GSM Fax & Data Services

Test Specification
ACI SAT

Author: Condat AG
Alt-Moabit 91d
D-10559 Berlin
Germany

Date: 01 November 2002
Document No.: 8411.417.98.101
File: ACISAT.DOC

Table of Contents

0 Document Control 7
0.1 References 8
0.2 Abbreviations 11
0.3 Terms 13

1 Overview 14
1.1 RA - Rate Adaptation 14
1.2 RLP - Radio Link Protocol 14
1.3 L2R - Layer 2 Relay Functionality 14
1.4 FAD 03.45 - Fax Adaptation Protocol 15
1.5 T.30 - Fax Protocol Entity 15
1.6 ACI - AT Command Interpreter 15
1.7 USART - Universal Synchronous Asynchronous Receiver Transmitter Driver 15

2 Parameters 16

3 TEST CASES please use G23_SMI_GPRS_WAP.exe !!!!!!!!!! 146
3.1 Routing (internal) (ACISAT001 - ACISAT010) 146
3.1.1 ACISAT001: Setup the Routing and the PCO view for the ACI SAT test 146
3.2 Initialisation (ACISAT011 - ACISAT019) 147
3.2.1 ACISAT011: Power On 147
3.2.2 ACISAT012: Power On with various Terminal Profiles 149
3.2.3 ACISAT013: Power On with various received SIM Service Tables 152
3.2.4 ACISAT014: Initialisation Ready without Additional SIM Data read 154
3.2.5 ACISAT015: Initialisation Ready with SMS Parameters read from SIM 155
3.3 User Call Setup (ACISAT020-ACISAT059) 158
3.3.1 ACISAT020: Single voice call, with call control by SIM, no modification. 158
3.3.2 ACISAT021: Second voice call, with call control by SIM, no modification. 160
3.3.3 ACISAT022: Single voice call, with call control by SIM, modified. 162
3.3.4 ACISAT023: Single voice call, with call control by SIM, not allowed. 164
3.3.5 ACISAT024: Single voice call, with call control by SIM, modified to SS transaction. 166
3.3.6 ACISAT025: Single data call, with call control by SIM, no modification. 167
3.4 User SS Control String (ACISAT060-ACISAT099) 170
3.4.1 ACISAT060: SS string, with call control by SIM, no modification. 170
3.4.2 ACISAT061: SS String, with call control by SIM, modified. 171
3.4.3 ACISAT062: SS String, with call control by SIM, not allowed. 172
3.4.4 ACISAT063: SS String, with call control by SIM, modified to call setup. 173
3.4.5 ACISAT064: Accept Modified SAT Call. 174
3.4.6 ACISAT065: Reject Modified SAT Call. 176
3.5 SAT Send SS (ACISAT100-ACISAT149) 176
3.5.1 ACISAT100: Send SS, no CC check by SIM, successful. 176
3.5.2 ACISAT101: Send SS, no CC check by SIM, ME is busy on SS. 177
3.5.3 ACISAT102: Send SS, no CC check by SIM, ME capabilities. 178
3.5.4 ACISAT103: Send SS, no CC check by SIM, error result. 179
3.5.5 ACISAT104: Send SS, no CC check by SIM, reject result. 179
3.5.6 ACISAT105: Send SS, CC check by SIM, no modification. 180
3.5.7 ACISAT106: Send SS, CC check by SIM, not allowed. 182
3.5.8 ACISAT107: Send SS, CC check by SIM, allowed but SS busy. 183
3.5.9 ACISAT108: Send SS, CC check by SIM, no modification but error result. 185
3.5.10 ACISAT109: Send SS, CC check by SIM, modification to voice call. 186
3.5.11 ACISAT110: Reject Modified SAT Call. 187
3.5.12 ACISAT111: Accept Modified SAT Call, connected successfully. 188
3.5.13 ACISAT112: Accept Modified SAT Call, network reject. 190
3.5.14 ACISAT113: Accept Modified SAT Call, user abort. 191
3.5.15 ACISAT114: Send SS, CC check by SIM, modification to voice call with DTMF. 193
3.5.16 ACISAT115: Accept Modified SAT Call with DTMF, connected successfully. 194

3.6 SAT Setup Call (ACISAT150-ACISAT199) 197
3.6.1 ACISAT150: Setup Call, no CC check by SIM, alert user. 197
3.6.2 ACISAT151: Reject SAT Call Setup. 198
3.6.3 ACISAT152: Accept SAT Call Setup, connected successfully. 199
3.6.4 ACISAT153: Accept SAT Call Setup, network reject. 201
3.6.5 ACISAT154: Accept SAT Call Setup, user abort. 202
3.6.6 ACISAT155: Setup Call, no CC check by SIM, not in idle mode. 204
3.6.7 ACISAT156: Second SAT Call Setup, no CC check by SIM, connected successfully. 205
3.6.8 ACISAT157: Second SAT Call Setup first call already on hold, no CC check by SIM, connected suc. 207
3.6.9 ACISAT158: Third SAT Call Setup first call already on hold, second call active, no CC check by SIM, beyond ME capability 209
3.6.10 ACISAT159: SAT Call Setup with hold option, during an active data call, no CC check by SIM, beyond ME capability. 210
3.6.11 ACISAT160: Second SAT Call Setup, no CC check by SIM, call hold of first call not supported. 213
3.6.12 ACISAT161: Third SAT Call Setup disconnect other calls, no CC check by SIM, connected successfully. 214
3.6.13 ACISAT162: Setup Call, CC check by SIM, no modification. 217
3.6.14 ACISAT163: Setup Call, CC check by SIM, not allowed. 219
3.6.15 ACISAT164: Setup Call, CC check by SIM, modified call. 220
3.6.16 ACISAT165: Setup Call, CC check by SIM, modified emergency call. 221
3.6.17 ACISAT170: Reject Unmodified SAT Call. 222
3.6.18 ACISAT171: Accept Unmodified SAT Call, connected successfully. 223
3.6.19 ACISAT172: Accept Unmodified SAT Call, network reject. 225
3.6.20 ACISAT173: Accept Unmodified SAT Call, user abort. 226
3.6.21 ACISAT174: Reject Modified SAT Call. 228
3.6.22 ACISAT175: Accept Modified SAT Call, connected successfully. 229
3.6.23 ACISAT176: Accept Modified SAT Call, network reject. 230
3.6.24 ACISAT177: Accept Modified SAT Call, user abort. 232
3.6.25 ACISAT178: Accept Modified SAT Emergency Call, connected successfully. 233
3.6.26 ACISAT180: Setup Call, CC check by SIM, modification to SS string. 235
3.6.27 ACISAT181: Setup Call, CC check by SIM, modification to SS string, error result. 237
3.6.28 ACISAT182: Setup Call, CC check by SIM, modification to SS string, ME capability. 238
3.6.29 ACISAT183: Setup Call, CC check by SIM, modification to SS string, SS busy. 239
3.6.30 ACISAT184: Setup Call, CC check by SIM, modification to SS string, test long length coding. 241
3.6.31 ACISAT185: Setup Call with DTMF tones, no CC check by SIM, alert user. 243
3.6.32 ACISAT186: Accept SAT Call Setup with DTMF tones, connected successfully. 244
3.6.33 ACISAT187: Setup Call with Redial, no CC check by SIM, alert user. 247
3.6.34 ACISAT188: Accept SAT Call Setup with redialling, network reject. 248
3.6.35 ACISAT191: Setup Call, only if not currently busy on another call with redial. 250
3.6.36 ACISAT192: Setup Call, CC check by SIM, respond with '90 00'. 251
3.6.37 ACISAT193: Setup Call, CC check by SIM, respond with '93 00' or different error. 253
3.6.38 ACISAT194: Accept SAT Call Setup, disconnect previous call. 254
3.6.39 ACISAT195: Second SAT Call Setup, set first call on hold. 258
3.6.40 ACISAT196: Second SAT Call Setup, set first call on hold failed. 260
3.6.41 ACISAT197: Setup Call, only if not currently busy on another call. 262
3.6.42 ACISAT198: Setup Call, only if not currently busy on another call with redial. 264
3.6.43 ACISAT199: Setup Call, only if not currently busy on another call with redial. 265
3.7 SAT abnormal cases (ACISAT200-ACISAT249) 266
3.7.1 ACISAT200: SAT command with unknown tag, comprehension not required. 266
3.7.2 ACISAT201: SAT command with unknown tag, comprehension required. 267
3.8 SAT remote user interface (ACISAT250-ACISAT299) 268
3.8.1 ACISAT250: SAT configuration. 268
3.8.2 ACISAT251: Envelope command by user. 270
3.8.3 ACISAT252: User response to SAT command. 271
3.8.4 ACISAT253: User terminates session or command. 272
3.9 SAT Proactive Command REFRESH (ACISAT300-ACISAT329) 273
3.9.1 ACISAT301: SIM Reset: Check Signal 273
3.9.2 ACISAT302: SIM Activation after REFRESH: Check Signal 274

3.9.3 ACISAT311: Unsolicited Reception of SIM_MMI_INSERT_IND 276
3.9.4 ACISAT312: Initialisation Ready without Additional SIM Data read 277
3.9.5 ACISAT313: Initialisation Ready with SMS Parameters read from SIM 280
3.9.6 ACISAT321: SAT File Change Notification: no Update Required 283
3.9.7 ACISAT322: SAT File Change Notification: Update Required for SMS/CBCH Parameters 284
3.9.8 ACISAT323: SAT File Change Notification: Update Required for LP, AD and Phonebook Parameters 287
3.9.9 ACISAT324: SAT File Change Notification: Update Required for AD and ACM Parameters 290
3.10 CB Data Download 292
3.10.1 ACISAT331: CB Message received: Mess Id found in EF(CBMID): Transfer to SIM 292
3.10.2 ACISAT332: CB Message received: Mess ID not found in EF(CBMID): No Transfer to SIM 293
3.10.3 ACISAT333: CB Message received: Mess Id found in EF(CBMID): same CBM page 295
3.10.4 ACISAT334: CB Message received: Mess Id found in EF(CBMID): other CBM page 297
3.10.5 ACISAT335: CB Message received: Mess Id found in EF(CBMID): a 3rd and 4th different CBM page 299
3.10.6 ACISAT336: CB Message received: MessId found in EF(CBMID): same identifiers, but other page number 300
3.10.7 ACISAT337: CB Message received: more CBM downloaded than can be saved in list 301
3.10.8 ACISAT338: CB Message received: more CBM downloaded than can be saved in list and update some 304
3.11 SAT Proactive Command SEND SHORT MESSAGE 306
3.11.1 ACISAT341: SAT Request for SEND SM 306
3.11.2 ACISAT342: SAT Request for SEND SM (Long Message) 307
3.11.3 ACISAT343: SAT Request for SEND SM 308
3.12 SAT Proactive Command SETUP EVENT LIST 309
3.12.1 ACISAT350: SAT Request for SETUP EVENT LIST 309
3.12.2 ACISAT351: MO single voice call with event monitored 310
3.12.3 ACISAT352: Disconnect single voice call with event monitored 312
3.13 MO SMS Control from SIM 313
3.13.1 ACISAT360: Set Text Mode Format 313
3.13.2 ACISAT361: Select Service Center Address 313
3.13.3 ACISAT362: Send Short Message with SIM Control (Part 1) 314
3.13.4 ACISAT363: Send Short Message with MO-SM Control by SIM: allowed 315
3.13.5 ACISAT364: Send Short Message with MO-SM Control by SIM: not allowed 316
3.13.6 ACISAT365: Send Message From Memory 317
3.13.7 ACISAT366: Send Message From Memory (with READ_REQ/CNF) 319
3.13.8 ACISAT367: SAT Request for SEND SM with MO-SM Control by SIM 321
3.14 SAT Send USSD (ACISAT370-ACISAT) 322
3.14.1 ACISAT370: Send USSD, no CC check by SIM, successful. 322
3.14.2 ACISAT371: Send USSD, no CC check by SIM, ME is busy on SS. 323
3.14.3 ACISAT372: Send USSD, no CC check by SIM, error result. 323
3.14.4 ACISAT373: Send USSD, no CC check by SIM, reject result. 324
3.14.5 ACISAT374: Send USSD, no CC check by SIM, received fac_inf is empty. 325
3.15 SAT Send DTMF (ACISAT380-ACISAT) 326
3.15.1 ACISAT380: Send DTMF. 326
3.16 SAT Run AT command (ACISAT390) 328
3.16.1 ACISAT390: Run at., AT+CSNS 328
3.16.2 ACISAT391: Run at, AT+COPS?, buffered responses. 329
3.17 SAT Provide Local Information (ACISAT400) 330
3.17.1 ACISAT400: Provide Local Information, date-time and time zone 330
3.18 SAT Launch Browser (ACISAT401) 331
3.18.1 ACISAT401: LAUNCH BROWSER command received from SAT 331
3.19 SAT Receive Data command (ACISAT405-) 332
3.19.1 ACISAT405: RECEIVE DATA, notification to APL 332
3.20 SAT Send Data command (ACISAT410-) 333
3.20.1 ACISAT410: SEND DATA, on-demand, notification to APL 333
3.20.2 ACISAT411: SEND DATA, immediate, notification to APL 333
3.20.3 ACISAT412: SEND DATA establishment, CSD, rejected by network 335
3.20.4 ACISAT413: SEND DATA establishment, CSD, PPP_TERMINATE_IND received before PPP_ESTABLISH_CNF 337
3.20.5 ACISAT414: SEND DATA establishment, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF 340

