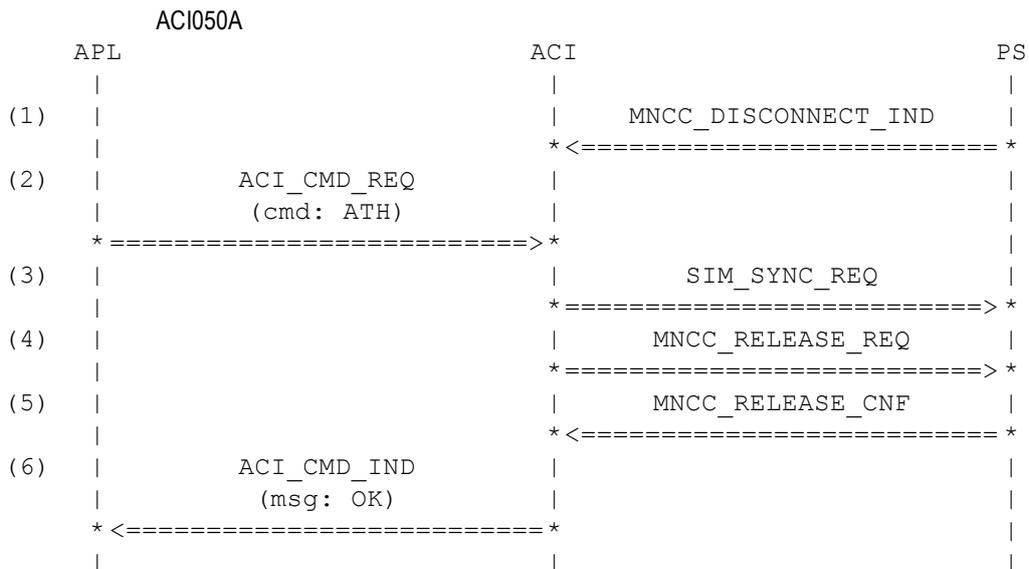
ti NUM_0
cause MNCC_CAUSE_CALL_CLEAR

History: 29.04.99 AK Initial

4.5.8 ACI058: Call Termination with in-band tones

Description: call termination procedure with in-band tones active.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_INBAND_AVAIL
(2) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_H)
	cmd_seq	C_H
(3) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(4) MNCC_RELEASE_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	A_FAC_EMPTY
	ss_version	NOT_USED
(5) MNCC_RELEASE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

(6) ACI_CMD_IND

cmd_len NUM_ELEMENTS(M_OK)
cmd_seq M_OK

History: 21.09.99 AK Initial

4.5.9 ACI059: Call Termination with in-band tones, no reaction by user

Description:

call termination procedure with in-band tones active. User does not respond to disconnect

Variants:

<A>....

Preamble:

<A>ACI050B
ACI050A

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
	* <===== *	
(2)	MNCC_RELEASE_IND	
	* <===== *	
(3)	SIM_SYNC_REQ	
	* =====> *	
(4)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
<A>	progress_desc	PROG_INBAND_AVAIL
	progress_desc	PROG_INBAND_AVAIL
(2) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(3) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_NO_CARRIER)
	cmd_seq	M_NO_CARRIER

History: 21.09.99 AK Initial

4.5.10 ACI060: Voice Call with no answer by Subscriber, release by user prior to TCH assignment

Description:

Mobile originated voice call establishment

Preamble:

ACI001

Variants:

<A>....<E>

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATD123456;)	
	=====>	
(6)		
	MNCC_SETUP_REQ	
	=====>	
(7)		
	SIM_SYNC_REQ	
	=====>	
(8)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(9)		
	MNCC_PROGRESS_IND	
	<=====	
(10)		
	MNCC_ALERT_IND	
	<=====	
(11)		
	MNCC_DISCONNECT_IND	
	<=====	
(12)		
	SIM_SYNC_REQ	
	=====>	
(13)		
	ACI_CMD_IND	
	(msg: NO ANSWER)	
	<=====	
(14)		
	MNCC_RELEASE_CNF	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP)	
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(6) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(7) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND		
	ti	NUM_0
<A>	progress_desc	PROG_INBAND_AVAIL
	progress_desc	PROG_NO_END_TO_END_PLMN
<C>	progress_desc	PROG_DEST_NON_PLMN
<D>	progress_desc	PROG_ORIGIN_NON_PLMN
<E>	progress_desc	PROG_NOT_PRESENT
(10) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(11) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_ALERT_NO_ANSWER
	diagnostic	NOT_PRESENT_8BIT
<A>	progress_desc	PROG_NOT_PRESENT
	progress_desc	PROG_NOT_PRESENT

<C>	progress_desc	PROG_NOT_PRES
<D>	progress_desc	PROG_NOT_PRES
<E>	progress_desc	PROG_INBAND_AVAIL
(12) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(13) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_NO_ANSWER)
	cmd_seq	M_NO_ANSWER
(14) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_ALERT_NO_ANSWER

History: 21.09.99 AK Initial

4.5.11 ACI061: Second Single Voice Call, Hold of First Calls Fails

Description:

Second mobile originated voice call establishment during an active MOC. Putting first call on hold fails, second attempt succeeds.

Preamble:

ACI050A		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(2)		MNCC_HOLD_REQ	
		=====>	
(3)		MNCC_HOLD_CNF	
		<=====	
(4)	ACI_CMD_IND (msg: ERROR)		
	<=====		
(5)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(6)		MNCC_HOLD_REQ	
		=====>	
(7)		MNCC_HOLD_CNF	
		<=====	
(8)		MNCC_SETUP_REQ	
		=====>	
(9)		MNCC_CALL_PROCEED_IND	
		<=====	
(10)		MNCC_PROGRESS_IND	
		<=====	
(11)		MNCC_ALERT_IND	
		<=====	
(12)		MNCC_SYNC_IND	
		<=====	
(13)		MNCC_SETUP_CNF	
		<=====	
(14)	ACI_CMD_IND (msg: +COLP:...)		
	<=====		
(15)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len cmd_seq	NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti cause	NUM_0 MNCC_CAUSE_TEMP_FAIL
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERROR) M_ERROR
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(6) MNCC_HOLD_REQ	ti	NUM_0
(7) MNCC_HOLD_CNF	ti cause	NUM_0 MNCC_CAUSE_HOLD_SUCCESS
(8) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_1 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(9) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_1 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(10) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRESENT
(11) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRESENT
(12) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(13) MNCC_SETUP_CNF	ti cause progress_desc	NUM_1 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT

	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(14) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NUM)	
	cmd_seq	M_PLUS_COLP_NUM
(15) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
History:	22.12.98	AK
	Initial	

4.5.12 ACI062: Single Voice Call, %CPI activated

Description:

Mobile originated voice call establishment with % CPI activated and In Band Ton set with alert indication

Preamble:

ACI001

	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPI=1)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(1)	ACI_CMD_REQ (cmd: AT%CUNS=1)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)	ACI_CMD_REQ (cmd: AT+CLIR=2)		
	=====>		
(4)	ACI_CMD_IND (msg: OK)		
	<=====		
(5)	ACI_CMD_REQ (cmd: AT+COLP=1)		
	=====>		
(6)	ACI_CMD_IND (msg: OK)		
	<=====		
(7)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(8)		MNCC_SETUP_REQ *=====>*	
(9)		SIM_SYNC_REQ *=====>*	
(10)		MNCC_CALL_PROCEED_IND *<=====*	
(11)		MNCC_PROGRESS_IND *<=====*	
(12)		MNCC_ALERT_IND *<=====*	
(18)	ACI_CMD_IND (msg: %CPI)		
	<=====		
(13)		MNCC_FACILITY_IND *<=====*	
(14)		MNCC_SYNC_IND *<=====*	
(19)	ACI_CMD_IND (msg: %CPI)		
	<=====		
(15)		MNCC_SETUP_CNF *<=====*	
(20)	ACI_CMD_IND (msg: %CPI)		
	<=====		
(16)	ACI_CMD_IND (msg: +COLP:...)		

```

* <===== *
(17) |          ACI_CMD_IND          |          |
      |          (msg: OK)        |          |
* <===== *
      |          |                |          |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPI_ON)
	cmd_seq	C_PERCENT_CPI_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CUNS_ON)
	cmd_seq	C_PERCENT_CUNS_ON
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(7) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON
(8) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(9) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(10) MNCC_SETUP_REQ	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT

	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(11) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(12) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(13) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(14) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_INBAND_AVAIL
(15) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_CPI_ALERT)
	cmd_seq	M_CPI_ALERT
(16) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	FAC_IN_ALERT
	fac_inf	S_FAC_AOC
(17) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(18) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_CPI_SYNC)
	cmd_seq	M_CPI_SYNC
(19) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_INBAND_AVAIL
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(20) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_CPI_CONN)
	cmd_seq	M_CPI_CONN
(21) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_COLP_NUM)
	cmd_seq	M_PLUS_COLP_NUM
(22) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 06.09.02 KGT Initial

4.6 Registration (ACI080-ACI089)

4.6.1 ACI080: Net Search

Description:

Scan for available PLMN's

Preamble:

```

ACI024A
APL                               ACI                               PS
|                                 |                                 |
(1) |   ACI_CMD_REQ               |                                 |
    |   (cmd: AT+COPS=?)         |                                 |
    | * =====> *               |                                 |
(2) |                                 |   MMR_PLMN_MODE_REQ           |
    |                                 | * =====> *               |
(3) |                                 |   MMR_REG_REQ                 |
    |                                 | * =====> *               |
(4) |                                 |   MMR_PLMN_IND               |
    |                                 | * <===== *               |
(5) |                                 |   MMR_PLMN_MODE_REQ           |
    |                                 | * =====> *               |
(6) |   ACI_CMD_IND               |                                 |
    |   (msg: +COPS: ...)        |                                 |
    | * <===== *               |                                 |
(7) |   ACI_CMD_IND               |                                 |
    |   (msg: OK)                |                                 |
    | * <===== *               |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_COPS_TST)	
	cmd_seq	C_PLUS_COPS_TST
(2) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(3) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(4) MMR_PLMN_IND	cause	MMCS_SUCCESS
	plmn	F_PLMN_LST
	lac_list	NOT_USED
	forb_ind	F_FRB_PLMN_LST
	rxlevel	F_RXL_PLMN_LST

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CFUN_FULL) cmd_seq	CMD_SRC_EXT C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED
(3) SIM_ACTIVATE_CNF	cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang	SIM_NO_ERROR NUM_3 NUM_9 NUM_3 NUM_9 NOT_USED NOT_USED
(4) SIM_MMI_INSERT_IND	func sim_serv imsi_field pref_plmn phase access_acm access_acmmax access_puct	NOT_USED NOT_USED NOT_USED NOT_USED PHASE_2_SIM NOT_USED NOT_USED NOT_USED
(5) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_ECC NOT_PRESENT_8BIT NUM_0
(6) SIM_READ_CNF	datafield cause length trans_data	SIM_ECC SIM_NO_ERROR NUM_12 A_ECC_FIELD
(7) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_AD NOT_PRESENT_8BIT NUM_0
(8) SIM_READ_CNF	datafield cause length trans_data	SIM_AD SIM_NO_ERROR NUM_12 A_AD_FIELD_CI_DISABLED
(9) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

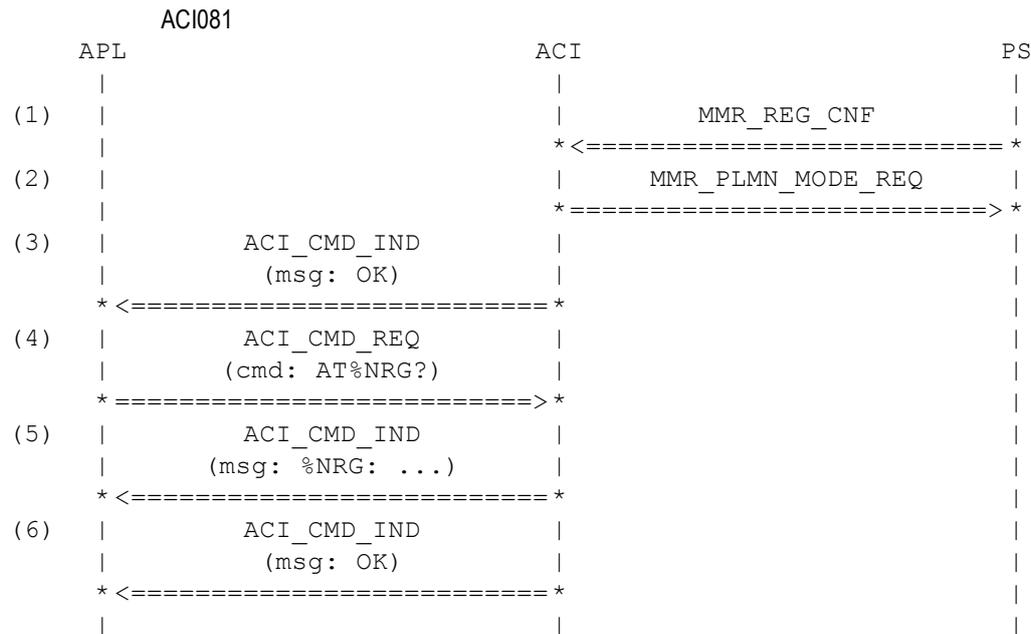
(10) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_FULL_AUTO)
	cmd_seq	C_PLUS_NRG_FULL_AUTO
(11) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(12) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL

History: 21.04.99 AK Initial

4.6.3 ACI082: Full Service, Auto, PIN entered, Registration Successful

Description:
Registration successful.

Preamble:



Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(4) ACI_CMD_REQ

```
cmd_src          CMD_SRC_EXT
cmd_len
NUM_ELEMENTS(C_PLUS_NRG_QUERY)
cmd_seq          C_PLUS_NRG_QUERY
```

(5) ACI_CMD_IND

```
cmd_len
NUM_ELEMENTS(M_PLUS_NRG_AUTO_FULL_LONG_D1)
cmd_seq          M_PLUS_NRG_AUTO_FULL_LONG_D1
```

(6) ACI_CMD_IND

```
cmd_len          NUM_ELEMENTS(M_OK)
cmd_seq          M_OK
```

History: 21.04.99 AK Initial

4.6.4 ACI085: Full Service, Auto, no PIN entered

Description:

Register to full service. no PIN was already entered.

Preamble:

```
ACI001
APL          ACI          PS
|           |           |
(1) |         ACI_CMD_REQ |           |
    |         (cmd: AT%NRG=0,0) |           |
    | *=====>* |           |
(2) |           | SIM_ACTIVATE_REQ |           |
    |           | *=====>* |           |
(3) |           | SIM_ACTIVATE_CNF |           |
    |           | *<===== * |           |
(4) |           | SIM_MMI_INSERT_IND |           |
    |           | *<===== * |           |
(5) |           | SIM_READ_REQ |           |
    |           | *=====>* |           |
(6) |           | SIM_READ_CNF |           |
    |           | *<===== * |           |
(7) |           | SIM_READ_REQ |           |
    |           | *=====>* |           |
(8) |           | SIM_READ_CNF |           |
    |           | *<===== * |           |
(9) |           | MMR_PLMN_MODE_REQ |           |
    |           | *=====>* |           |
(10) |           | MMR_REG_REQ |           |
     |           | *=====>* |           |
     |           |           |           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

	NUM_ELEMENTS(C_PLUS_NRG_FULL_AUTO)	
	cmd_seq	C_PLUS_NRG_FULL_AUTO
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND		
	func	NOT_USED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_AD_FIELD_CI_DISABLED
(9) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(10) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL

History: 21.04.99 AK Initial

4.6.5 ACI086: Full Service, Auto, no PIN entered, Registration Successful

Description:

Registration successful.

Preamble:

ACI085		ACI	PS
APL			
(1)		MMR_REG_CNF	
		* <=====*	
(2)		MMR_PLMN_MODE_REQ	
		* =====>*	
(3)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		
(4)	ACI_CMD_REQ		
	(cmd: AT%NRG?)		
	* =====>*		
(5)	ACI_CMD_IND		
	(msg: %NRG: ...)		
	* <=====*		
(6)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_QUERY)
	cmd_seq	C_PLUS_NRG_QUERY
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_NRG_AUTO_FULL_LONG_D1)
	cmd_seq	M_PLUS_NRG_AUTO_FULL_LONG_D1

	mimi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND	func	NOT_USED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_AD_FIELD_CI_DISABLED
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(10) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_FULL_MAN)
	cmd_seq	C_PLUS_NRG_FULL_MAN
(11) MMR_PLMN_MODE_REQ	mode	MODE_MAN

(12) MMR_PLMN_RES

plmn

S_PLMN_262_01

History: 21.04.99 AK Initial

4.6.7 ACI091: Full Service, Manual, PIN entered, Registration Successful

Description:

Registration successful.

Preamble:

ACI090

	APL	ACI	PS
(1)		MMR_REG_CNF	
		* <=====*	
(2)		MMR_PLMN_MODE_REQ	
		* =====>*	
(3)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		
(4)	ACI_CMD_REQ		
	(cmd: AT%NRG?)		
	* =====>*		
(5)	ACI_CMD_IND		
	(msg: %NRG: ...)		
	* <=====*		
(6)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(2) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_QUERY)
	cmd_seq	C_PLUS_NRG_QUERY
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_NRG_MAN_FULL_SHORT_D1)

```

cmd_seq
M_PLUS_NRG_MAN_FULL_SHORT_D1

(6) ACI_CMD_IND

cmd_len          NUM_ELEMENTS(M_OK)
cmd_seq          M_OK

History:          21.04.99    AK    Initial
    
```

4.6.8 ACI095: Full Service, Auto, no PIN entered

Description: Register to full service. no PIN was already entered.

Preamble:

```

ACI001

APL          ACI          PS
|            |            |
(1) |          ACI_CMD_REQ |            |
    | (cmd: AT%NRG=0,1,1,"TMO") |            |
    | *=====>*          |            |
(2) |            | SIM_ACTIVATE_REQ |            |
    |            | *=====>*          |            |
(3) |            | SIM_ACTIVATE_CNF |            |
    |            | *<===== *          |            |
(4) |            | SIM_MMI_INSERT_IND |            |
    |            | *<===== *          |            |
(5) |            | SIM_READ_REQ      |            |
    |            | *=====>*          |            |
(6) |            | SIM_READ_CNF      |            |
    |            | *<===== *          |            |
(7) |            | SIM_READ_REQ      |            |
    |            | *=====>*          |            |
(8) |            | SIM_READ_CNF      |            |
    |            | *<===== *          |            |
(9) |            | MMR_PLMN_MODE_REQ |            |
    |            | *=====>*          |            |
(10)|            | MMR_PLMN_RES      |            |
    |            | *=====>*          |            |
    |            |                    |            |
    
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_FULL_MAN)
	cmd_seq	C_PLUS_NRG_FULL_MAN
(2) SIM_ACTIVATE_REQ	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED

(3) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND	func	NOT_USED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_AD_FIELD_CI_DISABLED
(9) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(10) MMR_PLMN_RES	plmn	S_PLMN_262_01

History: 21.04.99 AK Initial

4.6.9 ACI096: Full Service, Auto, no PIN entered, Registration Successful

Description:

Registration successful.

Preamble:

	ACI095		
	APL	ACI	PS
(1)			
		MMR_REG_CNF	
		* <=====*	
(2)		MMR_PLMN_MODE_REQ	
		* =====>*	
(3)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		
(4)	ACI_CMD_REQ		
	(cmd: AT%NRG?)		
	* =====>*		
(5)	ACI_CMD_IND		
	(msg: %NRG: ...)		
	* <=====*		
(6)	ACI_CMD_IND		
	(msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(2) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_QUERY)
	cmd_seq	C_PLUS_NRG_QUERY
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_NRG_MAN_FULL_SHORT_D1)
	cmd_seq	M_PLUS_NRG_MAN_FULL_SHORT_D1

(6) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_OK)
M_OK

History: 21.04.99 AK Initial

4.6.10 ACI100: Full Service, Manual, PIN required

Description:

Register to full service. PIN is required.

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CMEE=2) *=====>*		
(2) ACI_CMD_IND (msg: OK) *<=====*		
(3) ACI_CMD_REQ (cmd: AT+CFUN=1) *=====>*		
(4)	SIM_ACTIVATE_REQ *=====>*	
(5)	SIM_ACTIVATE_CNF *<=====*	
(6) ACI_CMD_IND (msg: ERROR: SIM PIN..) *<=====*		
(7) ACI_CMD_REQ (cmd: AT%NRG=1,0,1,"TMO") *=====>*		
(8)	SIM_ACTIVATE_REQ *=====>*	
(9)	SIM_ACTIVATE_CNF *<=====*	
(6) ACI_CMD_IND (msg: ERROR: SIM PIN..) *<=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CMEE_VERB) cmd_seq	CMD_SRC_EXT C_PLUS_CMEE_VERB
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CFUN_FULL) cmd_seq	CMD_SRC_EXT C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED
(5) SIM_ACTIVATE_CNF	cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang	SIM_CAUSE_PIN1_EXPECT NUM_3 NUM_9 NUM_3 NUM_9 NOT_USED NOT_USED
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERR_PIN_REQ) M_ERR_PIN_REQ
(7) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_NRG_FULL_MAN) cmd_seq	CMD_SRC_EXT C_PLUS_NRG_FULL_MAN
(8) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED
(9) SIM_ACTIVATE_CNF	cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang	SIM_CAUSE_PIN1_EXPECT NUM_3 NUM_9 NUM_3 NUM_9 NOT_USED NOT_USED
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERR_PIN_REQ) M_ERR_PIN_REQ

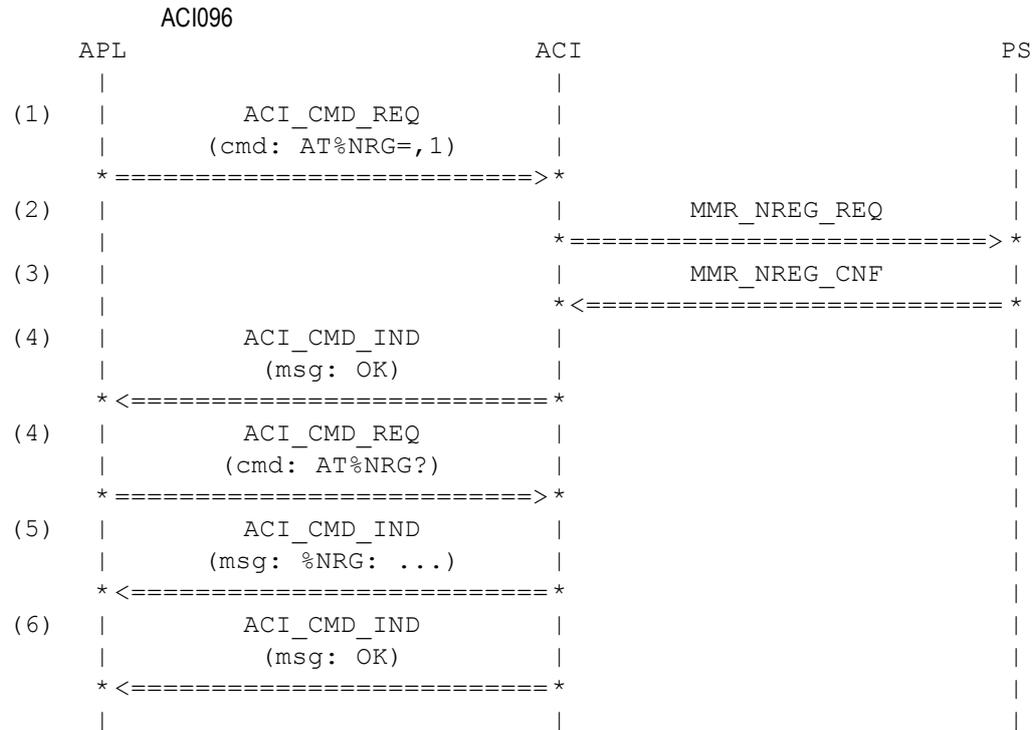
History: 22.04.99 AK Initial

4.6.11 ACI105: Limited Service out of Full Service, Successful

Description:

Change registration service from full to limited. Successful attempt

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_LIM)
	cmd_seq	C_PLUS_NRG_LIM
(2) MMR_NREG_REQ	detach_cause	CS_SIM_REM
(3) MMR_NREG_CNF	detach_cause	CS_SIM_REM
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_QUERY)
	cmd_seq	C_PLUS_NRG_QUERY

(6) ACI_CMD_IND

```

                                cmd_len
NUM_ELEMENTS(M_PLUS_NRG_MAN_LIM_SHORT_NONE)
                                cmd_seq
M_PLUS_NRG_MAN_LIM_SHORT_NONE
    
```

(7) ACI_CMD_IND

```

                                cmd_len  NUM_ELEMENTS(M_OK)
                                cmd_seq  M_OK
    
```

History: 21.04.99 AK Initial

4.6.12 ACI106: Limited Service out of Full Service, Unsuccessful

Description:

Change registration service from full to limited. Unsuccessful attempt.

Preamble:

ACI096

	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CMEE=2)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)	ACI_CMD_REQ (cmd: AT%NRG=,1)		
	=====>		
(4)		MMR_NREG_REQ	
		=====>	
(5)		MMR_NREG_IND	
		<=====	
(6)		MMR_PLMN_MODE_REQ	
		=====>	
(7)	ACI_CMD_IND (msg: ERROR: No Service)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CMEE_VERB) cmd_seq	CMD_SRC_EXT C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		cmd_len NUM_ELEMENTS(M_OK) cmd_seq M_OK
(3) ACI_CMD_REQ		cmd_src CMD_SRC_EXT

		cmd_len	
	NUM_ELEMENTS(C_PLUS_NRG_LIM)	cmd_seq	C_PLUS_NRG_LIM
(4) MMR_NREG_REQ		detach_cause	CS_SIM_REM
(5) MMR_NREG_IND		service	NREG_NO_SERVICE
		search_running	
	SEARCH_NOT_RUNNING	new_forb_plmn	S_PLMN_262_01
		cause	
	MMCS_PLMN_NOT_ALLOWED		
(6) MMR_PLMN_MODE_REQ		mode	MODE_MAN
(7) ACI_CMD_IND			
		cmd_len	
	NUM_ELEMENTS(M_ERR_NO_NTW_SRV)	cmd_seq	M_ERR_NO_NTW_SRV

History: 22.04.99 AK Initial

4.6.13 ACI107: Limited Service out of Limited Service, Successful

Description:

Change registration service from limited to limited. Successful attempt

Preamble:

	ACI105		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: AT%NRG=, 1)		
	* =====> *		
(2)			
	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
		cmd_len	NUM_ELEMENTS(C_PLUS_NRG_LIM)
		cmd_seq	C_PLUS_NRG_LIM
(2)	ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK

History: 22.04.99 AK Initial

4.6.14 ACI108: No Service out of Limited Service, Successful

Description:

Change registration service from limited to no service. Successful attempt.

Preamble:

```

ACI105
APL                               ACI                               PS
|                                 |                                 |
(1) |          ACI_CMD_REQ         |                                 |
    |      (cmd: AT%NRG=, 2)      |                                 |
    | * =====> *                |                                 |
(2) |                                 |          MMR_NREG_REQ         |
    |                                 | * =====> *                |
(3) |                                 |          MMR_NREG_CNF         |
    |                                 | * <===== *                |
(4) |          ACI_CMD_IND         |                                 |
    |      (msg: OK)              |                                 |
    | * <===== *                |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_NO)
	cmd_seq	C_PLUS_NRG_NO
(2) MMR_NREG_REQ	detach_cause	CS_POW_OFF
(3) MMR_NREG_CNF	detach_cause	CS_POW_OFF
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.04.99 AK Initial

4.6.15 ACI110: Limited Service, PIN entered

Description:

Register to limited service. PIN was already entered.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CFUN=1)		
	=====>		
(2)		SIM_ACTIVATE_REQ	
		=====>	
(3)		SIM_ACTIVATE_CNF	
		<=====	
(4)		SIM_MMI_INSERT_IND	
		<=====	
(5)		SIM_READ_REQ	
		=====>	
(6)		SIM_READ_CNF	
		<=====	
(7)		SIM_READ_REQ	
		=====>	
(8)		SIM_READ_CNF	
		<=====	
(9)	ACI_CMD_IND (msg: OK)		
	<=====		
(10)	ACI_CMD_REQ (cmd: AT%NRG=,1)		
	=====>		
(11)		MMR_NREG_REQ	
		=====>	
(12)		MMR_NREG_CNF	
		<=====	
(13)		MMR_PLMN_MODE_REQ	
		=====>	
(14)		MMR_REG_REQ	
		=====>	
(15)		MMR_NREG_IND	
		<=====	
(16)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

	NUM_ELEMENTS(C_PLUS_CFUN_FULL)	
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND		
	func	NOT_USED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_AD_FIELD_CI_DISABLED
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_LIM)
	cmd_seq	C_PLUS_NRG_LIM
(11) MMR_NREG_REQ		
	detach_cause	CS_SIM_REM
(12) MMR_NREG_CNF		
	detach_cause	CS_SIM_REM
(13) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(14) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(15) MMR_NREG_IND		
	service	NREG_LIMITED_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	S_PLMN_262_01
	cause	NOT_USED
(16) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 21.04.99 AK Initial

4.6.16 ACI111: Limited Service, No PIN entered

Description:

Register to limited service. No PIN was already entered.

Preamble:

	ACI001		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: AT%NRG=, 1)		
	* =====> *		
(2)		MMR_PLMN_MODE_REQ	
		* =====> *	
(3)		MMR_REG_REQ	
		* =====> *	
(4)		MMR_NREG_IND	
		* <===== *	
(5)			
	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_NRG_LIM)
	cmd_seq	C_PLUS_NRG_LIM

(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(3) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(4) MMR_NREG_IND	service search_running new_forb_plmn cause	NREG_LIMITED_SERVICE SEARCH_NOT_RUNNING S_PLMN_262_01 NOT_USED
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	21.04.99 AK	Initial

4.6.17 ACI113: Change Registration Mode

Description: Toggle Registration Mode.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%NRG=0, 3)		
	* =====> *		
(2)		MMR_PLMN_MODE_REQ	
		* =====> *	
(5)	ACI_CMD_IND (msg: OK)		
	* <===== *		
(1)	ACI_CMD_REQ (cmd: AT%NRG=1, 3)		
	* =====> *		
(2)		MMR_PLMN_MODE_REQ	
		* =====> *	
(5)	ACI_CMD_IND (msg: OK)		
	* <===== *		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_NRG_SET_AUTO) cmd_seq	CMD_SRC_EXT C_PLUS_NRG_SET_AUTO
(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO

(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(4) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_NRG_SET_MAN) C_PLUS_NRG_SET_MAN
(5) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 23.04.99 AK Initial

4.6.18 ACI114: Query PIN Status, no SIM information

Description: Query for PIN status. SIM data currently not available.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPIN?) *=====>*		
(2)		SIM_ACTIVATE_REQ *=====>*	
(3)		SIM_ACTIVATE_CNF *<=====*	
(4)	ACI_CMD_IND (msg: +CPIN: SIM PIN..) *<=====*		
(5)	ACI_CMD_IND (msg: OK) *<=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPIN_QUERY) cmd_seq	CMD_SRC_EXT C_PLUS_CPIN_QUERY
(2) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED

(3) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_1 NOT_USED A_FAC_BUILD_MPTY_RES
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 20.05.99 AK Initial

4.7.2 ACI121: Establish a new call while putting the multiparty on hold

Description:

New call setup. Multiparty call will be put on hold first.

Preamble:

	ACI120		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(2)		MNCC_FACILITY_REQ	
		=====>	
(3)		MNCC_FACILITY_IND	
		<=====	
(4)		MNCC_SETUP_REQ	
		=====>	
(5)		MNCC_CALL_PROCEED_IND	
		<=====	
(6)		MNCC_PROGRESS_IND	
		<=====	
(7)		MNCC_ALERT_IND	
		<=====	
(8)		MNCC_SYNC_IND	
		<=====	
(9)		MNCC_SETUP_CNF	
		<=====	
(10)	ACI_CMD_IND (msg: +COLP:...)		
	<=====		
(11)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE

(2) MNCC_FACILITY_REQ	ti fac_inf ss_version	NUM_0 A_FAC_HOLD_MPTY NUM_0
(3) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 NOT_USED A_FAC_HOLD_MPTY_RES
(4) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_2 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(5) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_2 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND	ti progress_desc	NUM_2 PROG_NOT_PRESENT
(7) MNCC_ALERT_IND	ti progress_desc	NUM_2 PROG_NOT_PRESENT
(8) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(9) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_2 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT S_CLG_PARTY S_CLG_PARTY_SUB
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NUM) cmd_seq	M_PLUS_COLP_NUM
(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

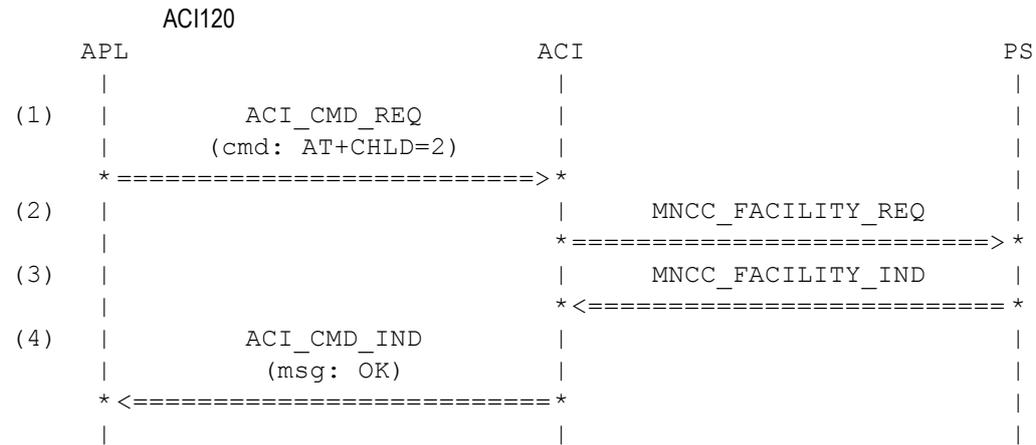
History: 20.05.99 AK Initial

4.7.3 ACI122: Place multiparty on hold

Description:

Place multiparty call on hold.

Preamble:



Parametrization:

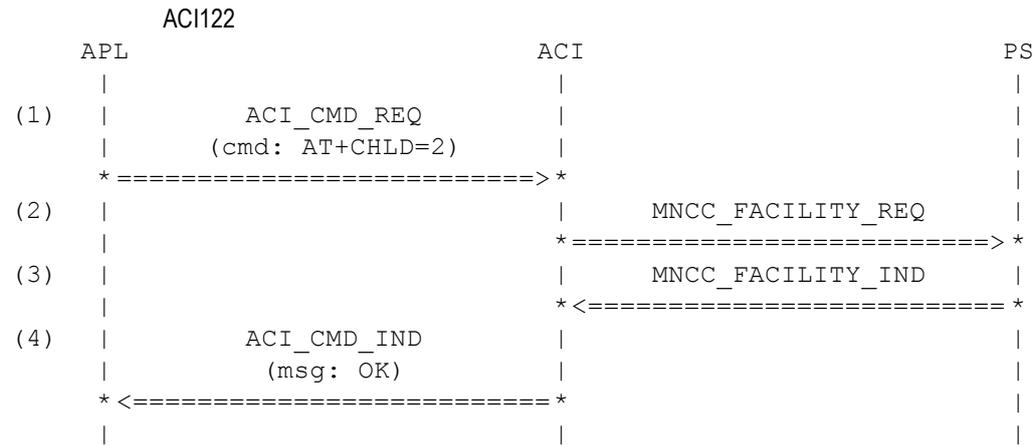
Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_2)
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_FACILITY_REQ	ti	NUM_0
	fac_inf	A_FAC_HOLD_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_HOLD_MPTY_RES
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.7.4 ACI123: Retrieve held multiparty

Description: Retrieve a held multiparty call.

Preamble:



Parametrization:

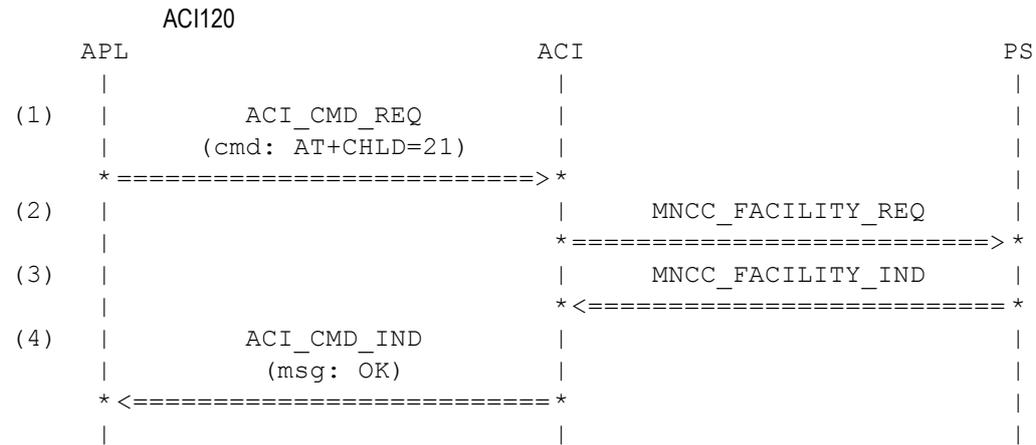
Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_2)
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_FACILITY_REQ	ti	NUM_0
	fac_inf	A_FAC_RETRIEVE_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_RETRIEVE_MPTY_RES
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.7.5 ACI124: Split multiparty

Description: Split multiparty call and continue communication with call 0.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_21)
	cmd_seq	C_PLUS_CHLD_21
(2) MNCC_FACILITY_REQ	ti	NUM_0
	fac_inf	A_FAC_SPLIT_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_SPLIT_MPTY_RES
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.7.6 ACI125: Build multiparty call with timeout

Description:

Build multiparty call out of an active and a two held calls. Network timed out.

Preamble:

```

ACI051A
      APL                      ACI                      PS
      |                        |                        |
(1)  |      ACI_CMD_REQ      |                        |
      |      (cmd: AT+CHLD=3) |                        |
      | *=====>*          |                        |
(2)  |                        |      MNCC_FACILITY_REQ |
      |                        | *=====>*          |
TIMEOUT (13000)
(3)  |      ACI_CMD_IND      |                        |
      |      (msg: ERROR)    |                        |
      | *<=====*          |                        |
      |                        |                        |
  
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_3)
	cmd_seq	C_PLUS_CHLD_3
(2) MNCC_FACILITY_REQ	ti	NUM_1
	fac_inf	A_FAC_BUILD_MPTY
	ss_version	NUM_0
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR

History: 28.06.99 AK Initial

4.7.7 ACI126: Toggle Held Multiparty and Active Call

Description:

The active call will put on hold and the held multiparty will be retrieved.