3.20.6 ACISAT415: SEND DATA establishment, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF FAIL 343
3.20.7 ACISAT416: SEND DATA establishment, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF 345
3.20.8 ACISAT417: SEND DATA establishment, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF FAIL 348
3.20.9 ACISAT418: SEND DATA, User clears down CSD establishment, UDP 350
3.20.10 ACISAT419: SEND DATA establishment, GPRS, rejected by network FAIL 353
3.20.11 ACISAT420: SEND DATA establishment, CSD/GPRS, SIM disconnect after SIM failure D and E FAIL 354
3.21 SAT Get Channel Status command (ACISAT425-) 356
3.21.1 ACISAT425: GET CHANNEL STATUS request by SIM, notification to APL, response to SIM 356
3.22 SAT Open Channel command (ACISAT430-4) 357
3.22.1 ACISAT430: OPEN CHANNEL command received from SAT 357
3.22.2 ACISAT431: OPEN CHANNEL CSD with call control by SIM 360
3.22.3 ACISAT432: User accepts OPEN CHANNEL command 361
3.22.4 ACISAT433: User rejects OPEN CHANNEL command 363
3.22.5 ACISAT434: OPEN CHANNEL command not allowed by CC SIM. 365
3.22.6 ACISAT435: Termination for OPEN CHANNEL command, on-demand 366
3.22.7 ACISAT440: OPEN CHANNEL/SEND DATA establishment, CSD, successful (call setup part) 368
3.22.8 ACISAT441: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, successful (UDP activation part) 371
3.22.9 ACISAT442: OPEN CHANNEL/SEND DATA establishment, CSD, successful (RA part) 372
3.22.10 ACISAT443: OPEN CHANNEL/SEND DATA establishment, CSD, successful (L2R part) 374
3.22.11 ACISAT444: OPEN CHANNEL/SEND DATA establishment, CSD, successful (TRA part) 376
3.22.12 ACISAT445: OPEN CHANNEL/SEND DATA establishment, CSD, successful (PPP activation part) 377
3.22.13 ACISAT446: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, successful (UDP configuration) 379
3.22.14 ACISAT447: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, suc/unsuc (SIM connect) C, D, E, H, I, J, M, N, O, P, R, T, V, X FAIL 380
3.22.15 ACISAT448: OPEN CHANNEL establishment, CSD/GPRS, suc/unsuc (command termination) 389
3.22.16 ACISAT449: OPEN CHANNEL establishment, CSD, rejected by network 391
3.22.17 ACISAT450: OPEN CHANNEL establishment, CSD, user abort 393
3.22.18 ACISAT451: OPEN CHANNEL establ, CSD, PPP_TERMINATE_IND received before PPP_ESTABLISH_CNF 395
3.22.19 ACISAT452: OPEN CHANNEL establ, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF 397
3.22.20 ACISAT453: OPEN CHANNEL establ, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF 400
3.22.21 ACISAT454: OPEN CHANNEL establ, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF 403
3.22.22 ACISAT455: OPEN CHANNEL establ, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF 405
3.22.23 ACISAT456: OPEN CHANNEL unsuccessful (command termination) 408
3.22.24 ACISAT457: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (context activation) B FAIL 409
3.22.25 ACISAT458: OPEN CHANNEL establishment, GPRS, rejected by network FAIL 411
3.22.26 ACISAT459: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (SNDCP switch) 413
3.22.27 ACISAT460: OPEN CHANNEL, suspend/resume of GPRS channel 414
3.22.28 ACISAT461: OPEN CHANNEL SIM disconnect after SIM connection failure 418
3.22.29 ACISAT462: OPEN CHANNEL/SEND DATA establishment, CSD, successful (L2R part) 420
3.22.30 ACISAT463: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (context activation) 421
3.23 SAT Close Channel command (ACISAT 470-) 423
3.23.1 ACISAT470: CLOSE CHANNEL, notification to APL 423
3.23.2 ACISAT471: CLOSE CHANNEL disconnect, CSD/GPRS, successful (SIM disconnect) G to J FAIL 425
3.23.3 ACISAT472: CLOSE CHANNEL disconnect, CSD, successful (PPP disconnect) variant F FAIL 426
3.23.4 ACISAT473: CLOSE CHANNEL disconnect, CSD/GPRS, successful (UDP disconnect) all variants FAIL 427
3.23.5 ACISAT474: CLOSE CHANNEL disconnect, CSD, successful (L2R disconnect) All FAIL 430
3.23.6 ACISAT475: CLOSE CHANNEL disconnect, CSD, successful (RA disconnect) All FAIL 431
3.23.7 ACISAT476: CLOSE CHANNEL disconnect, CSD, successful (Call disconnect) All FAIL 432
3.23.8 ACISAT477: CLOSE CHANNEL disconnect, GPRS, successful (context deactivation) C to F and I and J FAIL 433
3.23.9 ACISAT478: CLOSE CHANNEL disconnect, CSD, successful (L2R part, best cases) All FAIL 434
3.23.10 ACISAT479: CLOSE CHANNEL disconnect, CSD, successful (TRA part) 436
3.23.11 ACISAT480: Unsolicited Problem Report from SIM 437
3.23.12 ACISAT481: CLOSE CHANNEL disconnect, CSD, successful (L2R part, worse case immediate) 438

3.23.13 ACISAT482: CLOSE CHANNEL disconnect, CSD, successful (L2R part, worse case on demand) All FAIL.....440
3.23.14 ACISAT483: CLOSE CHANNEL disconnect, CSD, , SIM disconnect after SIM failure (TRA part) FAIL 442
3.24 SAT Channel Status Event (ACISAT 490-) 443
3.24.1 ACISAT490: Channel Status Event Setup 443
3.24.2 ACISAT491: Channel Status Event, CSD break down 444
3.24.3 ACISAT492: Channel Status Event, indication FAIL 445

0 Document Control

© Copyright Condat DV-Beratung Organisation und Software GmbH, 1998.

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 GmbH 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 GmbH. Condat GmbH 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 GmbH.

Condat DV-Beratung
Organisation und Software GmbH
Alt Moabit 91d
10559 Berlin
Germany

Telephone: +49.30.39094-0
Fax: +49.30.39094-300
Internet: http://www.condat.de
E-mail: gsm@condat.deDocument History

Document Id.	Date	Author	Remarks
8411.417.98.100	8 August 1998	AK	Initial
8411.417.98.101	23 August 2002	RM	Update, add SATClass C
8411.417.98.101	1 November 2002	RM	add testcase 401
8411.417.98.101	28 April 2003	CLB	Unify testcases for G23_SMI_WAP_GPRS.exe

0.1 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 definde 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 GmbH

[26] Service Access Point RA
8411.100.98.100; Condat GmbH

[27] Service Access Point RLP
8411.101.98.100; Condat GmbH

[28] Service Access Point L2R
8411.102.98.100; Condat GmbH

[29] Service Access Point FAD
8411.103.98.100; Condat GmbH

[30] Service Access Point T30
8411.104.98.100; Condat GmbH

[31] Service Access Point ACI
8411.105.98.100; Condat GmbH

[32] Message Sequence Charts RLP
8411.201.98.100; Condat GmbH

[33] Message Sequence Charts L2R
8411.202.98.100; Condat GmbH

[34] Message Sequence Charts FAD
8411.203.98.100; Condat GmbH

[35] Message Sequence Charts T30
8411.204.98.100; Condat GmbH

[36] Message Sequence Charts ACI
8411.205.98.100; Condat GmbH

[37] Proposal for Fax & Data Integration; March 1998
8411.300.98.100; Condat GmbH

[38] Test Specification RLP
8411.401.98.100; Condat GmbH

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

0.2 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(R)	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(R)	Receive State Variable
V(S)	Send State Variable
VPLMN	Visiting Public Land Mobile Network

0.3 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).

1 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 ore 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 :

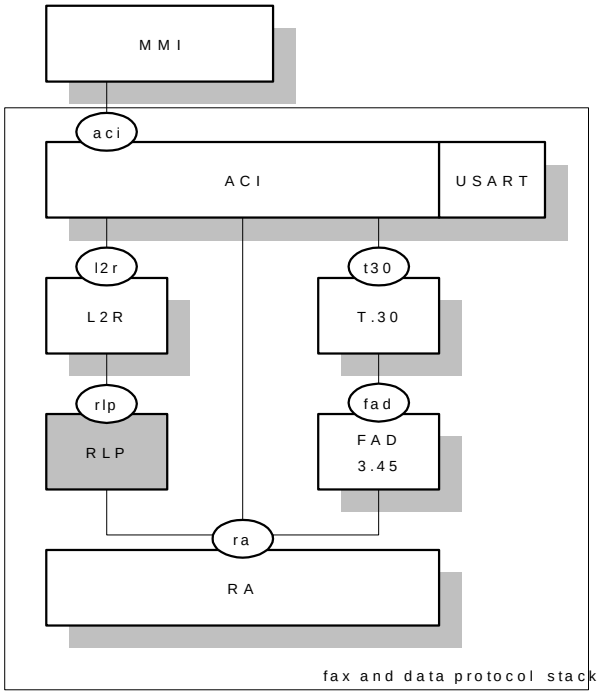


Figure 1-1: Architecture of the fax and data protocol stack

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:

1.1 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.

1.2 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.

1.3 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.

1.4 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.

1.5 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.

1.6 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.

1.7 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.

2 Parameters

```
/* array declarations */
DECLARATION (A_ECC_FIELD )
DECLARATION ( A_CLG_NUM )
DECLARATION ( A_CLD_NUM )
DECLARATION ( A_CLD_NUM_SS )
DECLARATION ( A_CLD_NUM_MDFY )
DECLARATION ( A_CLD_NUM_INT )
DECLARATION ( A_CLD_NUM_INT2 )
DECLARATION ( A_CLD_NUM_INT3 )
DECLARATION ( A_CLD_NUM_ECC )
DECLARATION ( A_CLD_SUB_MDFY )
DECLARATION (A_FAC_HOLD_MPTY )
DECLARATION (A_FAC_RETRIEVE_MPTY )
DECLARATION (A_FAC_SPLIT_MPTY_RES )
DECLARATION (A_FAC_HOLD_MPTY_RES )
DECLARATION (A_FAC_RETRIEVE_MPTY_RES )
DECLARATION (A_AD_FIELD_CI_DISABLED )

DECLARATION (NTZ_PLS_1HR)

DECLARATION (D_ENV_CMD_CC_VOICE )
DECLARATION (ENV_CMD_CC_VOICE )

DECLARATION (D_ENV_CMD_CC_NBSY )
DECLARATION (ENV_CMD_CC_NBSY )

DECLARATION (D_ENV_CMD_CC_NBSY3 )
DECLARATION (ENV_CMD_CC_NBSY3 )

DECLARATION (D_ENV_CMD_CC_NBSY7 )
DECLARATION (ENV_CMD_CC_NBSY7 )

DECLARATION (D_ENV_CMD_CC_NBSY10 )
DECLARATION (ENV_CMD_CC_NBSY10 )

DECLARATION (D_ENV_CMD_CC_NBSYRD )
DECLARATION (ENV_CMD_CC_NBSYRD )

DECLARATION (D_ENV_CMD_CC_NBSYRD_1 )
DECLARATION (ENV_CMD_CC_NBSYRD_1 )

DECLARATION (D_ENV_CMD_CC_VOICE_SUB )
DECLARATION (ENV_CMD_CC_VOICE_SUB )

DECLARATION (D_ENV_RES_CC_NO_MDFY )
DECLARATION (ENV_RES_CC_NO_MDFY )

DECLARATION (D_ENV_RES_CC_NO_MDFY_PRMS )
DECLARATION (ENV_RES_CC_NO_MDFY_PRMS )

DECLARATION (D_ENV_RES_CC_MDFY_CAL )
DECLARATION (ENV_RES_CC_MDFY_CAL )
```

DECLARATION (D_ENV_RES_CC_MDFY_ECC)
DECLARATION (ENV_RES_CC_MDFY_ECC)

DECLARATION (D_ENV_RES_CC_MDFY_SS)
DECLARATION (ENV_RES_CC_MDFY_SS)

DECLARATION (D_ENV_RES_CC_MDFY_SCA_DA)
DECLARATION (ENV_RES_CC_MDFY_SCA_DA)

DECLARATION (D_ENV_RES_CC_MDFY_SS_B)
DECLARATION (ENV_RES_CC_MDFY_SS_B)

DECLARATION (D_ENV_RES_CC_MDFY_SS_CF)
DECLARATION (ENV_RES_CC_MDFY_SS_CF)

DECLARATION (D_ENV_RES_CC_MDFY_SS_UNKNOWN)
DECLARATION (ENV_RES_CC_MDFY_SS_UNKNOWN)

DECLARATION (D_ENV_RES_CC_NOT_ALLW)
DECLARATION (ENV_RES_CC_NOT_ALLW)

DECLARATION (D_ENV_RES_CC_NOT_ALLW_CR)
DECLARATION (ENV_RES_CC_NOT_ALLW_CR)

DECLARATION (D_ENV_RES_CC_NOT_ALLW_EMPTY)
DECLARATION (ENV_RES_CC_NOT_ALLW_EMPTY)

DECLARATION (D_ENV_RES_CC_NBSY)
DECLARATION (ENV_RES_CC_NBSY)

DECLARATION (D_ENV_RES_CC_NBSYRD)
DECLARATION (ENV_RES_CC_NBSYRD)

DECLARATION (ENV_RES_CC_EMPTY)

DECLARATION (D_ENV_CMD_SS)
DECLARATION (ENV_CMD_SS)

DECLARATION (D_ENV_RES_SS_NO_MDFY)
DECLARATION (ENV_RES_SS_NO_MDFY)

DECLARATION (D_ENV_RES_SS_MDFY_SS)
DECLARATION (ENV_RES_SS_MDFY_SS)

DECLARATION (D_ENV_RES_SS_NOT_ALLW)
DECLARATION (ENV_RES_SS_NOT_ALLW)

DECLARATION (D_ENV_RES_SS_MDFY_CAL)
DECLARATION (ENV_RES_SS_MDFY_CAL)

DECLARATION (D_ENV_RES_SS_MDFY_CAL_DTMF)
DECLARATION (ENV_RES_SS_MDFY_CAL_DTMF)

DECLARATION (D_ENV_CMD_USER_1)
DECLARATION (ENV_CMD_USER_1)

DECLARATION (D_ENV_RES_USER_1)
DECLARATION (ENV_RES_USER_1)

DECLARATION (D_SAT_PLOI_DTT)
DECLARATION (SAT_PLOI_DTT)

DECLARATION (D_SAT_RUN_AT_CSNS)
DECLARATION (SAT_RUN_AT_CSNS)

DECLARATION (D_SAT_RUN_AT_COPS)
DECLARATION (SAT_RUN_AT_COPS)

DECLARATION (D_SAT_CMD_SS)
DECLARATION (SAT_CMD_SS)

DECLARATION (D_SAT_CMD_SS_CFWRD)
DECLARATION (SAT_CMD_SS_CFWRD)

DECLARATION (D_SAT_CMD_SS_CFWRD2)
DECLARATION (SAT_CMD_SS_CFWRD2)

DECLARATION (D_SAT_CMD_USSD)
DECLARATION (SAT_CMD_USSD)

DECLARATION (D_SAT_CMD_DTMF)
DECLARATION (SAT_CMD_DTMF)

DECLARATION (D_FAC_USSD_PROC_RES)
DECLARATION (FAC_USSD_PROC_RES)

DECLARATION (D_SAT_CMD_SS_PWD)
DECLARATION (SAT_CMD_SS_PWD)

DECLARATION (D_SAT_CMD_SS_UNKNOWN)
DECLARATION (SAT_CMD_SS_UNKNOWN)

DECLARATION (D_SAT_CMD_SS_NCR)
DECLARATION (SAT_CMD_SS_NCR)

DECLARATION (D_SAT_CMD_SS_NCR_0F)
DECLARATION (SAT_CMD_SS_NCR_0F)

DECLARATION (D_SAT_CMD_SS_NCR_10)
DECLARATION (SAT_CMD_SS_NCR_10)

DECLARATION (D_SAT_CMD_SS_CR)
DECLARATION (SAT_CMD_SS_CR)

DECLARATION (D_SAT_CMD_SS_CR_0F)
DECLARATION (SAT_CMD_SS_CR_0F)

DECLARATION (D_SAT_CMD_SS_CR_10)
DECLARATION (SAT_CMD_SS_CR_10)

DECLARATION (D_SAT_CMD_CALL_IDLE)
DECLARATION (SAT_CMD_CALL_IDLE)

DECLARATION (D_SAT_CMD_CALL_NBSY)
DECLARATION (SAT_CMD_CALL_NBSY)

DECLARATION (D_SAT_CMD_CALL_NBSY2)
DECLARATION (SAT_CMD_CALL_NBSY2)

DECLARATION (D_SAT_CMD_CALL_NBSY3)
DECLARATION (SAT_CMD_CALL_NBSY3)

DECLARATION (D_SAT_CMD_CALL_NBSY4)
DECLARATION (SAT_CMD_CALL_NBSY4)

DECLARATION (D_SAT_CMD_CALL_NBSY5)
DECLARATION (SAT_CMD_CALL_NBSY5)

DECLARATION (D_SAT_CMD_CALL_NBSY6)
DECLARATION (SAT_CMD_CALL_NBSY6)

DECLARATION (D_SAT_CMD_CALL_NBSY7)
DECLARATION (SAT_CMD_CALL_NBSY7)

DECLARATION (D_SAT_CMD_CALL_NBSY8)
DECLARATION (SAT_CMD_CALL_NBSY8)

DECLARATION (D_SAT_CMD_CALL_NBSY9)
DECLARATION (SAT_CMD_CALL_NBSY9)

DECLARATION (D_SAT_CMD_CALL_NBSY10)
DECLARATION (SAT_CMD_CALL_NBSY10)

DECLARATION (D_SAT_CMD_CALL_NBSY11)
DECLARATION (SAT_CMD_CALL_NBSY11)

DECLARATION (D_SAT_CMD_CALL_NBSYRD)
DECLARATION (SAT_CMD_CALL_NBSYRD)

DECLARATION (D_SAT_CMD_CALL_NBSYRD2)
DECLARATION (SAT_CMD_CALL_NBSYRD2)

DECLARATION (D_SAT_CMD_CALL_NBSYRD3)
DECLARATION (SAT_CMD_CALL_NBSYRD3)

DECLARATION (D_SAT_CMD_CALL_IDLE_CR1)
DECLARATION (SAT_CMD_CALL_IDLE_CR1)

DECLARATION (D_SAT_CMD_CALL_IDLE_CR2)
DECLARATION (SAT_CMD_CALL_IDLE_CR2)

DECLARATION (D_SAT_CMD_CALL_IDLE_ICON)
DECLARATION (SAT_CMD_CALL_IDLE_ICON)

DECLARATION (D_SAT_CMD_CALL_HOLD)
DECLARATION (SAT_CMD_CALL_HOLD)

DECLARATION (D_SAT_CMD_CALL_HOLD2)

DECLARATION (SAT_CMD_CALL_HOLD2)

DECLARATION (D_SAT_CMD_CALL_HOLD3)
DECLARATION (SAT_CMD_CALL_HOLD3)

DECLARATION (D_SAT_CMD_CALL_HOLD4)
DECLARATION (SAT_CMD_CALL_HOLD4)

DECLARATION (D_SAT_CMD_CALL_HOLD5)
DECLARATION (SAT_CMD_CALL_HOLD5)

DECLARATION (D_SAT_CMD_CALL_DISC)
DECLARATION (SAT_CMD_CALL_DISC)

DECLARATION (D_SAT_CMD_CALL_DISC2)
DECLARATION (SAT_CMD_CALL_DISC2)

DECLARATION (D_SAT_CMD_CALL_DISC3)
DECLARATION (SAT_CMD_CALL_DISC3)

DECLARATION (D_SAT_CMD_CALL_IDLE_LONG)
DECLARATION (SAT_CMD_CALL_IDLE_LONG)

DECLARATION (D_SAT_CMD_CALL_IDLE_DTMF)
DECLARATION (SAT_CMD_CALL_IDLE_DTMF)

DECLARATION (D_SAT_CMD_CALL_IDLE_RDL)
DECLARATION (SAT_CMD_CALL_IDLE_RDL)

DECLARATION (D_SAT_CMD_SSM_1)
DECLARATION (SAT_CMD_SSM_1)

DECLARATION (D_SAT_CMD_SSM_REM)
DECLARATION (SAT_CMD_SSM_REM)

DECLARATION (D_SAT_CMD_SSM_2)
DECLARATION (SAT_CMD_SSM_2)

DECLARATION (D_SAT_CMD_SSM_2A)
DECLARATION (SAT_CMD_SSM_2A)

DECLARATION (D_SAT_CMD_SSM_3)
DECLARATION (SAT_CMD_SSM_3)

DECLARATION (D_SAT_CMD_SSM_4)
DECLARATION (SAT_CMD_SSM_4)

DECLARATION (D_SAT_CMD_SSM_4A)
DECLARATION (SAT_CMD_SSM_4A)

DECLARATION (D_SAT_CMD_SSM_5)
DECLARATION (SAT_CMD_SSM_5)

DECLARATION (D_SAT_CMD_SSM_6)
DECLARATION (SAT_CMD_SSM_6)

DECLARATION (D_SAT_CMD_SSM_UCS2)
DECLARATION (SAT_CMD_SSM_UCS2)

DECLARATION (D_SAT_CMD_USER_1)
DECLARATION (SAT_CMD_USER_1)

DECLARATION (D_SAT_CMD_SESS_TERM)
DECLARATION (SAT_CMD_SESS_TERM)

DECLARATION (D_SAT_RES_PLOI_OK)
DECLARATION (SAT_RES_PLOI_OK)

DECLARATION (D_SAT_RES_RUN_CSNS)
DECLARATION (SAT_RES_RUN_CSNS)

DECLARATION (D_SAT_RES_RUN_COPS)
DECLARATION (SAT_RES_RUN_COPS)

DECLARATION (D_SAT_RES_RUN_COPS_OK)
DECLARATION (SAT_RES_RUN_COPS_OK)

DECLARATION (D_SAT_RES_SS_SUCC)
DECLARATION (SAT_RES_SS_SUCC)

DECLARATION (D_SAT_RES_TRMNL)
DECLARATION (SAT_RES_TRMNL)

DECLARATION (D_SAT_RES_TRMNL2)
DECLARATION (SAT_RES_TRMNL2)

DECLARATION (D_SAT_RES_SS_SUCC2)
DECLARATION (SAT_RES_SS_SUCC2)

DECLARATION (D_SAT_RES_SS_DTMF)
DECLARATION (SAT_RES_SS_DTMF)

DECLARATION (D_SAT_RES_SS_PWD_SUCC)
DECLARATION (SAT_RES_SS_PWD_SUCC)

DECLARATION (D_SAT_RES_SS_SUCC_PC)
DECLARATION (SAT_RES_SS_SUCC_PC)

DECLARATION (D_SAT_RES_SS_BUSY)
DECLARATION (SAT_RES_SS_BUSY)

DECLARATION (D_SAT_RES_USSD_BUSY_ON_SS)
DECLARATION (SAT_RES_USSD_BUSY_ON_SS)

DECLARATION (D_SAT_RES_USSD_BUSY_ON_USSD)
DECLARATION (SAT_RES_USSD_BUSY_ON_USSD)

DECLARATION (D_SAT_RES_SS_ME_CAP)
DECLARATION (SAT_RES_SS_ME_CAP)

DECLARATION (D_SAT_RES_SS_NOT_ALLW)
DECLARATION (SAT_RES_SS_NOT_ALLW)

DECLARATION (D_SAT_RES_SS_ERR)
DECLARATION (SAT_RES_SS_ERR)

DECLARATION (D_SAT_RES_USSD_ERR)
DECLARATION (SAT_RES_USSD_ERR)

DECLARATION (D_SAT_RES_SS_REJ)
DECLARATION (SAT_RES_SS_REJ)

DECLARATION (D_SAT_RES_USSD_REJ)
DECLARATION (SAT_RES_USSD_REJ)

DECLARATION (D_SAT_RES_SS_CMD_UNKNOWN)
DECLARATION (SAT_RES_SS_CMD_UNKNOWN)

DECLARATION (D_SAT_RES_MDFY_SS_ERR_IDLE)
DECLARATION (SAT_RES_MDFY_SS_ERR_IDLE)

DECLARATION (D_SAT_RES_MDFY_SS_ME_CAP_IDLE)
DECLARATION (SAT_RES_MDFY_SS_ME_CAP_IDLE)

DECLARATION (D_SAT_RES_MDFY_SS_BUSY_IDLE)
DECLARATION (SAT_RES_MDFY_SS_BUSY_IDLE)

DECLARATION (D_SAT_RES_REJ_MDFY_CALL)
DECLARATION (SAT_RES_REJ_MDFY_CALL)

DECLARATION (D_SAT_RES_REJ_MDFY_CALL_IDLE)
DECLARATION (SAT_RES_REJ_MDFY_CALL_IDLE)

DECLARATION (D_SAT_RES_REJ_UNMDFY_CALL)
DECLARATION (SAT_RES_REJ_UNMDFY_CALL)

DECLARATION (D_SAT_RES_OK_MDFY_CALL)
DECLARATION (SAT_RES_OK_MDFY_CALL)

DECLARATION (D_SAT_RES_OK_MDFY_CALL_IDLE)
DECLARATION (SAT_RES_OK_MDFY_CALL_IDLE)

DECLARATION (D_SAT_RES_OK_MDFY_CALL_ECC)
DECLARATION (SAT_RES_OK_MDFY_CALL_ECC)

DECLARATION (D_SAT_RES_OK_MDFY_CALL_DTMF)
DECLARATION (SAT_RES_OK_MDFY_CALL_DTMF)

DECLARATION (D_SAT_RES_OK_UNMDFY_CALL)
DECLARATION (SAT_RES_OK_UNMDFY_CALL)

DECLARATION (D_SAT_RES_OK_UNMDFY_CALL_HOLD)
DECLARATION (SAT_RES_OK_UNMDFY_CALL_HOLD)

DECLARATION (D_SAT_RES_OK_UNMDFY_CALL_DISC)
DECLARATION (SAT_RES_OK_UNMDFY_CALL_DISC)

DECLARATION (D_SAT_RES_OK_MDFY_SS_IDLE)

DECLARATION (SAT_RES_OK_MDFY_SS_IDLE)

DECLARATION (D_SAT_RES_OK_MDFY_SS_HOLD)
DECLARATION (SAT_RES_OK_MDFY_SS_HOLD)

DECLARATION (D_SAT_RES_OK_MDFY_SS_DISC)
DECLARATION (SAT_RES_OK_MDFY_SS_DISC)

DECLARATION (D_SAT_RES_OK_MDFY_SS_IDLE_LONG)
DECLARATION (SAT_RES_OK_MDFY_SS_IDLE_LONG)

DECLARATION (D_SAT_RES_MDFY_CALL_NTW_ERR)
DECLARATION (SAT_RES_MDFY_CALL_NTW_ERR)

DECLARATION (D_SAT_RES_MDFY_CALL_NTW_ERR_IDLE)
DECLARATION (SAT_RES_MDFY_CALL_NTW_ERR_IDLE)

DECLARATION (D_SAT_RES_UNMDFY_CALL_NTW_ERR)
DECLARATION (SAT_RES_UNMDFY_CALL_NTW_ERR)

DECLARATION (D_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN)
DECLARATION (SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN)

DECLARATION (D_SAT_RES_MDFY_CALL_USR_ABT)
DECLARATION (SAT_RES_MDFY_CALL_USR_ABT)

DECLARATION (D_SAT_RES_MDFY_CALL_USR_ABT_IDLE)
DECLARATION (SAT_RES_MDFY_CALL_USR_ABT_IDLE)

DECLARATION (D_SAT_RES_UNMDFY_CALL_USR_ABT)
DECLARATION (SAT_RES_UNMDFY_CALL_USR_ABT)