Preamble:

	ACI121		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CHLD=2)		
	=====>		
(2)		MNCC_HOLD_REQ	
		=====>	
(4)		MNCC_FACILITY_REQ	
		=====>	
(3)		MNCC_HOLD_CNF	
		<=====	
(5)		MNCC_FACILITY_IND	
		<=====	
(6)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_2)
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ	ti	NUM_2
(3) MNCC_FACILITY_REQ	ti	NUM_0
	fac_inf	A_FAC_RETRIEVE_MPTY
	ss_version	NUM_0
(4) MNCC_HOLD_CNF	ti	NUM_2
	cause	MNCC_CAUSE_HOLD_SUCCESS
(5) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_RETRIEVE_MPTY_RES
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.7.8 ACI127: Toggle Active Multiparty and Held Call

Description:

The active multiparty will be put on hold and the held call will be retrieved.

Preamble:

	ACI126		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CHLD=2)		
	* =====> *		
(2)		MNCC_FACILITY_REQ	
		* =====> *	
(3)		MNCC_RETRIEVE_REQ	
		* =====> *	
(4)		MNCC_FACILITY_IND	
		* <===== *	
(5)		MNCC_RETRIEVE_CNF	
		* <===== *	
(6)	ACI_CMD_IND (msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_2) C_PLUS_CHLD_2
(2) MNCC_FACILITY_REQ	ti fac_inf ss_version	NUM_0 A_FAC_HOLD_MPTY_2 NUM_0
(3) MNCC_RETRIEVE_REQ	ti	NUM_2
(4) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 NOT_USED A_FAC_HOLD_MPTY_RES
(5) MNCC_RETRIEVE_CNF	ti cause	NUM_2 MNCC_CAUSE_RETRIEVE_SUCCESS
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 20.05.99 AK Initial

4.7.9 ACI128: Place all active multiparty on hold and accept the waiting call

Description:

Place the current active multiparty call on hold. Accept the incoming call.

Preamble:

ACI120		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+CCWA=1)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)		MNCC_SETUP_IND	
		<=====	
(4)	ACI_CMD_IND (msg: +CCWA: ...)		
	<=====		
(5)		MNCC_ALERT_REQ	
		=====>	
(6)	ACI_CMD_REQ (cmd: AT+CHLD=2)		
	=====>		
(2)		MNCC_FACILITY_REQ	
		=====>	
(3)		MNCC_FACILITY_IND	
		<=====	
(9)		MNCC_SETUP_RES	
		=====>	
(10)		MNCC_SYNC_IND	
		<=====	
(11)		MNCC_SETUP_COMPL_IND	
		<=====	
(12)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CCWA_ON)	
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(3) MNCC_SETUP_IND	ti ri bcpara bcpara2 progress_desc sig calling_party calling_party_sub called_party called_party_sub redirecting_party redirecting_party_sub	NUM_8 RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT PROG_NOT_PRESENT SIG_RING_BACK_TONE_ON S_CLG_PARTY S_CLG_PARTY_SUB S_CLD_PARTY S_CLD_PARTY_SUB NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CCWA) M_PLUS_CCWA
(5) MNCC_ALERT_REQ	ti	NUM_8
(6) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_2) C_PLUS_CHLD_2
(7) MNCC_FACILITY_REQ	ti fac_inf ss_version	NUM_0 A_FAC_HOLD_MPTY NUM_0
(8) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 NOT_USED A_FAC_HOLD_MPTY_RES
(9) MNCC_SETUP_RES	ti	NUM_8
(10) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 AK Initial

4.7.10 ACI129: Release active multiparty and accept the waiting call

Description:

Release all members of the active multiparty call. Accept the incoming call.

Preamble:

ACI120		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+CCWA=1)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)		MNCC_SETUP_IND	
		<=====	
(4)	ACI_CMD_IND (msg: +CCWA: ...)		
	<=====		
(5)		MNCC_ALERT_REQ	
		=====>	
(6)	ACI_CMD_REQ (cmd: AT+CHLD=1)		
	=====>		
(8)		MNCC_DISCONNECT_REQ	
		=====>	
(9)		SIM_SYNC_REQ	
		=====>	
(10)		MNCC_DISCONNECT_REQ	
		=====>	
(11)		MNCC_RELEASE_IND	
		<=====	
(12)		MNCC_RELEASE_IND	
		<=====	
(14)		MNCC_SETUP_RES	
		=====>	
(15)		SIM_SYNC_REQ	
		=====>	
(16)		MNCC_SYNC_IND	
		<=====	
(17)		MNCC_SETUP_COMPL_IND	
		<=====	
(18)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	
	NUM_ELEMENTS(C_PLUS_CCWA_ON)	
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRESENT
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CCWA)
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_1)
	cmd_seq	C_PLUS_CHLD_1
(7) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(8) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(9) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(10) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(11) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
(12) MNCC_SETUP_RES		
	ti	NUM_8
(13) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL

(14) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(15) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(16) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 AK Initial

4.7.11 ACI130: Release active multiparty and retrieve held call

Description:

The active multiparty will be released and the held call will be retrieved.

Preamble:

	ACI126		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CHLD=1) *=====>*	 	
(2)		MNCC_DISCONNECT_REQ *=====>*	
(3)		MNCC_DISCONNECT_REQ *=====>*	
(4)		MNCC_RELEASE_IND *<=====*	
(5)		MNCC_RELEASE_IND *<=====*	
(6)		MNCC_RETRIEVE_REQ *=====>*	
(7)		MNCC_RETRIEVE_CNF *<=====*	
(8)	ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_1) C_PLUS_CHLD_1
(2) MNCC_DISCONNECT_REQ	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR

	fac_inf	NOT_USED
	ss_version	NOT_USED
(3) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(4) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(5) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
(6) MNCC_RETRIEVE_REQ		
	ti	NUM_2
(7) MNCC_RETRIEVE_CNF		
	ti	NUM_2
	cause	MNCC_CAUSE_RETRIEVE_SUCCESS
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

* <=====*

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CSNS_QUERY)
	cmd_seq	C_PLUS_CSNS_QUERY
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CSNS_0)
	cmd_seq	M_PLUS_CSNS_0
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CSNS_VAF_V)
	cmd_seq	C_PLUS_CSNS_VAF_V
	called_party_sub	NOT_USED
(5) MNCC_CONFIGURE_REQ	bcpara	S_BS_DEF
	sns_mode	SNS_MODE_VAF_FAX
	ctm_ena	NOT_USED
	cmd_len	NUM_ELEMENTS(M_OK)
(6) ACI_CMD_IND	cmd_seq	M_OK
	cmd_src	CMD_SRC_EXT
(7) ACI_CMD_REQ	cmd_len	NUM_ELEMENTS(C_PLUS_CSNS_QUERY)
	cmd_seq	C_PLUS_CSNS_QUERY
	cmd_len	NUM_ELEMENTS(M_PLUS_CSNS_5)
(8) ACI_CMD_IND	cmd_seq	M_PLUS_CSNS_5
	cmd_len	NUM_ELEMENTS(M_OK)
(9) ACI_CMD_IND	cmd_seq	M_OK
	cmd_src	CMD_SRC_EXT
(10) ACI_CMD_REQ	cmd_len	NUM_ELEMENTS(C_PLUS_CBST_14400_ASY_BTP)
	cmd_seq	C_PLUS_CBST_14400_ASY_BTP
	called_party_sub	NOT_USED
	bcpara	S_BS_FAX_14400
(11) MNCC_CONFIGURE_REQ		

	sns_mode	SNS_MODE_VAF_FAX
	ctm_ena	NOT_USED
(12) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CSNS_VFD)	
	cmd_seq	C_PLUS_CSNS_VFD
(14) MNCC_CONFIGURE_REQ		
	called_party_sub	NOT_USED
	bcpara	S_BS_DAT_14400_ASY_BTP
	sns_mode	SNS_MODE_VFD
	ctm_ena	NOT_USED
(15) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 20.05.99 AK Initial

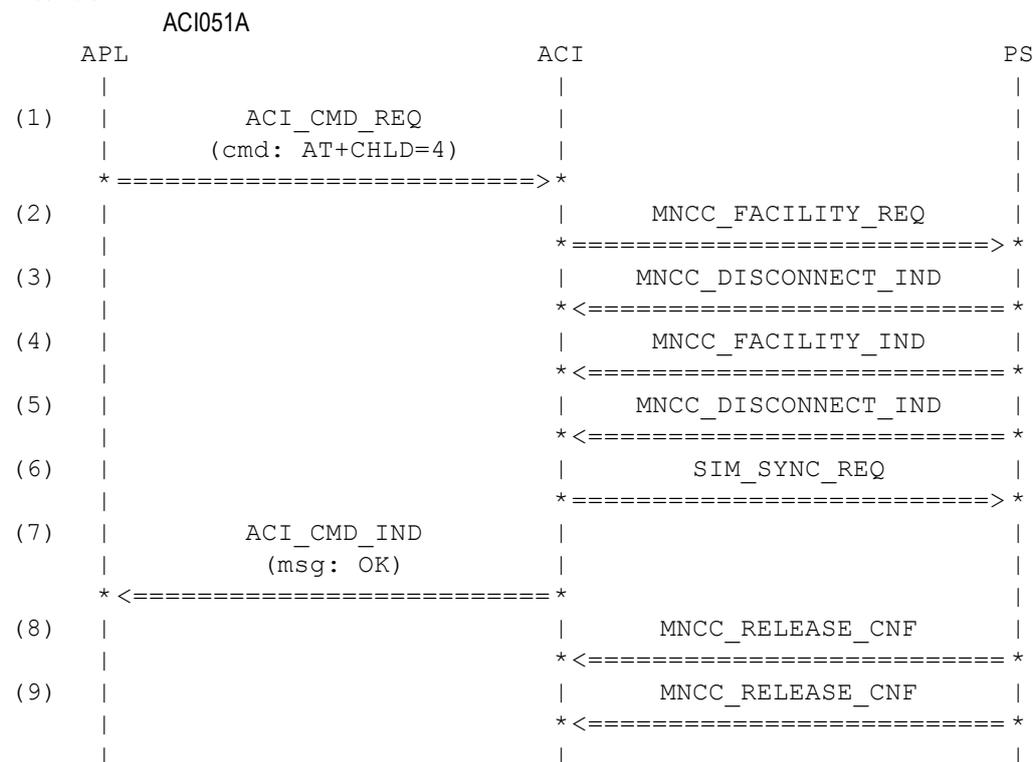
4.9 ECT: Explicit Call Transfer (ACI135-ACI138)

4.9.1 ACI135: Successful explicit call transfer

Description:

An active call and a call on hold will explicitly transferred.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_4)
	cmd_seq	C_PLUS_CHLD_4
(2) MNCC_FACILITY_REQ	ti	NUM_0
	fac_inf	A_FAC_ECT
	ss_version	NUM_0
(3) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES

(4) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 NOT_USED A_FAC_ECT_RES
(5) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_1 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(6) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(8) MNCC_RELEASE_CNF	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(9) MNCC_RELEASE_CNF	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
History:	20.05.99 AK Initial	

4.9.2 ACI136: TIME OUT: explicit call transfer

Description:

An active call and a call on hold will explicitly transferred: however a time out occurs....

Preamble:

```

ACI051A
APL                               ACI                               PS
|                                 |                                 |
(1) |          ACI_CMD_REQ         |                                 |
    |      (cmd: AT+CHLD=4)       |                                 |
    * =====> *                 |                                 |
(2) |                                 |          MNCC_FACILITY_REQ         |
    |                                 | * =====> *                 |
TIMEOUT (15000)
(7) |          ACI_CMD_IND         |                                 |
    |      (msg: ERROR)           |                                 |
    * <===== *                 |                                 |
    |                                 |                                 |

```

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(10) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_4) C_PLUS_CHLD_4
(11) MNCC_FACILITY_REQ	ti	NUM_0

	fac_inf	A_FAC_ECT
	ss_version	NUM_0
(12) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR

History: 19.02.02 CLB Initial

4.9.3 ACI137: Successful explicit call transfer (FTA 31.13.1.4)

Description:

An active call (yet only alerting !) and a call on hold will be explicitly transferred.

Preamble:

ACI001		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)		MNCC_SETUP_IND	
		<=====	
(4)	ACI_CMD_IND (msg: RING)		
	<=====		
(5)		MNCC_ALERT_REQ	
		=====>	
(6)	ACI_CMD_REQ (cmd: ATA)		
	=====>		
(7)		MNCC_SETUP_RES	
		=====>	
(10)		MNCC_SYNC_IND	
		<=====	
(9)		MNCC_SETUP_COMPL_IND	
		<=====	
(18)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(4)		MNCC_HOLD_REQ	
		=====>	
(5)		MNCC_HOLD_CNF	
		<=====	
(6)		MNCC_SETUP_REQ	
		=====>	
(13)	ACI_CMD_IND (msg: OK)		
	<=====		
(7)		MNCC_CALL_PROCEED_IND	
		<=====	
(8)		MNCC_PROGRESS_IND	
		<=====	
(9)		MNCC_ALERT_IND	
		<=====	
(10)		MNCC_SYNC_IND	

	cmd_len cmd_seq	NUM_ELEMENTS(C_A) C_A
(6) MNCC_SETUP_RES	ti	NUM_8
(7) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(8) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(14) ACI_CMD_IND		cmd_len NUM_ELEMENTS(M_OK) cmd_seq M_OK
(15) ACI_CMD_REQ		cmd_src CMD_SRC_EXT cmd_len NUM_ELEMENTS(C_D_VOICE) cmd_seq C_D_VOICE
(16) MNCC_HOLD_REQ		ti NUM_8
(17) MNCC_HOLD_CNF		ti NUM_8 cause MNCC_CAUSE_HOLD_SUCCESS
(18) MNCC_SETUP_REQ		ti NUM_0 prio PRIO_NORM_CALL ri RI_NOT_PRESENT bcpara S_BS_VOICE bcpara2 S_BS_NOT_PRESENT called_party S_CLD_PARTY called_party_sub S_CLD_PARTY_SUB clr_sup CLR_SUP fac_inf NOT_USED
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(19) MNCC_CALL_PROCEED_IND		ti NUM_0 progress_desc PROG_NOT_PRESENT ri RI_NOT_PRESENT bcpara S_BS_VOICE bcpara2 S_BS_NOT_PRESENT
(20) MNCC_PROGRESS_IND		ti NUM_0 progress_desc PROG_NOT_PRESENT

(21) MNCC_ALERT_IND		ti NUM_0 progress_desc
	PROG_NOT_PRES	
(22) MNCC_SYNC_IND		ti NUM_0 cause
	MNCC_CAUSE_CHANNEL_SYNC	
		chm S_CHN_SPEECH
(14) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_4)
	cmd_seq	C_PLUS_CHLD_4
(15) MNCC_FACILITY_REQ		
	ti	NUM_8
	fac_inf	A_FAC_ECT
	ss_version	NUM_0
(16) MNCC_DISCONNECT_IND		
	ti	NUM_8
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(17) MNCC_FACILITY_IND		
	ti	NUM_8
	fac_context	NOT_USED
	fac_inf	A_FAC_ECT_RES
(18) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(19) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(20) MNCC_RELEASE_CNF		
	ti	NUM_8
	cause	MNCC_CAUSE_CALL_CLEAR
(21) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History: 25.02.02 CLB Initial

4.9.4 ACI138: Explicit call transfer: network answers with reject component (FTA 31.13.1.5)

Description:

An active and a call on hold will be explicitly transferred: network does not allow it

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	
(3)		MNCC_SETUP_IND
		<=====
(4)	ACI_CMD_IND (msg: RING)	
	<=====	
(5)		MNCC_ALERT_REQ
		=====>
(6)	ACI_CMD_REQ (cmd: ATA)	
	=====>	
(7)		MNCC_SETUP_RES
		=====>
(10)		MNCC_SYNC_IND
		<=====
(9)		MNCC_SETUP_COMPL_IND
		<=====
(18)	ACI_CMD_IND (msg: OK)	
	<=====	
(3)	ACI_CMD_REQ (cmd: ATD123456;)	
	=====>	
(4)		MNCC_HOLD_REQ
		=====>
(5)		MNCC_HOLD_CNF
		<=====
(6)		MNCC_SETUP_REQ
		=====>
(13)	ACI_CMD_IND (msg: OK)	
	<=====	
(7)		MNCC_CALL_PROCEED_IND
		<=====
(8)		MNCC_PROGRESS_IND
		<=====
(9)		MNCC_ALERT_IND
		<=====
(10)		MNCC_SYNC_IND

(1)		ACI_CMD_REQ (cmd: AT+CHLD=4)		* <=====*	
(2)				=====>*	
(4)				MNCC_FACILITY_REQ	
(7)		ACI_CMD_IND (msg: ERROR)		* <=====*	
(1)		ACI_CMD_REQ (cmd: AT+CHLD=4)		=====>*	
(2)				MNCC_FACILITY_REQ	
(4)				MNCC_FACILITY_IND	
(7)		ACI_CMD_IND (msg: ERROR)		* <=====*	

Parametrization:

Primitive	Parameter	Value
(2) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(10) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRESENT
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED
(11) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(12) MNCC_ALERT_REQ	ti	NUM_8

(13) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_A) C_A
(14) MNCC_SETUP_RES	ti	NUM_8
(15) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(16) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(23) ACI_CMD_IND		cmd_len NUM_ELEMENTS(M_OK) cmd_seq M_OK
(24) ACI_CMD_REQ	NUM_ELEMENTS(C_D_VOICE)	cmd_src CMD_SRC_EXT cmd_len cmd_seq C_D_VOICE
(25) MNCC_HOLD_REQ		ti NUM_8
(26) MNCC_HOLD_CNF		ti NUM_8 cause MNCC_CAUSE_HOLD_SUCCESS
(27) MNCC_SETUP_REQ		ti NUM_0 prio PRIO_NORM_CALL ri RI_NOT_PRESENT bcpara S_BS_VOICE bcpara2 S_BS_NOT_PRESENT called_party S_CLD_PARTY called_party_sub S_CLD_PARTY_SUB clr_sup CLR_SUP fac_inf NOT_USED
(22) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(28) MNCC_CALL_PROCEED_IND		ti NUM_0 progress_desc PROG_NOT_PRESENT ri RI_NOT_PRESENT bcpara S_BS_VOICE bcpara2 S_BS_NOT_PRESENT
(29) MNCC_PROGRESS_IND		ti NUM_0

		progress_desc
(30) MNCC_ALERT_IND	PROG_NOT_PRES	ti NUM_0 progress_desc
(31) MNCC_SYNC_IND	PROG_NOT_PRES	ti NUM_0 cause
(23) ACI_CMD_REQ	MNCC_CAUSE_CHANNEL_SYNC	chm S_CHN_SPEECH
(24) MNCC_FACILITY_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_4) C_PLUS_CHLD_4
(25) MNCC_FACILITY_IND	ti fac_inf ss_version	NUM_8 A_FAC_ECT NUM_0
(32) ACI_CMD_IND	ti fac_context fac_inf	NUM_8 NOT_USED A_FAC_ECT_REJ_RES
(26) ACI_CMD_REQ	NUM_ELEMENTS(M_ERROR)	cmd_len cmd_seq M_ERROR
(27) MNCC_FACILITY_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_4) C_PLUS_CHLD_4
(28) MNCC_FACILITY_IND	ti fac_inf ss_version	NUM_8 A_FAC_ECT_2 NUM_0
(29) ACI_CMD_IND	ti fac_context fac_inf	NUM_8 NOT_USED A_FAC_ECT_REJ_RES
	cmd_len cmd_seq	NUM_ELEMENTS(M_ERROR) M_ERROR

History: 28.02.02 CLB Initial

4.10 Fixed Dialling (ACI0139-ACI149)

4.10.1 ACI139: Power On

Description:

activate SIM card at power on

Preamble:

ACI001		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: +CFUN=1)		
	* =====> *		
(2)		SIM_ACTIVATE_REQ	
		* =====> *	
(3)		SIM_ACTIVATE_CNF	
		* <===== *	
(4)		SIM_MMI_INSERT_IND	
		* <===== *	
(5)		SIM_READ_REQ	
		* =====> *	
(6)		SIM_READ_CNF	
		* <===== *	
(7)		SIM_READ_REQ	
		* =====> *	
(8)		SIM_READ_CNF	
		* <===== *	
(9)	ACI_CMD_IND (msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CFUN_FULL)
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED

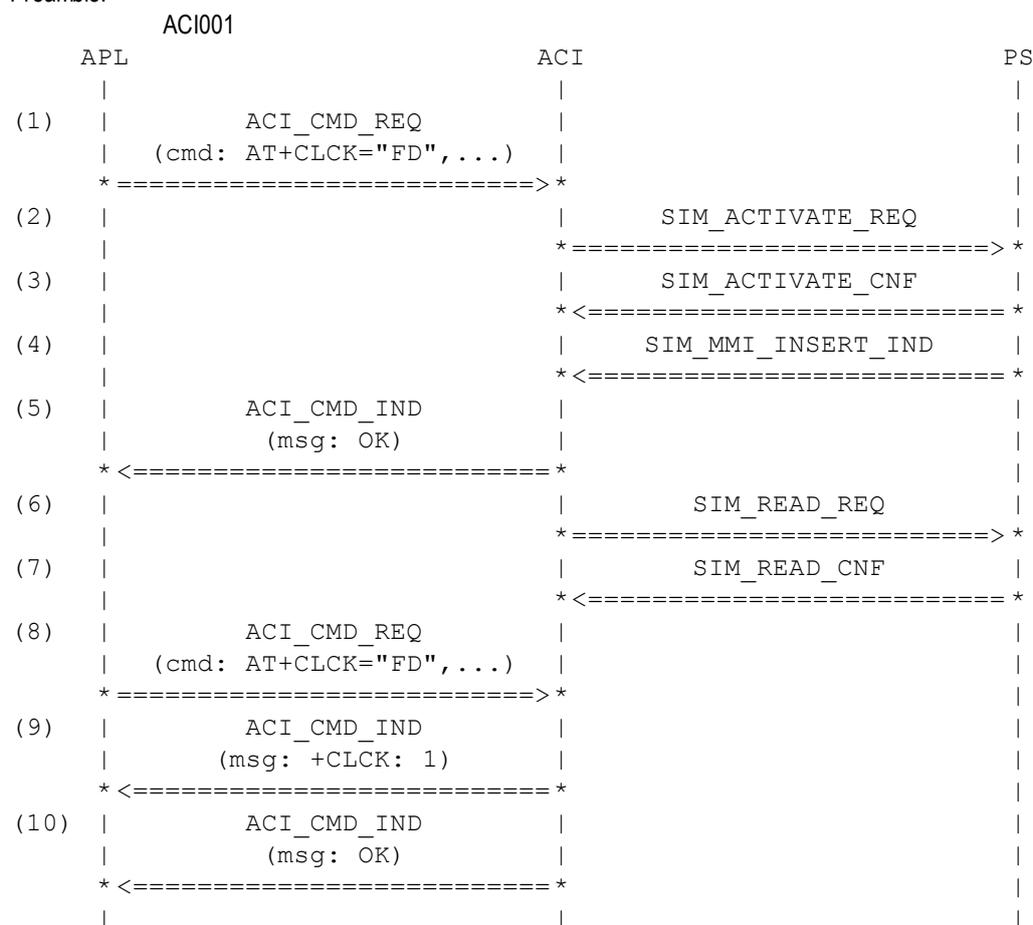
(4) SIM_MMI_INSERT_IND	func	SIM_ADN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	NOT_USED
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_AD_FIELD_CI_DISABLED
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 27.07.99 ACI Initial

4.10.2 ACI140: Enable FDN with PIN 2 Entry

Description: Enable FDN. PIN 2 is verified upon entry request.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_FD_ENA)	
	cmd_seq	C_PLUS_CLCK_FD_ENA
(2) SIM_ACTIVATE_REQ	proc	SIM_FDN_ENABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_10

	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND	func	SIM_FDN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(6) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(7) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(8) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLK_FD_QUERY)
	cmd_seq	C_PLUS_CLK_FD_QUERY
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CLK_FD_ENA)
	cmd_seq	M_PLUS_CLK_FD_ENA
(10) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.06.99 AK Initial

4.10.3 ACI141: Enable FDN no PIN 2 needed

Description:

Enable FDN. PIN 2 is not needed.

Preamble:

ACI139		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+CLCK="FD",...)		
	=====>		
(2)		SIM_ACTIVATE_REQ	
		=====>	
(3)		SIM_ACTIVATE_CNF	
		<=====	
(4)		SIM_MMI_INSERT_IND	
		<=====	
(5)	ACI_CMD_IND (msg: OK)		
	<=====		
(6)		SIM_READ_REQ	
		=====>	
(7)		SIM_READ_CNF	
		<=====	
(8)	ACI_CMD_REQ (cmd: AT+CLCK="FD",...)		
	=====>		
(9)	ACI_CMD_IND (msg: +CLCK: 1)		
	<=====		
(10)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_FD_ENA)	
	cmd_seq	C_PLUS_CLCK_FD_ENA
(2) SIM_ACTIVATE_REQ	proc	SIM_FDN_ENABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_10

	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_MMI_INSERT_IND	func	SIM_FDN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(6) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(7) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(8) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLK_FD_QUERY)
	cmd_seq	C_PLUS_CLK_FD_QUERY
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CLK_FD_ENA)
	cmd_seq	M_PLUS_CLK_FD_ENA
(10) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.06.99 AK Initial

4.10.4 ACI142: Enable FDN with wrong PIN 2 Entry

Description:

Enable FDN. PIN 2 is verified upon entry request. PIN 2 is false.

Preamble:

	ACI001		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: AT+CLCK="FD",...)		
	=====>		
(2)		SIM_ACTIVATE_REQ	
		=====>	
(3)		SIM_ACTIVATE_CNF	
		<=====	
(4)		SIM_VERIFY_PIN_REQ	
		=====>	
(5)		SIM_VERIFY_PIN_CNF	
		<=====	
(6)			
	ACI_CMD_IND		
	(msg: ERROR)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_FD_ENA)	
	cmd_seq	C_PLUS_CLCK_FD_ENA
(2) SIM_ACTIVATE_REQ	proc	SIM_FDN_ENABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_PIN2_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) SIM_VERIFY_PIN_REQ	source	SRC_MMI
	pin	A_PIN_12534
	pin_id	PHASE_2_PIN_2
(5) SIM_VERIFY_PIN_CNF	cause	SIM_CAUSE_PIN2_EXPECT

	pin_id	PHASE_2_PIN_2
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR

History: 23.06.99 AK Initial

4.10.5 ACI143: Single Voice Call with failed FDN Check

Description:

Mobile originated voice call establishment with failed FDN check

Preamble:

	ACI140		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CLIR=2)		
	=====>		
(2)	ACI_CMD_IND		
	(msg: OK)		
	<=====		
(3)	ACI_CMD_REQ		
	(cmd: AT+COLP=1)		
	=====>		
(4)	ACI_CMD_IND		
	(msg: OK)		
	<=====		
(5)	ACI_CMD_REQ		
	(cmd: ATD123456;)		
	=====>		
(6)	ACI_CMD_IND		
	(msg: ERROR)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE_CLIR)
	cmd_seq	C_D_VOICE_CLIR
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR
History:	23.06.99	AK Initial

4.10.6 ACI144: Disable FDN no PIN 2 Entry

Description:

Disable FDN after FDN was enabled. PIN 2 is not needed.

Preamble:

	ACI141		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CLCK="FD",...)		
	=====>		
(2)		SIM_ACTIVATE_REQ	
		=====>	
(3)		SIM_ACTIVATE_CNF	
		<=====	
(4)	ACI_CMD_IND		
	(msg: OK)		
	<=====		
(5)	ACI_CMD_REQ		
	(cmd: AT+CLCK="FD",...)		
	=====>		
(6)	ACI_CMD_IND		
	(msg: +CLCK: 1)		
	<=====		
(7)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_FD_DIS)
	cmd_seq	C_PLUS_CLCK_FD_DIS

(2) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_FDN_DISABLE NOT_USED NOT_USED
(3) SIM_ACTIVATE_CNF	cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang	SIM_NO_ERROR NUM_3 NUM_10 NUM_3 NUM_10 NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLCK_FD_QUERY) C_PLUS_CLCK_FD_QUERY
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLCK_FD_DIS) M_PLUS_CLCK_FD_DIS
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 23.06.99 AK Initial

4.10.7 ACI145: Enable FDN with no PIN 2 Entry

Description:

Enable FDN. PIN 2 is verified upon entry request. PIN 2 is false.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CLCK="FD", ...)		
	*=====> *		
(2)		SIM_ACTIVATE_REQ	
		*=====> *	
(3)		SIM_ACTIVATE_CNF	
		*<===== *	
(4)	ACI_CMD_IND		
	(msg: ERROR)		
	*<===== *		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLK_FD_ENA2)	
	cmd_seq	C_PLUS_CLK_FD_ENA2
(2) SIM_ACTIVATE_REQ	proc	SIM_FDN_ENABLE
	mml_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF	cause	SIM_CAUSE_PIN2_EXPECT
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR


```

(18) | | *=====> *
      | | T30_CAP_IND |
      | | *<===== *
(19) | ACI_CMD_IND | |
      | (msg: OK) | |
      | *<===== * |
      | | |
  
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_S0_3)
	cmd_seq	C_S0_3
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_CIRCULAR
	bcpara	S_BS_FAX
	bcpara2	S_BS_VOICE
	progress_desc	PROG_NOT PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) MNCC_ALERT_REQ	ti	NUM_8
	cause	NOT_USED
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(8) MNCC_SETUP_RES	ti	NUM_8
	cause	NOT_PRESENT_8BIT
(9) MNCC_SYNC_IND	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_FULL_9600
(10) MNCC_SETUP_COMPL_IND	ti	NUM_8
	cause	MNCC_CAUSE_SUCCESS

(11) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(12) RA_ACTIVATE_REQ	model tra_rate user_rate ndb nsb	RA_MODEL_FAX TRA_FULLRATE_9600 URA_9600 NUM_8 NUM_1
(13) RA_ACTIVATE_CNF	ack_flg	RA_ACK
(14) T30_ACTIVATE_REQ	trans_rate half_rate threshold frames_per_prim bitorder	NUM_9600 NUM_0 NUM_5A NUM_3 NUM_0
(15) T30_ACTIVATE_CNF	buf_size_rx buf_size_tx	NUM_4800 NUM_4800
(16) T30_CONFIG_REQ	hdlc_report test_mode	NUM_1 NOT_USED
(17) T30_CAP_REQ	hdlc_info	NOT_USED
(18) T30_CAP_IND	hdlc_info	S_HDLC_DCS
(19) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 25.06.99 AK Initial

4.11.2 ACI151: Automatic Answer enabled but manual answer performed

Description: Incoming FAX call. Manually answer after first ring

Preamble:

ACI001		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: ATS0=3)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)		MNCC_SETUP_IND	
		<=====	
(4)	ACI_CMD_IND (msg: RING)		
	<=====		
(5)		MNCC_ALERT_REQ	
		=====>	
(6)	ACI_CMD_REQ (cmd: ATA)		
	=====>		
(7)		MNCC_SETUP_RES	
		=====>	
(8)		MNCC_SYNC_IND	
		<=====	
(9)		MNCC_SETUP_COMPL_IND	
		<=====	
(10)		SIM_SYNC_REQ	
		=====>	
(11)		RA_ACTIVATE_REQ	
		=====>	
(12)		RA_ACTIVATE_CNF	
		<=====	
(13)		T30_ACTIVATE_REQ	
		=====>	
(14)		T30_ACTIVATE_CNF	
		<=====	
(15)		T30_CONFIG_REQ	
		=====>	
(16)		T30_CAP_REQ	
		=====>	
(17)		T30_CAP_IND	
		<=====	
(18)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(17) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_S0_3)
	cmd_seq	C_S0_3
(18) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(19) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_CIRCULAR
	bcpara	S_BS_FAX
	bcpara2	S_BS_VOICE
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
redirecting_party_sub	NOT_USED	
(20) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(21) MNCC_ALERT_REQ	ti	NUM_8
(22) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_A)
	cmd_seq	C_A
(23) MNCC_SETUP_RES	ti	NUM_8
(24) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_FULL_9600
(25) MNCC_SETUP_COMPL_IND	ti	NUM_8
	cause	MNCC_CAUSE_SUCCESS
(26) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(27) RA_ACTIVATE_REQ	model	RA_MODEL_FAX
	tra_rate	TRA_FULLRATE_9600
	user_rate	URA_9600
	ndb	NUM_8
	nsb	NUM_1
(28) RA_ACTIVATE_CNF	ack_flg	RA_ACK

(29)	T30_ACTIVATE_REQ	trans_rate	NUM_9600
		half_rate	NUM_0
		threshold	NUM_5A
		frames_per_prim	NUM_3
		bitorder	NUM_0
(30)	T30_ACTIVATE_CNF	buf_size_rx	NUM_4800
		buf_size_tx	NUM_4800
(31)	T30_CONFIG_REQ	hdlc_report	NUM_1
		test_mode	NOT_USED
(32)	T30_CAP_REQ	hdlc_info	NOT_USED
(33)	T30_CAP_IND	hdlc_info	S_HDLC_DCS
(34)	ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK

History: 25.06.99 AK Initial

4.11.3 ACI152: Automatic Answer enabled but hang up by remote party

Description:

Incoming FAX call. Remote Party disconnects before automatic answering.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: ATS0=3)		
	* =====> *		
(2)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		
(3)		MNCC_SETUP_IND	
		* <===== *	
(5)		MNCC_ALERT_REQ	
		* =====> *	
(4)	ACI_CMD_IND		
	(msg: RING)		
	* <===== *		
TIMEOUT (2500)			
(6)	ACI_CMD_IND		
	(msg: RING)		
	* <===== *		
(7)		MNCC_DISCONNECT_IND	
		* <===== *	
(8)		MNCC_RELEASE_CNF	
		* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_S0_3)
	cmd_seq	C_S0_3
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_CIRCULAR
	bcpara	S_BS_FAX
	bcpara2	S_BS_VOICE
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED
	(4) MNCC_ALERT_REQ	ti
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_RING)
	cmd_seq	M_RING
(7) MNCC_DISCONNECT_IND	ti	NUM_8
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(8) MNCC_RELEASE_CNF	ti	NUM_8
	cause	MNCC_CAUSE_CALL_CLEAR

History: 25.06.99 AK Initial

4.11.4 ACI153: Automatic Answer enabled but hang up by local party UDUB

Description:

Incoming FAX call. Local Party disconnects before automatic answering. User determined user busy

Preamble:

ACI001

Variants: <A>....<C>

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: ATS0=3)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	MNCC_SETUP_IND	
	<=====	
(5)		
	MNCC_ALERT_REQ	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: RING)	
	<=====	
TIMEOUT (2500)		
(6)		
	ACI_CMD_IND	
	(msg: RING)	
	<=====	
(7)		
	ACI_CMD_REQ	
	(cmd: ATH/ATCHLD=0/ATZ)	
	=====>	
(8)		
	MNCC_DISCONNECT_REQ	
	=====>	
(9)		
	MNCC_RELEASE_IND	
	<=====	
(10)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_S0_3)
	cmd_seq	C_S0_3
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_CIRCULAR
	bcpara	S_BS_FAX
	bcpara2	S_BS_VOICE
	progress_desc	PROG_NOT PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED

(4) MNCC_ALERT_REQ	ti	NUM_8
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_RING) M_RING
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_RING) M_RING
(7) ACI_CMD_REQ	cmd_src cmd_len <A> cmd_len cmd_len <C> cmd_len <A> cmd_seq cmd_seq <C> cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_H) NUM_ELEMENTS(C_PLUS_CHLD_0) NUM_ELEMENTS(C_Z) C_H C_PLUS_CHLD_0 C_Z
(8) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_8 MNCC_CAUSE_USER_BUSY NOT_USED NOT_USED
(9) MNCC_RELEASE_IND	ti cause	NUM_8 MNCC_CAUSE_CALL_CLEAR
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

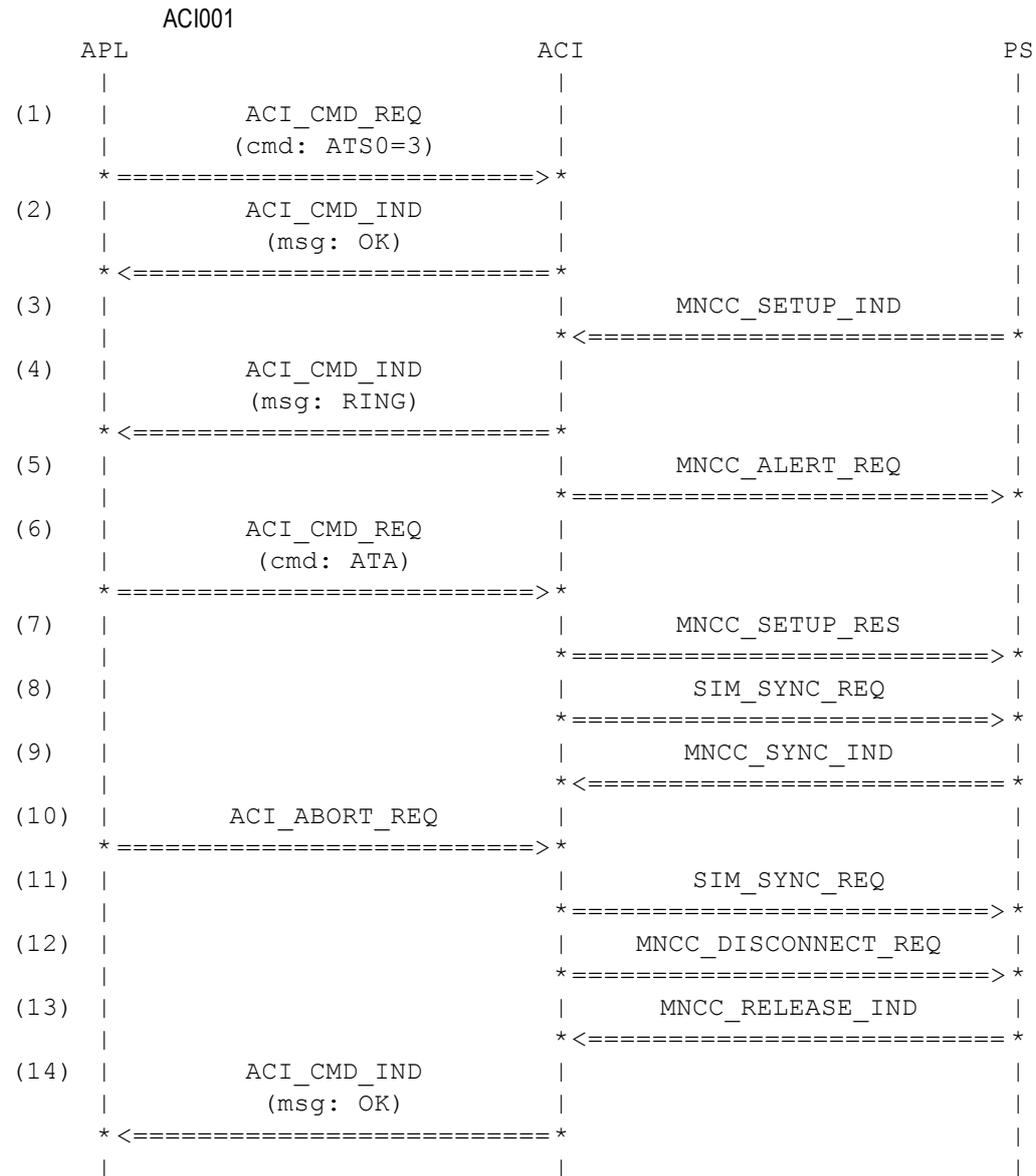
History: 25.06.99 AK Initial
 11.09.02 CLB create C variant with ATZ to replace ACI931.

4.11.5 ACI154: Automatic Answer enabled, call accepted and then aborted by local party

Description:

Incoming call. Local Party accepts and then disconnects before automatic answering using abort

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_S0_3)
	cmd_seq	C_S0_3

(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) MNCC_SETUP_IND	ti ri bcpara bcpara2 progress_desc sig calling_party calling_party_sub called_party called_party_sub redirecting_party redirecting_party_sub	NUM_8 RI_CIRCULAR S_BS_FAX S_BS_VOICE PROG_NOT_PRES SIG_RING_BACK_TONE_ON S_CLG_PARTY S_CLG_PARTY_SUB S_CLD_PARTY S_CLD_PARTY_SUB NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_RING) M_RING
(5) MNCC_ALERT_REQ	ti	NUM_8
(6) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_A) C_A
(7) MNCC_SETUP_RES	ti	NUM_8
(8) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(9) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_FULL_9600
(10) ACI_ABORT_REQ	cmd_src cause	CMD_SRC_EXT ABT_ABORT_CMD
(11) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(12) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_8 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(13) MNCC_RELEASE_IND	ti cause	NUM_8 MNCC_CAUSE_CALL_CLEAR
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 21.09.99 AK Initial

4.12 DTMF tone generation (ACI160-ACI165)

4.12.1 ACI160: Send DTMF

Description:

Send DTMF digits during an active call

Preamble:

ACI050A		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+VTS=1)		
	=====>		
(2)		MNCC_START_DTMF_REQ	
		=====>	
(3)		MNCC_START_DTMF_CNF	
		<=====	
(4)	ACI_CMD_IND (msg: OK)		
	<=====		
(5)	ACI_CMD_REQ (cmd: AT+VTS=a)		
	=====>		
(6)		MNCC_START_DTMF_REQ	
		=====>	
(7)		MNCC_START_DTMF_CNF	
		<=====	
(8)	ACI_CMD_IND (msg: OK)		
	<=====		
(9)	ACI_CMD_REQ (cmd: AT+VTS=*)		
	=====>		
(10)		MNCC_START_DTMF_REQ	
		=====>	
(11)		MNCC_START_DTMF_CNF	
		<=====	
(12)	ACI_CMD_IND (msg: OK)		
	<=====		
(13)	ACI_CMD_REQ (cmd: AT+VTS=#)		
	=====>		
(14)		MNCC_START_DTMF_REQ	
		=====>	
(15)		MNCC_START_DTMF_CNF	
		<=====	
(16)	ACI_CMD_IND (msg: OK)		
	<=====		
(17)	ACI_CMD_REQ		