DECLARATION (D_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD)
DECLARATION (SAT_RES_UNMDFY_CALL_ME_CAP_HOLD)

DECLARATION (D_SAT_RES_ME_NOT_IDLE)
DECLARATION (SAT_RES_ME_NOT_IDLE)

DECLARATION (D_SAT_RES_CALL_NOT_ALLW_IDLE)
DECLARATION (SAT_RES_CALL_NOT_ALLW_IDLE)

DECLARATION (D_SAT_RES_CALL_NOT_ALLW_HOLD)
DECLARATION (SAT_RES_CALL_NOT_ALLW_HOLD)

DECLARATION (D_SAT_RES_CALL_NOT_ALLW_DISC)
DECLARATION (SAT_RES_CALL_NOT_ALLW_DISC)

DECLARATION (D_SAT_RES_CALL_NOT_ALLW_OPCH)
DECLARATION (SAT_RES_CALL_NOT_ALLW_OPCH)

DECLARATION (D_SAT_RES_USER_1)
DECLARATION (SAT_RES_USER_1)

DECLARATION (D_SAT_RES_RDL_STOP)
DECLARATION (SAT_RES_RDL_STOP)

DECLARATION (D_SAT_RES_END_RDL)
DECLARATION (SAT_RES_END_RDL)

DECLARATION (D_SAT_RES_END_SESS)
DECLARATION (SAT_RES_END_SESS)

DECLARATION (D_SAT_RES_REJ_OPEN_CHAN_BY_USR)
DECLARATION (SAT_RES_REJ_OPEN_CHAN_BY_USR)

DECLARATION (D_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD)
DECLARATION (SAT_RES_REJ_OPEN_CHAN_BY_USR_OD)

DECLARATION (D_SAT_RES_GETCS_ACT)
DECLARATION (SAT_RES_GETCS_ACT)

DECLARATION (D_SAT_RES_GETCS_DEACT)
DECLARATION (SAT_RES_GETCS_DEACT)

DECLARATION (D_SAT_RES_OPCH_CSD_A)
DECLARATION (SAT_RES_OPCH_CSD_A)

DECLARATION (D_SAT_RES_OPCH_CSD_B)
DECLARATION (SAT_RES_OPCH_CSD_B)

DECLARATION (D_SAT_RES_OPCH_CSD_C)
DECLARATION (SAT_RES_OPCH_CSD_C)

DECLARATION (D_SAT_RES_OPCH_CSD_D)
DECLARATION (SAT_RES_OPCH_CSD_D)

DECLARATION (D_SAT_RES_OPCH_CSD_E)
DECLARATION (SAT_RES_OPCH_CSD_E)

DECLARATION (D_SAT_RES_OPCH_GPRS_F)
DECLARATION (SAT_RES_OPCH_GPRS_F)

DECLARATION (D_SAT_RES_OPCH_GPRS_G)
DECLARATION (SAT_RES_OPCH_GPRS_G)

DECLARATION (D_SAT_RES_OPCH_GPRS_H)
DECLARATION (SAT_RES_OPCH_GPRS_H)

DECLARATION (D_SAT_RES_OPCH_GPRS_I)
DECLARATION (SAT_RES_OPCH_GPRS_I)

DECLARATION (D_SAT_RES_OPCH_CSD_OD_A)
DECLARATION (SAT_RES_OPCH_CSD_OD_A)

DECLARATION (D_SAT_RES_OPCH_CSD_OD_B)
DECLARATION (SAT_RES_OPCH_CSD_OD_B)

DECLARATION (D_SAT_RES_OPCH_CSD_OD_C)
DECLARATION (SAT_RES_OPCH_CSD_OD_C)

DECLARATION (D_SAT_RES_OPCH_CSD_OD_D)

DECLARATION (SAT_RES_OPCH_CSD_OD_D)

DECLARATION (D_SAT_RES_OPCH_CSD_OD_E)
DECLARATION (SAT_RES_OPCH_CSD_OD_E)

DECLARATION (D_SAT_RES_OPCH_GPRS_OD_F)
DECLARATION (SAT_RES_OPCH_GPRS_OD_F)

DECLARATION (D_SAT_RES_OPCH_GPRS_OD_G)
DECLARATION (SAT_RES_OPCH_GPRS_OD_G)

DECLARATION (D_SAT_RES_OPCH_GPRS_OD_H)
DECLARATION (SAT_RES_OPCH_GPRS_OD_H)

DECLARATION (D_SAT_RES_OPCH_ME_CAP)
DECLARATION (SAT_RES_OPCH_ME_CAP)

DECLARATION (D_SAT_RES_CLCH_CSD)
DECLARATION (SAT_RES_CLCH_CSD)

DECLARATION (D_SAT_RES_OPCH_BIP_ERR)
DECLARATION (SAT_RES_OPCH_BIP_ERR)

DECLARATION (D_SAT_RES_OPCH_CSD_NTW_ERR)
DECLARATION (SAT_RES_OPCH_CSD_NTW_ERR)

DECLARATION (D_SAT_RES_OPCH_GPRS_NTW_ERR)
DECLARATION (SAT_RES_OPCH_GPRS_NTW_ERR)

DECLARATION (D_SAT_RES_OPCH_CSD_USR_ABT)
DECLARATION (SAT_RES_OPCH_CSD_USR_ABT)

DECLARATION (D_SAT_RES_OPCH_CSD_USR_ABT_2)
DECLARATION (SAT_RES_OPCH_CSD_USR_ABT_2)

DECLARATION (D_SAT_RES_OPCH_CSD_UAB_PRF)
DECLARATION (SAT_RES_OPCH_CSD_UAB_PRF)

DECLARATION (D_SAT_RES_OPCH_CSD_UAB_PRF_2)
DECLARATION (SAT_RES_OPCH_CSD_UAB_PRF_2)

DECLARATION (D_FAC_KSD_ALLOUT_DEACT)
DECLARATION (FAC_KSD_ALLOUT_DEACT)

DECLARATION (D_SEND_SS_CFWRD_ACT)
DECLARATION (SEND_SS_CFWRD_ACT)

DECLARATION (D_SEND_SS_CFWRD_ACT2)
DECLARATION (SEND_SS_CFWRD_ACT2)

DECLARATION (D_FAC_USSD)
DECLARATION (FAC_USSD)

DECLARATION (D_FAC_KSD_CFNRY_IRGT)
DECLARATION (FAC_KSD_CFNRY_IRGT)

DECLARATION (D_FAC_KSD_ALLOUT_DEACT_RES)
DECLARATION (FAC_KSD_ALLOUT_DEACT_RES)

DECLARATION (D_SEND_SS_CFWRD_RES)
DECLARATION (SEND_SS_CFWRD_RES)

DECLARATION (D_SEND_SS_CFWRD_RES2)
DECLARATION (SEND_SS_CFWRD_RES2)

DECLARATION (D_FAC_KSD_CFNRY_IRGT_RES)
DECLARATION (FAC_KSD_CFNRY_IRGT_RES)

DECLARATION (D_FAC_KSD_ALLOUT_DEACT_ERR)
DECLARATION (FAC_KSD_ALLOUT_DEACT_ERR)

DECLARATION (D_FAC_USSD_PROC_RES_ERR)
DECLARATION (FAC_USSD_PROC_RES_ERR)

DECLARATION (D_FAC_USSD_PROC_RES_REJ)
DECLARATION (FAC_USSD_PROC_RES_REJ)

DECLARATION (FAC_USSD_EMPTY)

DECLARATION (D_FAC_BUILD_MPTY)
DECLARATION (FAC_BUILD_MPTY)

DECLARATION (D_FAC_SPLIT_MPTY)
DECLARATION (FAC_SPLIT_MPTY)

DECLARATION (D_FAC_HOLD_MPTY)
DECLARATION (FAC_HOLD_MPTY)

DECLARATION (D_FAC_RETRIEVE_MPTY)
DECLARATION (FAC_RETRIEVE_MPTY)

DECLARATION (D_FAC_BUILD_MPTY_RES)
DECLARATION (FAC_BUILD_MPTY_RES)

DECLARATION (D_FAC_SPLIT_MPTY_RES)
DECLARATION (FAC_SPLIT_MPTY_RES)

DECLARATION (D_FAC_HOLD_MPTY_RES)
DECLARATION (FAC_HOLD_MPTY_RES)

DECLARATION (D_FAC_RETRIEVE_MPTY_RES)
DECLARATION (FAC_RETRIEVE_MPTY_RES)

DECLARATION (D_FAC_KSD_ALLOUT_DEACT_REJ)
DECLARATION (FAC_KSD_ALLOUT_DEACT_REJ)

DECLARATION (D_FAC_KSD_ALLCB_PWD)
DECLARATION (FAC_KSD_ALLCB_PWD)

DECLARATION (D_FAC_KSD_ALLCB_PWD_ERR)
DECLARATION (FAC_KSD_ALLCB_PWD_ERR)

DECLARATION (D_FAC_CPWD_ALLCB_RES)
DECLARATION (FAC_CPWD_ALLCB_RES)

DECLARATION (D_FAC_ALLOUT_DEACT_RES_LONG)
DECLARATION (FAC_ALLOUT_DEACT_RES_LONG)

DECLARATION (D_FAC_KSD_CF_ACT_V)
DECLARATION (FAC_KSD_CF_ACT_V)

DECLARATION (D_FAC_KSD_CF_ACT_RES)
DECLARATION (FAC_KSD_CF_ACT_RES)

DECLARATION (D_SAT_CMD_OPCH_CSD_A)
DECLARATION (SAT_CMD_OPCH_CSD_A)

DECLARATION (D_SAT_CMD_OPCH_CSD_B)
DECLARATION (SAT_CMD_OPCH_CSD_B)

DECLARATION (D_SAT_CMD_OPCH_CSD_C)
DECLARATION (SAT_CMD_OPCH_CSD_C)

DECLARATION (D_SAT_CMD_OPCH_CSD_D)
DECLARATION (SAT_CMD_OPCH_CSD_D)

DECLARATION (D_SAT_CMD_OPCH_CSD_E)
DECLARATION (SAT_CMD_OPCH_CSD_E)

DECLARATION (D_SAT_CMD_OPCH_CSD_F)
DECLARATION (SAT_CMD_OPCH_CSD_F)

DECLARATION (D_SAT_CMD_OPCH_CSD_G)
DECLARATION (SAT_CMD_OPCH_CSD_G)

DECLARATION (D_SAT_CMD_OPCH_CSD_H)
DECLARATION (SAT_CMD_OPCH_CSD_H)

DECLARATION (D_SAT_CMD_OPCH_CSD_I)
DECLARATION (SAT_CMD_OPCH_CSD_I)

DECLARATION (D_SAT_CMD_OPCH_GPRS_J)
DECLARATION (SAT_CMD_OPCH_GPRS_J)

DECLARATION (D_SAT_CMD_OPCH_GPRS_K)
DECLARATION (SAT_CMD_OPCH_GPRS_K)

DECLARATION (D_SAT_CMD_OPCH_GPRS_L)
DECLARATION (SAT_CMD_OPCH_GPRS_L)

DECLARATION (D_SAT_CMD_OPCH_GPRS_M)
DECLARATION (SAT_CMD_OPCH_GPRS_M)

DECLARATION (D_SAT_CMD_OPCH_GPRS_N)
DECLARATION (SAT_CMD_OPCH_GPRS_N)

DECLARATION (D_SAT_CMD_OPCH_GPRS_O)

DECLARATION (SAT_CMD_OPCH_GPRS_O)

DECLARATION (D_SAT_CMD_OPCH_GPRS_P)
DECLARATION (SAT_CMD_OPCH_GPRS_P)

DECLARATION (D_SAT_CMD_SND_DAT_OD)
DECLARATION (SAT_CMD_SND_DAT_OD)

DECLARATION (D_SAT_CMD_SND_DAT_IM)
DECLARATION (SAT_CMD_SND_DAT_IM)

DECLARATION (D_SAT_CMD_CLCH)
DECLARATION (SAT_CMD_CLCH)

DECLARATION (SAT_FU_IND_EF_KC)
DECLARATION (SAT_FU_IND_EF_KC_BCCH)
DECLARATION (SAT_FU_IND_EF_ACC_KC_BCCH)
DECLARATION (SAT_FU_IND_EF_ACC_SMSP)
DECLARATION (SAT_FU_IND_EF_ACC_SMSP_CBMI)
DECLARATION (SAT_FU_IND_EF_SMSP_ACC_CBMIR)
DECLARATION (SAT_FU_IND_EF_SMSP_ACC_CBMIR_CBMI)
DECLARATION (SAT_FU_IND_EF_CBMIR_ACC)
DECLARATION (SAT_FU_IND_EF_AD_MSISDN_ACM)

DECLARATION (D_SAT_CMD_SEV_1)
DECLARATION (SAT_CMD_SEV_1)

DECLARATION (D_SAT_CMD_SEV_2)
DECLARATION (SAT_CMD_SEV_2)

DECLARATION (D_SAT_CMD_GETCS)
DECLARATION (SAT_CMD_GETCS)

DECLARATION (D_SAT_CMD_RCVD)
DECLARATION (SAT_CMD_RCVD)

DECLARATION (D_SAT_RES_USER_2)
DECLARATION (SAT_RES_USER_2)

DECLARATION (D_ENV_CMD_EVENT_CONN)
DECLARATION (ENV_CMD_EVENT_CONN)

DECLARATION (D_ENV_CMD_EVENT_DISC)
DECLARATION (ENV_CMD_EVENT_DISC)

DECLARATION (D_ENV_CMD_EVENT_CHNST)
DECLARATION (ENV_CMD_EVENT_CHNST)

DECLARATION (D_ENV_CMD_SMS)
DECLARATION (ENV_CMD_SMS)
DECLARATION (D_ENV_CMD_SMS2)
DECLARATION (ENV_CMD_SMS2)
DECLARATION (D_ENV_CMD_SMS3)
DECLARATION (ENV_CMD_SMS3)
DECLARATION (VP_A9801071234564)
DECLARATION (D_ENV_CMD_SMSSAT)

```
DECLARATION (ENV_CMD_SMSSAT)


DECLARATION (F_STK_PRF)
DECLARATION (F_STK_PRF_2)
DECLARATION (F_STK_PRF_CL2_MIN)
DECLARATION (F_STK_PRF_CL3_MIN)
DECLARATION (F_STK_PRF_CL2_NORM)
DECLARATION (F_STK_PRF_CL3_NORM)
DECLARATION (F_STK_PRF_CL2_NO_MMI)
DECLARATION (F_STK_PRF_CL3_NO_MMI)
DECLARATION (F_STK_PRF_CL2_MAX)
DECLARATION (F_STK_PRF_MAX_4)
DECLARATION (F_STK_PRF_MAX_5)
DECLARATION (F_STK_PRF_MAX_12)
DECLARATION (F_STK_PRF_MAX_9)
DECLARATION (SMSP_CMPL)
DECLARATION (SMSP_WO_DA_VPREL)
DECLARATION (SMSP_CMPL_ALPHA_ID)
DECLARATION (CBM_MID_DEF)
DECLARATION (CBM_MID_2R_2V)
DECLARATION (CBM_DCS_DEF)
DECLARATION (CBMI_10E_2V2)
DECLARATION (CBMI_10E_2V3)
DECLARATION (CBMIR_2E_2R)
DECLARATION (CBMIR_5E_5R)
DECLARATION (CBMID_5E_1V)
DECLARATION (CBMID_10E_2V)
DECLARATION (CBMID_10E_2V2)
DECLARATION (CBM_MID_SAT_1V)
DECLARATION (CBM_MID_SAT_2V)

DECLARATION (LP_01)
DECLARATION (AD_01)
DECLARATION (ACM_01)
DECLARATION (ACMMAX_01)
DECLARATION (PUCT_01)
DECLARATION (ADN_01)
DECLARATION (ADN_02)
DECLARATION (FDN_01)
DECLARATION (MSISDN_01)
DECLARATION (LND_01)


DECLARATION (F_SIM_SRV)
DECLARATION (F_SIM_SRV_NO_CC)
DECLARATION (F_SIM_SRV_SMS)
DECLARATION (F_SIM_SRV_SMS_CNTR)
DECLARATION (F_SIM_SRV_PHB)
DECLARATION (F_SIM_SRV_AOC)


/* structure declarations */
DECLARATION (S_CLG_PARTY)
DECLARATION (S_CLD_PARTY)
DECLARATION (S_CLD_PARTY_SS)
```

```
DECLARATION (S_CLD_PARTY_ECC)
DECLARATION (S_CLD_PARTY_MDFY)
DECLARATION (S_CLD_PARTY_INT)
DECLARATION (S_CLD_PARTY_INT2)
DECLARATION (S_CLD_PARTY_INT3)
DECLARATION (S_CLG_PARTY_SUB)
DECLARATION (S_CLD_PARTY_SUB)
DECLARATION (S_CLD_PARTY_SUB_MDFY)
DECLARATION (S_BS_NOT_PRESENT)
DECLARATION (S_BS_VOICE)
DECLARATION (S_BS_FAX)
DECLARATION (S_BS_DAT_9600_ASY_TRA)
DECLARATION (S_BS_DAT_4800_ASY_TRA)
DECLARATION (S_BS_DAT_9600_ASY_NON_TRA)
DECLARATION (S_BS_DAT_9600_ASY_NON_TRA_V32)
DECLARATION (S_BS_DEF)
DECLARATION (S_BS_DAT_14400_ASY_BTP)
DECLARATION (S_CHN_SPEECH)
DECLARATION (S_CHN_FULL_9600)
DECLARATION (PDP_ADDRESS_1)
DECLARATION (PDP_ADD_BUF_1)
DECLARATION (APN_BUF_1)

/* SMS related declarations */

DECLARATION (SSM_1_BUF)
DECLARATION (SSM_REM_BUF)
DECLARATION (SSM_2_BUF)
DECLARATION (SSM_3_BUF)
DECLARATION (SSM_45_BUF)
DECLARATION (SSM_6_BUF)
DECLARATION (SSM_UCS2_BUF)
DECLARATION (SMS_SDU_SSM_1)
DECLARATION (SMS_SDU_SSM_REM)
DECLARATION (SMS_SDU_SSM_2)
DECLARATION (SMS_SDU_SSM_3)
DECLARATION (SMS_SDU_SSM_45)
DECLARATION (SMS_SDU_SSM_6)
DECLARATION (SMS_SDU_SSM_UCS2)
DECLARATION (SMS_SDU_EMPTY)
DECLARATION(CBCH_MSG_1)
DECLARATION(CBCH_MSG_2)
DECLARATION(CBCH_MSG_3)
DECLARATION(M_CBM_MSG_3)
DECLARATION(D_ENV_CBCH_MSG_3)
DECLARATION(ENV_CBCH_MSG_3)
DECLARATION(CBCH_MSG_3b)
DECLARATION(M_CBM_MSG_3b)
DECLARATION(D_ENV_CBCH_MSG_3b)
DECLARATION(ENV_CBCH_MSG_3b)
DECLARATION(CBCH_MSG_4)
DECLARATION(M_CBM_MSG_4)
DECLARATION(D_ENV_CBCH_MSG_4)
DECLARATION(ENV_CBCH_MSG_4)
DECLARATION(CBCH_MSG_4b)
DECLARATION(M_CBM_MSG_4b)
```