```

|          (cmd: AT+VTS=9)          |          |
| * =====> *                    |          |
(18) |          |          MNCC_START_DTMF_REQ |          |
|          |          * =====> *    |          |
(19) |          ACI_ABORT_REQ        |          |
|          |          * =====> *    |          |
(20) |          ACI_CMD_IND          |          |
|          |          (msg: OK)        |          | |
|          |          * <===== *    |          |
|          |          |                  |          |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_1)
	cmd_seq	C_PLUS_VTS_1
(2) MNCC_START_DTMF_REQ	ti	NUM_0
	key	KEY_1
	dtmf_mod	DTMF_MOD_AUTO
(3) MNCC_START_DTMF_CNF	ti	NUM_0
	key	KEY_1
	cause	MNCC_CAUSE_DTMF_START_SUCCESS
	dtmf_mod	DTMF_MOD_AUTO
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_A)
	cmd_seq	C_PLUS_VTS_A
(6) MNCC_START_DTMF_REQ	ti	NUM_0
	key	KEY_A
	dtmf_mod	DTMF_MOD_AUTO
(7) MNCC_START_DTMF_CNF	ti	NUM_0
	key	KEY_A
	cause	MNCC_CAUSE_DTMF_START_SUCCESS
	dtmf_mod	DTMF_MOD_AUTO
(8) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(9) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

		NUM_ELEMENTS(C_PLUS_VTS_STAR)
	cmd_seq	C_PLUS_VTS_STAR
(10) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_STAR
	dtmf_mod	DTMF_MOD_AUTO
(11) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_STAR
	cause	MNCC_CAUSE_DTMF_START_SUCCESS
	dtmf_mod	DTMF_MOD_AUTO
(12) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
		NUM_ELEMENTS(C_PLUS_VTS_HASH)
	cmd_seq	C_PLUS_VTS_HASH
(14) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_HASH
	dtmf_mod	DTMF_MOD_AUTO
(15) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_HASH
	cause	MNCC_CAUSE_DTMF_START_SUCCESS
	dtmf_mod	DTMF_MOD_AUTO
(16) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(17) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_1)
	cmd_seq	C_PLUS_VTS_1
(18) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_1
	dtmf_mod	DTMF_MOD_AUTO
(19) ACI_ABORT_REQ		
	cmd_src	CMD_SRC_EXT
	cause	ABT_ABORT_CMD
(20) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

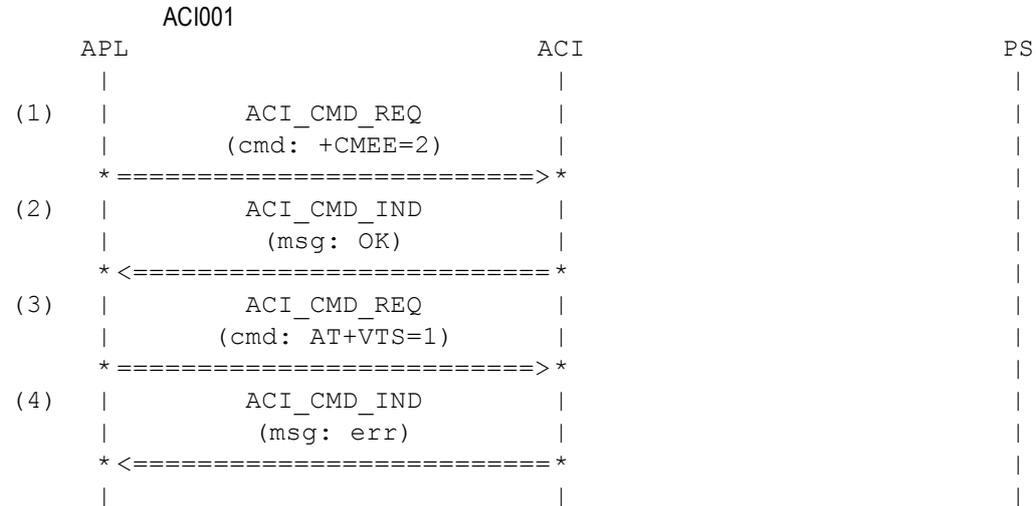
History: 10.09.99 AK Initial

4.12.2 ACI161: Send DTMF

Description:

Send DTMF digits while no call is call active.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CMEE_VERB)
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_1)
	cmd_seq	C_PLUS_VTS_1
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_OPERATION)
	cmd_seq	M_ERR_OPERATION

History: 20.03.02 TLU Initial

4.12.3 ACI162: Send DTMF: FAILS: line edit problem ????

Description:

Send DTMF digits during an active call

Preamble:

ACI050A		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+VTS=1)		
	=====>		
(2)		MNCC_START_DTMF_REQ	
		=====>	
(3)		MNCC_START_DTMF_CNF	
		<=====	
(4)	ACI_CMD_IND (msg: OK)		
	<=====		
(5)	ACI_CMD_REQ (cmd: AT+VTS=C)		
	=====>		
(6)		MNCC_START_DTMF_REQ	
		=====>	
(7)		MNCC_START_DTMF_CNF	
		<=====	
(8)	ACI_CMD_IND (msg: OK)		
	<=====		
(9)	ACI_CMD_REQ (cmd: AT+VTS=D)		
	=====>		
(10)	ACI_CMD_IND (msg: ERROR)		
	<=====		
(11)	ACI_CMD_REQ (cmd: AT+VTS=1)		
	=====>		
(12)		MNCC_START_DTMF_REQ	
		=====>	
(13)		MNCC_START_DTMF_CNF	
		<=====	
(14)	ACI_CMD_IND (msg: OK)		
	<=====		
(15)	ACI_CMD_REQ (cmd: AT+VTS=1)		
	=====>		
(16)		MNCC_START_DTMF_REQ	
		=====>	
(17)	ACI_ABORT_REQ		
	=====>		
(18)		MNCC_START_DTMF_REQ	
		=====>	
(19)		MNCC_START_DTMF_CNF	

```

| | | * <===== *
(20) | | ACI_CMD_IND | |
| | (msg: OK) | |
| | * <===== * |
(21) | | ACI_CMD_REQ | |
| | (cmd: AT+VTS=1) | |
| | * =====> * |
(22) | | | MNCC_START_DTMF_REQ | |
| | | * =====> * |
(23) | | | MNCC_START_DTMF_CNF | |
| | | * <===== * |
(24) | | ACI_CMD_IND | |
| | (msg: OK) | | |
| | * <===== * |
| | | | |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_1)
	cmd_seq	C_PLUS_VTS_1
(2) MNCC_START_DTMF_REQ	ti	NUM_0
	key	KEY_1
	dtmf_mod	DTMF_MOD_AUTO
(3) MNCC_START_DTMF_CNF	ti	NUM_0
	key	KEY_1
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_VTS_C)
	cmd_seq	C_PLUS_VTS_C
(6) MNCC_START_DTMF_REQ	ti	NUM_0
	key	KEY_C
	dtmf_mod	DTMF_MOD_AUTO
(7) MNCC_START_DTMF_CNF	ti	NUM_0
	key	KEY_C
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(8) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(9) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_VTS_D) C_PLUS_VTS_D
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERROR) M_ERROR
(11) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_VTS_1) C_PLUS_VTS_1
(12) MNCC_START_DTMF_REQ	ti key dtmf_mod	NUM_0 KEY_1 DTMF_MOD_AUTO
(13) MNCC_START_DTMF_CNF	ti key cause dtmf_mod	NUM_0 KEY_1 MNCC_CAUSE_NO_MS_CAUSE DTMF_MOD_AUTO
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(15) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_VTS_1) C_PLUS_VTS_1
(16) MNCC_START_DTMF_REQ	ti key dtmf_mod	NUM_0 KEY_1 DTMF_MOD_AUTO
(17) ACI_ABORT_REQ	cmd_src cause	CMD_SRC_EXT ABT_ABORT_CMD
(18) MNCC_START_DTMF_REQ	ti key dtmf_mod	NUM_0 KEY_1 DTMF_MOD_MAN_STOP
(19) MNCC_START_DTMF_CNF	ti key cause dtmf_mod	NUM_0 KEY_1 MNCC_CAUSE_NO_MS_CAUSE DTMF_MOD_MAN_STOP
(20) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(21) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_VTS_2) C_PLUS_VTS_2

(22) MNCC_START_DTMF_REQ	ti key dtmf_mod	NUM_0 KEY_2 DTMF_MOD_AUTO
(23) MNCC_START_DTMF_CNF	ti key cause dtmf_mod	NUM_0 KEY_2 MNCC_CAUSE_NO_MS_CAUSE DTMF_MOD_AUTO
(24) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 12-11-02 BRZ correction for DTMF C
 04-10-02 BRZ Initial

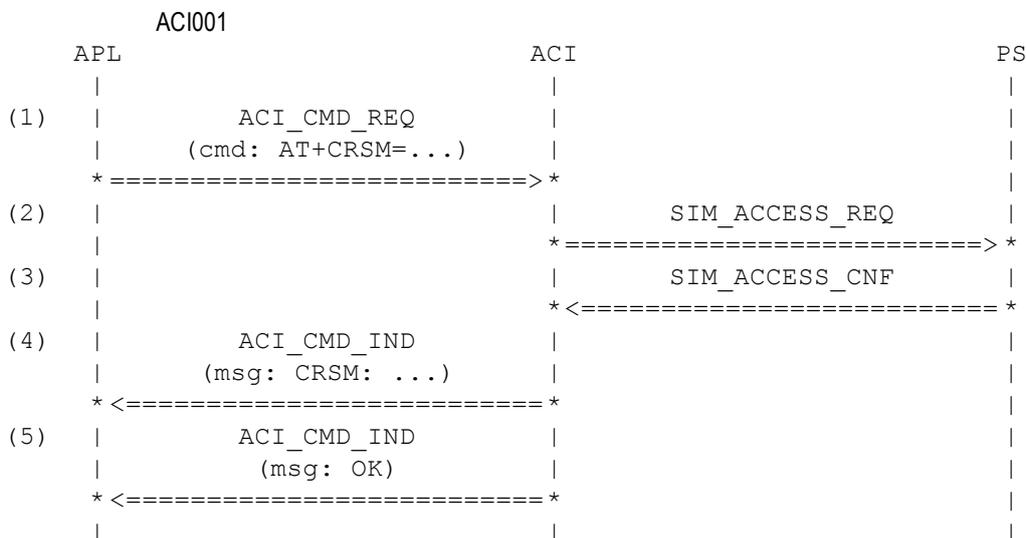
4.13 SIM data access (ACI170-ACI179)

4.13.1 ACI170: Successful access of a SIM data field

Description:

Access of the SIM data field Efccc. Data received from the SIM is passed to the caller.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CRSM_EFccc) cmd_seq	CMD_SRC_EXT C_PLUS_CRSM_EFccc

(2) SIM_ACCESS_REQ	source	SRC_MMI
	sim_command	SIM_READ_BINARY
	datafield	SIM_ECC
	p1	NUM_0
	p2	NUM_0
	p3	NUM_12
	trans_data	NOT_USED
(3) SIM_ACCESS_CNF	cause	SIM_NO_ERROR
	sw1	NUM_90
	sw2	NUM_0
	length	NUM_12
	trans_data	A_ECC_FIELD
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CRSM_EFecc)
	cmd_seq	M_PLUS_CRSM_EFecc
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 11.01.00 AK Initial

4.13.2 ACI171: Successful access of a SIM data record

Description:

Access of the SIM data record of EFadn. Data received from the SIM is passed to the caller.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CRSM=...)		
	=====>		
(2)		SIM_ACCESS_REQ	
		=====>	
(3)		SIM_ACCESS_CNF	
		<=====	
(4)	ACI_CMD_IND		
	(msg: CRSM: ...)		
	<=====		
(5)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_PLUS_CRSM_EFAdn)
	cmd_seq	C_PLUS_CRSM_EFAdn
(2) SIM_ACCESS_REQ	source	SRC_MMI
	sim_command	SIM_READ_RECORD
	datafield	SIM_ADN
	p1	NUM_1
	p2	NUM_5
	p3	NUM_20
	trans_data	NOT_USED
(3) SIM_ACCESS_CNF	cause	SIM_NO_ERROR
	sw1	NUM_90
	sw2	NUM_0
	length	NUM_20
	trans_data	A_ADN_REC
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CRSM_EFAdn)
	cmd_seq	M_PLUS_CRSM_EFAdn
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 11.01.00 AK Initial

4.13.3 ACI172: Successful write of a SIM data field

Description:

Write to the SIM data field of EFacn. Data is written to the SIM.

Preamble:

	ACI001		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: AT+CRSM=...)		
	=====>		
(2)		SIM_ACCESS_REQ	
		=====>	
(3)		SIM_ACCESS_CNF	
		<=====	
(4)			
	ACI_CMD_IND		
	(msg: CRSM: ...)		
	<=====		
(5)			
	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CRSM_EFsms)	
	cmd_seq	C_PLUS_CRSM_EFsms
(2) SIM_ACCESS_REQ	source	SRC_MMI
	sim_command	SIM_UPDATE_RECORD
	datafield	SIM_SMS
	p1	NUM_1
	p2	NUM_5
	p3	NUM_10
	trans_data	A_SMS_REC
(3) SIM_ACCESS_CNF	cause	SIM_NO_ERROR
	sw1	NUM_90
	sw2	NUM_0
	length	NOT_USED
	trans_data	NOT_USED
(4) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CRSM_EFsms)	
	cmd_seq	M_PLUS_CRSM_EFsms
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
History:	11.01.00 AK	Initial

4.13.5 ACI174: Unsuccessful access to SIM data

Description:

An access to the SIM is unsuccessful. An error code is returned.

Preamble:

ACI001

Variants: <A>....<D>

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CMEE=2) * =====> *	 	
(2) ACI_CMD_IND (msg: OK) * <===== *	 	
(3) ACI_CMD_REQ (cmd: AT+CRSM=...) * =====> *	 	
(4) 	 SIM_ACCESS_REQ * =====> *	
(5) 	 SIM_ACCESS_CNF * <===== *	
(6) ACI_CMD_IND (msg: CRSM: ...) * <===== *	 	
(6) ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CMEE_VERB)
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CRSM_EFsms)
	cmd_seq	C_PLUS_CRSM_EFsms
(4) SIM_ACCESS_REQ	source	SRC_MMI
	sim_command	SIM_UPDATE_RECORD
	datafield	SIM_SMS
	p1	NUM_1
	p2	NUM_5
	p3	NUM_10
	trans_data	A_SMS_REC
(5) SIM_ACCESS_CNF	<A>	SIM_CAUSE_PIN1_EXPECT
		SIM_CAUSE_CARD_REMOVED
	<C>	SIM_CAUSE_PUK1_EXPECT
	<D>	SIM_CAUSE_DRV_CARDREJ
	<A>	NUM_98

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CRSM_GetRes) cmd_seq	CMD_SRC_EXT C_PLUS_CRSM_GetRes
(2) SIM_ACCESS_REQ	source sim_command datafield p1 p2 p3 trans_data	SRC_MMI SIM_GET_RESPONSE SIM_FDN NOT_PRESENT_8BIT NOT_PRESENT_8BIT NUM_0 NOT_USED
(3) SIM_ACCESS_CNF	cause sw1 sw2 length trans_data	SIM_NO_ERROR NUM_90 NUM_0 NUM_10 A_RESP_DATA
(4) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CRSM_GetRes) cmd_seq	M_PLUS_CRSM_GetRes
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 11.01.00 AK Initial

4.13.7 ACI176: Get status from SIM

Description:

Get SIM status.

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CRSM=...) * =====> *		
(2)		SIM_ACCESS_REQ * =====> *	
(3)		SIM_ACCESS_CNF * <===== *	
(4)	ACI_CMD_IND (msg: CRSM: ...) * <===== *		
(5)	ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

Primitive	Parameter	Value	
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT	
	cmd_len		
	NUM_ELEMENTS(C_PLUS_CRSM_Stat)		
	cmd_seq	C_PLUS_CRSM_Stat	
(2) SIM_ACCESS_REQ	source	SRC_MMI	
	sim_command	SIM_STATUS	
	datafield	NOT_PRESENT_16BIT	
	p1	NOT_PRESENT_8BIT	
	p2	NOT_PRESENT_8BIT	
	p3	NUM_0	
	trans_data	NOT_USED	
(3) SIM_ACCESS_CNF	cause	SIM_NO_ERROR	
	sw1	NUM_92	
	sw2	NUM_90	
	length	NUM_0	
	trans_data	NOT_USED	
(4) ACI_CMD_IND	cmd_len		
	NUM_ELEMENTS(M_PLUS_CRSM_Stat)		
	cmd_seq	M_PLUS_CRSM_Stat	
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)	
	cmd_seq	M_OK	
History:	11.01.00	AK	Initial

4.14 Preferred PLMN list management (ACI180-ACI199)

4.14.1 ACI180: Read Preferred PLMN list

Description:

Preamble:

ACI001

Variants: <A>...<C>

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	
(3)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(4)		SIM_READ_REQ
		=====>
(5)		SIM_READ_CNF
		<=====
(6)	ACI_CMD_IND (msg: +CPOL: PLMN1)	
	<=====	
(7)	ACI_CMD_IND (msg: +CPOL: PLMN2)	
	<=====	
(8)	ACI_CMD_IND (msg: +CPOL: PLMN3)	
	<=====	
(9)	ACI_CMD_IND (msg: +CPOL: PLMN4)	
	<=====	
(10)	ACI_CMD_IND (msg: +CPOL: PLMN5)	
	<=====	
(11)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG)
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_SHRT)
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_NUM)
<A>	cmd_seq	C_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_SHRT
<C>	cmd_seq	C_PLUS_CPOL_FRMT_NUM
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_DEC_90
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_LNG)
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_SHRT)
<C>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_NUM)
<A>	cmd_seq	M_PLUS_CPOL_PLMN1_LNG
	cmd_seq	M_PLUS_CPOL_PLMN1_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(7) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_LNG)
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_SHRT)
<C>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_NUM)
<A>	cmd_seq	M_PLUS_CPOL_PLMN2_LNG
	cmd_seq	M_PLUS_CPOL_PLMN2_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(8) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_LNG)
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_SHRT)
<C>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_NUM)
<A>	cmd_seq	M_PLUS_CPOL_PLMN3_LNG
	cmd_seq	M_PLUS_CPOL_PLMN3_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(9) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_LNG)
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_SHRT)
<C>	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_NUM)
<A>	cmd_seq	M_PLUS_CPOL_PLMN4_LNG
	cmd_seq	M_PLUS_CPOL_PLMN4_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN4_NUM

(10) ACI_CMD_IND		
<A>	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_LNG)	
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_SHRT)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_NUM)	
<A>	cmd_seq	M_PLUS_CPOL_PLMN5_LNG
	cmd_seq	M_PLUS_CPOL_PLMN5_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(11) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 07.10.99 AK Initial

4.14.2 ACI181: Delete Entry in Preferred PLMN list, list already read

Description:

Preamble:

ACI180A

	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN2_LNG
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN3_LNG
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN4_LNG
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN5_LNG
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.14.3 ACI182: Delete Entry in Preferred PLMN list, read list first

Description:

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CPOL) *=====>*		
(2)	SIM_READ_REQ *=====>*	
(3)	SIM_READ_CNF *<=====*	
(4)	SIM_UPDATE_REQ *=====>*	
(5)	SIM_UPDATE_CNF *<=====*	
(6) ACI_CMD_IND (msg: OK) *<=====*		
(7) ACI_CMD_REQ (cmd: AT+CPOL) *=====>*		
(8) ACI_CMD_IND (msg: +CPOL: PLMN2) *<=====*		
(9) ACI_CMD_IND (msg: +CPOL: PLMN3) *<=====*		
(10) ACI_CMD_IND (msg: +CPOL: PLMN4) *<=====*		
(11) ACI_CMD_IND (msg: +CPOL: PLMN5) *<=====*		
(12) ACI_CMD_IND (msg: OK) *<=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_DEL_2)
	cmd_seq	C_PLUS_CPOL_DEL_2
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_DEC_90
(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL

(4) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_DEL
(5) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_NUM)
	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_NUM)
	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_NUM)
	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(11) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_NUM)
	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(12) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.14.4 ACI183: Write Entry in Preferred PLMN list, list already read

Description:

Preamble:

ACI180A

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(6) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_LNG) cmd_seq	M_PLUS_CPOL_PLMN1_LNG
(7) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_LNG) cmd_seq	M_PLUS_CPOL_PLMN2_LNG
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_OVR_LNG) cmd_seq	M_PLUS_CPOL_PLMN_OVR_LNG
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_LNG) cmd_seq	M_PLUS_CPOL_PLMN4_LNG
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_LNG) cmd_seq	M_PLUS_CPOL_PLMN5_LNG
(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.10.99 AK Initial

4.14.5 ACI184: Write Entry in Preferred PLMN list, read list first

Description:

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CPOL)		
=====>		
(2)	SIM_READ_REQ	
	=====>	
(3)	SIM_READ_CNF	
	<=====	
(4)	SIM_UPDATE_REQ	
	=====>	
(5)	SIM_UPDATE_CNF	
	<=====	
(6) ACI_CMD_IND (msg: OK)		
<=====		
(7) ACI_CMD_REQ (cmd: AT+CPOL)		
=====>		
(8) ACI_CMD_IND (msg: +CPOL: PLMN1)		
<=====		
(9) ACI_CMD_IND (msg: +CPOL: PLMN2)		
<=====		
(10) ACI_CMD_IND (msg: +CPOL: PLMN_OVR)		
<=====		
(11) ACI_CMD_IND (msg: +CPOL: PLMN4)		
<=====		
(12) ACI_CMD_IND (msg: +CPOL: PLMN5)		
<=====		
(13) ACI_CMD_IND (msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_OVR_3)
	cmd_seq	C_PLUS_CPOL_OVR_3
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_DEC_90

(3) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(4) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_OVR
(5) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(7) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_NUM) cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_NUM) cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_OVR_NUM) cmd_seq	M_PLUS_CPOL_PLMN_OVR_NUM
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_NUM) cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_NUM) cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

	NUM_ELEMENTS(C_PLUS_CPOL_NEW_3)	
	cmd_seq	C_PLUS_CPOL_NEW_3
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN_NEW_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN_NEW_LNG
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN1_LNG
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN2_LNG
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN3_LNG
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN4_LNG
(11) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_LNG)
	cmd_seq	M_PLUS_CPOL_PLMN5_LNG
(12) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_NEW_3) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_NEW_3
(2) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_PLMNSEL NOT_PRESENT_8BIT NUM_DEC_90
(3) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(4) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_NEW
(5) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(7) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_NEW_NUM) cmd_seq	M_PLUS_CPOL_PLMN_NEW_NUM
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_NUM) cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_NUM) cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_NUM) cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_NUM) cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(13) ACI_CMD_IND	cmd_len	

			NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_NUM)
		cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(14) ACI_CMD_IND			
		cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK
History:	08.10.99	AK	Initial

4.14.8 ACI187: Test Number of Entries of Preferred PLMN list, list already read

Description:

Preamble:

ACI180A

	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: AT+CPOL)		
	=====>		
(2)	ACI_CMD_IND		
	(msg: +CPOL:)		
	<=====		
(3)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

	Primitive	Parameter	Value
(1) ACI_CMD_REQ		cmd_src	CMD_SRC_EXT
		cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_T)
		cmd_seq	C_PLUS_CPOL_T
(2) ACI_CMD_IND		cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_T)
		cmd_seq	M_PLUS_CPOL_T
(3) ACI_CMD_IND		cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK

History: 08.10.99 AK Initial

4.14.9 ACI188: Test Number of Entries of Preferred PLMN list, read list first

Description:

Preamble:

ACI001

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CPOL) * =====> *	 	
(2)	 ACI_CMD_IND (msg: OK) * <===== *	 	
COMMAND (MMI CONFIG CPOL_MODE=0)			
(3)	 ACI_CMD_REQ (cmd: AT+CPOL) * =====> *	 	
(4)	 	 SIM_READ_REQ * =====> *	
(5)	 	 SIM_READ_CNF * <===== *	
(6)	 ACI_CMD_IND (msg: +CPOL: PLMN1) * <===== *	 	
(7)	 ACI_CMD_IND (msg: +CPOL: PLMN2) * <===== *	 	
(8)	 ACI_CMD_IND (msg: +CPOL: PLMN3) * <===== *	 	
(9)	 ACI_CMD_IND (msg: +CPOL: PLMN4) * <===== *	 	
(10)	 ACI_CMD_IND (msg: +CPOL: PLMN5) * <===== *	 	
(11)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG)
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0

	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_DEC_90
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(7) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN5_CMP
(11) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 07.10.99 AK Initial

4.14.11 ACI190: Delete Entry in Preferred PLMN list, list already read compact mode

Description:

Preamble:

ACI189

	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_DLT)
	cmd_seq	M_PLUS_CPOL_PLMN2_DLT
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_DLT)
	cmd_seq	M_PLUS_CPOL_PLMN3_DLT
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_DLT)
	cmd_seq	M_PLUS_CPOL_PLMN4_DLT
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_DLT)
	cmd_seq	M_PLUS_CPOL_PLMN5_DLT
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.14.12 ACI191: Delete Entry in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	
COMMAND (MMI CONFIG CPOL_MODE=0)		
(3)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(4)		SIM_READ_REQ
		=====>
(5)		SIM_READ_CNF
		<=====
(6)		SIM_UPDATE_REQ
		=====>
(7)		SIM_UPDATE_CNF
		<=====
(8)	ACI_CMD_IND (msg: OK)	
	<=====	
(9)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(10)	ACI_CMD_IND (msg: +CPOL: PLMN2)	
	<=====	
(11)	ACI_CMD_IND (msg: +CPOL: PLMN3)	
	<=====	
(12)	ACI_CMD_IND (msg: +CPOL: PLMN4)	
	<=====	
(13)	ACI_CMD_IND (msg: +CPOL: PLMN5)	
	<=====	
(14)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG)
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_DEL_1) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_DEL_1
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_PLMNSEL NOT_PRESENT_8BIT NUM_DEC_90
(5) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_DEL_CMP
(7) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(9) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_DLT) cmd_seq	M_PLUS_CPOL_PLMN2_DLT
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_DLT) cmd_seq	M_PLUS_CPOL_PLMN3_DLT
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_DLT) cmd_seq	M_PLUS_CPOL_PLMN4_DLT
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_DLT) cmd_seq	M_PLUS_CPOL_PLMN5_DLT
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.10.99 AK Initial

4.14.13 ACI192: Insert Entry in Preferred PLMN list, list already read compact mode

Description:

Preamble:

ACI189

APL	ACI	PS
COMMAND (MMI CONFIG CPOL_MODE=1)		
(1) ACI_CMD_REQ		
(cmd: AT+CPOL)		
=====>		
(2)	SIM_UPDATE_REQ	
	=====>	
(3)	SIM_UPDATE_CNF	
	<=====	
(4) ACI_CMD_IND		
(msg: OK)		
<=====		
COMMAND (MMI CONFIG CPOL_MODE=0)		
(5) ACI_CMD_REQ		
(cmd: AT+CPOL)		
=====>		
(6) ACI_CMD_IND		
(msg: +CPOL: PLMN1)		
<=====		
(7) ACI_CMD_IND		
(msg: +CPOL: PLMN2)		
<=====		
(7) ACI_CMD_IND		
(msg: +CPOL: PLMN INS)		
<=====		
(9) ACI_CMD_IND		
(msg: +CPOL: PLMN3)		
<=====		
(10) ACI_CMD_IND		
(msg: +CPOL: PLMN4)		
<=====		
(11) ACI_CMD_IND		
(msg: +CPOL: PLMN5)		
<=====		
(12) ACI_CMD_IND		
(msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_INS_3) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_INS_3
(2) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_INS_CMP
(3) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(6) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CMP) cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(7) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP) cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_INS_LNG) cmd_seq	M_PLUS_CPOL_PLMN_INS_LNG
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_INS) cmd_seq	M_PLUS_CPOL_PLMN3_INS
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_INS) cmd_seq	M_PLUS_CPOL_PLMN4_INS
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_INS) cmd_seq	M_PLUS_CPOL_PLMN5_INS
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.10.99 AK Initial

4.14.14 ACI193: Insert Entry in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	
COMMAND (MMI CONFIG CPOL_MODE=1)		
(3)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(4)		SIM_READ_REQ
		=====>
(5)		SIM_READ_CNF
		<=====
(6)		SIM_UPDATE_REQ
		=====>
(7)		SIM_UPDATE_CNF
		<=====
(8)	ACI_CMD_IND (msg: OK)	
	<=====	
COMMAND (MMI CONFIG CPOL_MODE=0)		
(9)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(10)	ACI_CMD_IND (msg: +CPOL: PLMN1)	
	<=====	
(11)	ACI_CMD_IND (msg: +CPOL: PLMN2)	
	<=====	
(12)	ACI_CMD_IND (msg: +CPOL: PLMN INS)	
	<=====	
(13)	ACI_CMD_IND (msg: +CPOL: PLMN3)	
	<=====	
(14)	ACI_CMD_IND (msg: +CPOL: PLMN4)	
	<=====	
(15)	ACI_CMD_IND (msg: +CPOL: PLMN5)	
	<=====	
(16)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_INS_3) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_INS_3
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_PLMNSEL NOT_PRESENT_8BIT NUM_DEC_90
(5) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_INS_CMP
(7) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(9) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CMP) cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP) cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_INS_LNG) cmd_seq	M_PLUS_CPOL_PLMN_INS_LNG
(13) ACI_CMD_IND	cmd_len	

		NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_INS)	
	cmd_seq		M_PLUS_CPOL_PLMN3_INS
(14) ACI_CMD_IND		cmd_len	
		NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_INS)	
	cmd_seq		M_PLUS_CPOL_PLMN4_INS
(15) ACI_CMD_IND		cmd_len	
		NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_INS)	
	cmd_seq		M_PLUS_CPOL_PLMN5_INS
(16) ACI_CMD_IND		cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq		M_OK

History: 08.10.99 AK Initial

4.14.15 ACI194: Append Entry to Preferred PLMN list, list already read compact mode

Description:

Preamble:

ACI189

APL	ACI	PS
COMMAND (MMI CONFIG CPOL_MODE=0)		
(1) ACI_CMD_REQ		
(cmd: AT+CPOL)		
*=====> *		
(2)	SIM_UPDATE_REQ	
	*=====> *	
(3)	SIM_UPDATE_CNF	
	*<===== *	
(4) ACI_CMD_IND		
(msg: OK)		
*<===== *		
(5) ACI_CMD_REQ		
(cmd: AT+CPOL)		
*=====> *		
(6) ACI_CMD_IND		
(msg: +CPOL: PLMN1)		
*<===== *		
(7) ACI_CMD_IND		
(msg: +CPOL: PLMN2)		
*<===== *		
(8) ACI_CMD_IND		
(msg: +CPOL: PLMN3)		
*<===== *		
(9) ACI_CMD_IND		
(msg: +CPOL: PLMN4)		
*<===== *		
(10) ACI_CMD_IND		
(msg: +CPOL: PLMN5)		
*<===== *		
(11) ACI_CMD_IND		
(msg: +CPOL: PLMN APP)		
*<===== *		
(12) ACI_CMD_IND		
(msg: OK)		
*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_NEW_3)
	cmd_seq	C_PLUS_CPOL_NEW_3
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW_CMP

(3) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CMP) M_PLUS_CPOL_PLMN1_CMP
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP) M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_CMP) M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_CMP) M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_CMP) M_PLUS_CPOL_PLMN5_CMP
(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CPOL_PLMN_NEW_CMP) M_PLUS_CPOL_PLMN_NEW_CMP
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.10.99 AK Initial

4.14.16 ACI195: Append Entry to Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	
COMMAND (MMI CONFIG CPOL_MODE=0)		
(3)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(4)		SIM_READ_REQ
		=====>
(5)		SIM_READ_CNF
		<=====
(6)		SIM_UPDATE_REQ
		=====>
(7)		SIM_UPDATE_CNF
		<=====
(8)	ACI_CMD_IND (msg: OK)	
	<=====	
(9)	ACI_CMD_REQ (cmd: AT+CPOL)	
	=====>	
(10)	ACI_CMD_IND (msg: +CPOL: PLMN1)	
	<=====	
(11)	ACI_CMD_IND (msg: +CPOL: PLMN2)	
	<=====	
(12)	ACI_CMD_IND (msg: +CPOL: PLMN3)	
	<=====	
(13)	ACI_CMD_IND (msg: +CPOL: PLMN4)	
	<=====	
(14)	ACI_CMD_IND (msg: +CPOL: PLMN5)	
	<=====	
(15)	ACI_CMD_IND (msg: +CPOL: PLMN APP)	
	<=====	
(16)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG)	
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_NEW_3) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_NEW_3
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_PLMNSEL NOT_PRESENT_8BIT NUM_DEC_90
(5) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_NEW_CMP
(7) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(9) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CMP) cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP) cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_CMP) cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_CMP) cmd_seq	M_PLUS_CPOL_PLMN4_CMP

(14) ACI_CMD_IND

cmd_len
NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_CMP)
cmd_seq M_PLUS_CPOL_PLMN5_CMP

(15) ACI_CMD_IND

cmd_len
NUM_ELEMENTS(M_PLUS_CPOL_PLMN_NEW_CMP)
cmd_seq M_PLUS_CPOL_PLMN_NEW_CMP

(16) ACI_CMD_IND

cmd_len NUM_ELEMENTS(M_OK)
cmd_seq M_OK

History: 08.10.99 AK Initial

4.14.17 ACI196: Change Entries of Preferred PLMN list, list already read compact mode

Description:

Preamble:

ACI189

APL	ACI	PS
COMMAND (MMI CONFIG CPOL_MODE=0)		
COMMAND (MMI CONFIG CPOL_IDX2=5)		
(1) ACI_CMD_REQ		
(cmd: AT+CPOL)		
*=====> *		
(2)	SIM_UPDATE_REQ	
	*=====> *	
(3)	SIM_UPDATE_CNF	
	*<===== *	
(4) ACI_CMD_IND		
(msg: OK)		
*<===== *		
(5) ACI_CMD_REQ		
(cmd: AT+CPOL)		
*=====> *		
(6) ACI_CMD_IND		
(msg: +CPOL: PLMN5 CHG)		
*<===== *		
(7) ACI_CMD_IND		
(msg: +CPOL: PLMN2)		
*<===== *		
(8) ACI_CMD_IND		
(msg: +CPOL: PLMN3)		
*<===== *		
(9) ACI_CMD_IND		
(msg: +CPOL: PLMN4)		
*<===== *		
(10) ACI_CMD_IND		
(msg: +CPOL: PLMN1 CHG)		
*<===== *		
(11) ACI_CMD_IND		
(msg: OK)		
*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPOL_CHG)	
	cmd_seq	C_PLUS_CPOL_CHG
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_CHG_CMP
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(6) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_CHG) cmd_seq	M_PLUS_CPOL_PLMN5_CHG
(7) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP) cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_CMP) cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_CMP) cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CHG) cmd_seq	M_PLUS_CPOL_PLMN1_CHG
(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.10.99 AK Initial

4.14.18 ACI197: Change Entries of Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CPOL)	
=====>		
(2)	ACI_CMD_IND (msg: OK)	
<=====		
COMMAND (MMI CONFIG CPOL_MODE=0)		
COMMAND (MMI CONFIG CPOL_IDX2=5)		
(3)	ACI_CMD_REQ (cmd: AT+CPOL)	
=====>		
(4)		SIM_READ_REQ
=====>		
(5)		SIM_READ_CNF
<=====		
(6)		SIM_UPDATE_REQ
=====>		
(7)		SIM_UPDATE_CNF
<=====		
(8)	ACI_CMD_IND (msg: OK)	
<=====		
(9)	ACI_CMD_REQ (cmd: AT+CPOL)	
=====>		
(10)	ACI_CMD_IND (msg: +CPOL: PLMN5 CHG)	
<=====		
(11)	ACI_CMD_IND (msg: +CPOL: PLMN2)	
<=====		
(12)	ACI_CMD_IND (msg: +CPOL: PLMN3)	
<=====		
(13)	ACI_CMD_IND (msg: +CPOL: PLMN4)	
<=====		
(14)	ACI_CMD_IND (msg: +CPOL: PLMN1 CHG)	
<=====		
(15)	ACI_CMD_IND (msg: OK)	
<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

	NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG)	
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPOL_CHG)	
	cmd_seq	C_PLUS_CPOL_CHG
(4) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_DEC_90
(5) SIM_READ_CNF		
	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_CHG_CMP
(7) SIM_UPDATE_CNF		
	datafield	SIM_PLMNSEL
	cause	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPOL_Q)
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_CHG)	
	cmd_seq	M_PLUS_CPOL_PLMN5_CHG
(11) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(13) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_CMP)	
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP

(14) ACI_CMD_IND

cmd_len	
NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_CHG)	
cmd_seq	M_PLUS_CPOL_PLMN1_CHG

(15) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

History: 08.10.99 AK Initial

4.14.19 ACI198: Insert Entry at first position in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACI001

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_FRMT_LONG) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPOL_INS_1) cmd_seq	CMD_SRC_EXT C_PLUS_CPOL_INS_1
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_PLMNSEL NOT_PRESENT_8BIT NUM_DEC_90
(5) SIM_READ_CNF	datafield cause length trans_data	SIM_PLMNSEL SIM_NO_ERROR NUM_27 A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source offset datafield length trans_data	SRC_MMI NUM_0 SIM_PLMNSEL NUM_27 A_EF_PLMNSEL_INS_1_CMP
(7) SIM_UPDATE_CNF	datafield cause	SIM_PLMNSEL SIM_NO_ERROR
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(9) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPOL_Q) C_PLUS_CPOL_Q
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN_INS_1_LNG) cmd_seq	M_PLUS_CPOL_PLMN_INS_1_LNG
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN1_INS) cmd_seq	M_PLUS_CPOL_PLMN1_INS
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CPOL_PLMN2_INS) cmd_seq	M_PLUS_CPOL_PLMN2_INS
(13) ACI_CMD_IND	cmd_len	

	NUM_ELEMENTS(M_PLUS_CPOL_PLMN3_INS)	
	cmd_seq	M_PLUS_CPOL_PLMN3_INS
(14) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN4_INS)	
	cmd_seq	M_PLUS_CPOL_PLMN4_INS
(15) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_CPOL_PLMN5_INS)	
	cmd_seq	M_PLUS_CPOL_PLMN5_INS
(16) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.15 Emergency (ACI200-ACI209)

4.15.1 ACI200: Emergency Call

Description:

Mobile originated emergency call establishment

Preamble:

ACI001		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)		
	=====>		
(2)	ACI_CMD_IND (msg: OK)		
	<=====		
(3)	ACI_CMD_REQ (cmd: AT+COLP=1)		
	=====>		
(4)	ACI_CMD_IND (msg: OK)		
	<=====		
(5)	ACI_CMD_REQ (cmd: ATD112;)		
	=====>		
(6)		MNCC_SETUP_REQ	
		=====>	
(7)		SIM_SYNC_REQ	
		=====>	
(8)		MNCC_CALL_PROCEED_IND	
		<=====	
(9)		MNCC_PROGRESS_IND	
		<=====	
(10)		MNCC_ALERT_IND	
		<=====	
(11)		MNCC_SYNC_IND	
		<=====	
(12)		MNCC_SETUP_CNF	
		<=====	
(13)	ACI_CMD_IND (msg: +COLP:...)		
	<=====		
(14)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) C_D_EMERG112
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_EMERG_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti cause	NUM_0 MNCC_CAUSE_SUCCESS

	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_EMERG112
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)	
	cmd_seq	M_PLUS_COLP_EMERG112
(14) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
History:	18.01.00	AK
		Initial

4.15.2 ACI201: Emergency Call with FDN enabled

Description:

Mobile originated emergency call establishment while FDN is enabled.

Preamble:

ACI141

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLIR=2) * =====> *		
(2) ACI_CMD_IND (msg: OK) * <===== *		
(3) ACI_CMD_REQ (cmd: AT+COLP=1) * =====> *		
(4) ACI_CMD_IND (msg: OK) * <===== *		
(5) ACI_CMD_REQ (cmd: ATD112;) * =====> *		
(6)	MNCC_SETUP_REQ * =====> *	
(7)	SIM_SYNC_REQ * =====> *	
(8)	MNCC_CALL_PROCEED_IND * <===== *	
(9)	MNCC_PROGRESS_IND * <===== *	
(10)	MNCC_ALERT_IND * <===== *	
(11)	MNCC_SYNC_IND * <===== *	
(12)	MNCC_SETUP_CNF * <===== *	
(13) ACI_CMD_IND (msg: +COLP:...) * <===== *		
(14) ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) C_D_EMERG112
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_EMERG_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_0 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT S_CLG_EMERG112 S_CLG_EMERG_SUB
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_COLP_EMERG112) M_PLUS_COLP_EMERG112
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 18.01.00 AK Initial

4.15.3 ACI202: Emergency Call (Test all ME emergency call numbers, SIM ok)

Description: Mobile originated emergency call establishment

Preamble: ACI030

Variants: <A>...<H>

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)	
(2)	ACI_CMD_IND (msg: OK)	
(3)	ACI_CMD_REQ (cmd: AT+COLP=1)	
(4)	ACI_CMD_IND (msg: OK)	
(5)	ACI_CMD_REQ (cmd: ATDxxx;)	
(6)		MNCC_SETUP_REQ
(7)		SIM_SYNC_REQ
(8)		MNCC_CALL_PROCEED_IND
(9)		MNCC_PROGRESS_IND
(10)		MNCC_ALERT_IND
(11)		MNCC_SYNC_IND
(12)		MNCC_SETUP_CNF
(13)	ACI_CMD_IND (msg: +COLP:...)	
(14)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) NUM_ELEMENTS(C_D_EMERG000) NUM_ELEMENTS(C_D_EMERG08) NUM_ELEMENTS(C_D_EMERG110) NUM_ELEMENTS(C_D_EMERG118) NUM_ELEMENTS(C_D_EMERG119) NUM_ELEMENTS(C_D_EMERG911) NUM_ELEMENTS(C_D_EMERG999) C_D_EMERG112 C_D_EMERG000 C_D_EMERG08 C_D_EMERG110 C_D_EMERG118 C_D_EMERG119 C_D_EMERG911 C_D_EMERG999
(6) MNCC_SETUP_REQ	ti prio prio prio prio prio prio prio prio ri bcpara bcpara2 called_party called_party called_party called_party called_party called_party	NUM_0 PRIO_EMERG_CALL PRIO_EMERG_CALL PRIO_EMERG_CALL PRIO_EMERG_CALL PRIO_NORM_CALL PRIO_NORM_CALL PRIO_EMERG_CALL PRIO_EMERG_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG000 S_CLD_EMERG08 S_CLD_EMERG110 S_CLD_EMERG118 S_CLD_EMERG119

<G>	called_party	S_CLD_EMERG911
<H>	called_party	S_CLD_EMERG999
	called_party_sub	S_CLD_EMERG_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG08
<D>	connected_number	S_CLG_EMERG110
<E>	connected_number	S_CLG_EMERG118
<F>	connected_number	S_CLG_EMERG119
<G>	connected_number	S_CLG_EMERG911
<H>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND	cmd_len	
<A>	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)	
	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG000)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG08)	
<D>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG110)	
<E>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG118)	
<F>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG119)	
<G>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG911)	
<H>	cmd_len	

	NUM_ELEMENTS(M_PLUS_COLP_EMERG999)	
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_EMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG08
<D>	cmd_seq	M_PLUS_COLP_EMERG110
<E>	cmd_seq	M_PLUS_COLP_EMERG118
<F>	cmd_seq	M_PLUS_COLP_EMERG119
<G>	cmd_seq	M_PLUS_COLP_EMERG911
<H>	cmd_seq	M_PLUS_COLP_EMERG999

(14) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

History: 12.12.01 KGT Initial

4.15.4 ACI203: Emergency Call (Test all ME emergency call numbers, no SIM)

Description:

Mobile originated emergency call establishment

Preamble:

ACI021

Variants:

<A>....<H>

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLIR=2) *=====>*	 	
(2) ACI_CMD_IND (msg: OK) *<=====*	 	
(3) ACI_CMD_REQ (cmd: AT+COLP=1) *=====>*	 	
(4) ACI_CMD_IND (msg: OK) *<=====*	 	
(5) ACI_CMD_REQ (cmd: ATDxxx;) *=====>*	 	
(6) 	MNCC_SETUP_REQ *=====>*	
(7) 	SIM_SYNC_REQ *=====>*	
(8) 	MNCC_CALL_PROCEED_IND *<=====*	
(9) 	MNCC_PROGRESS_IND *<=====*	
(10) 	MNCC_ALERT_IND *<=====*	
(11) 	MNCC_SYNC_IND *<=====*	
(12) 	MNCC_SETUP_CNF *<=====*	
(13) ACI_CMD_IND (msg: +COLP:...) *<=====*	 	
(14) ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) NUM_ELEMENTS(C_D_EMERG000) NUM_ELEMENTS(C_D_EMERG08) NUM_ELEMENTS(C_D_EMERG110) NUM_ELEMENTS(C_D_EMERG118) NUM_ELEMENTS(C_D_EMERG119) NUM_ELEMENTS(C_D_EMERG911) NUM_ELEMENTS(C_D_EMERG999) C_D_EMERG112 C_D_EMERG000 C_D_EMERG08 C_D_EMERG110 C_D_EMERG118 C_D_EMERG119 C_D_EMERG911 C_D_EMERG999
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party called_party called_party called_party called_party called_party called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_EMERG_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG000 S_CLD_EMERG08 S_CLD_EMERG110 S_CLD_EMERG118 S_CLD_EMERG119 S_CLD_EMERG911 S_CLD_EMERG999 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT

(11) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_CHANNEL_SYNC
chm	S_CHN_SPEECH

(12) MNCC_SETUP_CNF

	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG08
<D>	connected_number	S_CLG_EMERG110
<E>	connected_number	S_CLG_EMERG118
<F>	connected_number	S_CLG_EMERG119
<G>	connected_number	S_CLG_EMERG911
<H>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB

(13) ACI_CMD_IND

<A>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)	
	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG000)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG08)	
<D>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG110)	
<E>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG118)	
<F>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG119)	
<G>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG911)	
<H>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG999)	
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_EMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG08
<D>	cmd_seq	M_PLUS_COLP_EMERG110
<E>	cmd_seq	M_PLUS_COLP_EMERG118
<F>	cmd_seq	M_PLUS_COLP_EMERG119
<G>	cmd_seq	M_PLUS_COLP_EMERG911
<H>	cmd_seq	M_PLUS_COLP_EMERG999

(14) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

History: 12.12.01 KGT Initial

4.15.5 ACI204: Emergency Call (Test ME emergency call numbers (except 118, 119), SIM blocked)

Description:

Mobile originated emergency call establishment. (When SIM used (even if blocked) then 118 and 119 are normal calls. But normal calls will not establish, because of blocked SIM. 118 and 119 are testet in ACI214)

Preamble:

ACI022

Variants:

<A>...<F>

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATDxxx;)	
	=====>	
(6)		
	MNCC_SETUP_REQ	
	=====>	
(7)		
	SIM_SYNC_REQ	
	=====>	
(8)		
	MNCC_CALL_PROCEED_IND	
	<=====	
(9)		
	MNCC_PROGRESS_IND	
	<=====	
(10)		
	MNCC_ALERT_IND	
	<=====	
(11)		
	MNCC_SYNC_IND	
	<=====	
(12)		
	MNCC_SETUP_CNF	
	<=====	
(13)		
	ACI_CMD_IND	
	(msg: +COLP:...)	
	<=====	
(14)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) NUM_ELEMENTS(C_D_EMERG000) NUM_ELEMENTS(C_D_EMERG08) NUM_ELEMENTS(C_D_EMERG110) NUM_ELEMENTS(C_D_EMERG911) NUM_ELEMENTS(C_D_EMERG999) C_D_EMERG112 C_D_EMERG000 C_D_EMERG08 C_D_EMERG110 C_D_EMERG911 C_D_EMERG999
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 <A> called_party called_party <C> called_party <D> called_party <E> called_party <F> called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_EMERG_CALL RI_NOT_PRES S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG000 S_CLD_EMERG08 S_CLD_EMERG110 S_CLD_EMERG911 S_CLD_EMERG999 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri	NUM_0 PROG_NOT_PRES RI_NOT_PRES

	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG08
<D>	connected_number	S_CLG_EMERG110
<E>	connected_number	S_CLG_EMERG911
<F>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND		
<A>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)	
	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG000)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG08)	
<D>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG110)	
<E>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG911)	
<F>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG999)	
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_EMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG08
<D>	cmd_seq	M_PLUS_COLP_EMERG110
<E>	cmd_seq	M_PLUS_COLP_EMERG911
<F>	cmd_seq	M_PLUS_COLP_EMERG999
(14) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 12.12.01 KGT Initial

4.15.6 ACI205: Emergency Call (Test all ME emergency call numbers (except 118,119), PIN required)

Description:

Mobile originated emergency call establishment (When SIM used (even if PIN not entered yet) then 118 and 119 are normal calls. But normal calls will not establish, because of not entered PIN. 118 and 119 are testet in ACI215)

Preamble:

ACI028

Variants:

<A>...<F>

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATDxxx;)	
	=====>	
(6)		MNCC_SETUP_REQ
	=====>	
(7)		SIM_SYNC_REQ
	=====>	
(8)		MNCC_CALL_PROCEED_IND
	<=====	
(9)		MNCC_PROGRESS_IND
	<=====	
(10)		MNCC_ALERT_IND
	<=====	
(11)		MNCC_SYNC_IND
	<=====	
(12)		MNCC_SETUP_CNF
	<=====	
(13)		
	ACI_CMD_IND	
	(msg: +COLP:...)	
	<=====	
(14)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) NUM_ELEMENTS(C_D_EMERG000) NUM_ELEMENTS(C_D_EMERG08) NUM_ELEMENTS(C_D_EMERG110) NUM_ELEMENTS(C_D_EMERG911) NUM_ELEMENTS(C_D_EMERG999) C_D_EMERG112 C_D_EMERG000 C_D_EMERG08 C_D_EMERG110 C_D_EMERG911 C_D_EMERG999
(6) MNCC_SETUP_REQ	<A> <C> <D> <E> <F> <A> <C> <D> <E> <F>	ti prio prio prio prio prio prio ri bcpara bcpara2 S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG000 S_CLD_EMERG08 S_CLD_EMERG110 S_CLD_EMERG911 S_CLD_EMERG999 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL

(8) MNCC_CALL_PROCEED_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG08
<D>	connected_number	S_CLG_EMERG110
<E>	connected_number	S_CLG_EMERG911
<F>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND		
<A>	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG112)
	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG000)
<C>	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG08)
<D>	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG110)
<E>	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG911)
<F>	cmd_len	
		NUM_ELEMENTS(M_PLUS_COLP_EMERG999)
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_EMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG08
<D>	cmd_seq	M_PLUS_COLP_EMERG110
<E>	cmd_seq	M_PLUS_COLP_EMERG911
<F>	cmd_seq	M_PLUS_COLP_EMERG999
(14) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 12.12.01 KGT Initial

4.15.7 ACI206: Emergency Call (Test all ME emergency call numbers (except 08), SIM has ECC numbers)

Description:

Mobile originated emergency call establishment (08 will be treated as normal call. But 08 is USSD. 08 will be testet in ACI216):
 On SIM ECC numbers are: 112 / 999 / 123456 (??)

Preamble:

ACI024A

Variants:

<A>...<G>

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)	
(2)	ACI_CMD_IND (msg: OK)	
(3)	ACI_CMD_REQ (cmd: AT+COLP=1)	
(4)	ACI_CMD_IND (msg: OK)	
(5)	ACI_CMD_REQ (cmd: ATDxxx;)	
(6)		MNCC_SETUP_REQ
(7)		SIM_SYNC_REQ
(8)		MNCC_CALL_PROCEED_IND
(9)		MNCC_PROGRESS_IND
(10)		MNCC_ALERT_IND
(11)		MNCC_SYNC_IND
(12)		MNCC_SETUP_CNF
(13)	ACI_CMD_IND (msg: +COLP:...)	
(14)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLIR_SUP)	
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_D_EMERG112)
	cmd_len	NUM_ELEMENTS(C_D_EMERG000)
<C>	cmd_len	NUM_ELEMENTS(C_D_EMERG110)
<D>	cmd_len	NUM_ELEMENTS(C_D_EMERG118)
<E>	cmd_len	NUM_ELEMENTS(C_D_EMERG119)
<F>	cmd_len	NUM_ELEMENTS(C_D_EMERG911)
<G>	cmd_len	NUM_ELEMENTS(C_D_EMERG999)
	cmd_seq	C_D_EMERG112
	cmd_seq	C_D_EMERG000
<C>	cmd_seq	C_D_EMERG110
<D>	cmd_seq	C_D_EMERG118
<E>	cmd_seq	C_D_EMERG119
<F>	cmd_seq	C_D_EMERG911
<G>	cmd_seq	C_D_EMERG999
(6) MNCC_SETUP_REQ	ti	NUM_0
<A>	prio	PRIO_EMERG_CALL
	prio	PRIO_NORM_CALL
<C>	prio	PRIO_NORM_CALL
<D>	prio	PRIO_NORM_CALL
<E>	prio	PRIO_NORM_CALL
<F>	prio	PRIO_NORM_CALL
<G>	prio	PRIO_EMERG_CALL
	ri	RI_NOT_PRESENT
	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
<A>	called_party	S_CLD_EMERG112
	called_party	S_CLD_EMERG000
<C>	called_party	S_CLD_EMERG110
<D>	called_party	S_CLD_EMERG118
<E>	called_party	S_CLD_EMERG119
<F>	called_party	S_CLD_EMERG911
<G>	called_party	S_CLD_EMERG999
	called_party_sub	S_CLD_EMERG_SUB

	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(7) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG110
<D>	connected_number	S_CLG_EMERG118
<E>	connected_number	S_CLG_EMERG119
<F>	connected_number	S_CLG_EMERG911
<G>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_EMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG110
<D>	cmd_seq	M_PLUS_COLP_EMERG118
<E>	cmd_seq	M_PLUS_COLP_EMERG119
<F>	cmd_seq	M_PLUS_COLP_EMERG911
<G>	cmd_seq	M_PLUS_COLP_EMERG999
(14) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.12.01 KGT Initial

4.15.8 ACI207: Emergency Call (Test all ME emergency call numbers, check with service numbers)

Description: Mobile originated emergency call establishment

Preamble: ACI029A

Variants: <A>...<H>

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CLIR=2)	
(2)	ACI_CMD_IND (msg: OK)	
(3)	ACI_CMD_REQ (cmd: AT+COLP=1)	
(4)	ACI_CMD_IND (msg: OK)	
(5)	ACI_CMD_REQ (cmd: ATDxxx;)	
(6)		MNCC_SETUP_REQ
(7)		SIM_SYNC_REQ
(8)		MNCC_CALL_PROCEED_IND
(9)		MNCC_PROGRESS_IND
(10)		MNCC_ALERT_IND
(11)		MNCC_SYNC_IND
(12)		MNCC_SETUP_CNF
(13)	ACI_CMD_IND (msg: +COLP:...)	
(14)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG112) NUM_ELEMENTS(C_D_EMERG000) NUM_ELEMENTS(C_D_EMERG08) NUM_ELEMENTS(C_D_EMERG110) NUM_ELEMENTS(C_D_EMERG118) NUM_ELEMENTS(C_D_EMERG119) NUM_ELEMENTS(C_D_EMERG911) NUM_ELEMENTS(C_D_EMERG999) C_D_EMERG112 C_D_EMERG000 C_D_EMERG08 C_D_EMERG110 C_D_EMERG118 C_D_EMERG119 C_D_EMERG911 C_D_EMERG999
(6) MNCC_SETUP_REQ	ti prio prio prio prio prio prio prio prio ri bcpara bcpara2 called_party called_party called_party called_party called_party called_party	NUM_0 PRIO_EMERG_CALL PRIO_NORM_CALL PRIO_EMERG_CALL PRIO_EMERG_CALL PRIO_NORM_CALL PRIO_NORM_CALL PRIO_NORM_CALL PRIO_EMERG_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_EMERG112 S_CLD_EMERG000 S_CLD_EMERG08 S_CLD_EMERG110 S_CLD_EMERG118 S_CLD_EMERG119

<G>	called_party	S_CLD_EMERG911
<H>	called_party	S_CLD_EMERG999
	called_party_sub	S_CLD_EMERG_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
	ri	RI_NOT_PRESENT
	bcpara	S_BS_EMERG
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRESENT
<A>	connected_number	S_CLG_EMERG112
	connected_number	S_CLG_EMERG000
<C>	connected_number	S_CLG_EMERG08
<D>	connected_number	S_CLG_EMERG110
<E>	connected_number	S_CLG_EMERG118
<F>	connected_number	S_CLG_EMERG119
<G>	connected_number	S_CLG_EMERG911
<H>	connected_number	S_CLG_EMERG999
	connected_number_sub	S_CLG_EMERG_SUB
(13) ACI_CMD_IND	cmd_len	
<A>	NUM_ELEMENTS(M_PLUS_COLP_EMERG112)	
	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NOEMERG000)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG08)	
<D>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG110)	
<E>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_EMERG118)	
<F>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NOEMERG119)	
<G>	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NOEMERG911)	
<H>	cmd_len	

	NUM_ELEMENTS(M_PLUS_COLP_EMERG999)	
<A>	cmd_seq	M_PLUS_COLP_EMERG112
	cmd_seq	M_PLUS_COLP_NOEMERG000
<C>	cmd_seq	M_PLUS_COLP_EMERG08
<D>	cmd_seq	M_PLUS_COLP_EMERG110
<E>	cmd_seq	M_PLUS_COLP_EMERG118
<F>	cmd_seq	M_PLUS_COLP_NOEMERG119
<G>	cmd_seq	M_PLUS_COLP_NOEMERG911
<H>	cmd_seq	M_PLUS_COLP_EMERG999

(14) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

History: 13.12.01 KGT Initial

4.15.9 ACI208: No Emergency Call (Test number which begins as an emergency number, but continous)

Description:

Mobile originated normal call establishment

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLIR=2) * =====> *		
(2) ACI_CMD_IND (msg: OK) * <===== *		
(3) ACI_CMD_REQ (cmd: AT+COLP=1) * =====> *		
(4) ACI_CMD_IND (msg: OK) * <===== *		
(5) ACI_CMD_REQ (cmd: ATDxxx;) * =====> *		
(6)	MNCC_SETUP_REQ * =====> *	
(7)	SIM_SYNC_REQ * =====> *	
(8)	MNCC_CALL_PROCEED_IND * <===== *	
(9)	MNCC_PROGRESS_IND * <===== *	
(10)	MNCC_ALERT_IND * <===== *	
(11)	MNCC_SYNC_IND * <===== *	
(12)	MNCC_SETUP_CNF * <===== *	
(13) ACI_CMD_IND (msg: +COLP:...) * <===== *		
(14) ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_D_NOEMERG999099) cmd_seq	CMD_SRC_EXT C_D_NOEMERG999099
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_0 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT S_CLD_NOEMERG999099 S_CLD_EMERG_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_EMERG S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_0 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT S_CLG_NOEMERG999099 S_CLG_EMERG_SUB
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NOEMERG999099) cmd_seq	M_PLUS_COLP_NOEMERG999099
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 14.12.01 KGT Initial

4.15.10 ACI214: No Emergency Call (Test 118,119 with SIM blocked)

Description:

When SIM used (even if blocked) then 118 and 119 are normal calls. No call establishment, because of blocked SIM.

Preamble:

ACI022

Variants:

<A>...

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CLIR=2)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT+COLP=1)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(5)		
	ACI_CMD_REQ	
	(cmd: ATDxxx;)	
	=====>	
(6)		
	ACI_CMD_IND	
	(msg: ERROR)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLIR_SUP)	
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG118) NUM_ELEMENTS(C_D_EMERG119) C_D_EMERG118 C_D_EMERG119
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERR_SIM_BLK) M_ERR_SIM_BLK
(6) History:	08.03.02	KGT Initial

4.15.11 ACI215: No Emergency Call (Test 118,119 with PIN required)

Description:

When SIM used (even if PIN not entered yet) then 118 and 119 are normal calls. No call establishment, because of not entered PIN.

Preamble:

ACI028

Variants:

<A>...

APL	ACI	PS
(1) ACI_CMD_REQ		
(cmd: AT+CLIR=2)		
* =====>*		
(2) ACI_CMD_IND		
(msg: OK)		
* <=====*		
(3) ACI_CMD_REQ		
(cmd: AT+COLP=1)		
* =====>*		
(4) ACI_CMD_IND		
(msg: OK)		
* <=====*		
(5) ACI_CMD_REQ		
(cmd: ATDxxx;)		
* =====>*		
(6) ACI_CMD_IND		
(msg: ERROR)		
* <=====*		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_len cmd_seq cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_EMERG118) NUM_ELEMENTS(C_D_EMERG119) C_D_EMERG118 C_D_EMERG119
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERR_PIN_REQ) M_ERR_PIN_REQ
(6)		
History: 08.03.02 KGT Initial		

4.15.12 ACI216: No Emergency Call (Test 08 (USSD), SIM has emergency call numbers)

Description: SIM has emergency call numbers stored. 08 will be treated as normal call. But 08 is USSD .

Preamble:
ACI024A

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CLIR=2) * =====> *	 	
(2)	 ACI_CMD_IND (msg: OK) * <===== *	 	
(3)	 ACI_CMD_REQ (cmd: AT+COLP=1) * =====> *	 	
(4)	 ACI_CMD_IND (msg: OK) * <===== *	 	
(5)	 ACI_CMD_REQ (cmd: ATDxxx;) * =====> *	 	
(6)	 	MNSS_BEGIN_REQ * =====> *	
(7)	 	MNSS_FACILITY_IND * <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLIR_SUP)	
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_EMERG08)
	cmd_seq	C_D_EMERG08
(6) MNSS_BEGIN_REQ	ti	NUM_0
	fac_inf	NOT_USED
	ss_ver	NOT_USED
(7) MNSS_FACILITY_IND	ti	NUM_0
	fac_inf	NOT_USED

History: 08.03.02 KGT Initial

4.16 Call Modification (ACI060 – ACI069)

4.16.1 ACI220: Release all held calls

Description:

Release all held calls. One is held one is active

Preamble:

ACI051A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CHLD=0)	
	=====>	
(2)	MNCC_DISCONNECT_REQ	
	=====>	
(3)	MNCC_RELEASE_IND	
	<=====	
(4)	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_0)
	cmd_seq	C_PLUS_CHLD_0
(2) MNCC_DISCONNECT_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(3) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.16.2 ACI221: UDUB for a waiting call

Description:

Disconnect an incoming call with cause user determined user busy.

Preamble:

ACI050A

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CCWA=1)		
=====>		
(2) ACI_CMD_IND (msg: OK)		
<=====		
(3)	MNCC_SETUP_IND	
	<=====	
(4) ACI_CMD_IND (msg: +CCWA: ...)		
<=====		
(5)	MNCC_ALERT_REQ	
	=====>	
(6) ACI_CMD_REQ (cmd: AT+CHLD=0)		
=====>		
(7)	MNCC_DISCONNECT_REQ	
	=====>	
(8)	MNCC_RELEASE_IND	
	<=====	
(9) ACI_CMD_IND (msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CCWA_ON)	
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRESENT
	sig	SIG_RING_BACK_TONE_ON

	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PLUS_CCWA)
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_0)
	cmd_seq	C_PLUS_CHLD_0
(7) MNCC_DISCONNECT_REQ		
	ti	NUM_8
	cause	MNCC_CAUSE_USER_BUSY
	fac_inf	NOT_USED
	ss_version	NOT_USED
(8) MNCC_RELEASE_IND		
	ti	NUM_8
	cause	MNCC_CAUSE_CALL_CLEAR
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.16.3 ACI222: Release all active calls and accept held call

Description:

All active calls will be received. The first held call will be retrieved

Preamble:

```

ACI051A
APL                               ACI                               PS
|                                 |                                 |
(1) |          ACI_CMD_REQ         |                                 |
    |      (cmd: AT+CHLD=1)       |                                 |
    | * =====> *                |                                 |
(2) |                                 |      MNCC_DISCONNECT_REQ        |
    |                                 | * =====> *                |
(3) |                                 |      MNCC_RELEASE_IND          |
    |                                 | * <===== *                |
(4) |                                 |      MNCC_RETRIEVE_REQ        |
    |                                 | * =====> *                |
(5) |                                 |      MNCC_RETRIEVE_CNF        |
    |                                 | * <===== *                |
(6) |          ACI_CMD_IND         |                                 |
    |      (msg: OK)              |                                 |
    | * <===== *                |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_1)
	cmd_seq	C_PLUS_CHLD_1
(2) MNCC_DISCONNECT_REQ	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(3) MNCC_RELEASE_IND	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
(4) MNCC_RETRIEVE_REQ	ti	NUM_0
(5) MNCC_RETRIEVE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_RETRIEVE_SUCCESS
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.16.4 ACI223: Release all active calls and accept the waiting call

Description:

Release the current active call. Accept the incoming call.

Preamble:

ACI051A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CCWA=1)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	MNCC_SETUP_IND	
	<=====	
(4)		
	ACI_CMD_IND	
	(msg: +CCWA: ...)	
	<=====	
(5)		
	MNCC_ALERT_REQ	
	=====>	
(6)		
	ACI_CMD_REQ	
	(cmd: AT+CHLD=1)	
	=====>	
(7)		
	MNCC_DISCONNECT_REQ	
	=====>	
(8)		
	MNCC_RELEASE_IND	
	<=====	
(9)		
	MNCC_SETUP_RES	
	=====>	
(10)		
	MNCC_SYNC_IND	
	<=====	
(11)		
	MNCC_SETUP_COMPL_IND	
	<=====	
(12)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CCWA_ON)	
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND	cmd_len	NOT_USED
	cmd_seq	NOT_USED

(3) MNCC_SETUP_IND	ti ri bcpara bcpara2 progress_desc sig calling_party calling_party_sub called_party called_party_sub redirecting_party redirecting_party_sub	NUM_8 RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT PROG_NOT_PRESENT SIG_RING_BACK_TONE_ON S_CLG_PARTY S_CLG_PARTY_SUB S_CLD_PARTY S_CLD_PARTY_SUB NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CCWA) M_PLUS_CCWA
(5) MNCC_ALERT_REQ	ti	NUM_8
(6) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_1) C_PLUS_CHLD_1
(7) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_1 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(8) MNCC_RELEASE_IND	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(9) MNCC_SETUP_RES	ti	NUM_8
(10) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 AK Initial

4.16.5 ACI224: Place all active calls on hold and accept a held call

Description:

All active calls will be placed on hold. The first held call will be retrieved

Preamble:

```

ACI051A
APL                               ACI                               PS
|                                 |                                 |
(1) |          ACI_CMD_REQ         |                                 |
    |      (cmd: AT+CHLD=2)       |                                 |
    | *=====> *                  |                                 |
(2) |                                 |          MNCC_HOLD_REQ         |
    | *=====> *                  |                                 |
(3) |                                 |          MNCC_RETRIEVE_REQ      |
    | *=====> *                  |                                 |
(4) |                                 |          MNCC_HOLD_CNF         |
    | *<===== *                  |                                 |
(5) |                                 |          MNCC_RETRIEVE_CNF      |
    | *<===== *                  |                                 |
(6) |          ACI_CMD_IND         |                                 |
    |      (msg: OK)              |                                 |
    | *<===== *                  |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_2)
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ	ti	NUM_1
(3) MNCC_RETRIEVE_REQ	ti	NUM_0
(4) MNCC_HOLD_CNF	ti	NUM_1
	cause	MNCC_CAUSE_HOLD_SUCCESS
(5) MNCC_RETRIEVE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_RETRIEVE_SUCCESS
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.12.98 AK Initial

4.16.6 ACI225: Place all active calls on hold and accept the waiting call

Description:

Place the current active call on hold. Accept the incoming call.

Preamble:

ACI050A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT+CCWA=1)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	MNCC_SETUP_IND	
	<=====	
(4)		
	ACI_CMD_IND	
	(msg: +CCWA: ...)	
	<=====	
(5)		
	MNCC_ALERT_REQ	
	=====>	
(6)		
	ACI_CMD_REQ	
	(cmd: AT+CHLD=2)	
	=====>	
(7)		
	MNCC_HOLD_REQ	
	=====>	
(8)		
	MNCC_HOLD_CNF	
	<=====	
(9)		
	MNCC_SETUP_RES	
	=====>	
(10)		
	MNCC_SYNC_IND	
	<=====	
(11)		
	MNCC_SETUP_COMPL_IND	
	<=====	
(12)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CCWA_ON)	
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND	cmd_len	NOT_USED
	cmd_seq	NOT_USED

(3) MNCC_SETUP_IND	ti ri bcpara bcpara2 progress_desc sig calling_party calling_party_sub called_party called_party_sub redirecting_party redirecting_party_sub	NUM_8 RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT PROG_NOT_PRESENT SIG_RING_BACK_TONE_ON S_CLG_PARTY S_CLG_PARTY_SUB S_CLD_PARTY S_CLD_PARTY_SUB NOT_USED NOT_USED
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CCWA) M_PLUS_CCWA
(5) MNCC_ALERT_REQ	ti	NUM_8
(6) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_2) C_PLUS_CHLD_2
(7) MNCC_HOLD_REQ	ti	NUM_0
(8) MNCC_HOLD_CNF	ti cause	NUM_0 MNCC_CAUSE_HOLD_SUCCESS
(9) MNCC_SETUP_RES	ti	NUM_8
(10) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND	ti cause	NUM_8 MNCC_CAUSE_SUCCESS
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

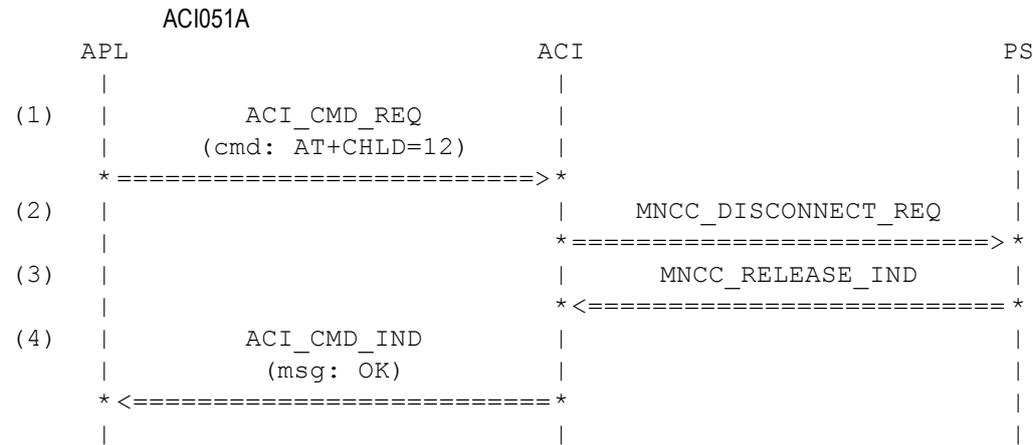
History: 22.12.98 AK Initial

4.16.7 ACI226: Release a specific activ call

Description:

Release the specific active call.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_12)
	cmd_seq	C_PLUS_CHLD_12
(2) MNCC_DISCONNECT_REQ	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(3) MNCC_RELEASE_IND	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.16.8 ACI227: Single International Voice Call

Description:

Mobile originated international voice call establishment

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLIR=2) * =====> *	 	
(2) ACI_CMD_IND (msg: OK) * <===== *	 	
(3) ACI_CMD_REQ (cmd: AT+COLP=1) * =====> *	 	
(4) ACI_CMD_IND (msg: OK) * <===== *	 	
(5) ACI_CMD_REQ (cmd: ATD123456;) * =====> *	 	
(6) 	 MNCC_SETUP_REQ * =====> *	
(7) 	 SIM_SYNC_REQ * =====> *	
(8) 	 MNCC_CALL_PROCEED_IND * <===== *	
(9) 	 MNCC_PROGRESS_IND * <===== *	
(10) 	 MNCC_ALERT_IND * <===== *	
(11) 	 MNCC_SYNC_IND * <===== *	
(12) 	 MNCC_SETUP_CNF * <===== *	
(13) ACI_CMD_IND (msg: +COLP:...) * <===== *	 	
(14) ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE_INT_B) C_D_VOICE_INT_B
(6) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clr_sup fac_inf	NUM_0 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY_INT S_CLD_PARTY_SUB CLR_SUP NOT_USED
(7) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(10) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRESENT
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_0 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT S_CLG_PARTY S_CLG_PARTY_SUB
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_COLP_NUM) M_PLUS_COLP_NUM
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 AK Initial

4.16.9 ACI228: Place all active calls on hold and except call 1 with which communication should be supported

Description:

All active calls will be placed on hold. The held 1 call will be retrieved

Preamble:

```

ACI051A
APL                               ACI                               PS
|                                 |                                 |
(1) |          ACI_CMD_REQ         |                                 |
    |      (cmd: AT+CHLD=21)      |                                 |
    | *=====> *                  |                                 |
(2) |                                 |          MNCC_HOLD_REQ         |
    | *=====> *                  |                                 |
(3) |                                 |          MNCC_RETRIEVE_REQ      |
    | *=====> *                  |                                 |
(4) |                                 |          MNCC_HOLD_CNF         |
    | *<===== *                  |                                 |
(5) |                                 |          MNCC_RETRIEVE_CNF    |
    | *<===== *                  |                                 |
(6) |          ACI_CMD_IND         |                                 |
    |      (msg: OK)              |                                 |
    | *<===== *                  |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_21)
	cmd_seq	C_PLUS_CHLD_21
(2) MNCC_HOLD_REQ	ti	NUM_1
(3) MNCC_RETRIEVE_REQ	ti	NUM_0
(4) MNCC_HOLD_CNF	ti	NUM_1
	cause	MNCC_CAUSE_HOLD_SUCCESS
(5) MNCC_RETRIEVE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_RETRIEVE_SUCCESS
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.12.98 AK Initial

4.16.10 ACI229: Release all calls

Description:

Release all calls. One is held one is active

Preamble:

	ACI051A		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: ATH)		
	=====>		
(2)		MNCC_DISCONNECT_REQ	
		=====>	
(3)		SIM_SYNC_REQ	
		=====>	
(4)		MNCC_DISCONNECT_REQ	
		=====>	
(5)		MNCC_RELEASE_IND	
		<=====	
(6)		MNCC_RELEASE_IND	
		<=====	
(7)			
	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_H)
	cmd_seq	C_H
(2) MNCC_DISCONNECT_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(3) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(4) MNCC_DISCONNECT_REQ	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(5) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

(6) MNCC_RELEASE_IND

ti
cause

NUM_1
MNCC_CAUSE_CALL_CLEAR

(7) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_OK)
M_OK

History: 22.12.98 AK Initial

4.17 Voice Call Management II (ACI250-ACI270)

4.17.1 ACI250: Second Single Voice Call Disconnected by Remote Party

Description:

Remote user aborts second mobile originated voice call establishment. After that the first call will be disconnected and a new call will be established.