DECLARATION(D_ENV_CBCH_MSG_4b)
DECLARATION(ENV_CBCH_MSG_4b)
DECLARATION(CBCH_MSG_5)
DECLARATION(M_CBM_MSG_5)
DECLARATION(D_ENV_CBCH_MSG_5)
DECLARATION(ENV_CBCH_MSG_5)
DECLARATION(CBCH_MSG_6)
DECLARATION(M_CBM_MSG_6)
DECLARATION(D_ENV_CBCH_MSG_6)
DECLARATION(ENV_CBCH_MSG_6)
DECLARATION(CBCH_MSG_7)
DECLARATION(M_CBM_MSG_7)
DECLARATION(D_ENV_CBCH_MSG_7)
DECLARATION(ENV_CBCH_MSG_7)
DECLARATION(CBCH_MSG_8)
DECLARATION(M_CBM_MSG_8)
DECLARATION(D_ENV_CBCH_MSG_8)
DECLARATION(ENV_CBCH_MSG_8)
DECLARATION(CBCH_MSG_9)
DECLARATION(M_CBM_MSG_9)
DECLARATION(D_ENV_CBCH_MSG_9)
DECLARATION(ENV_CBCH_MSG_9)
DECLARATION(CBCH_MSG_10)
DECLARATION(M_CBM_MSG_10)
DECLARATION(D_ENV_CBCH_MSG_10)
DECLARATION(ENV_CBCH_MSG_10)
DECLARATION(CBCH_MSG_11)
DECLARATION(M_CBM_MSG_11)
DECLARATION(D_ENV_CBCH_MSG_11)
DECLARATION(ENV_CBCH_MSG_11)
DECLARATION(CBCH_MSG_11b)
DECLARATION(M_CBM_MSG_11b)
DECLARATION(D_ENV_CBCH_MSG_11b)
DECLARATION(ENV_CBCH_MSG_11b)
DECLARATION(CBCH_MSG_11c)
DECLARATION(M_CBM_MSG_11c)
DECLARATION(D_ENV_CBCH_MSG_11c)
DECLARATION(ENV_CBCH_MSG_11c)
DECLARATION (SMS_SDU_MO_CHANGE)
DECLARATION (SMS_SDU_MO_CHANGE_BUF)
DECLARATION (SMS_SDU_MO_CHANGE2)
DECLARATION (SMS_SDU_MO_CHANGE_BUF2)
DECLARATION (SMS_SDU_MO_CHANGE3)
DECLARATION (SMS_SDU_MO_CHANGE_BUF3)
DECLARATION (SMS_SDU_MO_CHANGE4)
DECLARATION (SMS_SDU_MO_CHANGE_BUF4)
DECLARATION (SMS_SDU_SM7_SPEC_BUF)
DECLARATION (SMS_SDU_SM7_SPECIAL_SIGNS)
DECLARATION (SMS_SDU_MO_CONTENT_BUF)
DECLARATION (SMS_SDU_MO_CONTENT)
DECLARATION (SMS_SDU_MT_CONTENT_BUF)
DECLARATION (SMS_SDU_MT_CONTENT)
DECLARATION(SM7_SPECIAL_SIGNS)
DECLARATION(SMREG_QOS_0)
DECLARATION(PDP_ADDRESS_DYN)
DECLARATION(ADD_BUF_DYN)

```
DECLARATION(SMREG_APN_1)
DECLARATION(SMREG_APN_EMPTY)
DECLARATION(APN_EMPTY)
DECLARATION(A_FAC_EMPTY)

DECLARATION (D_SAT_RES_OPCH_1)
DECLARATION (SAT_RES_OPCH_1)

DECLARATION (D_SAT_CMD_LAUNCH_BROW_A)
DECLARATION (SAT_CMD_LAUNCH_BROW_A)

DECLARATION(S_PROTOCO)
DECLARATION(S_S_PROTOCO)
DECLARATION(S_PROTOCO_ARRAY)
DECLARATION(SMREG_QOS_1)
DECLARATION(SMREG_QOS_MDFY)
DECLARATION(SMREG_QOS_DEF)
DECLARATION(SDU_ARRAY)
DECLARATION(SDU_SHOW)
DECLARATION(SDU)
DECLARATION (FACILITY_NONE)

DECLARATION (S_PLMN_262_01)
DECLARATION (F_MCC_262)
DECLARATION (F_MNC_01)

DECLARATION (S_IP_NAME)
DECLARATION (S_UDP_NAME)
DECLARATION (S_SIM_NAME)
DECLARATION (S_PPP_NAME)
DECLARATION (S_L2R_NAME)
DECLARATION (S_TRA_NAME)
DECLARATION (S_SND_NAME)

/* 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_12 12
BYTE NUM_15 15
BYTE NUM_40_HEX 0x40
BYTE NUM_50 50
BYTE NUM_255 0xFF
BYTE NUM_FF 255

LONG VAL_T3314 44000
LONG VAL_T3312 3240000
```

```
/* 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

BYTE MSG_TYPE_1D 0x1D
BYTE REC_NUM_02 0x02
BYTE REC_NUM_00 0x00
BYTE MSG_REF_01 0x01
BYTE L_SM7_SPECIAL_SIGNS 0x15

SHORT NUM_512 512
SHORT NUM_9600 9600
SHORT NUM_4800 4800

SHORT NUM_0000 0x0000
SHORT NUM_0001 0x0001
SHORT NUM_0002 0x0002

SHORT PORT_NUM_01 0x0001

LONG IPv4_local 0x06070809
LONG IP_local_dyn 0x00000000
LONG IPv4_dest 0x04030201
LONG TIME_10SEC 0x00000064

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

BYTE SIM_MO_STATUS 7
BYTE MSG_MO_1 0x01
BYTE MSG_REF_02 0x02

SHORT   BITLEN_MO_CHANGE        56

BYTE MSID_NO 100
BYTE MSID_NULL 0

BYTE CHANNEL_SRC_ID1 0x1

LONG STRING_POINTER  0xfe1234ef
/* note that byte order at x86 PC is MSB/LSB */
LONG DEST_IP_ADDR 0x06070809

BYTE SIM_DTI_OPEN_CONCT SIM_DTI_CONNECT+SIM_BIP_OPEN_CHANNEL
BYTE SIM_DTI_CLOSE_DISC SIM_DTI_DISCONNECT+SIM_BIP_CLOSE_CHANNEL
BYTE SIM_DTI_OPEN_DISC SIM_BIP_OPEN_CHANNEL+SIM_DTI_DISCONNECT

/* Unit definitions */
BYTE UNIT_SNDCP 0
BYTE UNIT_ACI 1
BYTE UNIT_UART 2
BYTE UNIT_PPPS 3
BYTE UNIT_PPPC 4
BYTE UNIT_L2R 5
BYTE UNIT_T30 6
BYTE UNIT_IP 7
BYTE UNIT_TRA 8
BYTE UNIT_UDP 9
BYTE UNIT_WAP 10
BYTE UNIT_BLUETOOTH 11
BYTE UNIT_SIM 13


BYTE SAT_NTW_CS_BUSY 0x80+ MNCC_CAUSE_USER_BUSY

BYTE SAT_NTW_CS_NETWORK_FAILURE 0x80+SMREG_RC_NETWORK_FAILURE

/* DTI definitions */

BYTE WAP2_DTI_ID 22
BYTE WAP_DTI_ID 21
BYTE SIM_DTI_ID 22
BYTE SIM_DTI_ID_1 21
BYTE SIM2_DTI_ID 23
BYTE SNDCP_DTI_ID_2 22



SHORT NSAPI_SET_NSAPI_5 0x0020
BYTE SIM_DTI_NORMAL 0
BYTE SIM_DTI_REQ_NOT_VALID 0

#define SIM_UDP_LINK_ID_CSD                     0x00000103
```

```
#define SIM_UDP_LINK_ID_GPRS                    0x00000102
#define UDP_IP_LINK_ID                          0x00000100
#define IP_PPP_LINK_ID                          0x00000101
#define PPP_L2R_LINK_ID                         0x00000102
#define SIM_L2R_LINK_ID                         0x00000100
#define SIM_TRA_LINK_ID                         0x00000100
#define SIM_SNDCP_LINK_ID                       0x00000200
#define IP_SNDCP_LINK_ID                        0x00000101
#define NULL_SNDCP_LINK_ID                      0x00000100

BYTE TO_LOWER_LAYER  1
BYTE TO_HIGHER_LAYER 0


/*messages concerning send of SMS wouf*/

/* command: CMSS */
STRING(C_CMSS_SIM_2, "AT+CMSS=2")
BYTE LC_CMSS_SIM_2 9

/* command: CMSS */
STRING(C_CMSS_SIM_2_654321, "AT+CMSS=2,\"654321\"")
BYTE LC_CMSS_SIM_2_654321 18

/* message: CMSS */
STRING(M_CMSS_MSG_REF_2, "+CMSS: 2")
BYTE LM_CMSS_MSG_REF_2 8

/* command: CMGF */
STRING(C_CMGF_SET_TXT, "AT+CMGF=1")
BYTE LC_CMGF_SET_TXT 9

/* command: CSCA */
STRING(C_CSCA_BOTH_CORRECT, "AT+CSCA=\"12345\"")
BYTE LC_CSCA_BOTH_CORRECT 15

/* command: CSMP */
STRING(C_CSMP_ALL_CORRECT, "AT+CSMP=29,\"98/01/07,12:34:56+04\",64,0")
BYTE LC_CSMP_ALL_CORRECT 38

/* command: CSMP */
STRING(C_CSMP_ALL_CORRECT2, "AT+CSMP=1")
BYTE LC_CSMP_ALL_CORRECT2 9

STRING(C_CSCS_PCCP437, "AT+CSCS=\"PCCP437\"")
BYTE LC_CSCS_PCCP437 17

STRING(C_CMGS_SENDING, "AT+CMGS=\"654321\"")
BYTE LC_CMGS_SENDING 16

/* message: start editing */
STRING(M_EDIT, "> ")
BYTE LM_EDIT 2

STRING(C_CMGS_SPECIAL_SIGNS,
"\044\100\025\200\201\202\204\205\206\212\215\216\217\377\260\224\225\227\231\232\234\235\245")
```

```
BYTE LC_CMGS_SPECIAL_SIGNS 23

/*-------------------------------------------------*/

/*length of envelope for CB data dwn */
BYTE ENV_CBCH_MSG_LEN 0x59

STRING(M_CMGS_MSG_REF_1, "+CMGS: 1")
BYTE LM_CMGS_MSG_REF_1 8

/* SATI setup event list message to MMI */
BYTE LM_PERCENT_SATI_CMD_SEV_1 41
STRING(M_PERCENT_SATI_CMD_SEV_1, "%SATI: D00F8103130500820281829904010003 02")

/* SATI setup event list message 2 to MMI */
BYTE LM_PERCENT_SATI_CMD_SEV_2 39
STRING(M_PERCENT_SATI_CMD_SEV_2, "%SATI: D00E810313050082028182990308090A")

/* SAT event data available */
BYTE SIM_EV_EN 1
BYTE SIM_EV_DIS 0

BYTE NO_VALID_SRQ 0
BYTE SRQ_NONE 0

/* SAT request id */

BYTE NO_VALID_SRQ 0
BYTE SRQ_NONE 0
BYTE SRQ_ACI 1
BYTE SRQ_MMI 2

SHORT SS_NO_ERROR 0x600

/* SMS definition */

BYTE MSG_TYPE_SSM 0x01
BYTE PID_SSM 0x40
BYTE DCS_SSM_1 0xF4  /* 8 bit coding */
BYTE DCS_SSM_2 0xF0  /* 7 bit coding */
BYTE DCS_SSM_UCS2 0x08
BYTE DCS_SSM_F4 0xF4
BYTE DCS_1 0xF2
BYTE DCS_SSM_F0 0xF0

/*
Message:        OK
                successful operation
*/
STRING(M_OK, "OK" )
BYTE LM_OK 2

/*
Message:        NO CARRIER
                carrier lost
```

```
*/
STRING(M_NO_CARRIER, "NO CARRIER" )
BYTE LM_NO_CARRIER 10

STRING(C_PLUS_NRG_FULL_AUTO, "AT%NRG=0,0 " )
BYTE LC_PLUS_NRG_FULL_AUTO 10

/*
Message:        CONNECT
                successful data call connection
*/
STRING(M_CONNECT_9600, "CONNECT 9600" )
BYTE LM_CONNECT_9600 12
STRING(M_CONNECT, "CONNECT" )
BYTE LM_CONNECT 7

/*
Message:        ERROR
                error result code
*/
STRING(M_ERROR, "ERROR" )
BYTE LM_ERROR 5

/*
Message:        BUSY
                busy result code
*/
STRING(M_BUSY, "BUSY" )
BYTE LM_BUSY 4

/*

Message:        +CME
                error result code
*/
STRING(M_ERR_PIN_REQ, "+CME ERROR: SIM PIN required" )
BYTE LM_ERR_PIN_REQ 28
STRING(M_ERR_SIM_FATAL, "+CME ERROR: SIM not inserted" )
BYTE LM_ERR_SIM_FATAL 28
STRING(M_ERR_SIM_BLCK, "+CME ERROR: SIM PUK required" )
BYTE LM_ERR_SIM_BLCK 28
STRING(M_ERR_SIM_FAIL, "+CME ERROR: SIM failure" )
BYTE LM_ERR_SIM_FAIL 23
STRING(M_ERR_NO_NTW_SRV, "+CME ERROR: no network service" )
BYTE LM_ERR_NO_NTW_SRV 30

/*
Command:        AT+CSNS query
*/
STRING(C_PLUS_CSNS_QUERY, "AT+CSNS? " )
BYTE LC_PLUS_CSNS_QUERY 8

/*
```

```
Message:        +CSNS
                single numbering scheme
*/
STRING(M_PLUS_CSNS_0, "+CSNS: 0" )
BYTE LM_PLUS_CSNS_0 8
STRING(M_PLUS_CSNS_5, "+CSNS: 5" )
BYTE LM_PLUS_CSNS_5 8

/*
Command:        Abort
                abort last command
*/
STRING(C_ABORT, " " )
BYTE LC_ABORT 1

/*
Command:        +CFUN
                set phone functionality
*/
STRING(C_PLUS_CFUN_FULL, "AT+CFUN=1 " )
BYTE LC_PLUS_CFUN_FULL 9

/*
Command:        +CEER
                extended error report
*/
STRING(C_PLUS_CEER, "AT+CEER " )
BYTE LC_PLUS_CEER 7

/*
Command:        +CMEE
                extended error report mode
*/
STRING(C_PLUS_CMEE_VERB, "AT+CMEE=2 " )
BYTE LC_PLUS_CMEE_VERB 9

/*
Command:        +CMOD
                mode selection
*/
STRING(C_PLUS_CMOD_FAX, "AT+CMOD=1 " )
BYTE LC_PLUS_CMOD_FAX 9
STRING(C_PLUS_CMOD_ALT_DAT, "AT+CMOD=2 " )
BYTE LC_PLUS_CMOD_ALT_DAT 9

/*
Command:        +CCWA
                Call waiting indication
*/
STRING(C_PLUS_CCWA_ON, "AT+CCWA=1 " )
BYTE LC_PLUS_CCWA_ON 9

/*
```

```
Command:        D
                Dial a number
*/
STRING(C_D_DAT, "ATD03039094444" )
BYTE LC_D_DAT 14
STRING(C_D_VOICE, "ATD03039094444;" )
BYTE LC_D_VOICE 15
STRING(C_D_VOICE_INT, "ATD004903039094444;" )
BYTE LC_D_VOICE_INT 19
STRING(C_D_SS, "ATD**03*330*1234*9876*9876#" )
BYTE LC_D_SS 27
STRING(C_CUNS0, "AT%CUNS=0" )
BYTE LC_CUNS0 9


/*
Command:        H
                Hang up call
*/
STRING(C_H, "ATH0" )
BYTE LC_H 4

/*
Command:        +CHUP
                Hang up call
*/
STRING(C_PLUS_CHUP, "AT+CHUP" )
BYTE LC_PLUS_CHUP 7

/*
Command:        A
                accept call
*/
STRING(C_A, "ATA" )
BYTE LC_A 3

/*
Command:        +CBST
                Set bearer services
*/
STRING(C_PLUS_CBST_9600_ASY_TRA, "AT+CBST=71,0,0" )
BYTE LC_PLUS_CBST_9600_ASY_TRA 14
STRING(C_PLUS_CBST_14400_ASY_BTP, "AT+CBST=43,0,2" )
BYTE LC_PLUS_CBST_14400_ASY_BTP 14

/*
Command:        +COLP
                Calling line presentation mode
*/
STRING(C_PLUS_COLP_ON, "AT+COLP=1 " )
BYTE LC_PLUS_COLP_ON 9

/*
Command:        +CHLD
                Call on hold
```

```
*/
STRING(C_PLUS_CHLD_0, "AT+CHLD=0 " )
BYTE LC_PLUS_CHLD_0 9
STRING(C_PLUS_CHLD_1, "AT+CHLD=1 " )
BYTE LC_PLUS_CHLD_1 9
STRING(C_PLUS_CHLD_2, "AT+CHLD=2 " )
BYTE LC_PLUS_CHLD_2 9
STRING(C_PLUS_CHLD_21, "AT+CHLD=21 " )
BYTE LC_PLUS_CHLD_21 10
STRING(C_PLUS_CHLD_13, "AT+CHLD=13 " )
BYTE LC_PLUS_CHLD_13 10
STRING(C_PLUS_CHLD_3, "AT+CHLD=3 " )
BYTE LC_PLUS_CHLD_3 9

/*
message: +COLP
                calling line presentation
*/
STRING(M_PLUS_COLP_NUM, "+COLP: \"03039094223\",129" )
BYTE LM_PLUS_COLP_NUM 24

/*
message: +CCWA
                call waiting presentation
*/
STRING(M_PLUS_CCWA, "+CCWA: \"03039094223\",129,1" )
BYTE LM_PLUS_CCWA 26

/*
message: RING
                alerting
*/
STRING(M_RING, "RING" )
BYTE LM_RING 4

/*
message: %SATA
                alerting
*/
STRING(M_SATA_RDL, "%SATA: 600000" )
BYTE LM_SATA_RDL 13
STRING(M_SATA, "%SATA: " )
BYTE LM_SATA 7
STRING(M_SATA_CSD_IM_RDL, "%SATA: 60000,2,1")
BYTE LM_SATA_CSD_IM_RDL 16
STRING(M_SATA_CSD_IM, "%SATA: ,2,1")
BYTE LM_SATA_CSD_IM 11
STRING(M_SATA_CSD_OD, "%SATA: ,2,2")
BYTE LM_SATA_CSD_OD 11
STRING(M_SATA_GPRS_IM, "%SATA: ,3,1")
BYTE LM_SATA_GPRS_IM 11
STRING(M_SATA_GPRS_OD, "%SATA: ,3,2")
BYTE LM_SATA_GPRS_OD 11

/*
```

```
command % SATC
*/
STRING(C_PERCENT_SATC_ENA, "AT% SATC=1,070380DE" )     /* some bits shall be discarded by ACI */
BYTE LC_PERCENT_SATC_ENA 18
STRING(C_PERCENT_SATC_ZERO_1, "AT% SATC=1,00" )
STRING(C_PERCENT_SATC_ZERO_4, "AT% SATC=1,00000000" )
STRING(C_PERCENT_SATC_ZERO_12, "AT% SATC=1,000000000000000000000000" )
STRING(C_PERCENT_SATC_ZERO_13, "AT% SATC=1,0000000000000000000000000" )
STRING(C_PERCENT_SATC_CL2_MIN, "AT% SATC=1,01010000" )
STRING(C_PERCENT_SATC_CL2_MAX, "AT% SATC=1,1FF7FFF7" )
STRING(C_PERCENT_SATC_CL2_NORM, "AT% SATC=1,09739737" )
STRING(C_PERCENT_SATC_CL3_NORM, "AT% SATC=1,0973973F6100005801" )
STRING(C_PERCENT_SATC_CL2_NO_MMI, "AT% SATC=1,09038016" )
STRING(C_PERCENT_SATC_CL3_NO_MMI, "AT% SATC=1,0903801E" )
STRING(C_PERCENT_SATC_ALL_4, "AT% SATC=1,FFFFFFFF" )
STRING(C_PERCENT_SATC_ALL_5, "AT% SATC=1,FFFFFFFFFF" )
STRING(C_PERCENT_SATC_ALL_9, "AT% SATC=1,FFFFFFFFFFFFFFFFFF" )
STRING(C_PERCENT_SATC_ALL_12, "AT% SATC=1,FFFFFFFFFFFFFFFFFFFFFFFF" )
STRING(C_PERCENT_SATC_ENA_CL_E, "AT% SATC=2,00" )
BYTE LC_PERCENT_SATC_ENA_CL_E 11
BYTE LC_PERCENT_SATC_1 12
BYTE LC_PERCENT_SATC_4 18
BYTE LC_PERCENT_SATC_5 20
BYTE LC_PERCENT_SATC_9 28
BYTE LC_PERCENT_SATC_12 34
BYTE LC_PERCENT_SATC_13 36
STRING(C_PERCENT_SATC_QUE, "AT% SATC?" )
BYTE LC_PERCENT_SATC_QUE 8
STRING(C_PERCENT_SATC_TST, "AT% SATC=?" )
BYTE LC_PERCENT_SATC_TST 9

/*
message: % SATC
*/
STRING(M_PERCENT_SATC_QUE, "% SATC: 1,450F801E1F0000A4020000132300000002000000" )
BYTE LM_PERCENT_SATC_QUE 49
STRING(M_PERCENT_SATC_TST, "% SATC: (0,1),(40)" )
BYTE LM_PERCENT_SATC_TST 17

/*
command % SATE
*/
STRING(C_PERCENT_SATE_1, "AT% SATE=12345678901234567890123456789O" )
BYTE LC_PERCENT_SATE_1 38

/*
message: % SATE
*/
STRING(M_PERCENT_SATE_1, "% SATE: 09876543210987654321098765432l" )
BYTE LM_PERCENT_SATE_1 37

/*
command % SATR
*/
```

```
STRING(C_PERCENT_SATR_1, "AT%SATR=12345678901234567890123456789O" )
BYTE LC_PERCENT_SATR_1 38

STRING(C_PERCENT_SATR_2, "AT%SATR=810313050082028281830100" )
BYTE LC_PERCENT_SATR_2 32

STRING(C_PERCENT_SATR_3, "AT%SATR=810313050082028281830130" )
BYTE LC_PERCENT_SATR_3 32


/*
message: %SATI
*/
STRING(M_PERCENT_SATI_1, "%SATI: 09876543210987654321098765432l" )
BYTE LM_PERCENT_SATI_1 37
STRING(M_PERCENT_SATI_EMPTY, "%SATI: " )
BYTE LM_PERCENT_SATI_EMPTY 7

/*
command %SATR
*/
STRING(C_PERCENT_SATT_RDL_STOP, "AT%SATT=0" )
BYTE LC_PERCENT_SATT_RDL_STOP 9
STRING(C_PERCENT_SATT_END_RDL, "AT%SATT=1" )
BYTE LC_PERCENT_SATT_END_RDL 9
STRING(C_PERCENT_SATT_END_SESS, "AT%SATT=2" )
BYTE LC_PERCENT_SATT_END_SESS 9

/*
message: %SATN
*/
STRING(M_PERCENT_SATN_PLOI, "%SATN: D009810301260382028182")
BYTE LM_PERCENT_SATN_PLOI 29
STRING(M_PERCENT_SATN_RES_PLOI_OK, "%SATN: 810301260382028281830100A607A0A0A0A0A0A040")
BYTE LM_PERCENT_SATN_RES_PLOI_OK 49
STRING(M_PERCENT_SATN_RUN_CSNS, "%SATN: D015810301340082028182A80A41542B43534E533D350D")
BYTE LM_PERCENT_SATN_RUN_CSNS 53
STRING(M_PERCENT_SATN_RUN_COPS, "%SATN: D015810301340082028182A80A41542B434F50533F0D")
BYTE LM_PERCENT_SATN_RUN_COPS 51
STRING(M_PERCENT_SATN_CALL_IDLE_RDL, "%SATN: D023810301100182028182850B48454C4C4F20574F524C44860781303009494 4F48402000A" )
BYTE LM_PERCENT_SATN_CALL_IDLE_RDL 81
STRING(M_PERCENT_SATN_RES_RDL_STOP, "%SATN: 810301100182028281830123" )
BYTE LM_PERCENT_SATN_RES_RDL_STOP 31
STRING(M_PERCENT_SATN_RES_END_RDL, "%SATN: 8103011001820282818302219l" )
BYTE LM_PERCENT_SATN_RES_END_RDL 33
STRING(M_PERCENT_SATN_RES_END_SESS, "%SATN: 810301100182028281830110" )
BYTE LM_PERCENT_SATN_RES_END_SESS 31
STRING(M_PERCENT_SATN_RES_CC_NO_MDFY, "%SATN: 0000" )
BYTE LM_PERCENT_SATN_RES_CC_NO_MDFY 11
STRING(M_PERCENT_SATN_RES_CC_NO_MDFY_PRMS, "%SATN: 000E8604281091F187008804281091F1" )
BYTE LM_PERCENT_SATN_RES_CC_NO_MDFY_PRMS 39
STRING(M_PERCENT_SATN_RES_CC_MDFY_SCA_DA, "%SATN: 022186088121435487997856860881214354879978568 50B48454C4C4F20574F524C" )
BYTE LM_PERCENT_SATN_RES_CC_MDFY_SCA_DA 75
STRING(M_PERCENT_SATN_RES_CC_MDFY_CAL, "%SATN: 021D8607813030094922F3880588214365F7050B48454C4C4F20574F524C44" )
BYTE LM_PERCENT_SATN_RES_CC_MDFY_CAL 69
```