Preamble:

ACI050A		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(2)		MNCC_HOLD_REQ	
		=====>	
(3)		MNCC_HOLD_CNF	
		<=====	
(4)		MNCC_SETUP_REQ	
		=====>	
(5)		MNCC_CALL_PROCEED_IND	
		<=====	
(6)		MNCC_PROGRESS_IND	
		<=====	
(7)		MNCC_ALERT_IND	
		<=====	
(8)		MNCC_SYNC_IND	
		<=====	
(9)		MNCC_DISCONNECT_IND	
		<=====	
(10)	ACI_CMD_IND (msg: NO ANSWER)		
	<=====		
(11)		MNCC_RELEASE_CNF	
		<=====	
(12)	ACI_CMD_REQ (cmd: AT+CHLD=0)		
	=====>		
(13)		SIM_SYNC_REQ	
		=====>	
(14)		MNCC_DISCONNECT_REQ	
		=====>	
(15)		MNCC_RELEASE_IND	
		<=====	
(16)	ACI_CMD_IND (msg: OK)		
	<=====		
(17)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(18)		MNCC_SETUP_REQ	

```

(19) |                                     *=====> *
      |                               | SIM_SYNC_REQ |
      |                                     *=====> *
(20) |                               | MNCC_CALL_PROCEED_IND |
      |                                     *<===== *
(21) |                               | MNCC_PROGRESS_IND |
      |                                     *<===== *
(22) |                               | MNCC_ALERT_IND |
      |                                     *<===== *
(23) |                               | MNCC_FACILITY_IND |
      |                                     *<===== *
(24) |                               | MNCC_SYNC_IND |
      |                                     *<===== *
(25) |                               | MNCC_SETUP_CNF |
      |                                     *<===== *
(26) | ACI_CMD_IND |
      | (msg: +COLP:...) |
      | *<===== *
(27) | ACI_CMD_IND |
      | (msg: OK) |
      | *<===== *
      | |
  
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(4) MNCC_SETUP_REQ	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT

(6) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(7) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(8) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_1 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_NO_CARRIER) M_NO_CARRIER
(11) MNCC_RELEASE_CNF	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(12) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_0) C_PLUS_CHLD_0
(13) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(14) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(15) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(16) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(17) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(18) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub	NUM_0 PRIO_NORM_CALL RI_NOT_PRES S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB

	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(19) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(20) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(21) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(22) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(23) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	FAC_IN_ALERT
	fac_inf	S_FAC_AOC
(24) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(25) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRESENT
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(26) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_COLP_NUM)	
	cmd_seq	M_PLUS_COLP_NUM
(27) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK


```

* <===== *
(21) |          ACI_CMD_IND          |          |
      |          (msg: OK)         |          |
* <===== *
      |          |                  |          |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(4) MNCC_SETUP_REQ	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(7) MNCC_ALERT_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES

(10)	ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_NO_CARRIER) M_NO_CARRIER
(11)	MNCC_RELEASE_CNF	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(12)	ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(13)	MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_1 PRIO_NORM_CALL RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(14)	MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_1 PROG_NOT_PRESENT RI_NOT_PRESENT S_BS_VOICE S_BS_NOT_PRESENT
(15)	MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRESENT
(16)	MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRESENT
(17)	MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_1 FAC_IN_ALERT S_FAC_AOC
(18)	MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(19)	MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_1 MNCC_CAUSE_SUCCESS PROG_NOT_PRESENT S_CLG_PARTY S_CLG_PARTY_SUB
(20)	ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NUM) cmd_seq	M_PLUS_COLP_NUM

(21) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_OK)
M_OK


```

(20) | | MNCC_SETUP_REQ |
| | *=====> *
(21) | | SIM_SYNC_REQ |
| | *=====> *
(22) | | MNCC_CALL_PROCEED_IND |
| | *<===== *
(23) | | MNCC_PROGRESS_IND |
| | *<===== *
(24) | | MNCC_ALERT_IND |
| | *<===== *
(25) | | MNCC_FACILITY_IND |
| | *<===== *
(26) | | MNCC_SYNC_IND |
| | *<===== *
(27) | | MNCC_SETUP_CNF |
| | *<===== *
(28) | | ACI_CMD_IND |
| | (msg: +COLP:...) |
| | *<===== *
(29) | | ACI_CMD_IND |
| | (msg: OK) |
| | *<===== *
| | |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(4) MNCC_SETUP_REQ	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRESENT
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT

(6) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_INBAND_AVAIL
(7) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(8) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_1 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_INBAND_AVAIL
(10) ACI_ABORT_REQ	cmd_src cause	CMD_SRC_EXT ABT_ABORT_CMD
(11) MNCC_RELEASE_REQ	ti cause fac_inf ss_version	NUM_1 MNCC_CAUSE_CALL_CLEAR A_FAC_EMPTY NOT_USED
(12) MNCC_RELEASE_CNF	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(14) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_0) C_PLUS_CHLD_0
(15) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(16) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(17) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(18) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(19) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(20) MNCC_SETUP_REQ	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(21) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(22) MNCC_CALL_PROCEED_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
	ri	RI_NOT_PRESENT
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(23) MNCC_PROGRESS_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(24) MNCC_ALERT_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRESENT
(25) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	FAC_IN_ALERT
	fac_inf	S_FAC_AOC
(26) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(27) MNCC_SETUP_CNF	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRESENT
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(28) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_COLP_NUM)
	cmd_seq	M_PLUS_COLP_NUM
(29) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 02.03.00 AK Initial

4.17.4 ACI253: Second Single Voice Call Disconnected by Remote Party

Description:

Remote user aborts second mobile originated voice call establishment. After that another call establishment is tried, which leads to a successful connection.

Preamble:

ACI050A		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(2)		MNCC_HOLD_REQ	
		=====>	
(3)		MNCC_HOLD_CNF	
		<=====	
(4)		MNCC_SETUP_REQ	
		=====>	
(5)		MNCC_CALL_PROCEED_IND	
		<=====	
(6)		MNCC_PROGRESS_IND	
		<=====	
(7)		MNCC_ALERT_IND	
		<=====	
(8)		MNCC_SYNC_IND	
		<=====	
(9)		MNCC_DISCONNECT_IND	
		<=====	
(10)	ACI_ABORT_REQ		
	=====>		
(11)		MNCC_RELEASE_REQ	
		=====>	
(12)		MNCC_RELEASE_CNF	
		<=====	
(13)	ACI_CMD_IND (msg: OK)		
	<=====		
(14)	ACI_CMD_REQ (cmd: ATD123456;)		
	=====>		
(15)		MNCC_SETUP_REQ	
		=====>	
(16)		MNCC_CALL_PROCEED_IND	
		<=====	
(17)		MNCC_PROGRESS_IND	
		<=====	
(18)		MNCC_ALERT_IND	
		<=====	
(19)		MNCC_FACILITY_IND	
		<=====	
(20)		MNCC_SYNC_IND	
		<=====	

(21)			MNCC_SETUP_CNF	
			* <=====*	
(22)			ACI_CMD_IND	
			(msg: +COLP:...)	
			* <=====*	
(23)			ACI_CMD_IND	
			(msg: OK)	
			* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(4) MNCC_SETUP_REQ	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND	ti	NUM_1
	progress_desc	PROG_INBAND_AVAIL
(7) MNCC_ALERT_IND	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND	ti	NUM_1
	cause	MNCC_CAUSE_CALL_CLEAR

	diagnostic progress_desc	NOT_PRESENT_8BIT PROG_INBAND_AVAIL
(10) ACI_ABORT_REQ	cmd_src cause	CMD_SRC_EXT ABT_ABORT_CMD
(11) MNCC_RELEASE_REQ	ti cause fac_inf ss_version	NUM_1 MNCC_CAUSE_CALL_CLEAR A_FAC_EMPTY NOT_USED
(12) MNCC_RELEASE_CNF	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(13) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(14) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_VOICE) C_D_VOICE
(15) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_1 PRIO_NORM_CALL RI_NOT_PRES S_BS_VOICE S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP NOT_USED
(16) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_1 PROG_NOT_PRES RI_NOT_PRES S_BS_VOICE S_BS_NOT_PRESENT
(17) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(18) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(19) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_1 FAC_IN_ALERT S_FAC_AOC
(20) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH

(3) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(4) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(5) MNCC_CONFIGURE_REQ	called_party_sub bcpara sns_mode ctm_ena	NOT_USED S_BS_DAT_default SNS_MODE_VOICE NOT_USED
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 21.09.99 ACI Initial

4.17.6 ACI255: Release all calls with ATZ Command

Description:

Release all calls. One is held one is active

Preamble:

	ACI051A		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATZ)		
	* =====> *		
(2)		MNCC_DISCONNECT_REQ	
		* =====> *	
(3)		SIM_SYNC_REQ	
		* =====> *	
(4)		MNCC_DISCONNECT_REQ	
		* =====> *	
(5)		MNCC_RELEASE_IND	
		* <===== *	
(6)		MNCC_RELEASE_IND	
		* <===== *	
(7)		MNCC_CONFIGURE_REQ	
		* =====> *	
(8)	ACI_CMD_IND (msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len cmd_seq	NUM_ELEMENTS(C_Z) C_Z
(2) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(3) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(4) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_1 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(5) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(6) MNCC_RELEASE_IND	ti cause	NUM_1 MNCC_CAUSE_CALL_CLEAR
(7) MNCC_CONFIGURE_REQ	called_party_sub bcpara sns_mode ctm_ena	NOT_USED S_BS_DAT_default SNS_MODE_VOICE NOT_USED
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 ACI Initial

4.17.7 ACI256: Call Termination with in-band tones by using ATZ command

Description:

call termination procedure with in-band tones active by using ATZ command.

Preamble:

ACI050A

APL	ACI	PS
(9)	MNCC_DISCONNECT_IND	
	* <=====*	
(1)	ACI_CMD_REQ (cmd: ATZ)	
	* =====>*	
(2)	SIM_SYNC_REQ	
	* =====>*	
(3)	MNCC_RELEASE_REQ	
	* =====>*	
(4)	MNCC_RELEASE_CNF	
	* <=====*	
(5)	MNCC_CONFIGURE_REQ	
	* =====>*	
(6)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(30) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_INBAND_AVAIL
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_Z)
	cmd_seq	C_Z
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) MNCC_RELEASE_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	A_FAC_EMPTY
	ss_version	NOT_USED
(4) MNCC_RELEASE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_NO_NET_CAUSE

(5) MNCC_CONFIGURE_REQ

called_party_sub	NOT_USED
bcpara	S_BS_DAT_default
sns_mode	SNS_MODE_VOICE
ctm_ena	NOT_USED

(6) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

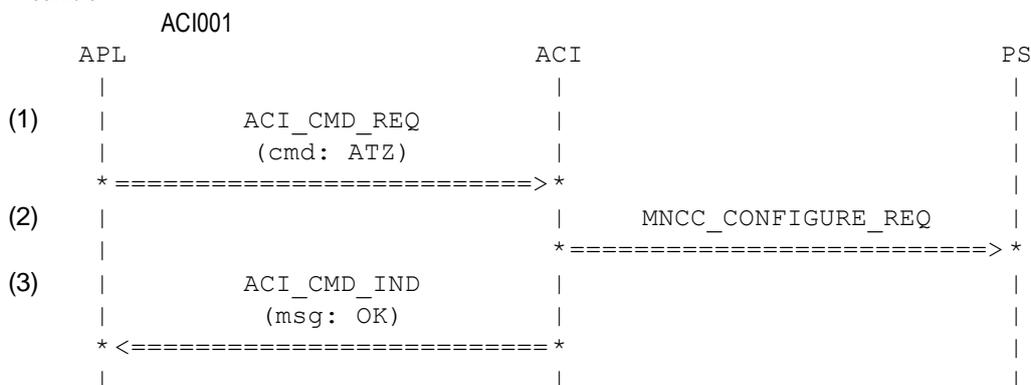
History: 25.05.01 ACI Initial

4.17.8 ACI257: Set parameter to default value

Description:

Set parameter to default value when no call or waiting call is active

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_Z)
	cmd_seq	C_Z
(2) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	bcpara	S_BS_DAT_default
	sns_mode	SNS_MODE_VOICE
	ctm_ena	NOT_USED
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 29.12.98 ACI Initial

4.18 Cipherring Indicator Test Cases (ACI260-ACI270)

4.18.1 ACI260: CI is disabled, test set command

Description:

Preamble:

```

ACI024A
  APL                               ACI                               PS
  |                                 |                                 |
(1) |          ACI_CMD_REQ          |                                 |
    |          (cmd: %CPRI=1)       |                                 |
    * =====> *                  |                                 |
(2) |          ACI_CMD_IND          |                                 |
    |          (msg: op not allowed) |                                 |
    * <===== *                    |                                 |
    |                                 |                                 |

```

Parametrization:

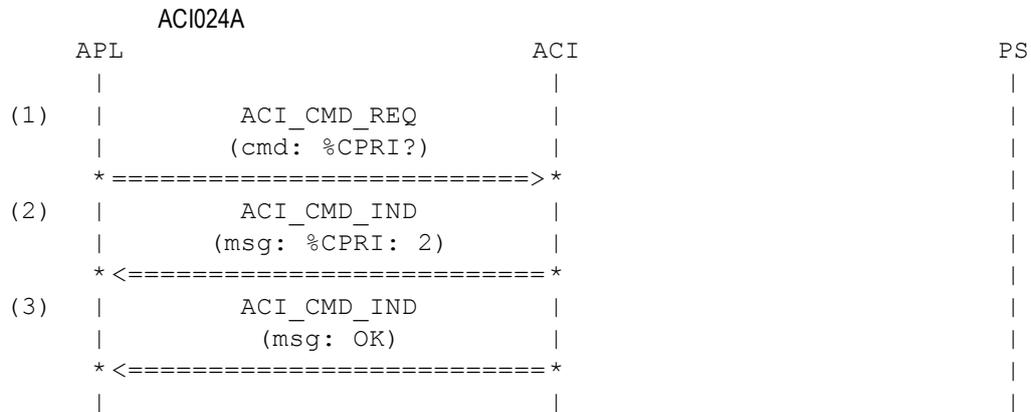
Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPRI_S1)
	cmd_seq	C_PERCENT_CPRI_S1
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_OPERATION)
	cmd_seq	M_ERR_OPERATION

History: 29.10.01 TLU Initial

4.18.2 ACI261: CI is disabled, test query command

Description:

Preamble:



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
		cmd_len	NUM_ELEMENTS(C_PERCENT_CPRI_Q1)
		cmd_seq	C_PERCENT_CPRI_Q1
(2)	ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPRI_Q1)
		cmd_seq	M_PERCENT_CPRI_Q1
(3)	ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
		cmd_seq	M_OK

History: 29.10.01 TLU Initial

4.18.3 ACI262: CI is disabled, test test command

Description:

Preamble:

```

ACI024A
APL                               ACI                               PS
|                                 |                                 |
(1) |         ACI_CMD_REQ         |                                 |
    |         (cmd: %CPRI=?)      |                                 |
    * =====> *                 |                                 |
(2) |         ACI_CMD_IND         |                                 |
    |         (msg: %CPRI: (0,1)  |                                 |
    * <===== *                   |                                 |
(3) |         ACI_CMD_IND         |                                 |
    |         (msg: OK)           |                                 |
    * <===== *                   |                                 |
|                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPRI_T1)
	cmd_seq	C_PERCENT_CPRI_T1
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPRI_T1)
	cmd_seq	M_PERCENT_CPRI_T1
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 29.10.01 TLU Initial

4.18.4 ACI263: CI is enabled, test set and test command

Description:

Preamble:

ACI024B		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: %CPRI=1)		
	* =====>*		
(2)	ACI_CMD_IND (msg: OK)		
	* <=====*		
(3)	ACI_CMD_REQ (cmd: %CPRI=?)		
	* =====>*		
(4)	ACI_CMD_IND (msg: %CPRI: (0,1))		
	* <=====*		
(5)	ACI_CMD_IND (msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_CPRI_S1) cmd_seq	CMD_SRC_EXT C_PERCENT_CPRI_S1
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_CPRI_T1) cmd_seq	CMD_SRC_EXT C_PERCENT_CPRI_T1
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PERCENT_CPRI_T1) M_PERCENT_CPRI_T1
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 29.10.01 TLU Initial

4.18.5 ACI264: CI is enabled, test query command and ciphering indication

Description:

Preamble:

ACI263		ACI	PS
APL			
(1)	ACI_CMD_REQ (cmd: %CPRI?)		
	=====>		
(2)	ACI_CMD_IND (msg: %CPRI: 1)		
	<=====		
(3)	ACI_CMD_IND (msg: OK)		
	<=====		
(4)		MMR_CIPHERING_IND	
		<=====	
(5)	ACI_CMD_IND (msg: %CPRI: 1,2)		
	<=====		
(6)		SIM_REMOVE_IND	
		<=====	
(7)	ACI_CMD_IND (msg: %SIMREM: 0)		
	<=====		
(8)	ACI_CMD_REQ (cmd: %CPRI=0)		
	=====>		
(9)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPRI_Q1)	
	cmd_seq	C_PERCENT_CPRI_Q1
(2) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPRI_Q2)	
	cmd_seq	M_PERCENT_CPRI_Q2
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

(4) MMR_CIPHERING_IND	ciph	CIPH_ON
(5) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPRI_U1) cmd_seq	M_PERCENT_CPRI_U1
(6) SIM_REMOVE_IND	cause	SIM_NO_ERROR
(7) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_SIMREM_ERR_0) cmd_seq	M_PERCENT_SIMREM_ERR_0
(8) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_CPRI_S2) cmd_seq	CMD_SRC_EXT C_PERCENT_CPRI_S2
(9) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 29.10.01 TLU Initial

4.19 Call Completion to Busy Subscriber (ACI300-ACI349)

4.19.1 ACI300: Call Establishment Attempt to Busy User, CCBS indicated.

Description:

Mobile originated voice call establishment attempt. The network indicates that the B subscriber is busy and that CCBS is possible.

Preamble:

ACI001

Variants: <A>...<E>

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%CCBS=1) * =====> *	 	
(2) ACI_CMD_IND (msg: OK) * <===== *	 	
(3) ACI_CMD_REQ (cmd: ATD123456;) * =====> *	 	
(4) 	MNCC_SETUP_REQ * =====> *	
(5) ACI_CMD_IND (msg: OK) * <===== *	 	
(6) 	SIM_SYNC_REQ * =====> *	
(7) 	MNCC_CALL_PROCEED_IND * <===== *	
(8) 	MNCC_PROGRESS_IND * <===== *	
(9) 	MNCC_DISCONNECT_IND * <===== *	
(10) 	SIM_SYNC_REQ * =====> *	
(11) ACI_CMD_IND (msg: %CCBS: ...) * <===== *	 	
(12) ACI_CMD_IND (msg: BUSY) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CCBS_ENA)
	cmd_seq	C_PERCENT_CCBS_ENA
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_D_VOICE)
	cmd_seq	C_D_VOICE
(4) MNCC_SETUP_REQ	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE

	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(6) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(7) MNCC_CALL_PROCEED_IND	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(8) MNCC_PROGRESS_IND	ti	NUM_0
<A>	progress_desc	PROG_NOT_PRES
	progress_desc	PROG_INBAND_AVAIL
<C>	progress_desc	PROG_NO_END_TO_END_PLMN
<D>	progress_desc	PROG_DEST_NON_PLMN
<E>	progress_desc	PROG_ORIGIN_NON_PLMN
(9) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	DIAG_CCBS_POSSIBLE
	progress_desc	PROG_NOT_PRES
(10) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(11) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CCBS_PSSBL)
	cmd_seq	M_PERCENT_CCBS_PSSBL
(12) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_BUSY)
	cmd_seq	M_BUSY

History: 27.03.00 AK Initial

4.19.2 ACI301: Call release with CCBS possible, user rejects

Description:

The CCBS possibility is rejected by the user, call will be released.

Variants: <A>....

Preamble:

<A>ACI300A
ACI300B

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: ATH) *=====>*	 	
(2)	 	MNCC_RELEASE_REQ *=====>*	
(3)	 	MNCC_RELEASE_CNF *<=====*	
(4)	ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_H) C_H
(2) MNCC_RELEASE_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR A_FAC_EMPTY NOT_USED
(3) MNCC_RELEASE_CNF	ti cause	NUM_0 NOT_PRESENT_8BIT
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 31.03.00 AK Initial

4.19.3 ACI302: Call release with CCBS possible, timeout by the network.

Description:

The CCBS possibility is timed out by the network, call will be released.

Variants: <A>....

Preamble:

<A>ACI300A
ACI300B

APL	ACI	PS
(1)	MNCC_RELEASE_IND	
	* <=====*	
(2)	ACI_CMD_IND	
	(msg: %CCBS: ...)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_USER_BUSY
(2) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CCBS_PSSBL_TMO) cmd_seq	M_PERCENT_CCBS_PSSBL_TMO

History: 31.03.00 AK Initial

4.19.4 ACI303: Call release with CCBS possible, user accepts

Description:

The CCBS possibility is accepted by the user, call will be released with CCBS activate registration facility send to the network.

Variants: <A>....

Preamble:

<A>ACI300A
ACI300B

APL	ACI	PS
(1)	ACI_CMD_REQ	
	(cmd: AT+CHLD=5)	
	* =====>*	
(2)	MNCC_RELEASE_REQ	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_5) C_PLUS_CHLD_5
(2) MNCC_RELEASE_REQ	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR

fac_inf A_FAC_CCBS
 ss_version SS_VERSION_3

History: 31.03.00 AK Initial

4.19.5 ACI304: Successful registration of CCBS.

Description:

The network send a positive result for the CCBS activation request

Variants: <A>...

Preamble:

<A>ACI303A
 ACI303B

APL	ACI	PS
(1)	MNCC_FACILITY_IND	
	* <=====*	
(2)	MNCC_RELEASE_CNF	
	* <=====*	
(3)	ACI_CMD_IND	
	(msg: %CCBS: ...)	
	* <=====*	
(4)	ACI_CMD_IND	
	(msg: OK ...)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_CCBS_RES
(2) MNCC_RELEASE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_NO_NET_CAUSE
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CCBS_REG_V)
	cmd_seq	M_PERCENT_CCBS_REG_V
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 31.03.00 AK Initial

4.19.6 ACI305: Unsuccessful registration of CCBS.

Description:

The network send a negative result for the CCBS activation request.

Variants: <A>...

Preamble:

<A>ACI303A
ACI303B

	APL	ACI	PS
(1)		MNCC_FACILITY_IND	
		* <=====*	
(2)		MNCC_RELEASE_CNF	
		* <=====*	
(3)	ACI_CMD_IND		
	(msg: ERROR ...)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(1) MNCC_FACILITY_IND	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_CCBS_ERR
(2) MNCC_RELEASE_CNF	ti	NUM_0
	cause	MNCC_CAUSE_NO_NET_CAUSE
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR

History: 04.04.00 AK Initial

4.19.7 ACI306: CC prompts for TI

Description:

The network starts to establish a recall. CC asks for a valid TI for the recall transaction

Variants: <A>...

Preamble:

<A>ACI304A
ACI050A

APL	ACI	PS
(1)	MNCC_PROMPT_IND	
	* <=====*	
(2)	MNCC_PROMPT_RSP	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_PROMPT_IND		
(2) MNCC_PROMPT_RSP		
<A>	ti	NUM_0
	ti	NUM_1

History: 04.04.00 AK Initial

4.19.8 ACI307: Network stops recall attempt before the user indication

Description:

The network stops the recall establishment for the recall. No indication was given to the user. The used TI is returned to ACI. To check this, another prompt request follows which should have the same TI.

Preamble:

ACI306A

APL	ACI	PS
(1)	MNCC_RELEASE_IND	
	* <=====*	
(2)	MNCC_PROMPT_IND	
	* <=====*	
(3)	MNCC_PROMPT_RSP	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(2) MNCC_PROMPT_IND		
(3) MNCC_PROMPT_RSP	ti	NUM_0

History: 04.04.00 AK Initial

4.19.9 ACI308: CCBS recall

Description: The network initiates a CCBS recall.

Variants: <A>...

Preamble:
 <A>ACI306A
 ACI306B

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%CCBS=1) *=====>*		
(2) ACI_CMD_IND (msg: OK) *<=====*		
(3) 	MNCC_RECALL_IND *<=====*	
(4) 	MNCC_FACILITY_IND *<=====*	
(5) ACI_CMD_IND (msg: %CCBS: ...) *<=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CCBS_ENA)	
	cmd_seq	C_PERCENT_CCBS_ENA
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) MNCC_RECALL_IND <A> 	ti	NUM_0
	ti	NUM_1
	ri	RI_CIRCULAR
	bcpara	S_BS_VOICE
	bcpara2	S_BS_FAX
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	rcl_type	RCL_CCBS
(4) MNCC_FACILITY_IND <A> 	ti	NUM_0
	ti	NUM_1

	fac_context	NOT_USED
	fac_inf	A_FAC_NTFY_CCBS
(5) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CCBS_RECALL)	
	cmd_seq	M_PERCENT_CCBS_RECALL
History:	04.04.00	AK Initial

4.19.10 ACI309: User reject CCBS recall

Description: The network initiated CCBS recall. is rejected by the user.

Preamble: ACI308A

Variants: <A>....

	APL	ACI	PS
(1)	ACI_CMD_REQ (msg: ATH,+CHLD=0 ...)		
	=====>		
(2)		MNCC_REJECT_REQ	
		=====>	
(3)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_H)
	cmd_len	NUM_ELEMENTS(C_PLUS_CHLD_0)
<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHLD_0
(2) MNCC_REJECT_REQ	ti	NUM_0
<A>	cause	MNCC_CAUSE_CALL_REJECT
	cause	MNCC_CAUSE_USER_BUSY
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 04.04.00 AK Initial

4.19.11 ACI310: User does not respond to recall attempt within time

Description:

The network initiated CCBS recall. is not answered by the user within the desired time.

Preamble:

```

ACI308A
      APL                      ACI                      PS
      |                        |                        |
(1)  |                        | MNCC_RELEASE_IND      |
      |                        | * <===== *      |
(3)  |      ACI_CMD_IND      |                        |
      |      (msg: &CCBS: ...) |                        |
      | * <===== *          |                        |
      |                        |                        |
  
```

Parametrization:

Primitive	Parameter	Value
(1) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_MS_TIMER
(2) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CCBS_RCL_TMO)	
	cmd_seq	M_PERCENT_CCBS_RCL_TMO

(4) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_0 PROG_NOT_PRES RI_NOT_PRES S_BS_VOICE S_BS_FAX
(5) MNCC_PROGRESS_IND	ti progress_desc	NUM_0 PROG_NOT_PRES
(6) MNCC_ALERT_IND	ti progress_desc	NUM_0 PROG_NOT_PRES
(7) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_0 FAC_IN_ALERT S_FAC_AOC
(8) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(9) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_0 MNCC_CAUSE_SUCCESS PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 04.04.00 AK Initial

4.19.13 ACI312: User accepts CCBS recall, active has to be put on hold first

Description:

The network initiated CCBS recall. is accepted by the user. The active call will be put on hold prior to the recall setup.

Preamble:

ACI308B		ACI	PS
APL			
(1)	ACI_CMD_REQ (msg: AT+CHLD=2)		
	=====>		
(2)		MNCC_HOLD_REQ	
		=====>	
(3)		MNCC_HOLD_CNF	
		<=====	
(4)		MNCC_SETUP_REQ	
		=====>	
(5)		MNCC_CALL_PROCEED_IND	
		<=====	
(6)		MNCC_PROGRESS_IND	
		<=====	
(7)		MNCC_ALERT_IND	
		<=====	
(8)		MNCC_FACILITY_IND	
		<=====	
(9)		MNCC_SYNC_IND	
		<=====	
(10)		MNCC_SETUP_CNF	
		<=====	
(11)	ACI_CMD_IND (msg: +COLP: ...)		
	<=====		
(12)	ACI_CMD_IND (msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_2) C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ	ti	NUM_0
(3) MNCC_HOLD_CNF	ti cause	NUM_0 MNCC_CAUSE_HOLD_SUCCESS

(4) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_1 PRIO_NORM_CALL RI_CIRCULAR S_BS_VOICE S_BS_FAX S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP A_FAC_EMPTY
(5) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_1 PROG_NOT_PRES RI_NOT_PRES S_BS_VOICE S_BS_FAX
(6) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(7) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(8) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_1 FAC_IN_ALERT S_FAC_AOC
(9) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(10) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_1 MNCC_CAUSE_SUCCESS PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NUM) cmd_seq	M_PLUS_COLP_NUM
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 04.04.00 AK Initial

4.19.14 ACI313: User accepts CCBS recall, active has to be cleared first

Description:

The network initiated CCBS recall. is accepted by the user. The active call will be cleared prior to the recall setup.

Preamble:

	ACI308B		
	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(msg: AT+CHLD=1)		
	=====>		
(2)		SIM_SYNC_REQ	
		=====>	
(3)		MNCC_DISCONNECT_REQ	
		=====>	
(4)		MNCC_RELEASE_IND	
		<=====	
(5)		MNCC_SETUP_REQ	
		=====>	
(6)		SIM_SYNC_REQ	
		=====>	
(7)		MNCC_CALL_PROCEED_IND	
		<=====	
(8)		MNCC_PROGRESS_IND	
		<=====	
(9)		MNCC_ALERT_IND	
		<=====	
(10)		MNCC_FACILITY_IND	
		<=====	
(11)		MNCC_SYNC_IND	
		<=====	
(12)		MNCC_SETUP_CNF	
		<=====	
(13)			
	ACI_CMD_IND		
	(msg: +COLP: ...)		
	<=====		
(14)			
	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CHLD_1) C_PLUS_CHLD_1
(2)	SIM_SYNC_REQ	synccs	SYNC_STOP_CALL

(3) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(4) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_NO_NET_CAUSE
(5) MNCC_SETUP_REQ	ti prio ri bcpara bcpara2 called_party called_party_sub clir_sup fac_inf	NUM_1 PRIO_NORM_CALL RI_CIRCULAR S_BS_VOICE S_BS_FAX S_CLD_PARTY S_CLD_PARTY_SUB CLR_SUP A_FAC_EMPTY
(6) SIM_SYNC_REQ	synccs	SYNC_START_CALL
(7) MNCC_CALL_PROCEED_IND	ti progress_desc ri bcpara bcpara2	NUM_1 PROG_NOT_PRES RI_NOT_PRES S_BS_VOICE S_BS_FAX
(8) MNCC_PROGRESS_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(9) MNCC_ALERT_IND	ti progress_desc	NUM_1 PROG_NOT_PRES
(10) MNCC_FACILITY_IND	ti fac_context fac_inf	NUM_1 FAC_IN_ALERT S_FAC_AOC
(11) MNCC_SYNC_IND	ti cause chm	NOT_PRESENT_8BIT MNCC_CAUSE_CHANNEL_SYNC S_CHN_SPEECH
(12) MNCC_SETUP_CNF	ti cause progress_desc connected_number connected_number_sub	NUM_1 MNCC_CAUSE_SUCCESS PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_COLP_NUM) cmd_seq	M_PLUS_COLP_NUM

(14) ACI_CMD_IND

cmd_len NUM_ELEMENTS(M_OK)
cmd_seq M_OK

History: 04.04.00 AK Initial

4.20 Alternate Line Service Tests (ACI400-ACI410)

4.20.1 ACI400: set and query ALS

Description:

Set and query alternate line service.

Variants: <A>...

Preamble:

ACI001

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%ALS=)	
	=====>	
(2)	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)	ACI_CMD_REQ	
	(cmd: AT%ALS=)	
	=====>	
(4)	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_ALS_OFF)
<A>	cmd_seq	C_PERCENT_ALS_OFF
	cmd_seq	C_PERCENT_ALS_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_ALS_QUERY)
	cmd_seq	C_PERCENT_ALS_QUERY
(4) ACI_CMD_IND	cmd_len	

		NUM_ELEMENTS(M_PERCENT_ALS_OFF)
<A>	cmd_seq	M_PERCENT_ALS_OFF
	cmd_seq	M_PERCENT_ALS_ON

History: 22.12.98 AK Initial

4.20.2 ACI401: Single Voice Call with ALS selection

Description:

Mobile originated voice call establishment

Variants: <A>...

Preamble:

<A>ACI050A
ACI050F

	APL		ACI		PS
(1)					
		ACI_CMD_REQ			
		(cmd: AT%ALS=)			
		=====>			
(2)		ACI_CMD_IND			
		(msg: OK)			
		<=====			

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_ALS_QUERY)	
	cmd_seq	C_PERCENT_ALS_QUERY
(2) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_ALS_OFF)	
<A>	cmd_seq	M_PERCENT_ALS_OFF
	cmd_seq	M_PERCENT_ALS_ON

History: 22.12.98 AK Initial

4.20.3 ACI402: Second Voice Call with ALS selection

Description:

Second mobile originated voice call establishment during an active MOC.

A: first call ALS=0; second call ALS=0

B: first call ALS=1; second call ALS=1

C: first call ALS=0; second call ALS=1

D: first call ALS=1; second call ALS=0

Variants: <A>...<D>

Preamble:

<A>ACI051A
 ACI051B
 <C>ACI051C
 <D>ACI051D

APL	ACI	PS
(1)		
ACI_CMD_REQ		
(cmd: AT%ALS=)		
=====>		
(2)		
ACI_CMD_IND		
(msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_ALS_QUERY)
	cmd_seq	C_PERCENT_ALS_QUERY
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_ALS_OFF)
<A>	cmd_seq	M_PERCENT_ALS_OFF
	cmd_seq	M_PERCENT_ALS_ON
<C>	cmd_seq	M_PERCENT_ALS_ON
<D>	cmd_seq	M_PERCENT_ALS_OFF

History: 22.12.98 AK Initial

4.20.4 ACI403: ALS test test command

Description: Test alternate line service.

Variant A: for every SIM-Card

Variant B: for E-Plus SIM-Card

Variants: <A>....

Preamble:

```

    <A>ACI001
    <B>ACI024C

    APL                               ACI                               PS
    |                                 |                                 |
(1) |          ACI_CMD_REQ           |                                 |
    |          (cmd: %ALS=?)         |                                 |
    | *=====> *                    |                                 |
(2) |          ACI_CMD_IND           |                                 |
    |          (msg: +ALS: 3)        |                                 |
    | *<===== *                    |                                 |
(3) |          ACI_CMD_IND           |                                 |
    |          (msg: OK)             |                                 |
    | *<===== *                    |                                 |
    |                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_ALS_T1)
	cmd_seq	C_PERCENT_ALS_T1
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_ALS_T1)
	cmd_seq	M_PERCENT_ALS_T1
	cmd_len	NUM_ELEMENTS(M_OK)
(6) ACI_CMD_IND	cmd_seq	M_OK

History: 25.04.02 DPI Initial

/* ALL 500 Tests: NOT TO BE TESTED YET !!!! CPHS (ACI500-ACI550)

4.21 ALL 500 Tests: NOT TO BE TESTED YET !!!! CPHS (ACI500-ACI550)

4.21.1 ACI500: %CPHS - start & refresh, start reading fields

Description:

Start and refresh CPHS module, start reading fields

Variants: <A>...

Preamble:

```

    <A>ACI024A
    <B>ACI501A

```

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPHS=...)	
	=====>	
(2)		
	SIM_READ_REQ	
	=====>	
(3)		
	SIM_READ_CNF	
	<=====	
(4)		
	SIM_READ_REQ	
	=====>	
(5)		
	SIM_READ_CNF	
	<=====	
(6)		
	SIM_READ_REQ	
	=====>	
(7)		
	SIM_READ_CNF	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPHS_START)
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPHS_REFRESH)
<A>	cmd_seq	C_PERCENT_CPHS_START
	cmd_seq	C_PERCENT_CPHS_REFRESH
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CFF
	length	NOT_PRESENT_8BIT
	max_length	CPHS_CFU_LEN
(3) SIM_READ_CNF	datafield	SIM_CPHS_CFF
	cause	SIM_NO_ERROR
	length	CPHS_CFU_LEN
	trans_data	A_CPHS_CFU_FIELD
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_VMW
	length	NOT_PRESENT_8BIT
	max_length	CPHS_VVM_LEN
(5) SIM_READ_CNF	datafield	SIM_CPHS_VMW
	cause	SIM_NO_ERROR
	length	CPHS_VVM_LEN
	trans_data	A_CPHS_VVM_FIELD

(6) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_CPHS_ONSTR
length	NOT_PRESENT_8BIT
max_length	MAX_CPHS_OPNL

(7) SIM_READ_CNF

datafield	SIM_CPHS_ONSTR
cause	SIM_NO_ERROR
length	CPHS_OPN_LEN
trans_data	A_CPHS_OPN_FIELD

History: 13.11.2002 KGT Initial

4.21.2 ACI501: %CPHS - start & refresh, continue with optional fields

Description:

Start CPHS module.

- <A> read of SIM_MSISDN (ALS names) fails
- read of SIM_CPHS_CSP (Customer service profile), SIM_CPHS_ONSHF (Operator name shortform) and SIM_MSISDN (ALS names) fails

Variants: <A>...

Preamble:

ACI500A

APL	ACI	PS
(1)	SIM_READ_REQ	
	=====>	
(2)	SIM_READ_CNF	
	<=====	
(3)	SIM_READ_REQ	
	=====>	
(4)	SIM_READ_CNF	
	<=====	
(5)	SIM_READ_REQ	
	=====>	
(6)	SIM_READ_CNF	
	<=====	
(7)	SIM_READ_RECORD_REQ	
	=====>	
(8)	SIM_READ_RECORD_CNF	
	<=====	
(9)	SIM_READ_RECORD_REQ	
	=====>	
(10)	SIM_READ_RECORD_CNF	
	<=====	
(11)	SIM_READ_RECORD_REQ	
	=====>	
(12)	SIM_READ_RECORD_CNF	
	<=====	
(13)	SIM_READ_RECORD_REQ	
	=====>	
(14)	SIM_READ_RECORD_CNF	
	<=====	
(15)	SIM_READ_RECORD_REQ	
	=====>	
(16)	SIM_READ_RECORD_CNF	
	<=====	
(17)	SIM_READ_RECORD_REQ	
	=====>	
(18)	SIM_READ_RECORD_CNF	
	<=====	
(19)	SIM_READ_RECORD_REQ	
	=====>	
(20)	SIM_READ_RECORD_CNF	
	<=====	
(21)	SIM_READ_RECORD_REQ	
	=====>	
(22)	SIM_READ_RECORD_CNF	
	<=====	
(23)	SIM_READ_RECORD_REQ	
	=====>	
(24)	SIM_READ_RECORD_CNF	
	<=====	
(25)	SIM_READ_RECORD_REQ	
	=====>	
(26)	SIM_READ_RECORD_CNF	
	<=====	
(27)	SIM_READ_RECORD_REQ	
	=====>	

```

(28) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(29) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(30) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(31) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(32) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(33) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(34) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(35) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(36) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(37) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(38) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(39) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(40) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(41) | ACI_CMD_IND                         |                       |
      |   (msg: OK)                       |                       |
      | * <===== *                       |                       |
      |                                     |                       |
  
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(2) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	cause	SIM_NO_ERROR
	length	CPHS_INF_LEN
	<A>	A_CPHS_INF_ALL_FIELD
		A_CPHS_INF_FIELD
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CSP
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_CSP
(4) SIM_READ_CNF	datafield	SIM_CPHS_CSP

<A>	cause	SIM_NO_ERROR
	cause	SIM_CAUSE_EF_INVALID
<A>	length	CPHS_CSP_LEN
	length	NUM_0
	trans_data	A_CPHS_CSP_FIELD
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_ONSHF
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_OPNS
(6) SIM_READ_CNF		
	datafield	SIM_CPHS_ONSHF
<A>	cause	SIM_NO_ERROR
	cause	SIM_CAUSE_EF_INVALID
<A>	length	CPHS_OPNS_LEN
	length	NUM_0
	trans_data	A_CPHS_OPNS_FIELD
(7) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(8) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_MBXN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_4
<A>	length	A_CPHS_MB1_REC1_LEN
	length	A_CPHS_MB2_REC1_LEN
<A>	linear_data	A_CPHS_MB1_REC1
	linear_data	A_CPHS_MB2_REC1
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_2
	length	NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_MBXN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_4
<A>	length	A_CPHS_MB1_REC2_LEN
	length	A_CPHS_MB2_REC2_LEN
<A>	linear_data	A_CPHS_MB1_REC2
	linear_data	A_CPHS_MB2_REC2
(11) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_3
	length	NOT_PRESENT_8BIT
(12) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_MBXN
	cause	SIM_NO_ERROR
	record	NUM_3

	max_record	NUM_4
<A>	length	A_CPHS_MB1_REC3_LEN
	length	A_CPHS_MB2_REC3_LEN
<A>	linear_data	A_CPHS_MB1_REC3
	linear_data	A_CPHS_MB2_REC3
(13) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_4
	length	NOT_PRESENT_8BIT
(14) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_MBXN
	cause	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_4
<A>	length	A_CPHS_MB1_REC4_LEN
	length	A_CPHS_MB2_REC4_LEN
<A>	linear_data	A_CPHS_MB1_REC4
	linear_data	A_CPHS_MB2_REC4
(15) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(16) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_12
	length	A_CPHS_INUM_REC1_LEN
	linear_data	A_CPHS_INUM_REC1
(17) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_2
	length	NOT_PRESENT_8BIT
(18) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_12
	length	A_CPHS_INUM_REC2_LEN
	linear_data	A_CPHS_INUM_REC2
(19) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_3
	length	NOT_PRESENT_8BIT
(20) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_12

	length	A_CPHS_INUM_REC3_LEN
	linear_data	A_CPHS_INUM_REC3
(21) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_4
	length	NOT_PRESENT_8BIT
(22) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_12
	length	A_CPHS_INUM_REC4_LEN
	linear_data	A_CPHS_INUM_REC4
(23) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_5
	length	NOT_PRESENT_8BIT
(24) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_5
	max_record	NUM_12
	length	A_CPHS_INUM_REC5_LEN
	linear_data	A_CPHS_INUM_REC5
(25) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_6
	length	NOT_PRESENT_8BIT
(26) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_6
	max_record	NUM_12
	length	A_CPHS_INUM_REC6_LEN
	linear_data	A_CPHS_INUM_REC6
(27) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_7
	length	NOT_PRESENT_8BIT
(28) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_7
	max_record	NUM_12
	length	A_CPHS_INUM_REC7_LEN
	linear_data	A_CPHS_INUM_REC7

(29) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_8 NOT_PRESENT_8BIT
(30) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_8 NUM_12 A_CPHS_INUM_REC8_LEN A_CPHS_INUM_REC8
(31) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_9 NOT_PRESENT_8BIT
(32) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_9 NUM_12 A_CPHS_INUM_REC9_LEN A_CPHS_INUM_REC9
(33) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_10 NOT_PRESENT_8BIT
(34) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_10 NUM_12 A_CPHS_INUM_REC10_LEN A_CPHS_INUM_REC10
(35) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_11 NOT_PRESENT_8BIT
(36) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_11 NUM_12 A_CPHS_INUM_REC11_LEN A_CPHS_INUM_REC11
(37) SIM_READ_RECORD_REQ	source datafield	SRC_MMI SIM_CPHS_INFN

	record length	NUM_12 NOT_PRESENT_8BIT
(38) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_12 NUM_12 A_CPHS_INUM_REC12_LEN A_CPHS_INUM_REC12
(39) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_1 NOT_PRESENT_8BIT
(40) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_CAUSE_EF_INVALID NUM_1 NUM_0 NUM_0 A_CPHS_INUM_REC12
(41) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 13.11.2002 KGT Initial

4.21.3 ACI502: %CPHS - start & refresh, continue with optional fields, MBXN fields do not exist

Description:

Start CPHS module.

- <A> read of SIM_MSISDN (ALS names) and SIM_CPHS_MBXN (Mailbox numbers) fails
- read of SIM_CPHS_CSP (Customer service profile), SIM_CPHS_ONSHF (Operator name shortform), SIM_MSISDN (ALS names) and SIM_CPHS_MBXN (Mailbox numbers) fails

Variants: <A>...

Preamble:

ACI500A

APL	ACI	PS
(1)	SIM_READ_REQ	
(2)	SIM_READ_CNF	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	SIM_READ_RECORD_REQ	
(8)	SIM_READ_RECORD_CNF	
(9)	SIM_READ_RECORD_REQ	
(10)	SIM_READ_RECORD_CNF	
(11)	SIM_READ_RECORD_REQ	
(12)	SIM_READ_RECORD_CNF	
(13)	SIM_READ_RECORD_REQ	
(14)	SIM_READ_RECORD_CNF	
(15)	SIM_READ_RECORD_REQ	
(16)	SIM_READ_RECORD_CNF	
(17)	SIM_READ_RECORD_REQ	
(18)	SIM_READ_RECORD_CNF	
(19)	SIM_READ_RECORD_REQ	
(20)	SIM_READ_RECORD_CNF	
(21)	SIM_READ_RECORD_REQ	
(22)	SIM_READ_RECORD_CNF	
(23)	SIM_READ_RECORD_REQ	
(24)	SIM_READ_RECORD_CNF	
(25)	SIM_READ_RECORD_REQ	
(26)	SIM_READ_RECORD_CNF	
(27)	SIM_READ_RECORD_REQ	

```

(28) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(29) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(30) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(31) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(32) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(33) |                                     | SIM_READ_RECORD_REQ |
      |                                     * =====> *
(34) |                                     | SIM_READ_RECORD_CNF |
      |                                     * <===== *
(35) | ACI_CMD_IND                         |                       |
      | (msg: OK)                         |                       |
      | * <===== *                       |                       |
      |                                     |                       |
  
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(2) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	cause	SIM_NO_ERROR
	length	CPHS_INF_LEN
	<A> trans_data	A_CPHS_INF_ALL_FIELD
	 trans_data	A_CPHS_INF_FIELD
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CSP
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_CSP
(4) SIM_READ_CNF	datafield	SIM_CPHS_CSP
	<A> cause	SIM_NO_ERROR
	 cause	SIM_CAUSE_EF_INVALID
	<A> length	CPHS_CSP_LEN
	 length trans_data	NUM_0 A_CPHS_CSP_FIELD
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_ONSHF
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_OPNS

(6) SIM_READ_CNF		
<A>	datafield	SIM_CPHS_ONSHF
	cause	SIM_NO_ERROR
<A>	cause	SIM_CAUSE_EF_INVALID
	length	CPHS_OPNS_LEN
	length	NUM_0
	trans_data	A_CPHS_OPNS_FIELD
(7) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(8) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_MBXN
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_0
	length	NUM_0
	linear_data	A_CPHS_MB1_REC1
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_12
	length	A_CPHS_INUM_REC1_LEN
	linear_data	A_CPHS_INUM_REC1
(11) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_2
	length	NOT_PRESENT_8BIT
(12) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_12
	length	A_CPHS_INUM_REC2_LEN
	linear_data	A_CPHS_INUM_REC2
(13) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_3
	length	NOT_PRESENT_8BIT
(14) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_3

	max_record	NUM_12
	length	A_CPHS_INUM_REC3_LEN
	linear_data	A_CPHS_INUM_REC3
(15) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_4
	length	NOT_PRESENT_8BIT
(16) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_12
	length	A_CPHS_INUM_REC4_LEN
	linear_data	A_CPHS_INUM_REC4
(17) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_5
	length	NOT_PRESENT_8BIT
(18) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_5
	max_record	NUM_12
	length	A_CPHS_INUM_REC5_LEN
	linear_data	A_CPHS_INUM_REC5
(19) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_6
	length	NOT_PRESENT_8BIT
(20) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_6
	max_record	NUM_12
	length	A_CPHS_INUM_REC6_LEN
	linear_data	A_CPHS_INUM_REC6
(21) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_INFN
	record	NUM_7
	length	NOT_PRESENT_8BIT
(22) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_7
	max_record	NUM_12
	length	A_CPHS_INUM_REC7_LEN
	linear_data	A_CPHS_INUM_REC7

(23) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_8 NOT_PRESENT_8BIT
(24) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_8 NUM_12 A_CPHS_INUM_REC8_LEN A_CPHS_INUM_REC8
(25) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_9 NOT_PRESENT_8BIT
(26) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_9 NUM_12 A_CPHS_INUM_REC9_LEN A_CPHS_INUM_REC9
(27) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_10 NOT_PRESENT_8BIT
(28) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_10 NUM_12 A_CPHS_INUM_REC10_LEN A_CPHS_INUM_REC10
(29) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_11 NOT_PRESENT_8BIT
(30) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_NO_ERROR NUM_11 NUM_12 A_CPHS_INUM_REC11_LEN A_CPHS_INUM_REC11
(31) SIM_READ_RECORD_REQ	source datafield	SRC_MMI SIM_CPHS_INFN

	record	NUM_12
	length	NOT_PRESENT_8BIT
(32) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INFN
	cause	SIM_NO_ERROR
	record	NUM_12
	max_record	NUM_12
	length	A_CPHS_INUM_REC12_LEN
	linear_data	A_CPHS_INUM_REC12
(33) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(34) SIM_READ_RECORD_CNF		
	datafield	SIM_MSISDN
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_0
	length	NUM_0
	linear_data	A_CPHS_INUM_REC12
(35) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 17.04.2003 TLU Initial

4.21.4 ACI503: %CPHS - start & refresh, continue with optional fields

Description:

Start CPHS module.

- <A> read of SIM_CPHS_INFN (Info. Numbers) and SIM_CPHS_INF2 (Info. Numbers) fails
- read of SIM_CPHS_CSP (Customer service profile), SIM_CPHS_ONSHF (Operator name shortform), SIM_CPHS_INFN (Info. Numbers) and SIM_CPHS_INF2 (Info. Numbers) fails

Variants: <A>...

Preamble:

ACI500A

APL	ACI	PS
(1)	SIM_READ_REQ	
(2)	SIM_READ_CNF	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	SIM_READ_RECORD_REQ	
(8)	SIM_READ_RECORD_CNF	
(9)	SIM_READ_RECORD_REQ	
(10)	SIM_READ_RECORD_CNF	
(11)	SIM_READ_RECORD_REQ	
(12)	SIM_READ_RECORD_CNF	
(13)	SIM_READ_RECORD_REQ	
(14)	SIM_READ_RECORD_CNF	
(15)	SIM_READ_RECORD_REQ	
(16)	SIM_READ_RECORD_CNF	
(17)	SIM_READ_RECORD_REQ	
(18)	SIM_READ_RECORD_CNF	
(19)	SIM_READ_RECORD_REQ	
(20)	SIM_READ_RECORD_CNF	
(21)	SIM_READ_RECORD_REQ	
(22)	SIM_READ_RECORD_CNF	
(23)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(2) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	cause	SIM_NO_ERROR
	length	CPHS_INF_LEN
<A>	trans_data	A_CPHS_INF_ALL_FIELD
	trans_data	A_CPHS_INF_FIELD
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CSP
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_CSP
(4) SIM_READ_CNF	datafield	SIM_CPHS_CSP
<A>	cause	SIM_NO_ERROR
	cause	SIM_CAUSE_EF_INVALID
<A>	length	CPHS_CSP_LEN
	length	NUM_0
	trans_data	A_CPHS_CSP_FIELD
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_ONSHF
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_OPNS
(6) SIM_READ_CNF	datafield	SIM_CPHS_ONSHF
<A>	cause	SIM_NO_ERROR
	cause	SIM_CAUSE_EF_INVALID
<A>	length	CPHS_OPNS_LEN
	length	NUM_0
	trans_data	A_CPHS_OPNS_FIELD
(7) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(8) SIM_READ_RECORD_CNF	datafield	SIM_CPHS_MBXN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_4
<A>	length	A_CPHS_MB1_REC1_LEN
	length	A_CPHS_MB2_REC1_LEN
<A>	linear_data	A_CPHS_MB1_REC1
	linear_data	A_CPHS_MB2_REC1

(9) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_MBXN NUM_2 NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF	datafield cause record max_record <A> <A> 	SIM_CPHS_MBXN SIM_NO_ERROR NUM_2 NUM_4 A_CPHS_MB1_REC2_LEN A_CPHS_MB2_REC2_LEN A_CPHS_MB1_REC2 A_CPHS_MB2_REC2
(11) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_MBXN NUM_3 NOT_PRESENT_8BIT
(12) SIM_READ_RECORD_CNF	datafield cause record max_record <A> <A> 	SIM_CPHS_MBXN SIM_NO_ERROR NUM_3 NUM_4 A_CPHS_MB1_REC3_LEN A_CPHS_MB2_REC3_LEN A_CPHS_MB1_REC3 A_CPHS_MB2_REC3
(13) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_MBXN NUM_4 NOT_PRESENT_8BIT
(14) SIM_READ_RECORD_CNF	datafield cause record max_record <A> <A> 	SIM_CPHS_MBXN SIM_NO_ERROR NUM_4 NUM_4 A_CPHS_MB1_REC4_LEN A_CPHS_MB2_REC4_LEN A_CPHS_MB1_REC4 A_CPHS_MB2_REC4
(15) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN NUM_1 NOT_PRESENT_8BIT
(16) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN SIM_CAUSE_EF_INVALID NUM_1 NUM_0 NUM_0 A_CPHS_INUM_REC1

(17) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CPHS_INFN2 NUM_1 NOT_PRESENT_8BIT
(18) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CPHS_INFN2 SIM_CAUSE_EF_INVALID NUM_1 NUM_0 NUM_0 A_CPHS_INUM_REC2
(19) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_1 NOT_PRESENT_8BIT
(20) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_1 NUM_2 LDATA_MSISDN DATA_MSISDN
(21) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_2 NOT_PRESENT_8BIT
(22) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_2 NUM_2 LDATA_MSISDN DATA_MSISDN2
(23) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.04.2003 TLU Initial

4.21.5 ACI504: %CPHS - Stop

Description: Stop CPHS module.

Preamble: ACI501A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPHS=0)	
	* =====>*	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPHS_STOP)	
	cmd_seq	C_PERCENT_CPHS_STOP
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.11.2002 KGT Initial

4.21.6 ACI505: %CPHS - Query

Description:

Query Initialization state of CPHS module.

A: CPHS is initialized

B: CPHS is deinitialized

C: CPHS initialization failed

Variants: <A>...<C>

Preamble:

<A>ACI501A

ACI504

<C>ACI553

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPHS?)	
	* =====>*	
(2)		
	ACI_CMD_IND	
	(msg: %CPHS:...)	
	* <=====*	
(3)		
	ACI_CMD_IND	
	(msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPHS_QUERY)	
	cmd_seq	C_PERCENT_CPHS_QUERY
(2) ACI_CMD_IND		
<A>	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPHS_ON)	
	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPHS_OFF)	
<C>	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPHS_OFF)	
<A>	cmd_seq	M_PERCENT_CPHS_ON
	cmd_seq	M_PERCENT_CPHS_OFF
<C>	cmd_seq	M_PERCENT_CPHS_OFF
(3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.11.2002 KGT Initial

4.21.7 ACI506: %CPHS - Test

Description:

Test command for Initialization state of CPHS module.

Preamble:

ACI501A

APL	ACI	PS
(1)		
ACI_CMD_REQ		
(cmd: AT%CPHS=?)		
* =====> *		
(2)		
ACI_CMD_IND		
(msg: %CPHS:...)		
* <===== *		
(3)		
ACI_CMD_IND		
(msg: OK)		
* <===== *		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ

```
cmd_src          CMD_SRC_EXT
cmd_len
NUM_ELEMENTS(C_PERCENT_CPHS_TEST)
cmd_seq          C_PERCENT_CPHS_TEST
```

(2) ACI_CMD_IND

```
cmd_len
NUM_ELEMENTS(M_PERCENT_CPHS_TEST)
cmd_seq          M_PERCENT_CPHS_TEST
```

(3) ACI_CMD_IND

```
cmd_len          NUM_ELEMENTS(M_OK)
cmd_seq          M_OK
```

History: 13.11.2002 KGT Initial

4.21.8 ACI510: %CPOPN - Query

Description:

Query long and short names of operator as stored on the corresponding SIM fields.

Variants: <A>...

Preamble:

```
<A>ACI501A
<B>ACI501B
```

APL	ACI	PS
(1) ACI_CMD_REQ		
(cmd: AT%CPOPN?)		
* =====> *		
(2) ACI_CMD_IND		
(msg: %CPOPN:...)		
* <===== *		
(3) ACI_CMD_IND		
(msg: OK)		
* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPOPN)	
	cmd_seq	C_PERCENT_CPOPN
(2) ACI_CMD_IND		
<A>	cmd_len	

	NUM_ELEMENTS(M_PERCENT_CPOP_N_LS)	
	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPOP_N_L)	
<A>	cmd_seq	M_PERCENT_CPOP_N_LS
	cmd_seq	M_PERCENT_CPOP_N_L
(3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 14.11.2002 KGT Initial

4.21.9 ACI512: %CPROAM - Indication (for GSM)

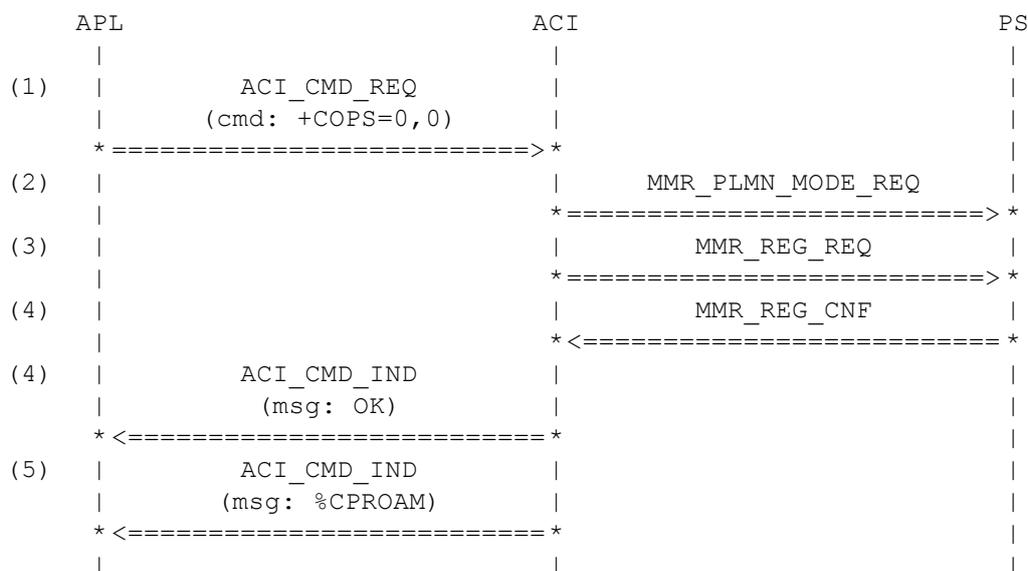
Description:

%CPROAM is an unsolicited indication that will inform the user when the mobile gets in the roaming status.

Variants: <A>...

Preamble:

ACI501A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_COPS_REG)	
	cmd_seq	C_PLUS_COPS_REG
(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO

(3) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(4) MMR_REG_CNF	plmn	S_PLMN_262_01
	lac	NUM_4800
	cid	NUM_1000
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPROAM)
	cmd_seq	M_PERCENT_CPROAM

History: 14.11.2002 KGT Initial

4.21.10 ACI515: %CPVWI - Indication

Description:

% CPVWI is an unsolicited indication send to the user upon receiving a Voice Message Waiting SMS from the network.

<A> for line 1 with indication for set

 for line 2 with indication for set, after line 1 with indication for set received

<C> for line 1 with indication for clear

Variants: <A>...<C>

Preamble:

<A>ACI501A

ACI515A

<C>ACI501A

APL	ACI	PS
(1)	MNSMS_MESSAGE_IND	
	* <===== *	
(1)	SIM_UPDATE_REQ	
	* =====> *	
(2)	SIM_UPDATE_CNF	
	* <===== *	
(2)	ACI_CMD_IND	
	(msg: %CPVWI:...)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	REC_NUM_0

	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
<A>	sms_sdu	DELIVER_01
	sms_sdu	DELIVER_02
<C>	sms_sdu	DELIVER_01_CLEAR
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_VMW
	length	CPHS_VMW_LEN
<A>	trans_data	A_CPHS_VMW_FIELD_LINE1
	trans_data	A_CPHS_VMW_FIELD_L1L2
<C>	trans_data	A_CPHS_VMW_FIELD
(3) SIM_UPDATE_CNF	datafield	SIM_CPHS_VMW
	cause	SIM_NO_ERROR
(1) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1)
	cmd_len	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L2)
<C>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG_L1)
<A>	cmd_seq	M_PERCENT_CPVWI_MSG_L1
	cmd_seq	M_PERCENT_CPVWI_MSG_L2
<C>	cmd_seq	M_PERCENT_CPVWI_NOMSG_L1

History: 14.11.2002 KGT Initial

4.21.11 ACI516: %CPVWI - Clear & Set

Description:

Clear or set current setting for voice waiting message flag for each line.

Variants: <A>...<G>

Preamble:

- <A>ACI515A
- ACI515B
- <C>ACI515B
- <D>ACI516E
- <E>ACI501A
- <F>ACI501A
- <G>ACI501A

APL	ACI	PS
(3)	ACI_CMD_REQ (cmd: AT%CPVWI=0...)	
	=====>	
(4)		SIM_UPDATE_REQ
		=====>
(5)		SIM_UPDATE_CNF
		<=====
(6)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_ALL)
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_ALL)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_L1)
<D>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_L2)
<E>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_SET_ALL)
<F>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_SET_L1)
<G>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_SET_L2)
<A>	cmd_seq	C_PERCENT_CPVWI_CLEAR_ALL
	cmd_seq	C_PERCENT_CPVWI_CLEAR_ALL
<C>	cmd_seq	C_PERCENT_CPVWI_CLEAR_L1
<D>	cmd_seq	C_PERCENT_CPVWI_CLEAR_L2
<E>	cmd_seq	C_PERCENT_CPVWI_SET_ALL
<F>	cmd_seq	C_PERCENT_CPVWI_SET_L1
<G>	cmd_seq	C_PERCENT_CPVWI_SET_L2
(5) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_VMW
	length	CPHS_VMW_LEN
<A>	trans_data	A_CPHS_VMW_FIELD
	trans_data	A_CPHS_VMW_FIELD
<C>	trans_data	A_CPHS_VMW_FIELD_LINE2
<D>	trans_data	A_CPHS_VMW_FIELD_NOLINE2
<E>	trans_data	A_CPHS_VMW_FIELD_ALL
<F>	trans_data	A_CPHS_VMW_FIELD_LINE1
<G>	trans_data	A_CPHS_VMW_FIELD_LINE2
(6) SIM_UPDATE_CNF	datafield	SIM_CPHS_VMW
	cause	SIM_NO_ERROR
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 14.11.2002 KGT Initial

4.21.12 ACI517: %CPVWI - Query

Description:

Query current setting for voice waiting message flag for each line.

Variants: <A>...<J>

Preamble:

- <A>ACI501A
- ACI515A
- <C>ACI515B
- <D>ACI516A
- <E>ACI516B
- <F>ACI516C
- <G>ACI516D
- <H>ACI516E
- <I>ACI516F
- <J>ACI516G

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPVWI=2)	
(2)	ACI_CMD_IND (msg: %CPVWI:...)	
(3)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_QUERY_ALL)
	cmd_seq	C_PERCENT_CPVWI_QUERY_ALL
(2) ACI_CMD_IND	<A>	NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG)
		NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1)
	<C>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1L2)
	<D>	NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG)
	<E>	NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG)
	<F>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L2)
	<G>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1FD)
	<H>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1L2FD)
	<I>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1)
	<J>	NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L2)
	<A>	M_PERCENT_CPVWI_NOMSG

	cmd_seq	M_PERCENT_CPVWM_MSG_L1
<C>	cmd_seq	M_PERCENT_CPVWM_MSG_L1L2
<D>	cmd_seq	M_PERCENT_CPVWM_NOMSG
<E>	cmd_seq	M_PERCENT_CPVWM_NOMSG
<F>	cmd_seq	M_PERCENT_CPVWM_MSG_L2
<G>	cmd_seq	M_PERCENT_CPVWM_MSG_L1FD
<H>	cmd_seq	M_PERCENT_CPVWM_MSG_L1L2FD
<I>	cmd_seq	M_PERCENT_CPVWM_MSG_L1
<J>	cmd_seq	M_PERCENT_CPVWM_MSG_L2
 (3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 14.11.2002 KGT Initial

4.21.13 ACI518: %CPVWI - Test

Description:

Query current setting for voice waiting message flag for each line.

Preamble:

ACI501A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPVWI=?)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: %CPVWI:...)	
	<=====	
(3)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_TEST)
	cmd_seq	C_PERCENT_CPVWI_TEST
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPVWI_TEST)
	cmd_seq	M_PERCENT_CPVWI_TEST
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 14.11.2002 KGT Initial

4.21.14 ACI519: %CPCFU - Clear & Set

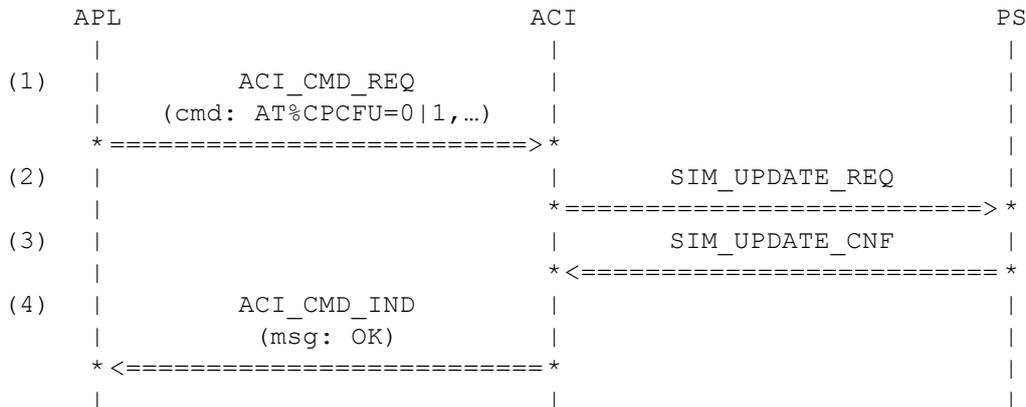
Description:

Clear or set current setting for call forwarding unconditional flag for each line.

Variants: <A>...<F>

Preamble:

- <A>ACI519D
- ACI519D
- <C>ACI519D
- <D>ACI501A
- <E>ACI501A
- <F>ACI501A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
<A>	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_CLEAR_ALL)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_CLEAR_L1)
<D>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_CLEAR_L2)
<E>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_SET_ALL)
<F>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_SET_L1)
<A>	cmd_seq	NUM_ELEMENTS(C_PERCENT_CPCFU_SET_L2)
	cmd_seq	C_PERCENT_CPCFU_CLEAR_ALL
<C>	cmd_seq	C_PERCENT_CPCFU_CLEAR_L1
<D>	cmd_seq	C_PERCENT_CPCFU_CLEAR_L2
<E>	cmd_seq	C_PERCENT_CPCFU_SET_ALL
<F>	cmd_seq	C_PERCENT_CPCFU_SET_L1
<F>	cmd_seq	C_PERCENT_CPCFU_SET_L2
(2) SIM_UPDATE_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CFF
	length	CPHS_CFU_LEN

<A>	trans_data	A_CPHS_CFU_FIELD
	trans_data	A_CPHS_CFU_FIELD_NOLINE1
<C>	trans_data	A_CPHS_CFU_FIELD_NOLINE2
<D>	trans_data	A_CPHS_CFU_FIELD_ALL
<E>	trans_data	A_CPHS_CFU_FIELD_LINE1
<F>	trans_data	A_CPHS_CFU_FIELD_LINE2
(3) SIM_UPDATE_CNF	datafield cause	SIM_CPHS_CFF SIM_NO_ERROR
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 29.04.2003 TLU Initial

4.21.15 ACI520: %CPCFU - Query

Description:

Query current setting for call forwarding unconditional flag for each line.

Variants: <A>...<G>

Preamble:

<A>ACI519A
ACI519B
<C>ACI519C
<D>ACI519D
<E>ACI519E
<F>ACI519F
<G>ACI501A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPCFU=2, ..)	
	* <===== > *	
(2)		
	ACI_CMD_IND	
	(msg: %CPCFU:...)	
	* <===== *	
(3)		
	ACI_CMD_IND	
	(msg: OK)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_QUERY_ALL)
	cmd_seq	C_PERCENT_CPCFU_QUERY_ALL

(2) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_NOFLG)
	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L2FD)
<C>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L1FD)
<D>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L1L2FD)
<E>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L1)
<F>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L2)
<G>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_NOFLG)
<A>	cmd_seq	M_PERCENT_CPCFU_NOFLG
	cmd_seq	M_PERCENT_CPCFU_FLG_L2FD
<C>	cmd_seq	M_PERCENT_CPCFU_FLG_L1FD
<D>	cmd_seq	M_PERCENT_CPCFU_FLG_L1L2FD
<E>	cmd_seq	M_PERCENT_CPCFU_FLG_L1
<F>	cmd_seq	M_PERCENT_CPCFU_FLG_L2
<G>	cmd_seq	M_PERCENT_CPCFU_NOFLG
(3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 29.04.2003 TLU Initial

4.21.16 ACI521: %CPCFU - Test

Description: Test command for for call forwarding unconditional flag.

Preamble: ACI501A

	APL	ACI	PS
(4)	ACI_CMD_REQ (cmd: AT%CPCFU=?)		
	* =====>*		
(5)	ACI_CMD_IND (msg: %CPCFU:...)		
	* <=====*		
(6)	ACI_CMD_IND (msg: OK)		
	* <=====*		

Parametrization:

Primitive	Parameter	Value
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_TEST)
	cmd_seq	C_PERCENT_CPCFU_TEST
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPCFU_TEST)
	cmd_seq	M_PERCENT_CPCFU_TEST

History: 15.11.2002 KGT Initial

4.21.19 ACI527: %CPALS - Query current active line (no call)

Description:

Query the current active line that was set by AT%ALS.

Preamble:

ACI503A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%ALS=1)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	
(3)		
	ACI_CMD_REQ	
	(cmd: AT%CPALS?)	
	=====>	
(4)		
	ACI_CMD_IND	
	(msg: %CPALS:...)	
	<=====	
(5)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_ALS_ON)	
	cmd_seq	C_PERCENT_ALS_ON
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPALS_QUERY)
	cmd_seq	C_PERCENT_CPALS_QUERY
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPALS_L256_SIM)
	cmd_seq	M_PERCENT_CPALS_L256_SIM
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.04.2003 TLU Initial

4.21.20 ACI528: %CPALS - Test

Description:
Test command for ALS

Preamble:
ACI501A

```

APL                                     ACI                                     PS
|                                       |                                       |
(1) |          ACI_CMD_REQ              |                                       |
    |          (cmd: AT%CPALS=?)        |                                       |
    * =====> *                       |                                       |
(2) |          ACI_CMD_IND              |                                       |
    |          (msg: OK)                 |                                       |
    * <===== *                         |                                       |
|                                       |                                       |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPALS_TEST)	
	cmd_seq	C_PERCENT_CPALS_TEST
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.21 ACI530: %CPINF - Query

Description:
Query CPHS information field

Variants: <A>...

Preamble:
<A>ACI501A
ACI501B

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPINF?) * =====> *	 	
(2)	 ACI_CMD_IND (msg: %CPINF:...) * <===== *	 	
(3)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PERCENT_CPINF) C_PERCENT_CPINF
(2) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPINF_1)
	cmd_len	NUM_ELEMENTS(M_PERCENT_CPINF_2)
<A>	cmd_seq	M_PERCENT_CPINF_1
	cmd_seq	M_PERCENT_CPINF_2
(3) ACI_CMD_IND		
	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 15.11.2002 KGT Initial

4.21.22 ACI535: %CPMB - Test

Description:
Query record numbers of CPHS mailboxnumbers

Preamble:
<A>ACI501A

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPMB=?) * =====>*	 	
(2)	 ACI_CMD_IND (msg: %CPMB:...) * <=====*	 	
(3)	 ACI_CMD_IND (msg: OK) * <=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPMB_TEST)	
	cmd_seq	C_PERCENT_CPMB_TEST
(1) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPMB_TEST)	
	cmd_seq	M_PERCENT_CPMB_TEST
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.23 ACI536: %CPMB - Query mailbox numbers

Description:

Query mailboxnumbers

Variants: <A>...<C>

Preamble:

- <A> ACI530A
- ACI530A
- <C> ACI501B

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPMB=...) * =====> *	 	
(2)	 ACI_CMD_IND (msg: %CPMB:...) * <===== *	 	
(3)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
<A>	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_3)
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_1)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_1)
<A>	cmd_seq	C_PERCENT_CPMB_3
	cmd_seq	C_PERCENT_CPMB_1
<C>	cmd_seq	C_PERCENT_CPMB_1
(2) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPMB_3)
	cmd_len	NUM_ELEMENTS(M_PERCENT_CPMB_1)
<C>	cmd_len	NUM_ELEMENTS(M_PERCENT_CPMB2_1)
<A>	cmd_seq	M_PERCENT_CPMB_3
	cmd_seq	M_PERCENT_CPMB_1
<C>	cmd_seq	M_PERCENT_CPMB2_1
(3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.24 ACI537: %CPMB - Query empty mailbox numbers

Description:

Query mailboxnumbers. Mailbox numbers are empty.

Variants: <A>...<C>

Preamble:

ACI501B

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPMB=...)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_2)
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_3)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPMB_4)
<A>	cmd_seq	C_PERCENT_CPMB_2
	cmd_seq	C_PERCENT_CPMB_3
<C>	cmd_seq	C_PERCENT_CPMB_4
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 23.1.2003 KGT Initial

4.21.25 ACI538: %CPMB - Query mailbox numbers, but no mailbox numbers cached

Description:

Query mailboxnumbers

Preamble:

ACI502B

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPMB=...)	
	=====>	
(2)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPMB_1)	
	cmd_seq	C_PERCENT_CPMB_1
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.26 ACI540: %CPNUMS - Test

Description:

Query hole table of information numbers

Preamble:

ACI501A

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%CPNUMS=?)	
	=====>	
(2)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(3)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(4)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(5)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(6)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(7)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(8)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(9)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(10)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(11)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(12)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(13)		
	ACI_CMD_IND	
	(msg: %CPNUMS:...)	
	<=====	
(14)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPNUMS_TEST)	
	cmd_seq	C_PERCENT_CPNUMS_TEST

(2) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_1) cmd_seq	M_PERCENT_CPNUMS_1
(3) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_2) cmd_seq	M_PERCENT_CPNUMS_2
(4) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_3) cmd_seq	M_PERCENT_CPNUMS_3
(5) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_4) cmd_seq	M_PERCENT_CPNUMS_4
(6) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_5) cmd_seq	M_PERCENT_CPNUMS_5
(7) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_6) cmd_seq	M_PERCENT_CPNUMS_6
(8) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_7) cmd_seq	M_PERCENT_CPNUMS_7
(9) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_8) cmd_seq	M_PERCENT_CPNUMS_8
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_9) cmd_seq	M_PERCENT_CPNUMS_9
(11) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_10) cmd_seq	M_PERCENT_CPNUMS_10
(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_11) cmd_seq	M_PERCENT_CPNUMS_11
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_CPNUMS_12) cmd_seq	M_PERCENT_CPNUMS_12

(14) ACI_CMD_IND

cmd_len	NUM_ELEMENTS(M_OK)
cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.27 ACI541: %CPNUMS - explore elements

Description:

Explore elements of information numbers

Preamble:

ACI540

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPNUMS=..., 1)	
	* =====> *	
(2)	ACI_CMD_IND (msg: %CPNUMS:...)	
	* <===== *	
(3)	ACI_CMD_IND (msg: %CPNUMS:...)	
	* <===== *	
(4)	ACI_CMD_IND (msg: OK)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPNUMS_EXP_8)
	cmd_seq	C_PERCENT_CPNUMS_EXP_8
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPNUMS_9)
	cmd_seq	M_PERCENT_CPNUMS_9
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPNUMS_10)
	cmd_seq	M_PERCENT_CPNUMS_10
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.28 ACI542: %CPNUMS - explore elements

Description: Explore elements of information numbers

Preamble: ACI540

	APL		ACI		PS
(1)		ACI_CMD_REQ			
		(cmd: AT%CPNUMS=..., 1)			
		* =====>			
(2)		ACI_CMD_IND			
		(msg: %CPNUMS:...)			
		* <=====*			
(3)		ACI_CMD_IND			
		(msg: %CPNUMS:...)			
		* <=====*			
(4)		ACI_CMD_IND			
		(msg: %CPNUMS:...)			
		* <=====*			
(5)		ACI_CMD_IND			
		(msg: OK)			
		* <=====*			

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPNUMS_EXP_0)	
	cmd_seq	C_PERCENT_CPNUMS_EXP_0
(2) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPNUMS_1)	
	cmd_seq	M_PERCENT_CPNUMS_1
(3) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPNUMS_8)	
	cmd_seq	M_PERCENT_CPNUMS_8
(4) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_CPNUMS_11)	
	cmd_seq	M_PERCENT_CPNUMS_11

(5) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_OK)
M_OK

History: 15.11.2002 KGT Initial

4.21.29 ACI543: %CPNUMS - query elements

Description:

Query elements of information numbers

Preamble:

ACI540

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%CPNUMS=..., 2)	
	* <===== > *	
(2)	ACI_CMD_IND (msg: %CPNUMS:...)	
	* <===== *	
(3)	ACI_CMD_IND (msg: OK)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPNUMS_ELM_9)
	cmd_seq	C_PERCENT_CPNUMS_ELM_9
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_CPNUMS_9)
	cmd_seq	M_PERCENT_CPNUMS_9
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.30 ACI544: %CPNUMS - explore elements, but no elements cached

Description:

Explore elements of information numbers. But no information numbers on SIM

Preamble:

ACI503A

```

APL                               ACI                               PS
|                                 |                                 |
(1) |           ACI_CMD_REQ       |                                 |
    | (cmd: AT%CPNUMS=..., 1)    |                                 |
    * =====> *                 |                                 |
(2) |           ACI_CMD_IND       |                                 |
    | (msg: OK)                   |                                 |
    * <===== *                 |                                 |
|                                 |                                 |

```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPNUMS_EXP_0)	
	cmd_seq	C_PERCENT_CPNUMS_EXP_0
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 15.11.2002 KGT Initial

4.21.31 ACI550: %CPHS - start, SIM error for mandatory field SIM_CPHS_CCF

Description:

Start CPHS module. SIM returns error on reading a mandatory field SIM_CPHS_CCF.