STRING(M_PERCENT_SATN_RES_CC_MDFY_ECC, "%SATN: 021286038111F2850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_CC_MDFY_ECC 47
STRING(M_PERCENT_SATN_RES_CC_MDFY_SS, "%SATN: 02158906813B33AA31FB850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_CC_MDFY_SS 53
STRING(M_PERCENT_SATN_RES_CC_MDFY_SS_B, "%SATN: 02088904FFBA16FB8700")
BYTE LM_PERCENT_SATN_RES_CC_MDFY_SS_B 27
STRING(M_PERCENT_SATN_RES_CC_MDFY_SS_CF, "%SATN: 02158906810A20AA22FB850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_CC_MDFY_SS_CF 53
STRING(M_PERCENT_SATN_RES_CC_MDFY_SS_UNKNOWN, "%SATN: 0215890681214365879085 0B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_CC_MDFY_SS_UNKNOWN 53
STRING(M_PERCENT_SATN_RES_CC_NOT_ALLW, "%SATN: 010D050B48454C4C4F20574F524C44")
STRING(M_PERCENT_SATN_RES_CC_NOT_ALLW_CR, "%SATN: 010D850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_CC_NOT_ALLW 37
STRING(M_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY, "%SATN: 0100")
BYTE LM_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY 11
STRING(M_PERCENT_SATN_RES_CC_EMPTY, "%SATN: ")
BYTE LM_PERCENT_SATN_RES_CC_EMPTY 7
STRING(M_PERCENT_SATN_RES_SS_NO_MDFY, "%SATN: 0000")
BYTE LM_PERCENT_SATN_RES_SS_NO_MDFY 11
STRING(M_PERCENT_SATN_RES_SS_MDFY_SS, "%SATN: 02158906813B33AA31FB850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_SS_MDFY_SS 53
STRING(M_PERCENT_SATN_RES_SS_NOT_ALLW, "%SATN: 010D850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_SS_NOT_ALLW 37
STRING(M_PERCENT_SATN_RES_SS_MDFY_CAL, "%SATN: 021D8607813030094922F3880588214365F7850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_SS_MDFY_CAL 69
STRING(M_PERCENT_SATN_RES_SS_MDFY_CAL_DTMF, "%SATN: 0221860B813030094922C390ACCB76880588214365F7850B48454C4C4F20574F524C44")
BYTE LM_PERCENT_SATN_RES_SS_MDFY_CAL_DTMF 77
STRING(M_PERCENT_SATN_CMD_SS, "%SATN: D01E8103011100820281828 50B48454C4C4F20574F524C448906813B33AA31FB")
BYTE LM_PERCENT_SATN_CMD_SS 71
STRING(M_PERCENT_SATN_CMD_SS_UNKNOWN, "%SATN: D01E8103011100820281828 50B48454C4C4F20574F524C448906812143658790")
BYTE LM_PERCENT_SATN_CMD_SS_UNKNOWN 71
STRING(M_PERCENT_SATN_CMD_SS_PWD, "%SATN: D02581030111008202818285 0B48454C4C4F20574F524C44890D81AA303A031A32A489679A78B6")
BYTE LM_PERCENT_SATN_CMD_SS_PWD 85
STRING(M_PERCENT_SATN_CMD_SS_NCR, "%SATN: D02181030111008202818285 0B48454C4C4F20574F524C447F01FF8906813B33AA31FB")
BYTE LM_PERCENT_SATN_CMD_SS_NCR 77
STRING(M_PERCENT_SATN_CMD_SS_CR, "%SATN: D02181030111008202818285 0B48454C4C4F20574F524C44FF01FF8906813B33AA31FB")
BYTE LM_PERCENT_SATN_CMD_SS_CR 71
STRING(M_PERCENT_SATN_CMD_CALL_IDLE, "%SATN: D01F8103011000820281828 50B48454C 4C4F20574F524C 448607813030094944F4")
STRING(M_PERCENT_SATN_CMD_CALL_NBSY, "%SATN: D01E8103011000820281838 5084E6F74206275737986099194984 97538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY 71
STRING(M_PERCENT_SATN_CMD_CALL_NBSY2, "%SATN: D02A8103011000820281838511436170616269 6C69747920636F6E6669678609919498497538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY2 95
STRING(M_PERCENT_SATN_CMD_CALL_NBSY3, "%SATN: D02281030110008202818385 0C43616C6C6564207061727479860991949849753 8391C2C88509595959595")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY3 93
STRING(M_PERCENT_SATN_CMD_CALL_NBSY4, "%SATN: D02281030110008202818385 0844757261746 96F6E8609919498497538391C2C8402010A")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY4 79
STRING(M_PERCENT_SATN_CMD_CALL_NBSY5, "%SATN: D01681030110008202818385 0086099194984 97538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY5 55
STRING(M_PERCENT_SATN_CMD_CALL_NBSY6, "%SATN: D01481030110008202818386 0991949849753 8391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY6 51
STRING(M_PERCENT_SATN_CMD_CALL_NBSY7, "%SATN: D01E8103011000820281838 5084E6F74206275737986099194984 97558361C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY7 71
STRING(M_PERCENT_SATN_CMD_CALL_NBSY8, "%SATN: D02881030110008202818385 1280004E006F007400200062007500730079008609919498497538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY8 103
STRING(M_PERCENT_SATN_CMD_CALL_NBSY9, "%SATN: D03C8103011000820281838523800043006100700061006200690 06C006900740079002000630 06F006E006600690067860991949849753 8391C2C870120")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY9 149

STRING(M_PERCENT_SATN_CMD_CALL_NBSY10, "% SATN: D03681030110008202818385198000430061006C006C006500640020007000610072007400798609919498497538391C2C88509595959595")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY10 119
STRING(M_PERCENT_SATN_CMD_CALL_NBSY11, "% SATN: D02B810301100082028183851180004400750072006100740069006F006E8609919498497538391C2C8402010A")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSY11 109
STRING(M_PERCENT_SATN_CMD_CALL_NBSYRD, "% SATN: D02A81030110018202818385144E6F74206275737920776974682072656469616C8609919498497538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSYRD 95
STRING(M_PERCENT_SATN_CMD_CALL_NBSYRD2, "% SATN: D03F810301100182028183852980004E006F00740020006200750073007900200077006900740068002000720065006400690061006C8609919498497538391C2C")
BYTE LM_PERCENT_SATN_CMD_CALL_NBSYRD2 137
STRING(M_PERCENT_SATN_CMD_CALL_NBSYRD3, "
STRING(M_PERCENT_SATN_CMD_CALL_NBSYRD3_REST, "3254769810325476981032547698BABABABABACCCCCC1032547698103254769810325476988ABABABABACCCCCC3C1032547698103254769810325476988ABABABABACCCCD1")
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_CR1, "%SATN: D01F810301100082028182050B48454C4C4F20574F524C448607813030094944F4")
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_CR2, "%SATN: D01F010301100082028182850B48454C4C4F20574F524C448607813030094944F4")
BYTE LM_PERCENT_SATN_CMD_CALL_IDLE 73
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_ICON, "%SATN: D023810301100082028182850B48454C4C4F20574F524C448607813030094944F41E020001")
BYTE LM_PERCENT_SATN_CMD_CALL_IDLE_ICON 81
STRING(M_PERCENT_SATN_CMD_CALL_HOLD, "%SATN: D01F810301100282028182850B48454C4C4F20574F524C448607813030094944F4")
BYTE LM_PERCENT_SATN_CMD_CALL_HOLD 73
STRING(M_PERCENT_SATN_CMD_CALL_HOLD2, "% SATN: D018810301100282028183850 74F6E20686F6C64860491941119")
BYTE LM_PERCENT_SATN_CMD_CALL_HOLD2 59
STRING(M_PERCENT_SATN_CMD_CALL_HOLD3, "% SATN: D018810301100282028183850 74F6E20686F6C64860480BA16FB")
BYTE LM_PERCENT_SATN_CMD_CALL_HOLD3 59
STRING(M_PERCENT_SATN_CMD_CALL_HOLD4, "%SATN: D020810301100282028183850F80004F006E002000680 06F006C0064860491941119")
BYTE LM_PERCENT_SATN_CMD_CALL_HOLD4 75
STRING(M_PERCENT_SATN_CMD_CALL_HOLD5, "%SATN: D020810301100282028183850F80004F006E002000680 06F006C0064860480BA16FB")
BYTE LM_PERCENT_SATN_CMD_CALL_HOLD5 75
STRING(M_PERCENT_SATN_CMD_CALL_DISC, "%SATN: D01F810301100482028182850B48454C4C4F20574F524C448607813030094944F4")
BYTE LM_PERCENT_SATN_CMD_CALL_DISC 73
STRING(M_PERCENT_SATN_CMD_CALL_DISC2, "%SATN: D01E810301100482028183850A446973636F6E6E6563748607919498497578 43")
BYTE LM_PERCENT_SATN_CMD_CALL_DISC2 71
STRING(M_PERCENT_SATN_CMD_CALL_DISC3, "% SATN: D02A810301100482028183851680004400690073006300 6F006E006E006500630074008607919498497538 39")
BYTE LM_PERCENT_SATN_CMD_CALL_DISC3 95
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_DTMF, "% SATN: D023810301100082028182850B48454C4C4F20574F524C44860B813030094944C490ACCB76")
BYTE LM_PERCENT_SATN_CMD_CALL_IDLE_DTMF 81
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_RDL, "% SATN: D023810301100182028182850B48454C4C4F20574F524C448607813030094944F48402000A")
BYTE LM_PERCENT_SATN_CMD_CALL_IDLE_RDL 81
STRING(M_PERCENT_SATN_CMD_CALL_IDLE_LONG, "% SATN: D0813C810301100082028182852848454C4C4F20574F524C442048454C4C4F20574F524C442020482454C4C4F20574F524C44202121218607813030094944F4")
BYTE LM_PERCENT_SATN_CMD_CALL_IDLE_LONG 133
STRING(M_PERCENT_SATN_CMD_SSM_1, "% SATN: D037810301130082028183850753656E6420534D8609911122334455667 7F88B1801000991103254 76F840F40C54657374204D657373616765")
BYTE LM_PERCENT_SATN_CMD_SSM_1 121
STRING(M_PERCENT_SATN_CMD_SSM_REM, "% SATN: D0508103011300820281830609156B8450002BB3D1100048188880004A7330095650000101529542F F00661E0000000000032003500300033003200300030003280031003200300030805465737 4802D")
BYTE LM_PERCENT_SATN_CMD_SSM_REM 171
STRING(M_PERCENT_SATN_CMD_SSM_2, "% SATN: D032810301130182028183850753656E6420534D8609911122334455667 7F88B1301000991103254 76F840F40753656E6420534D")
BYTE LM_PERCENT_SATN_CMD_SSM_2 111
STRING(M_PERCENT_SATN_CMD_SSM_2A, "% SATN: D032810301130082028183850753656E6420534D8609911122334455667 7F88B1301000991 10325476F840F007D3B29B0C9A3601")
BYTE LM_PERCENT_SATN_CMD_SSM_2A 111
STRING(M_PERCENT_SATN_CMD_SSM_3, "% SATN: D03D810301130082028183850D53686F 7274204D6573736167658609911122334455667 7F88B1801000991103254 76F840F00D53F 45B4E0735CBF379F85C06")
BYTE LM_PERCENT_SATN_CMD_SSM_3 133
STRING(M_PERCENT_SATN_CMD_SSM_4_1, "%SATN: D0BF D1003D1300820181850B48454C4C4F20574F524C448607813030094944F4 0947BF 2074705873281728528488888E 6944A 22DD 2041237888F 7242B3 857381805224F 2928523788E 7425AF 2274886238E 6574787 728B 2089E 2E04C1522D 5355424E4642A0D 857383E7")
STRING(M_PERCENT_SATN_CMD_SSM_4_2, "1522C38F 7238A9E 2E04C1522D 4AF 4C4C4F4E 4D2E4657383A0522C 2D7886E2852A9882257E5522A94C7442D83A0E 2928523787D7238942A7C2E38E 2328")
STRING(M_PERCENT_SATN_CMD_SSM_4A_1, "%SATN: D1BFE 8F2D71D3D2818185B48454C4C4F20574F524C448607813030094944F4 0947BF 2074705873281728528488888E 6944A 22DD 2041237888F 7242B3 857381805224F 2928523788E 7425AF 2274886238E 6574787 728B 2089E 2E04C1522D 5355424E4642A0D 857383E7")
STRING(M_PERCENT_SATN_CMD_SSM_4A_2, "38CF 4E0E 5246D A E 3F 3EC7 C2E 8 3677485E 0ED 72 1B5D3C 5E 3EBC 8E57A 1B34E 8 B 45 2328E 5E CF C B 44B3D 1E 9CF E 7")
STRING(M_PERCENT_SATN_CMD_SSM_5_1, "%SATN: D1BFE 8F2D71D3D2818185B48454C4C4F20574F524C448607813030094944F4 0947BF 2074705873281728528488888E 6944A 22DD 2041237888F 7242B3 857381805224F 2928523788E 7425AF 2274886238E 6574787 728B 2089E 2E04C1522D 5355424E4642A0D 857383E7")
STRING(M_PERCENT_SATN_CMD_SSM_5_2, "86CF6633E82482DAE5F93C7C2EB3407774595E06D1D165507D5E9683C8617A18340EBB41E232081E9ECFCB64105D1E76CFE1")
STRING(M_PERCENT_SATN_CMD_SSM_6_1, "%SATN: D0BF D1003D1300820181850B48454C4C4F20574F524C448607813030094944F4 0947BF 2074705873281728528488888E 6944A 22DD 2041237888F 7242B3 857381805224F 2928523788E 7425AF 2274886238E 6574787 728B 2089E 2E04C1522D 5355424E4642A0D 857383E7")
STRING(M_PERCENT_SATN_CMD_SSM_6_2, "4120736B6F 72742064D6573736167652074 2062652073656E74207 46F 2074686520E6574776F 726B20696E20616E 2053 4D 532D535424D4654208B 0901000291104 0F 0012 0")
STRING(M_PERCENT_SATN_CMD_SSM_UCS2, "% SATN: D037810301130082028183850753656E6420534D8609911122334455667 7F88B1801000991103254 76F840080600650074004D007300610065")
BYTE LM_PERCENT_SATN_CMD_SSM_UCS2 121
STRING(M_PERCENT_SATN_RES_SS_SUCC, "% SATN: 8103011100820282818 30D000DA1073005300383016000000")
BYTE LM_PERCENT_SATN_RES_SS_SUCC 55
STRING(M_PERCENT_SATN_RES_SS_PWD_SUCC, "% SATN: 8103011100820282818 30C0011120431323334000000000")
BYTE LM_PERCENT_SATN_RES_SS_PWD_SUCC 53
STRING(M_PERCENT_SATN_RES_SS_SUCC_PC, "% SATN: 8103011100820282818 30D010DA1073005300383016000000")
BYTE LM_PERCENT_SATN_RES_SS_SUCC_PC 51
STRING(M_PERCENT_SATN_RES_SS_BUSY, "% SATN: 8103011100820282818 3022003")