Preamble:

ACI024A

APL	ACI	PS
(8)	ACI_CMD_REQ (cmd: AT%CPHS=...)	
	=====>	
(9)		SIM_READ_REQ
		=====>
(10)		SIM_READ_CNF
		<=====
(4)	ACI_CMD_IND (msg: ERROR)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(8) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPHS_START)	
	cmd_seq	C_PERCENT_CPHS_START
(9) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CFF
	length	NOT_PRESENT_8BIT
	max_length	CPHS_CFU_LEN
(10) SIM_READ_CNF	datafield	SIM_CPHS_CFF
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	A_CPHS_CFU_FIELD
(4) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_UNKNOWN)	
	cmd_seq	M_ERR_UNKNOWN

History: 7.01.2003 KGT Initial

4.21.32 ACI551: %CPHS - start, SIM error for mandatory field SIM_CPHS_VMW

Description:

Start CPHS module. SIM returns error on reading a mandatory field SIM_CPHS_VMW.

Preamble:

ACI024A

History: 7.01.2003 KGT Initial

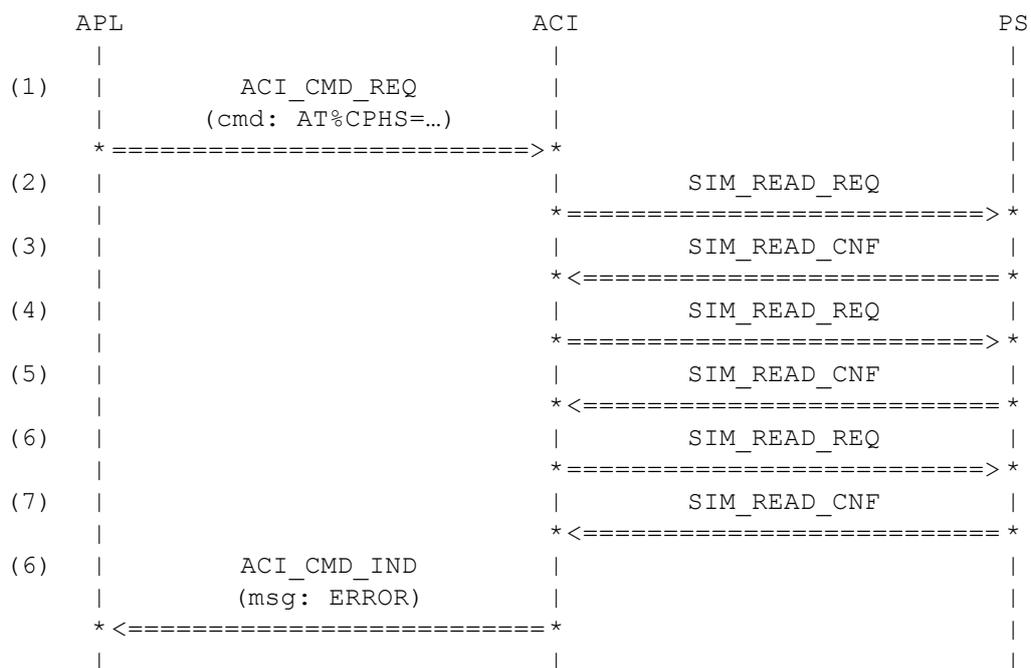
4.21.33 ACI552: %CPHS - start, SIM error for mandatory field SIM_CPHS_ONSTR

Description:

Start CPHS module. SIM returns error on reading a mandatory field SIM_CPHS_ONSTR.

Preamble:

ACI024A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPHS_START)	
	cmd_seq	C_PERCENT_CPHS_START
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CFF
	length	NOT_PRESENT_8BIT
	max_length	CPHS_CFU_LEN
(3) SIM_READ_CNF	datafield	SIM_CPHS_CFF
	cause	SIM_NO_ERROR
	length	CPHS_CFU_LEN
	trans_data	A_CPHS_CFU_FIELD

(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_VMW
	length	NOT_PRESENT_8BIT
	max_length	CPHS_VWI_LEN
(5) SIM_READ_CNF	datafield	SIM_CPHS_VMW
	cause	SIM_NO_ERROR
	length	CPHS_VWI_LEN
	trans_data	A_CPHS_VWI_FIELD
(6) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_ONSTR
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_OPNL
(7) SIM_READ_CNF	datafield	SIM_CPHS_ONSTR
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	A_CPHS_OPN_FIELD
(6) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_UNKNOWN)	
	cmd_seq	M_ERR_UNKNOWN

History: 7.01.2003 KGT Initial

4.21.34 ACI553: %CPHS - start, SIM error for mandatory field SIM_CPHS_CINF

Description:

Start CPHS module. SIM returns error on reading a mandatory field SIM_CPHS_CINF.

Preamble:

ACI500A

	APL	ACI	PS
(1)			
		SIM_READ_REQ	
		* =====>	*
(2)		SIM_READ_CNF	
		* <=====	*
(3)			
		ACI_CMD_IND	
		(msg: ERROR)	
		* <=====	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(2) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	A_CPHS_INF_FIELD
(3) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_UNKNOWN)	
	cmd_seq	M_ERR_UNKNOWN

History: 13.11.2002 KGT Initial

4.21.35 ACI555: %CPHS - start, SIM error for optional fields

Description:

Start CPHS module. SIM returns error on reading optional fields but should continue to initialize for CPHS.

Preamble:

ACI500A

APL	ACI	PS
(1)	SIM_READ_REQ	
(2)	SIM_READ_CNF	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	SIM_READ_RECORD_REQ	
(8)	SIM_READ_RECORD_CNF	
(9)	SIM_READ_RECORD_REQ	
(10)	SIM_READ_RECORD_CNF	
(11)	SIM_READ_RECORD_REQ	
(12)	SIM_READ_RECORD_CNF	
(13)	SIM_READ_RECORD_REQ	
(14)	SIM_READ_RECORD_CNF	
(15)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(2) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	cause	SIM_NO_ERROR
	length	CPHS_INF_LEN
	trans_data	A_CPHS_INF_ALL_FIELD
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CSP

	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_CSP
(4) SIM_READ_CNF		
	datafield	SIM_CPHS_CSP
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	A_CPHS_CSP_FIELD
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_ONSHF
	length	NOT_PRESENT_8BIT
	max_length	MAX_CPHS_OPNS
(6) SIM_READ_CNF		
	datafield	SIM_CPHS_ONSHF
	cause	SIM_CAUSE_EF_INVALID
	length	NUM_0
	trans_data	A_CPHS_OPNS_FIELD
(7) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_MBXN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(8) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_MBXN
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_4
	length	NUM_0
	linear_data	A_CPHS_MB1_REC1
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_INF1
	record	NUM_1
	length	NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INF1
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_12
	length	NUM_0
	linear_data	A_CPHS_INUM_REC1
(11) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_CPHS_INF2
	record	NUM_1
	length	NOT_PRESENT_8BIT
(12) SIM_READ_RECORD_CNF		
	datafield	SIM_CPHS_INF2
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_12

	length	NUM_0
	linear_data	A_CPHS_INUM_REC1
(13) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_1
	length	NOT_PRESENT_8BIT
(14) SIM_READ_RECORD_CNF		
	datafield	SIM_MSISDN
	cause	SIM_CAUSE_EF_INVALID
	record	NUM_1
	max_record	NUM_0
	length	NUM_0
	linear_data	A_CPHS_INUM_REC12
(15) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.11.2002 KGT Initial

4.21.36 ACI560: %CPVWI - failed Clear & Set due to SIM error

Description:

Clear or set current setting for voice waiting message flag for each line has failed due to a SIM error.

Variants: <A>...<D>

Preamble:

<A>ACI515B
 ACI501A
 <C>ACI515B
 <D>ACI501A

APL	ACI	PS
(1) ACI_CMD_REQ		
(cmd: AT%CPVWI=0...)		
* =====> *		
(2)	SIM_UPDATE_REQ	
	* =====> *	
(3)	SIM_UPDATE_CNF	
	* <===== *	
(4) ACI_CMD_IND		
(msg: ERROR)		
* <===== *		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ

<A>	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_ALL)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_ALL)
<D>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_SET_ALL)
<A>	cmd_seq	C_PERCENT_CPVWI_CLEAR_ALL
	cmd_seq	C_PERCENT_CPVWI_CLEAR_ALL
<C>	cmd_seq	C_PERCENT_CPVWI_SET_ALL
<D>	cmd_seq	C_PERCENT_CPVWI_SET_ALL

(2) SIM_UPDATE_REQ

	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_VMW
	length	CPHS_VMW_LEN
<A>	trans_data	A_CPHS_VMW_FIELD
	trans_data	A_CPHS_VMW_FIELD
<C>	trans_data	A_CPHS_VMW_FIELD_ALL
<D>	trans_data	A_CPHS_VMW_FIELD_ALL

(3) SIM_UPDATE_CNF

datafield	SIM_CPHS_VMW
cause	SIM_CAUSE_OTHER_ERROR

(4) ACI_CMD_IND

cmd_len	
NUM_ELEMENTS(M_ERR_UNKNOWN)	
cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

4.21.37 ACI561: %CPVWI - Query after failed set or failed clear

Description:

Query current setting for voice waiting message flag for each line.

Variants: <A>...<D>

Preamble:

- <A>ACI560A
- ACI560B
- <C>ACI560C
- <D>ACI560D

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPVWI=2) * =====> *	 	
(2)	 ACI_CMD_IND (msg: %CPVWI:...) * <===== *	 	
(3)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PERCENT_CPVWI_QUERY_ALL) C_PERCENT_CPVWI_QUERY_ALL
(2) ACI_CMD_IND	<A> <C> <D> <A> <C> <D>	cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq
		NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1L2) NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG) NUM_ELEMENTS(M_PERCENT_CPVWI_MSG_L1L2) NUM_ELEMENTS(M_PERCENT_CPVWI_NOMSG) M_PERCENT_CPVWI_MSG_L1L2 M_PERCENT_CPVWI_NOMSG M_PERCENT_CPVWI_MSG_L1L2 M_PERCENT_CPVWI_NOMSG
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.01.2003 KGT Initial

4.21.38 ACI562: %CPVWI - Clear, Set & Query after failed CPHS initialization

Description:

Try to clear, set or query current setting for voice waiting message flag after failed CPHS initialization.

Variants: <A>....<C>

Preamble:

ACI551

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPVWIx...) * =====>*	 	
(2)	 ACI_CMD_IND (msg: ERROR) * <=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_CLEAR_ALL)
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_SET_ALL)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPVWI_QUERY_ALL)
<A>	cmd_seq	C_PERCENT_CPVWI_CLEAR_ALL
	cmd_seq	C_PERCENT_CPVWI_SET_ALL
<C>	cmd_seq	C_PERCENT_CPVWI_QUERY_ALL
(2) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_ERR_UNKNOWN)	
	cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

4.21.39 ACI564: %CPCFU - failed Clear & Set due to SIM error

Description:

Clear or set current setting for call forwarding unconditional for each line has failed due to a SIM error.

Variants: <A>...<D>

Preamble:

<A>ACI519E
 ACI501A
 <C>ACI519E
 <D>ACI501A

APL	ACI	PS
(5)	ACI_CMD_REQ (cmd: AT%CPCFU=0...)	
* =====> *		
(6)		SIM_UPDATE_REQ
* =====> *		
(7)		SIM_UPDATE_CNF
* <===== *		
(8)	ACI_CMD_IND (msg: ERROR)	
* <===== *		

Parametrization:

Primitive	Parameter	Value
(5) ACI_CMD_REQ		
<A>	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_CLEAR_ALL)
<C>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_CLEAR_ALL)
<D>	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_SET_ALL)
<A>	cmd_seq	C_PERCENT_CPCFU_CLEAR_ALL
	cmd_seq	C_PERCENT_CPCFU_CLEAR_ALL
<C>	cmd_seq	C_PERCENT_CPCFU_SET_ALL
<D>	cmd_seq	C_PERCENT_CPCFU_SET_ALL
(6) SIM_UPDATE_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CPHS_CFF
	length	CPHS_CFU_LEN
<A>	trans_data	A_CPHS_CFU_FIELD
	trans_data	A_CPHS_CFU_FIELD
<C>	trans_data	A_CPHS_CFU_FIELD_ALL
<D>	trans_data	A_CPHS_CFU_FIELD_ALL
(7) SIM_UPDATE_CNF		
	datafield	SIM_CPHS_CFF
	cause	SIM_CAUSE_OTHER_ERROR
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_ERR_UNKNOWN)
	cmd_seq	M_ERR_UNKNOWN

History: 29.04.2003 TLU Initial

4.21.40 ACI565: %CPCFU - Query after failed set or failed clear

Description:

Query current setting for call forwarding unconditional flag for each line.

Variants: <A>...<D>

Preamble:

<A>ACI564A
 ACI564B
 <C>ACI564C
 <D>ACI564D

	APL	ACI	PS
(4)	 ACI_CMD_REQ (cmd: AT%CPCFU=2) * =====> *	 	
(5)	 ACI_CMD_IND (msg: %CPCFU:...) * <===== *	 	
(6)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(4) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PERCENT_CPCFU_QUERY_ALL) C_PERCENT_CPCFU_QUERY_ALL
(5) ACI_CMD_IND	<A> <C> <D> <A> <C> <D>	cmd_len cmd_len cmd_len cmd_len cmd_seq cmd_seq cmd_seq cmd_seq
		NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L1) NUM_ELEMENTS(M_PERCENT_CPCFU_NOFLG) NUM_ELEMENTS(M_PERCENT_CPCFU_FLG_L1) NUM_ELEMENTS(M_PERCENT_CPCFU_NOFLG) M_PERCENT_CPCFU_FLG_L1 M_PERCENT_CPCFU_NOFLG M_PERCENT_CPCFU_FLG_L1 M_PERCENT_CPCFU_NOFLG
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 08.01.2003 KGT Initial

4.21.41 ACI566: %CPCFU - Query after failed CPHS initialization

Description:

Try to query current setting for CFU after failed CPHS initialization.

Preamble:

ACI551

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPCFUx...) * =====> *	 	
(2)	 ACI_CMD_IND (msg: ERROR) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPCFU_QUERY_ALL)
	cmd_seq	C_PERCENT_CPCFU_QUERY_ALL
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_UNKNOWN)
	cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

4.21.42 ACI567: %CPOPN - Query after failed CPHS initialization

Description:

Try to query current setting for operator name string after failed CPHS initialization.

Preamble:

ACI551

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPOPNx...) * =====> *	 	
(2)	 ACI_CMD_IND (msg: ERROR) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPOPN)
	cmd_seq	C_PERCENT_CPOPN

(2) ACI_CMD_IND

```

cmd_len
NUM_ELEMENTS(M_ERR_UNKNOWN)
cmd_seq M_ERR_UNKNOWN
    
```

History: 8.01.2003 KGT Initial

4.21.43 ACI568: %CPALS - Query after failed CPHS initialization

Description:

Try to query current line for alternate line service after failed CPHS initialization.

Preamble:

ACI551

```

APL ACI PS
| | |
(1) | ACI_CMD_REQ | |
| (cmd: AT%CPALSx...) | |
* ----->* | |
(2) | ACI_CMD_IND | |
| (msg: ERROR) | |
* <-----* | |
| | |
    
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPALS_QUERY)
	cmd_seq	C_PERCENT_CPALS_QUERY
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_UNKNOWN)
	cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

4.21.44 ACI569: %CPINF - Query after failed CPHS initialization

Description:

Try to query settings for CPHS information after failed CPHS initialization.

Preamble:

ACI551

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPINF?) * =====> *	 	
(2)	 ACI_CMD_IND (msg: ERROR) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_CPINF)
	cmd_seq	C_PERCENT_CPINF
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_UNKNOWN)
	cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

4.21.45 ACI570: %CPMB - Query after failed CPHS initialization

Description:

Try to query mailbox numbers after failed CPHS initialization.

Preamble:

ACI551

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%CPMB=x) * =====> *	 	
(2)	 ACI_CMD_IND (msg: ERROR) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

```

NUM_ELEMENTS(C_PERCENT_CPMB_1)
cmd_seq C_PERCENT_CPMB_1

(2) ACI_CMD_IND

cmd_len
NUM_ELEMENTS(M_ERR_UNKNOWN)
cmd_seq M_ERR_UNKNOWN
    
```

History: 8.01.2003 KGT Initial

4.21.46 ACI571: %CPNUM - Query after failed CPHS initialization

Description: Try to query information numbers after failed CPHS initialization.

Preamble: ACI551

```

      APL                      ACI                      PS
      |                        |                        |
(1)  |      ACI_CMD_REQ      |                        |
      |      (cmd: AT%CPNUM=x) |                        |
      | *=====>*          |                        |
(2)  |      ACI_CMD_IND      |                        |
      |      (msg: ERROR)     |                        |
      | *<=====*          |                        |
      |                        |                        |
    
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_CPNUMS_EXP_0)	
	cmd_seq	C_PERCENT_CPNUMS_EXP_0
(2) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_UNKNOWN)	
	cmd_seq	M_ERR_UNKNOWN

History: 8.01.2003 KGT Initial

*/

4.22 Engineering Mode (ACI650-ACI670)

4.22.1 ACI650: Infrastructure Data - Serving Cell

Description:

Request serving cell data from RR

Preamble:

ACI001

	APL		ACI		PS
(1)		ACI_CMD_REQ			
		(cmd: AT%EM=2,1)			
		=====>			
(2)				EM_SC_INFO_REQ	
				=====>	
(3)				EM_SC_INFO_CNF	
				<=====	
(4)		ACI_CMD_IND			
		(msg: %EM: ...)			
		<=====			
(5)		ACI_CMD_IND			
		(msg: OK)			
		<=====			

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_EM_QUERY_1)	
	cmd_seq	C_PERCENT_EM_QUERY_1
(2) EM_SC_INFO_REQ	data	NUM_0
(3) EM_SC_INFO_CNF	arfcn	ARFCN
	c1	C1
	c2	C2
	rxlev	RXLEV
	bsic	BSIC
	dsc	DSC
	txlev	TXLEV
	tn	TN
	rlt	RLT
	tav	TAV
	rxlev_f	RXLEV_F

	rxlev_s	RXLEV_S	
	rxqual_f	RXQUAL_F	
	rxqual_s	RXQUAL_S	
	lac	LAC	
	cba	CBA	
	cbq	CBQ	
(1) ACI_CMD_IND			
	cmd_len		
	NUM_ELEMENTS(M_PERCENT_EM_1)		
	cmd_seq	M_PERCENT_EM_1	
(2) ACI_CMD_IND			
	cmd_len	NUM_ELEMENTS(M_OK)	
	cmd_seq	M_OK	
History:	25.09.2001	OT	Initial

4.22.2 ACI651: Infrastructure Data - Neighbour Cell

Description:

Request serving cell data from RR

Preamble:

ACI001

	cmd_len	NUM_ELEMENTS(C_PERCENT_EM_QUERY_3)
	cmd_seq	C_PERCENT_EM_QUERY_3
(2) EM_NC_INFO_REQ		
	data	NUM_0
(3) EM_NC_INFO_CNF		
	no_ncells	NO_NCELLS
	arfcn_nc	A_ARFCN_NC
	c1_nc	A_C1_NC
	c2_nc	A_C2_NC
	rxlev_nc	A_RXLEV_NC
	bsic_nc	A_BSIC_NC
	cell_id_nc	A_CELL_ID_NC
	lac_nc	A_LAC_NC
	frame_offset	A_FRAME_OFFSET
	time_alignmt	A_TIME_ALIGNMT
	cba_nc	A_CBA_NC
	cbq_nc	A_CBQ_NC
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_1)
	cmd_seq	M_PERCENT_EM_3_1
(5) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_2)
	cmd_seq	M_PERCENT_EM_3_2
(6) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_3)
	cmd_seq	M_PERCENT_EM_3_3
(7) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_4)
	cmd_seq	M_PERCENT_EM_3_4
(8) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_5)
	cmd_seq	M_PERCENT_EM_3_5
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_6)
	cmd_seq	M_PERCENT_EM_3_6
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_7)
	cmd_seq	M_PERCENT_EM_3_7
(11) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_3_8)
	cmd_seq	M_PERCENT_EM_3_8

(12) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_3_9) cmd_seq	M_PERCENT_EM_3_9
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_3_10) cmd_seq	M_PERCENT_EM_3_10
(14) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_3_11) cmd_seq	M_PERCENT_EM_3_11
(15) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_3_11) cmd_seq	M_PERCENT_EM_3_11
(16) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 25.09.2001 OT Initial

4.2.2.3 ACI652: Infrastructure Data – Location and Paging Parameters

Description:

Request location and paging parameters from RR

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%EM=2,4) *=====>*	 	
(2) 	EM_LOC_PAG_INFO_REQ *=====>*	
(3) 	EM_LOC_PAG_INFO_CNF *<=====*	
(4) ACI_CMD_IND (msg: %EM: ...) *<=====*	 	
(5) ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_PERCENT_EM_QUERY_4)
	cmd_seq	C_PERCENT_EM_QUERY_4
(2) EM_LOC_PAG_INFO_REQ	data	NUM_0
(3) EM_LOC_PAG_INFO_CNF	bs_pa_mfrms	BS_PA_MFRMS
	t3212	T3212
	mcc	MCC_PLMN_LST_6
	mnc	MNC_PLMN_LST_6
	tmsi	TMSI
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PERCENT_EM_4)
	cmd_seq	M_PERCENT_EM_4
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 10.10.2001 OT Initial

4.22.4 ACI653: Infrastructure Data – PLMN Parameters

Description:

Request plmn parameters from RR

Preamble:

ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%EM=2,5) *=====>*	 	
(2) 	EM_PLMN_INFO_REQ *=====>*	
(3) 	EM_PLMN_INFO_CNF *<=====*	
(4) ACI_CMD_IND (msg: %EM: ...) *<=====*	 	
(5) ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	

		NUM_ELEMENTS(C_PERCENT_EM_QUERY_5)	
	cmd_seq		C_PERCENT_EM_QUERY_5
(2)	EM_PLMN_INFO_REQ		
	data		NUM_0
(3)	EM_PLMN_INFO_CNF		
	no_creq_max		NO_CREQ_MAX
	reest_flag		REEST_FLAG
	txpwr_max		TXPWR_MAX
	rxlev_min		RXLEV_MIN
	rel_cause		REL_CS
(4)	ACI_CMD_IND		
	cmd_len		
	NUM_ELEMENTS(M_PERCENT_EM_5)		
	cmd_seq		M_PERCENT_EM_5
(5)	ACI_CMD_IND		
	cmd_len		NUM_ELEMENTS(M_OK)
	cmd_seq		M_OK
History:	25.09.2001	OT	Initial

4.22.5 ACI654: Infrastructure Data – Ciphering, Hopping and DTX Parameters

Description:

Request ciphering, hopping and dtx parameter from RR

Preamble:

ACI001

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%EM=2,6)	
	=====>	
(2)	EM_CIP_HOP_DTX_INFO_REQ	
	=====>	
(3)	EM_CIP_HOP_DTX_INFO_CNF	
	<=====	
(4)	ACI_CMD_IND (msg: %EM: ...)	
	<=====	
(5)	ACI_CMD_IND (msg: %EM: ...)	
	<=====	
(6)	ACI_CMD_IND (msg: %EM: ...)	
	<=====	
(7)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_EM_QUERY_6)	
	cmd_seq	C_PERCENT_EM_QUERY_6
(2) EM_CIP_HOP_DTX_INFO_REQ	data	NUM_0
(3) EM_CIP_HOP_DTX_INFO_CNF	ciph_stat	CIPH_STAT
	hop_chn	S_HOP_CHN
	hsn	HSN
	dtx_stat	DTX_STAT
(4) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_6_1)	
	cmd_seq	M_PERCENT_EM_6_1
(5) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_6_2)	
	cmd_seq	M_PERCENT_EM_6_2
(6) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_6_3)	
	cmd_seq	M_PERCENT_EM_6_3
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 25.09.2001 OT Initial

4.22.6 ACI655: Mobile Data – Power Parameters

Description: Request serving cell data from RR

Preamble: ACI001

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%EM=2,7) *=====>*	 	
(2)	 	EM_POWER_INFO_REQ *=====>*	
(3)	 	EM_POWER_INFO_CNF *<=====*	
(4)	ACI_CMD_IND (msg: %EM: ...) *<=====*	 	
(5)	ACI_CMD_IND (msg: %EM: ...) *<=====*	 	
(6)	ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EM_QUERY_7) cmd_seq	CMD_SRC_EXT C_PERCENT_EM_QUERY_7
(2) EM_POWER_INFO_REQ	data	NUM_0
(3) EM_POWER_INFO_CNF	classm2 classm3	S_CLASSM2 S_CLASSM3
(4) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_7_1) cmd_seq	M_PERCENT_EM_7_1
(5) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EM_7_2) cmd_seq	M_PERCENT_EM_7_2
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 25.09.2001 OT Initial

(6) ACI_CMD_IND

cmd_len
NUM_ELEMENTS(M_PERCENT_EM_8_3)
cmd_seq M_PERCENT_EM_8_3

(7) ACI_CMD_IND

cmd_len NUM_ELEMENTS(M_OK)
cmd_seq M_OK

History: 25.09.2001 OT Initial

4.22.8 ACI657: Mobile Data – SW-Version

Description: Request serving cell data from RR

Preamble: ACI001

APL	ACI	PS
(1)		
	ACI_CMD_REQ	
	(cmd: AT%EM=2,9)	
	=====>	
(2)		
	EM_SW_VERSION_INFO_REQ	
	=====>	
(3)		
	EM_SW_VERSION_INFO_CNF	
	<=====	
(4)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(5)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(6)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(7)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(8)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(9)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(10)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(11)		
	ACI_CMD_IND	
	(msg: %EM: ...)	
	<=====	
(12)		
	ACI_CMD_IND	
	(msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(8) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_EM_QUERY_9)
	cmd_seq	C_PERCENT_EM_QUERY_9
(9) EM_SW_VERSION_INFO_REQ	data	NUM_0
(10) EM_SW_VERSION_INFO_CNF	v_mmi	V_MMI
	v_sim	V_SIM
	v_cc	V_CC
	v_ss	V_SS
	v_sms	V_SMS

	v_mm	V_MM
	v_rr	V_RR
	v_dl	V_DL
	v_l1	V_L1
(11) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_1)	
	cmd_seq	M_PERCENT_EM_9_1
(12) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_2)	
	cmd_seq	M_PERCENT_EM_9_2
(13) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_3)	
	cmd_seq	M_PERCENT_EM_9_3
(14) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_4)	
	cmd_seq	M_PERCENT_EM_9_4
(15) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_5)	
	cmd_seq	M_PERCENT_EM_9_5
(16) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_6)	
	cmd_seq	M_PERCENT_EM_9_6
(17) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_7)	
	cmd_seq	M_PERCENT_EM_9_7
(18) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_PERCENT_EM_9_8)	
	cmd_seq	M_PERCENT_EM_9_8
(19) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 25.09.2001 OT Initial

4.22.9 ACI660: Event Trace – ALR

4.22.10 ACI661: Event Trace – DL

Description:

Engineering mode request event traces from DL

Preamble:

ACI001

APL	ACI	PS
(1)		
ACI_CMD_REQ		
(cmd: AT%EMETS=2,0,0x0005)		
=====>		
(2)	EM_DL_EVENT_REQ	
	=====>	
(3)		
ACI_CMD_IND		
(msg: OK)		
<=====		
(4)	EM_DATA_IND	
	<=====	
(5)		
ACI_CMD_REQ		
(cmd: AT%EMET=255)		
=====>		
(6)		
ACI_CMD_IND		
(msg: %EMET: ...)		
<=====		
(7)		
ACI_CMD_IND		
(msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_EMETS_2)	
	cmd_seq	C_PERCENT_EMETS_2
(2) EM_DL_EVENT_REQ	bitmask_dl	BITMASK_DL
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(4) EM_DATA_IND	entity	ENTITY_DL
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PERCENT_EMET_255)	
	cmd_seq	C_PERCENT_EMET_255

(6) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EMET_4) cmd_seq	M_PERCENT_EMET_4
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	30.01.2002 OT	Initial

4.22.11 ACI662: Event Trace - RR

Description: Engineering mode request event traces from RR

Preamble: ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%EMETS=3,0,0x2400) * =====> *		
(2)	EM_RR_EVENT_REQ * =====> *	
(3) ACI_CMD_IND (msg: OK) * <===== *		
(4)	EM_DATA_IND * <===== *	
(5) ACI_CMD_REQ (cmd: AT%EMET=4) * =====> *		
(6) ACI_CMD_IND (msg: %EMET: ...) * <===== *		
(7) ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMETS_3) cmd_seq	CMD_SRC_EXT C_PERCENT_EMETS_3
(2) EM_RR_EVENT_REQ	bitmask_rr_h bitmask_rr_l	BITMASK_H BITMASK_L

(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(4) EM_DATA_IND	entity	ENTITY_RR
(5) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMET_3) cmd_seq	CMD_SRC_EXT C_PERCENT_EMET_3
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PERCENT_EMET_3) M_PERCENT_EMET_3
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 25.10.2001 OT Initial

4.22.12 ACI663: Event Trace - MM

Description:
 Engineering mode request event traces from MM

Preamble:
 ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%EMETS=4,0,0x3000) * =====> *		
(2)	EM_MM_EVENT_REQ * =====> *	
(3) ACI_CMD_IND (msg: OK) * <===== *		
(4)	EM_DATA_IND * <===== *	
(5) ACI_CMD_REQ (cmd: AT%EMET=8) * =====> *		
(6) ACI_CMD_IND (msg: %EMET: ...) * <===== *		
(7) ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
------------------	------------------	--------------

(8) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMETS_4) cmd_seq	CMD_SRC_EXT C_PERCENT_EMETS_4
(9) EM_MM_EVENT_REQ	bitmask_mm	BITMASK_MM
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(11) EM_DATA_IND	entity	ENTITY_MM
(12) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMET_4) cmd_seq	CMD_SRC_EXT C_PERCENT_EMET_4
(13) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EMET_4) cmd_seq	M_PERCENT_EMET_4
(14) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 30.01.2002 OT Initial

4.22.13 ACI668: Event Trace – RR & MM

Description: Engineering mode request event traces from RR & MM

Preamble: ACI001

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT%EMETS=4,0,0x3000) * =====> *	 	
(2) 	EM_MM_EVENT_REQ * =====> *	
(3) ACI_CMD_IND (msg: OK) * <===== *	 	
(4) ACI_CMD_REQ (cmd: AT%EMETS=3,0,0x2400) * =====> *	 	
(5) 	EM_RR_EVENT_REQ * =====> *	
(6) ACI_CMD_IND (msg: OK) * <===== *	 	
(7) 	EM_DATA_IND * <===== *	
(8) 	EM_DATA_IND * <===== *	
(9) ACI_CMD_REQ (cmd: AT%EMET=12) * =====> *	 	
(10) ACI_CMD_IND (msg: %EMET: ...) * <===== *	 	
(11) ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMETS_4) cmd_seq	CMD_SRC_EXT C_PERCENT_EMETS_4
(2) EM_MM_EVENT_REQ	bitmask_mm	BITMASK_MM
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(4) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMETS_3) cmd_seq	CMD_SRC_EXT C_PERCENT_EMETS_3

(5) EM_RR_EVENT_REQ	bitmask_rr_h bitmask_rr_l	BITMASK_H BITMASK_L
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(7) EM_DATA_IND	entity	ENTITY_MM
(8) EM_DATA_IND	entity	ENTITY_RR
(9) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PERCENT_EMET_12) cmd_seq	CMD_SRC_EXT C_PERCENT_EMET_12
(10) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PERCENT_EMET_4) cmd_seq	M_PERCENT_EMET_4
(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 30.01.2002 OT Initial

4.23 SIM locking, ME personalisation (ACI680-ACI699)

Tests 680-6685 are only passing, if the SMI project is compiled with the precompiler definition "SIMLOCK". This preprocessor definition will switch on the personalisation of the ME, without it it will be an unpersonalised ME.

4.23.1 ACI680: ME (sub)network personalisation is on, IMSI of SIM is not matching #def SIMLOCK!!!

Description: **SWITCH #define SIMLOCK is needed for this to pass !!!**

After activation of the SIM, it is detected that no PIN is required. The IMSI of the SIM is checked against the personalisation data of the ME that is is personalised on a <A>network or subnetwork. The SIM is detected as not matching. After this a wrong PIN is entered three times. The last error message will be the question for the personalisation PUK.

Preamble:

ACI011

Variants: <A>....

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
	* <=====*	
(2)	SIM_MMI_INSERT_IND	
	* <=====*	
(3)	ACI_CMD_IND	
	(msg: err)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value	
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR	
	pin_cnt	NUM_3	
	puk_cnt	NUM_9	
	pin2_cnt	NUM_3	
	puk2_cnt	NUM_9	
	ec_code	NOT_USED	
	pref_lang	NOT_USED	
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED	
	sim_serv	SIM_SERV_ADN_BDN_SDN	
	<A> imsi_field	IMSI_FIELD_NW_FAIL	
	 imsi_field	IMSI_FIELD_NWSUB_FAIL	
	pref_plmn	NOT_USED	
	phase	PHASE_2_SIM	
	access_acm	NOT_USED	
	access_acmmax	NOT_USED	
	access_puct	NOT_USED	
	(1) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PN_PIN_REQ)
<A>		cmd_len	
		NUM_ELEMENTS(M_ERR_LOCK_PU_PIN_REQ)	
<A>		cmd_seq	M_ERR_LOCK_PN_PIN_REQ
		cmd_seq	M_ERR_LOCK_PU_PIN_REQ

History: 21.03.02 GBR Initial

4.23.2 ACI681: ME provider / corporate personalisation is on, GID1/GID2 of SIM is not matching #def SIMLOCK!!!

Description:

After activation of the SIM, it is detected that no PIN is required. The IMSI, the GID1 and the GID2 file of the SIM are checked against the personalisation data of the ME that is personalised on a service provider / corporate. The SIM is detected as not matching. After this a wrong PIN is entered three times. The last error message will be the question for the personalisation PUK.

Preamble:

ACI011

Variants: <A>...

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
(2)	SIM_MMI_INSERT_IND	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	ACI_CMD_IND (msg: err)	
(8)	ACI_CMD_REQ (cmd: +CPIN=5678)	
(9)	ACI_CMD_IND (msg: ERR)	
(8)	ACI_CMD_REQ (cmd: +CPIN=5678)	
(9)	ACI_CMD_IND (msg: ERR)	
(8)	ACI_CMD_REQ (cmd: +CPIN=5678)	
(9)	ACI_CMD_IND (msg: ERR)	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_GID1_GID2
	imsi_field	IMSI_FIELD_NW_NS_OK
	pref_plmn	NOT_USED

	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID1
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(4) SIM_READ_CNF		
	datafield	SIM_GID1
	cause	SIM_NO_ERROR
	length	NUM_1
<A>	trans_data	A_GID1_FAIL_FIELD
	trans_data	A_GID1_OK_FIELD
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID2
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(6) SIM_READ_CNF		
	datafield	SIM_GID2
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID2_FAIL_FIELD
(7) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PP_PIN_REQ)
<A>	cmd_seq	M_ERR_LOCK_PP_PIN_REQ
	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PC_PIN_REQ)
	cmd_seq	M_ERR_LOCK_PC_PIN_REQ
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPIN_5678)
	cmd_seq	C_PLUS_CPIN_5678
(9) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
	cmd_seq	M_ERR_WRONG_PWD
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPIN_5678)
	cmd_seq	C_PLUS_CPIN_5678
(11) ACI_CMD_IND		
	cmd_len	

	NUM_ELEMENTS(M_ERR_WRONG_PWD)	
	cmd_seq	M_ERR_WRONG_PWD
(12) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_5678)	
	cmd_seq	C_PLUS_CPIN_5678
(13) ACI_CMD_IND		
<A>	cmd_len	
	NUM_ELEMENTS(M_ERR_LOCK_PP_PUK_REQ)	
<A>	cmd_seq	M_ERR_LOCK_PP_PUK_REQ
	cmd_len	
	NUM_ELEMENTS(M_ERR_LOCK_PC_PUK_REQ)	
	cmd_seq	M_ERR_LOCK_PC_PUK_REQ
History:	22.03.02	GBR Initial

4.23.3 ACI682: ME service personalisation is on, SIM is not supporting GID1 file #def SIMLOCK!!!

Description:

After activation of the SIM, it is detected that no PIN is required. The service provider personalisation is checked, but the SIM is not supporting the GID1 file.

Preamble:

ACI011

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
	* <=====*	
(2)	SIM_MMI_INSERT_IND	
	* <=====*	
(3)	ACI_CMD_IND	
	(msg: err)	
	* <=====*	
(4)	ACI_CMD_REQ	
	(cmd: +CPIN=1234)	
	* =====>*	
(5)	ACI_CMD_IND	
	(msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9

	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_ADN_BDN_SDN
	imsi_field	IMSI_FIELD_NW_NS_OK
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_LOCK_PP_PIN_REQ)	
	cmd_seq	M_ERR_LOCK_PP_PIN_REQ
(4) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_1234)	
	cmd_seq	C_PLUS_CPIN_1234
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.03.02 GBR Initial

4.23.4 ACI683: ME corporate personalisation is on, SIM is not supporting the GID2 file #def SIMLOCK!!!

Description:

After activation of the SIM, it is detected that no PIN is required. The corporate personalisation is checked, but the SIM is not supporting the GID2 file.

Preamble:

ACI011

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
	* <=====*	
(2)	SIM_MMI_INSERT_IND	
	* <=====*	
(3)	SIM_READ_REQ	
	* =====>*	
(4)	SIM_READ_CNF	
	* <=====*	
(5)		
	ACI_CMD_IND	
	(msg: err)	
	* <=====*	
(6)		
	ACI_CMD_REQ	
	(cmd: +CPIN=1234)	
	* =====>*	
(7)		
	ACI_CMD_IND	
	(msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_GID1_NOGID2
	imsi_field	IMSI_FIELD_NW_NS_OK
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID1
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(4) SIM_READ_CNF	datafield	SIM_GID1
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID1_OK_FIELD

(5) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_ERR_LOCK_PC_PIN_REQ) cmd_seq	M_ERR_LOCK_PC_PIN_REQ
(6) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CPIN_1234) cmd_seq	CMD_SRC_EXT C_PLUS_CPIN_1234
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.03.02 GBR Initial

4.23.5 ACI684: ME SIM personalisation is on, SIM is not matching #def SIMLOCK!!!

Description:

After activation of the SIM, it is detected that no PIN is required. The complete IMSI of the SIM is checked against the personalisation data of the ME that is is personalised on a single SIM. The SIM is detected as having a not matching IMSI. As all other locks are switched on in the test stack and the SIM personalisation is the last to be checked, all other personalisation checks are executed before checking the SIM lock personalisation.

Preamble:

ACI011

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
	* <=====*	
(2)	SIM_MMI_INSERT_IND	
	* <=====*	
(3)	SIM_READ_REQ	
	* =====>*	
(4)	SIM_READ_CNF	
	* <=====*	
(5)	SIM_READ_REQ	
	* =====>*	
(6)	SIM_READ_CNF	
	* <=====*	
(7)		
	ACI_CMD_IND	
	(msg: err)	
	* <=====*	
(8)		
	ACI_CMD_REQ	
	(cmd: +CPIN=1234)	
	* =====>*	
(9)		
	ACI_CMD_IND	
	(msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_GID1_GID2
	imsi_field	IMSI_FIELD_SIM_FAIL
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID1
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(4) SIM_READ_CNF	datafield	SIM_GID1
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID1_OK_FIELD
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID2
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(6) SIM_READ_CNF	datafield	SIM_GID2
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID2_OK_FIELD
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PH_PIN_REQ)
	cmd_seq	M_ERR_LOCK_PH_PIN_REQ
(8) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CPIN_1234)
	cmd_seq	C_PLUS_CPIN_1234
(9) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 25.03.02 GBR Initial

4.23.6 ACI685: All Personalisations are switched on, SIM is matching.

Description:

After activation of the SIM, it is detected that no PIN is required. The complete IMSI of the SIM is checked against the personalisation data of the ME that is personalised in all possible ways. The SIM is detected as matching all personalisations. This test will go through all personalisation tests.

Preamble:

ACI011

APL	ACI	PS
(1)	SIM_ACTIVATE_CNF	
(2)	SIM_MMI_INSERT_IND	
(3)	SIM_READ_REQ	
(4)	SIM_READ_CNF	
(5)	SIM_READ_REQ	
(6)	SIM_READ_CNF	
(7)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_GID1_GID2
	imsi_field	IMSI_FIELD_SIM_OK
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID1
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(4) SIM_READ_CNF	datafield	SIM_GID1
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID1_OK_FIELD
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID2
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(6) SIM_READ_CNF	datafield	SIM_GID2
	cause	SIM_NO_ERROR
	length	NUM_1
	trans_data	A_GID2_OK_FIELD
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 25.03.02 GBR Initial

4.23.7 ACI686: ME network personalisation failed, correct PIN is entered #def SIMLOCK!!!

Description:

The SIM is detected as not matching the network personalisation check. After this a correct PIN is entered and the ME is depersonalised.

Preamble:

ACI680A

	APL		ACI		PS
(1)		ACI_CMD_REQ			
		(cmd: +CPIN=1234)			
		* =====>		*	
(2)		ACI_CMD_IND			
		(msg: OK)			
		* <=====		*	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) ACI_CMD_REQ

```
cmd_src          CMD_SRC_EXT
cmd_len
NUM_ELEMENTS(C_PLUS_CPIN_1234)
cmd_seq         C_PLUS_CPIN_1234
```

(2) ACI_CMD_IND

```
cmd_len          NUM_ELEMENTS(M_OK)
cmd_seq          M_OK
```

History: 30.03.02 GBR Initial

4.23.8 ACI687: ME network personalisation failed, wrong PIN entered three times. #def SIMLOCK!!!

Description:

The SIM is detected as not matching the network personalisation check. After this a wrong PIN is entered three times. The last error message will be the question for the personalisation PUK.

Preamble:

ACI680A

	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: +CPIN=5678)		
	* =====> *		
(2)	ACI_CMD_IND		
	(msg: ERR)		
	* <===== *		
(3)	ACI_CMD_REQ		
	(cmd: +CPIN=5678)		
	* =====> *		
(4)	ACI_CMD_IND		
	(msg: ERR)		
	* <===== *		
(5)	ACI_CMD_REQ		
	(cmd: +CPIN=5678)		
	* =====> *		
(6)	ACI_CMD_IND		
	(msg: ERR)		
	* <===== *		
(7)	ACI_CMD_REQ		
	(cmd: +CPIN=12345678)		
	* =====> *		
(8)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_5678)	
	cmd_seq	C_PLUS_CPIN_5678
(4) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_WRONG_PWD)	
	cmd_seq	M_ERR_WRONG_PWD
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_5678)	
	cmd_seq	C_PLUS_CPIN_5678
(6) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_WRONG_PWD)	
	cmd_seq	M_ERR_WRONG_PWD
(7) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_5678)	
	cmd_seq	C_PLUS_CPIN_5678
(8) ACI_CMD_IND	cmd_len	
	NUM_ELEMENTS(M_ERR_LOCK_PN_PUK_REQ)	
	cmd_seq	M_ERR_LOCK_PN_PUK_REQ
(9) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CPIN_123456)	
	cmd_seq	C_PLUS_CPIN_123456
(10) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 30.03.02 GBR Initial

4.23.9 ACI690: Disable personalisation with the correct nck

Description: Disable network personalisation with correct nck.

Preamble: ACI001

Variants: <A>....<E>

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLCK="Px",...) * =====> *	 * <===== *	
(2) ACI_CMD_IND (msg: OK) * <===== *	 * <===== *	
(3) ACI_CMD_REQ (cmd: AT+CLCK="Px",...) * =====> *	 * <===== *	
(4) ACI_CMD_IND (msg: +CLCK: 1) * <===== *	 * <===== *	
(5) ACI_CMD_IND (msg: OK) * <===== *	 * <===== *	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_DIS)
<A>	cmd_seq	C_PLUS_CLCK_PN_DIS
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_DIS)
	cmd_seq	C_PLUS_CLCK_PU_DIS
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_DIS)
<C>	cmd_seq	C_PLUS_CLCK_PP_DIS
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_DIS)
<D>	cmd_seq	C_PLUS_CLCK_PC_DIS
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_DIS)
<E>	cmd_seq	C_PLUS_CLCK_PS_DIS
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_QUERY)
<A>	cmd_seq	C_PLUS_CLCK_PN_QUERY
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_QUERY)
	cmd_seq	C_PLUS_CLCK_PU_QUERY
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_QUERY)
<C>	cmd_seq	C_PLUS_CLCK_PP_QUERY

<D>	cmd_len NUM_ELEMENTS(C_PLUS_CLCK_PC_QUERY)	
<D>	cmd_seq	C_PLUS_CLCK_PC_QUERY
<E>	cmd_len NUM_ELEMENTS(C_PLUS_CLCK_PS_QUERY)	
<E>	cmd_seq	C_PLUS_CLCK_PS_QUERY
(4) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CLCK_DIS)	
	cmd_seq	M_PLUS_CLCK_DIS
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.04.02 GBR Initial

4.23.10 ACI691: Enable personalisation with the correct nck

Description:

Enable network personalisation with correct nck.

Preamble:

ACI001

Variants: <A>....<E>

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CLCK="Px", ...) *=====>*	 	
(2)	 ACI_CMD_IND (msg: OK) *<=====*	 	
(3)	 ACI_CMD_REQ (cmd: AT+CLCK="Px", ...) *=====>*	 	
(4)	 ACI_CMD_IND (msg: +CLCK: 1) *<=====*	 	
(5)	 ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
<A>		cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLCK_PN_ENA)	CMD_SRC_EXT
<A>		cmd_seq	C_PLUS_CLCK_PN_ENA
		cmd_len	

	NUM_ELEMENTS(C_PLUS_CLCK_PU_ENA)	
	cmd_seq	C_PLUS_CLCK_PU_ENA
<C>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PP_ENA)	
<C>	cmd_seq	C_PLUS_CLCK_PP_ENA
<D>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PC_ENA)	
<D>	cmd_seq	C_PLUS_CLCK_PC_ENA
<E>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PS_ENA)	
<E>	cmd_seq	C_PLUS_CLCK_PS_ENA
(2) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PN_QUERY)	
<A>	cmd_seq	C_PLUS_CLCK_PN_QUERY
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PU_QUERY)	
	cmd_seq	C_PLUS_CLCK_PU_QUERY
<C>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PP_QUERY)	
<C>	cmd_seq	C_PLUS_CLCK_PP_QUERY
<D>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PC_QUERY)	
<D>	cmd_seq	C_PLUS_CLCK_PC_QUERY
<E>	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLCK_PS_QUERY)	
<E>	cmd_seq	C_PLUS_CLCK_PS_QUERY
(4) ACI_CMD_IND		
	cmd_len	
	NUM_ELEMENTS(M_PLUS_CLCK_ENA)	
	cmd_seq	M_PLUS_CLCK_ENA
(5) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.04.02 GBR Initial

4.23.11 ACI692: Disable personalisation with the incorrect nck

Description:

Disable network personalisation with correct nck.

Preamble:

ACI010

Variants: <A>....<E>

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CLCK="Px",...) *=====>*	 	
(2)	 ACI_CMD_IND (msg: err) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_DIS)
<A>	cmd_seq	C_PLUS_CLCK_PN_DISERR
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_DIS)
	cmd_seq	C_PLUS_CLCK_PU_DISERR
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_DIS)
<C>	cmd_seq	C_PLUS_CLCK_PP_DISERR
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_DIS)
<D>	cmd_seq	C_PLUS_CLCK_PC_DISERR
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_DIS)
<E>	cmd_seq	C_PLUS_CLCK_PS_DISERR
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
	cmd_seq	M_ERR_WRONG_PWD

History: 22.04.02 GBR Initial

4.23.12 ACI693: Enable personalisation with the incorrect nck

Description:

Enable network personalisation with correct nck.

Preamble:

ACI010

Variants: <A>....<E>

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CLCK="Px",...) *=====>*	 	
(2)	 ACI_CMD_IND (msg: err) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_ENA)
<A>	cmd_seq	C_PLUS_CLCK_PN_ENAERR
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_ENA)
	cmd_seq	C_PLUS_CLCK_PU_ENAERR
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_ENA)
<C>	cmd_seq	C_PLUS_CLCK_PP_ENAERR
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_ENA)
<D>	cmd_seq	C_PLUS_CLCK_PC_ENAERR
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_ENA)
<E>	cmd_seq	C_PLUS_CLCK_PS_ENAERR
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
	cmd_seq	M_ERR_WRONG_PWD

History: 22.04.02 GBR Initial

4.23.13 ACI694: Disable personalisation with the incorrect nck 3 times [BLOCKED]

Description:

Disable network personalisation with correct nck.

Preamble:

ACI010

Variants: <A>....<E>

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CLCK="Px",...) * =====> *	 	
(2) ACI_CMD_IND (msg: err) * <===== *	 	
(3) ACI_CMD_REQ (cmd: AT+CLCK="Px",...) * =====> *	 	
(4) ACI_CMD_IND (msg: err) * <===== *	 	
(5) ACI_CMD_REQ (cmd: AT+CLCK="Px",...) * =====> *	 	
(6) ACI_CMD_IND (msg: err) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_DIS)
<A>	cmd_seq	C_PLUS_CLCK_PN_DISERR
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_DIS)
	cmd_seq	C_PLUS_CLCK_PU_DISERR
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_DIS)
<C>	cmd_seq	C_PLUS_CLCK_PP_DISERR
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_DIS)
<D>	cmd_seq	C_PLUS_CLCK_PC_DISERR
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_DIS)
<E>	cmd_seq	C_PLUS_CLCK_PS_DISERR
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
	cmd_seq	M_ERR_WRONG_PWD
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_DIS)
<A>	cmd_seq	C_PLUS_CLCK_PN_DISERR
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_DIS)

	cmd_seq	C_PLUS_CLCK_PU_DISERR
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_DIS)
<C>	cmd_seq	C_PLUS_CLCK_PP_DISERR
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_DIS)
<D>	cmd_seq	C_PLUS_CLCK_PC_DISERR
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_DIS)
<E>	cmd_seq	C_PLUS_CLCK_PS_DISERR
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
	cmd_seq	M_ERR_WRONG_PWD
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PN_DIS)
<A>	cmd_seq	C_PLUS_CLCK_PN_DISERR
	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PU_DIS)
	cmd_seq	C_PLUS_CLCK_PU_DISERR
<C>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PP_DIS)
<C>	cmd_seq	C_PLUS_CLCK_PP_DISERR
<D>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PC_DIS)
<D>	cmd_seq	C_PLUS_CLCK_PC_DISERR
<E>	cmd_len	NUM_ELEMENTS(C_PLUS_CLCK_PS_DIS)
<E>	cmd_seq	C_PLUS_CLCK_PS_DISERR
(6) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PN_PUK_REQ)
<A>	cmd_seq	M_ERR_LOCK_PN_PUK_REQ
	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PU_PUK_REQ)
	cmd_seq	M_ERR_LOCK_PU_PUK_REQ
<C>	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PP_PUK_REQ)
<C>	cmd_seq	M_ERR_LOCK_PP_PUK_REQ
<D>	cmd_len	NUM_ELEMENTS(M_ERR_LOCK_PC_PUK_REQ)
<D>	cmd_seq	M_ERR_LOCK_PC_PUK_REQ
<E>	cmd_len	NUM_ELEMENTS(M_ERR_WRONG_PWD)
<E>	cmd_seq	M_ERR_WRONG_PWD

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT+CPBS=LDN) * =====>*	 	
(2)	 ACI_CMD_IND (msg: OK) * <=====*	 	
(3)	 ACI_CMD_REQ (cmd: AT+CPBR=1,13) * =====>*	 	
(4)	 ACI_CMD_IND (msg: OK) * <=====*	 	

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPBS_LD) C_PLUS_CPBS_LD
(2)	ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3)	ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CPBR) C_PLUS_CPBR
(4)	ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.12.98 AK Initial

4.25 Voice Mail Number Tests (ACI0933-ACI936)

4.25.1 ACI933: Enable Voice Mail Number +CSVM=1,nbr,ton

Description: set Voice Mail Number

Preamble:

	APL	ACI	PS
	ACI001		
(1)	 ACI_CMD_REQ (cmd: CSVM=1,nbr,ton) * =====> *	 	
(2)	 ACI_CMD_IND (msg: OK) * <===== *	 	
(3)	 ACI_CMD_REQ (cmd: CSVM?) * =====> *	 	
(4)	 ACI_CMD_IND (msg: +CSVM:1,..) * <===== *	 	
(5)	 ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CSVM_ENABLE) cmd_seq	CMD_SRC_EXT C_PLUS_CSVM_ENABLE
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CSVM_Q) C_PLUS_CSVM_Q
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CSVM_ENABLE) M_PLUS_CSVM_ENABLE
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.11.00 ENZ Initial

4.25.2 ACI934: Query of Voice Mail Number +CSVM?

Description: Query of Voice Mail Number

Preamble:

	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: CSVM)		
	*=====> *		
(2)	ACI_CMD_IND		
	(msg: +CSVM:1, ..)		
	*<===== *		
(3)	ACI_CMD_IND		
	(msg: OK)		
	*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CSVM_Q)
	cmd_seq	C_PLUS_CSVM_Q
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CSVM_Q)
	cmd_seq	M_PLUS_CSVM_Q
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 22.11.00 ENZ Initial

4.25.3 ACI935: Disable Voice Mail Number +CSVM=0

Description: Disable the mode of a Voice Mail Number and query.

Preamble:

	APL	ACI	PS
	ACI001		
(1)	ACI_CMD_REQ (cmd: CSVM=0) * =====> *	 	
(2)	ACI_CMD_IND (msg: OK) * <===== *	 	
(3)	ACI_CMD_REQ (cmd: CSVM?) * =====> *	 	
(4)	ACI_CMD_IND (msg: +CSVM:0, ..) * <===== *	 	
(5)	ACI_CMD_IND (msg: OK) * <===== *	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CSVM_Disable) cmd_seq	CMD_SRC_EXT C_PLUS_CSVM_Disable
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CSVM_Q) C_PLUS_CSVM_Q
(4) ACI_CMD_IND	cmd_len NUM_ELEMENTS(M_PLUS_CSVM_Disable) cmd_seq	M_PLUS_CSVM_Disable
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 22.11.00 ENZ Initial
 19.09.02 ACI No phone number has been set yet so it is empty when queried.

4.25.4 ACI936: Test of Voice Mail Number +CSVM=?

Description: test Voice Mail Number

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: CSVM=?)		
	=====>		
(2)	ACI_CMD_IND		
	(msg: +CSVM: . .)		
	<=====		
(3)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CSVM_T)
	cmd_seq	C_PLUS_CSVM_T
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CSVM_T)
	cmd_seq	M_PLUS_CSVM_T
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.09.01 ENZ Initial

4.26 Preferred Language Tests (ACI0937-ACI941)

4.26.1 ACI937: Test of language Event +CLAE=?

Description: Test of language Event +CLAE

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: +CLAE=?)		
	* =====> *		
(2)	ACI_CMD_IND		
	(msg: +CLAE= (0-1))		
	* <===== *		
(3)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLAE_T)
	cmd_seq	C_PLUS_CLAE_T
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CLAE_T)
	cmd_seq	M_PLUS_CLAE_T
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 14.09.01 ENZ Initial
19.09.02 ACI OK added !

4.26.2 ACI938: Enable/Disable the mode language Event +CLAE and query it

Description: set mode language Event +CLAE and query it

Variants:

<A>...

Preamble:

ACI001		APL	ACI	PS
(1)				
(2)				
(3)				
(4)				
(5)				

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ		
<A>	cmd_src	CMD_SRC_EXT
	cmd_len	
	NUM_ELEMENTS(C_PLUS_CLAE_Ena)	
	cmd_len	NUM_ELEMENTS(C_PLUS_CLAE_Dis)
<A>	cmd_seq	C_PLUS_CLAE_Ena
	cmd_seq	C_PLUS_CLAE_Dis
(2) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLAE_Q)
	cmd_seq	C_PLUS_CLAE_Q
(4) ACI_CMD_IND		
<A>	cmd_len	NUM_ELEMENTS(M_PLUS_CLAE_Q)
	cmd_len	NUM_ELEMENTS(M_PLUS_CLAE_Dis)
<A>	cmd_seq	M_PLUS_CLAE_Q
	cmd_seq	M_PLUS_CLAE_Dis
(5) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 13.09.01 ENZ Initial

4.26.3 ACI939: Test of supported languages AT+CLAN=?

Description: supported language codes of +CLAN

Preamble:

	ACI001		
	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: +CLAN=?)		
	=====>		
(2)	ACI_CMD_IND		
	(msg: OK)		
	<=====		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLAN_T)
	cmd_seq	C_PLUS_CLAN_T
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CLAN_T)
	cmd_seq	M_PLUS_CLAN_T

History: 14.09.01 ENZ Initial

4.26.4 ACI940: set language +CLAN with result code enabled and query.

Description: set language code of +CLAN to German and then query.

Preamble:

	APL	ACI	PS
	ACI938A		
(1)	ACI_CMD_REQ		
	(cmd: +CLAN="de")		
	* =====> *		
(2)	ACI_CMD_IND		
	(result code +CLAV: de)		
	* <===== *		
(3)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		
(4)	ACI_CMD_REQ		
	(cmd: +CLAN?)		
	* =====> *		
(5)	ACI_CMD_IND		
	(msg: +CLAN: de)		
	* <===== *		
(6)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_S) C_PLUS_CLAN_S
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAV_rst) M_PLUS_CLAV_rst
(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(4) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_Q) C_PLUS_CLAN_Q
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAN_Q) M_PLUS_CLAN_Q

(6) ACI_CMD_IND

cmd_len
cmd_seq

NUM_ELEMENTS(M_OK)
M_OK

History: 26.09.01 ENZ Initial

4.26.5 ACI941: set language +CLAN with result code disabled and query.

Description: set language code of +CLAN to German and then query.

Preamble:

	APL	ACI	PS
(1)	ACI_CMD_REQ		
	(cmd: +CLAN="de")		
	* =====> *		
(2)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		
(3)	ACI_CMD_REQ		
	(cmd: +CLAN?)		
	* =====> *		
(4)	ACI_CMD_IND		
	(msg: +CLAN: de)		
	* <===== *		
(5)	ACI_CMD_IND		
	(msg: OK)		
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_S) C_PLUS_CLAN_S
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_Q) C_PLUS_CLAN_Q
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAN_Q) M_PLUS_CLAN_Q
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 26.09.01 ENZ Initial

4.26.6 ACI943: Enable the result code +CLAE, set automatic select language +CLAN and query

Description: set language code of +CLAN to Automatic. SIM answers with German: this will be written in PCM. Then value is queried.

Preamble:

	APL	ACI	PS
	ACI938A		
(1)	ACI_CMD_REQ (cmd: +CLAN="au") *=====>*		
(2)		SIM_READ_REQ *=====>*	
(3)		SIM_READ_CNF *<=====*	
(4)	ACI_CMD_IND (result code +CLAV:.de) *<=====*		
(5)	ACI_CMD_IND (msg: OK) *<=====*		
(6)	ACI_CMD_REQ (cmd: +CLAN?) *=====>*		
(7)	ACI_CMD_IND (msg: +CLAN: de) *<=====*		
(8)	ACI_CMD_IND (msg: OK) *<=====*		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLAN_AUTO) cmd_seq	CMD_SRC_EXT C_PLUS_CLAN_AUTO
(2) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_ELP NOT_PRESENT_8BIT NUM_20
(3) SIM_READ_CNF	datafield cause length trans_data	SIM_ELP SIM_NO_ERROR NUM_18 A_ELP_FIELD

(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAV_rst) M_PLUS_CLAV_rst
(5) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(6) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_Q) C_PLUS_CLAN_Q
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAN_Q) M_PLUS_CLAN_Q
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 26.09.01 ENZ Initial
 17.09.02 ACI When querying no request to SIM since it's already in PCM.

4.26.7 ACI944: Disable the result code +CLAE, set automatic select language +CLAN and query

Description: set language code of +CLAN to Automatic. SIM answers with German: this will be written in PCM. Then value is queried.

Preamble:

	ACI938B		
	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: +CLAN="au") * =====> *		
(2)		SIM_READ_REQ * =====> *	
(3)		SIM_READ_CNF * <===== *	
(4)	ACI_CMD_IND (msg: OK) * <===== *		
(5)	ACI_CMD_REQ (cmd: +CLAN?) * =====> *		
(6)	ACI_CMD_IND (msg: +CLAN:de..) * <===== *		
(7)	ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
------------------	------------------	--------------

(1) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLAN_AUTO) cmd_seq	CMD_SRC_EXT C_PLUS_CLAN_AUTO
(2) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_ELP NOT_PRESENT_8BIT NUM_20
(3) SIM_READ_CNF	datafield cause length trans_data	SIM_ELP SIM_NO_ERROR NUM_18 A_ELP_FIELD
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CLAN_Q) C_PLUS_CLAN_Q
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAN_Q) M_PLUS_CLAN_Q
(7) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK

History: 26.09.01 ENZ Initial
 19.09.02 ACI Same as for ACI943

4.26.8 ACI945: occur error of read EF ELP after set command +CLAN

Description: set language code of +CLAN

Variants:

<A>...<C>

Preamble:

```

    <A>ACI945A
    <B>ACI945B
    <C>ACI945C

```

	APL	ACI	PS
(1)		SIM_READ_REQ	
		*=====> *	
(2)		SIM_READ_CNF	
		*<===== *	
(3)	ACI_CMD_IND		
	(msg: OK)		
	*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_LP
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(2) SIM_READ_CNF	datafield	SIM_LP
	cause	SIM_NO_ERROR
	length	NUM_5
	trans_data	A_LP_FIELD
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 26.09.01 ENZ Initial

4.26.10 ACI947: Unknown Error at read of EF LP

Description: set language code of +CLAN

Preamble:

```

    ACI945A

```

	APL	ACI	PS
(1)		SIM_READ_REQ	
		*=====> *	
(2)		SIM_READ_CNF	
		*<===== *	
(3)	ACI_CMD_IND		
	(msg: ERROR)		
	*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_LP
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(2) SIM_READ_CNF	datafield	SIM_LP
	cause	SIM_CAUSE_OTHER_ERROR
	length	NUM_5
	trans_data	A_LP_FIELD
(3) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_ERROR)
	cmd_seq	M_ERROR

History: 26.09.01 ENZ Initial

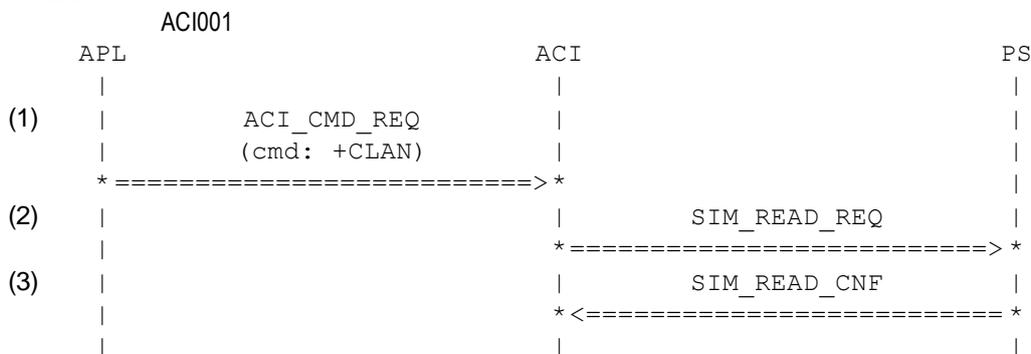
4.26.11 ACI948: occur error of read EF ELP after query command +CLAN

Description: query language code of +CLAN

Variants:

<A>...<C>

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLAN_Q)
	cmd_seq	C_PLUS_CLAN_Q
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ELP
	length	NOT_PRESENT_8BIT
	max_length	NUM_20

(3) SIM_READ_CNF

	datafield	SIM_ELP
<A>	cause	SIM_CAUSE_UNKN_FILE_ID
	cause	SIM_CAUSE_UNKN_FILE_ID
<C>	cause	SIM_NO_ERROR
	length	NUM_18
<A>	trans_data	A_ELP_FIELD
	trans_data	A_ELP_LAN_NOT_SUP
<C>	trans_data	A_ELP_LAN_NOT_SUP

History: 26.09.01 ENZ Initial

4.26.12 ACI949: successful read of EF LP after query command +CLAN

Description: query language code of +CLAN

Variants:

<A>...<C>

Preamble:

<A>ACI948A
 ACI948B
 <C>ACI948C

	APL	ACI	PS
(1)			
		SIM_READ_REQ	
		*=====> *	
(2)			
		SIM_READ_CNF	
		*<===== *	
(3)			
	ACI_CMD_IND		
	(msg: +CLAN:de..)		
	*<===== *		
(4)			
	ACI_CMD_IND		
	(msg: OK)		
	*<===== *		

Parametrization:

	Primitive	Parameter	Value
(1) SIM_READ_REQ		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_LP
		length	NOT_PRESENT_8BIT
		max_length	NUM_5
(2) SIM_READ_CNF		datafield	SIM_LP
		cause	SIM_NO_ERROR
		length	NUM_5
		trans_data	A_LP_FIELD

(3) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CLAN_ar) M_PLUS_CLAN_ar
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	26.09.01 ENZ Initial	

4.26.13 ACI950: default language is selected after fail read of EF LP

Description: query language code of +CLAN

Variants:

<A>...<C>

Preamble:

ACI948A
ACI948B
ACI948C

	APL	ACI	PS
(1)		SIM_READ_REQ	
		*=====> *	
(2)		SIM_READ_CNF	
		*<===== *	
(3)	ACI_CMD_IND		
	(msg: +CLAN:en..)		
	*<===== *		
(4)	ACI_CMD_IND		
	(msg: OK)		
	*<===== *		

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_LP
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(2) SIM_READ_CNF	datafield	SIM_LP
	<A> cause	SIM_CAUSE_UNKN_FILE_ID
	 cause	SIM_CAUSE_UNKN_FILE_ID
	<C> cause	SIM_NO_ERROR
	length	NUM_5
	<A> trans_data	A_LP_FIELD
	 trans_data	A_LP_LAN_NOT_SUP
	<C> trans_data	A_LP_LAN_NOT_SUP

	cmd_seq	C_PERCENT_ALS_OFF
(2) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(3) ACI_CMD_REQ	cmd_src cmd_len NUM_ELEMENTS(C_PLUS_CLIR_SUP) cmd_seq	CMD_SRC_EXT C_PLUS_CLIR_SUP
(4) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(5) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_COLP_ON) C_PLUS_COLP_ON
(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(7) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_CHPIN) C_D_CHPIN
(8) SIM_CHANGE_PIN_REQ	source old_pin new_pin pin_id	SRC_MMI A_PIN_1234 A_PIN_4321 PHASE_2_PIN_1
History:	04.06.02 KGT	Initial

4.26.15 ACI952: Change Pin by SS string, new PIN differs from verify new PIN

Description:

Preamble:

ACI001

	APL	ACI	PS
(1)	 ACI_CMD_REQ (cmd: AT%ALS=)	 	
	* =====> *		
(2)	ACI_CMD_IND (msg: OK)	 	
	* <===== *		
(3)	ACI_CMD_REQ (cmd: AT+CLIR=2)	 	
	* =====> *		
(4)	ACI_CMD_IND (msg: OK)	 	
	* <===== *		
(5)	ACI_CMD_REQ (cmd: AT+COLP=1)	 	
	* =====> *		
(6)	ACI_CMD_IND (msg: OK)	 	
	* <===== *		
(7)	ACI_CMD_REQ (cmd: ATD**04*...)	 	
	* =====> *		
(8)	ACI_CMD_IND (msg: ERROR)	 	
	* <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PERCENT_ALS_OFF)
	cmd_seq	C_PERCENT_ALS_OFF
(2) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_CLIR_SUP)
	cmd_seq	C_PLUS_CLIR_SUP
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
(5) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	NUM_ELEMENTS(C_PLUS_COLP_ON)
	cmd_seq	C_PLUS_COLP_ON

(6) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
(7) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_D_CHPIN) C_D_CHPIN_FAIL
(8) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_ERROR) M_ERROR

History: 04.06.02 KGT Initial

4.26.16 ACI955: +CNUM

Description:

Mobile originated emergency call establishment

Preamble:

ACI030

	APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT+CNUM?) *=====>*	 	
(2)	 	SIM_READ_RECORD_REQ *=====>*	
(3)	 	SIM_READ_RECORD_CNF *<=====*	
(4)	ACI_CMD_IND (msg: +CNUM:...) *<=====*	 	
(5)	ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

	Primitive	Parameter	Value
(1) ACI_CMD_REQ		cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CNUM) C_PLUS_CNUM
(2) SIM_READ_RECORD_REQ		source datafield record length	SRC_MMI SIM_MSISDN NUM_1 MAX_DATAS
(3) SIM_READ_RECORD_CNF		datafield	SIM_MSISDN

	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN
(4) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM)
	cmd_seq	M_PLUS_CNUM
(5) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK
History:	07.06.02	KGT
	Initial	

4.26.17 ACI956: +CNUM, 2 MSISDN available

Description: Mobile originated emergency call establishment

Preamble: ACI030

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CNUM?) *=====>*	 	
(2) 	SIM_READ_RECORD_REQ *=====>*	
(3) 	SIM_READ_RECORD_CNF *<=====*	
(4) 	SIM_READ_RECORD_REQ *=====>*	
(5) 	SIM_READ_RECORD_CNF *<=====*	
(6) ACI_CMD_IND (msg: +CNUM:...) *<=====*	 	
(7) ACI_CMD_IND (msg: +CNUM:...) *<=====*	 	
(8) ACI_CMD_IND (msg: OK) *<=====*	 	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT

	cmd_len	NUM_ELEMENTS(C_PLUS_CNUM)
	cmd_seq	C_PLUS_CNUM
(2) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_1
	length	MAX_DATAS
(3) SIM_READ_RECORD_CNF	datafield	SIM_MSISDN
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_2
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN
(4) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_2
	length	LDATA_MSISDN
(5) SIM_READ_RECORD_CNF	datafield	SIM_MSISDN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_2
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM)
	cmd_seq	M_PLUS_CNUM
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM)
	cmd_seq	M_PLUS_CNUM
(8) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_OK)
	cmd_seq	M_OK

History: 08.06.02 KGT Initial

4.26.18 ACI957: +CNUM, 4 MSISDN available

Description: Mobile originated emergency call establishment

Preamble: ACI030

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CNUM?) * =====> *		
(2)	SIM_READ_RECORD_REQ * =====> *	
(3)	SIM_READ_RECORD_CNF * <===== *	
(4)	SIM_READ_RECORD_REQ * =====> *	
(5)	SIM_READ_RECORD_CNF * <===== *	
(6) ACI_CMD_IND (msg: +CNUM:...) * <===== *		
(7) ACI_CMD_IND (msg: +CNUM:...) * <===== *		
(8)	SIM_READ_RECORD_REQ * =====> *	
(9)	SIM_READ_RECORD_CNF * <===== *	
(10)	SIM_READ_RECORD_REQ * =====> *	
(11)	SIM_READ_RECORD_CNF * <===== *	
(12) ACI_CMD_IND (msg: +CNUM:...) * <===== *		
(13) ACI_CMD_IND (msg: +CNUM:...) * <===== *		
(14) ACI_CMD_IND (msg: OK) * <===== *		

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CNUM) C_PLUS_CNUM
(2) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_1 MAX_DATAS
(3) SIM_READ_RECORD_CNF	datafield cause record	SIM_MSISDN SIM_NO_ERROR NUM_1

	max_record	NUM_4
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN
(4) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_2
	length	LDATA_MSISDN
(5) SIM_READ_RECORD_CNF	datafield	SIM_MSISDN
	cause	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_4
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN2
(6) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM)
	cmd_seq	M_PLUS_CNUM
(7) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM2)
	cmd_seq	M_PLUS_CNUM2
(8) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_3
	length	LDATA_MSISDN
(9) SIM_READ_RECORD_CNF	datafield	SIM_MSISDN
	cause	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_4
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN3
(10) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_MSISDN
	record	NUM_4
	length	LDATA_MSISDN
(11) SIM_READ_RECORD_CNF	datafield	SIM_MSISDN
	cause	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_4
	length	LDATA_MSISDN
	linear_data	DATA_MSISDN
(12) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM2)
	cmd_seq	M_PLUS_CNUM2
(13) ACI_CMD_IND	cmd_len	NUM_ELEMENTS(M_PLUS_CNUM)
	cmd_seq	M_PLUS_CNUM

(2) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_1 MAX_DATAS
(3) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_1 NUM_2 LDATA_MSISDN DATA_MSISDN4
(4) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CCP NUM_1 MAX_CCP_LEN
(5) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CCP SIM_NO_ERROR NUM_1 NUM_2 LDATA_CCP DATA_CCP
(6) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_2 LDATA_MSISDN
(7) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_2 NUM_2 LDATA_MSISDN DATA_MSISDN5
(8) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CCP NUM_2 MAX_CCP_LEN
(9) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CCP SIM_NO_ERROR NUM_2 NUM_2 LDATA_CCP2 DATA_CCP2
(10) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CNUM2) M_PLUS_CNUM2

(11) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_PLUS_CNUM2) M_PLUS_CNUM2
(12) ACI_CMD_IND	cmd_len cmd_seq	NUM_ELEMENTS(M_OK) M_OK
History:	08.06.02 KGT Initial	

4.26.20 ACI959: +CNUM, 2 MSISDN with CCP available

Description: Mobile originated emergency call establishment

Preamble: ACI030

APL	ACI	PS
(1) ACI_CMD_REQ (cmd: AT+CNUM?)		
=====>		
(2)	SIM_READ_RECORD_REQ	
	=====>	
(3)	SIM_READ_RECORD_CNF	
	<=====	
(4)	SIM_READ_RECORD_REQ	
	=====>	
(5)	SIM_READ_RECORD_CNF	
	<=====	
(6)	SIM_READ_RECORD_REQ	
	=====>	
(7)	SIM_READ_RECORD_CNF	
	<=====	
(8)	SIM_READ_RECORD_REQ	
	=====>	
(9)	SIM_READ_RECORD_CNF	
	<=====	
(10) ACI_CMD_IND (msg: +CNUM:...)		
<=====		
(11) ACI_CMD_IND (msg: +CNUM:...)		
<=====		
(12) ACI_CMD_IND (msg: OK)		
<=====		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(13) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT NUM_ELEMENTS(C_PLUS_CNUM) C_PLUS_CNUM
(14) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_1 MAX_DATAS
(15) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_1 NUM_2 LDATA_MSISDN DATA_MSISDN4
(16) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CCP NUM_1 MAX_CCP_LEN
(17) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CCP SIM_NO_ERROR NUM_1 NUM_2 LDATA_CCP2 DATA_CCP2
(18) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_MSISDN NUM_2 LDATA_MSISDN
(19) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_MSISDN SIM_NO_ERROR NUM_2 NUM_2 LDATA_MSISDN DATA_MSISDN5
(20) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_CCP NUM_2 MAX_CCP_LEN
(21) SIM_READ_RECORD_CNF	datafield cause record max_record length linear_data	SIM_CCP SIM_NO_ERROR NUM_2 NUM_2 LDATA_CCP3 DATA_CCP3

		cmd_len		NUM_ELEMENTS(C_AT)
		cmd_seq		C_AT
(4)	ACI_CMD_IND			
			cmd_len	NUM_ELEMENTS(M_OK)
			cmd_seq	M_OK
History:	04.02.03	SKA	Initial	