BYTE LM_PERCENT_SATN_RES_SS_BUSY 33
STRING(M_PERCENT_SATN_RES_SS_ME_CAP, "% SATN: 810301110082028281830130")
BYTE LM_PERCENT_SATN_RES_SS_ME_CAP 31
STRING(M_PERCENT_SATN_RES_SS_CMD_UNKNOWN, "% SATN: 810301110082028281830132")
BYTE LM_PERCENT_SATN_RES_SS_CMD_UNKNOWN 31
STRING(M_PERCENT_SATN_RES_SS_ERR, "% SATN: 8103011100820282818302341 3")
BYTE LM_PERCENT_SATN_RES_SS_ERR 33
STRING(M_PERCENT_SATN_RES_SS_REJ, "% SATN: 810301110082028281830434810103")
BYTE LM_PERCENT_SATN_RES_SS_REJ 37
STRING(M_PERCENT_SATN_RES_SS_NOT_ALLWD, "% SATN: 8103011100820282818302390 1")
BYTE LM_PERCENT_SATN_RES_SS_NOT_ALLWD 33
STRING(M_PERCENT_SATN_RES_REJ_MDFY_CALL, "% SATN: 810301110082028281830125A71D860781303009492 2F3880588214365F7850B48454C4C4F20 574F524C44830122")
BYTE LM_PERCENT_SATN_RES_REJ_MDFY_CALL 99
STRING(M_PERCENT_SATN_RES_REJ_MDFY_CALL_IDLE, "% SATN: 810301100082028281830125A71D860781303009492 2F3880588214365F7050B48454C4C4F20574F524C44830122")
BYTE LM_PERCENT_SATN_RES_REJ_MDFY_CALL_IDLE 99
STRING(M_PERCENT_SATN_RES_REJ_UNMDFY_CALL, "% SATN: 810301100082028281830122")
BYTE LM_PERCENT_SATN_RES_REJ_UNMDFY_CALL 31
STRING(M_PERCENT_SATN_RES_REJ_OPCH_BY_USR, "% SATN: 810301400182028281830122B8020100")
BYTE LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR 39
STRING(M_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD, "% SATN: 81030140008202828183012 2B8020100")
BYTE LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD 39
STRING(M_PERCENT_SATN_RES_GETCHS_DEACT, "% SATN: 81030144008202828183010 0B8020100")
BYTE LM_PERCENT_SATN_RES_GETCHS_DEACT 39
STRING(M_PERCENT_SATN_RES_GETCHS_ACT, "% SATN: 81030144008202828183010 0B8028100")
BYTE LM_PERCENT_SATN_RES_GETCHS_ACT 39

STRING(M_PERCENT_SATN_RES_OK_MDFY_CALL, "% SATN: 810301110082028281830105A71D860781303009492 2F3880588214365F7850B48454C4C4F205 74F524C44830100")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_CALL 99
STRING(M_PERCENT_SATN_RES_OK_MDFY_CALL_IDLE, "% SATN: 810301100082028281830105A71D860781303009492 2F3880588214365F7050B48454C4C4F20574F524C44830100")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_CALL_IDLE 99
STRING(M_PERCENT_SATN_RES_OK_MDFY_CALL_ECC, "% SATN: 810301100082028281830105A71286038111F2850B48454C4C4F2057 4F524C44830100")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_CALL_ECC 77
STRING(M_PERCENT_SATN_RES_OK_MDFY_CALL_DTMF, "% SATN: 810301110082028281830105A721860B813030094922C390ACCB76880588214365F7850B 48454C4C4F20574F524C44830100")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_CALL_DTMF 107
STRING(M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE, "% SATN: 810301100082028281830105A7158906813B33AA31FB850B48454C4C4F20574F524C44830D 000DA107300530038301600000")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_SS_IDLE 107
STRING(M_PERCENT_SATN_RES_OK_MDFY_SS_HOLD, "% SATN: 810301100282028281830105A7158906813B33AA31FB850B48454C4C4F20574F524C44830D000DA107300530038301600000")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_SS_HOLD 107
STRING(M_PERCENT_SATN_RES_OK_MDFY_SS_DISC, "% SATN: 810301100482028281830105A7158906813B33AA31FB850B48 454C4C4F20574F524C44830D000DA107300530038301600000")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_SS_DISC 107
STRING(M_PERCENT_SATN_RES_SS_ERR_IDLE, "% SATN: 810301100082028281830239 02A7158906813B33AA31FB850B48454C4C4F20574F524C448302341 3")
BYTE LM_PERCENT_SATN_RES_OK_MDFY_SS_DISC 107
STRING(M_PERCENT_SATN_RES_MDFY_SS_ERR_IDLE, "% SATN: 810301100082028281830239 02A7158906813B33AA31FB850B48454C4C4F20574F524C448 3023413")
BYTE LM_PERCENT_SATN_RES_MDFY_SS_ERR_IDLE 87
BYTE LM_PERCENT_SATN_RES_SS_ERR_IDLE 87
STRING(M_PERCENT_SATN_RES_MDFY_SS_ME_CAP_IDLE, "% SATN: 810301100082028281830239 02A7158906812143658790850B48454C4C4F20574F524C4483023930")
BYTE LM_PERCENT_SATN_RES_MDFY_SS_ME_CAP_IDLE 87
STRING(M_PERCENT_SATN_RES_MDFY_SS_BUSY_IDLE, "% SATN: 810301100082028281830125A7158906813B33AA31FB850B48454C4C4F20574F524C44 83022003")
BYTE LM_PERCENT_SATN_RES_MDFY_SS_BUSY_IDLE 85
STRING(M_PERCENT_SATN_RES_OK_UNMDFY_CALL, "% SATN: 810301100082028281830100")
BYTE LM_PERCENT_SATN_RES_OK_UNMDFY_CALL 31
STRING(M_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD, "% SATN: 810301100282028281830100")
BYTE LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD 31
STRING(M_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC, "% SATN: 810301100482028281830100")
BYTE LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC 31
STRING(M_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR, "% SATN: 810301110082028281830125A71D860781303009492 2F3880588214365F7850B48454C4C4F20574F524C4483022191")
BYTE LM_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR 101
STRING(M_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR_IDLE, "% SATN: 810301100082028281830125A71D86078 13030094922F3880588214365F7050B48454C4C4F20574F524C4483022191")

BYTE LM_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR_IDLE 101
STRING(M_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR, "% SATN: 810301100082028281830222191")
BYTE LM_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR 33
STRING(M_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN, "% SATN: 81030110028202828183022100")
BYTE LM_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN 33
STRING(M_PERCENT_SATN_RES_MDFY_CALL_USR_ABT, "% SATN: 810301110082028281830125A71D8607813030094922F3880588214365F7 850B48454C4C4F20574F524C44830123")
BYTE LM_PERCENT_SATN_RES_MDFY_CALL_USR_ABT 99
STRING(M_PERCENT_SATN_RES_MDFY_CALL_USR_ABT_IDLE, "% SATN: 81030110008202828183012 5A71D8607813030094922F3880588214365F7050B484 54C4C4F20574F524C44830123")
BYTE LM_PERCENT_SATN_RES_MDFY_CALL_USR_ABT_IDLE 99
STRING(M_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT, "% SATN: 8103011000820282818301 23")
BYTE LM_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT 31
STRING(M_PERCENT_SATN_RES_ME_NOT_IDLE, "% SATN: 810301100082028281830222002")
BYTE LM_PERCENT_SATN_RES_ME_NOT_IDLE 33
STRING(M_PERCENT_SATN_RES_UNMDFY_CALL_ME_CAP_HOLD, "% SATN: 8103011002820282818301 30")
BYTE LM_PERCENT_SATN_RES_UNMDFY_CALL_ME_CAP_HOLD 31
STRING(M_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE, "% SATN: 810301100082028281830239 01")
BYTE LM_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE 33
STRING(M_PERCENT_SATN_RES_CALL_NOT_ALLW_HOLD, "% SATN: 810301100282028281830239 01")
BYTE LM_PERCENT_SATN_RES_CALL_NOT_ALLW_HOLD 33
STRING(M_PERCENT_SATN_RES_CALL_NOT_ALLW_DISC, "% SATN: 810301100482028281830239 01")
BYTE LM_PERCENT_SATN_RES_CALL_NOT_ALLW_DISC 33
STRING(M_PERCENT_SATN_RES_CALL_NOT_ALLW_OPCH, "% SATN: 8103014001820282818302390 1B8020100")
BYTE LM_PERCENT_SATN_RES_CALL_NOT_ALLW_OPCH 41
STRING(M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE_LONG, "%SATN: 810010802081810A 29A2F 5 B3B-4A6C-4C4F 20AF SAC-4B9C-3D0C-A 0604D2D8D3D2C 0B4C4 0B3C 0 C4 0 B7D2 4 0 4 0 B3B3 4 0 B7D2 4 0 B3B3 4 0 B7D2 4 0 B3B3 4 0 B7D2

BYTE LM_PERCENT_SATN_CMD_OPCH_CSD_G 117

STRING(M_PERCENT_SATN_CMD_OPCH_CSD_H, "% SATN: D032810301400082028182050B48454C4C4F20574F524C441E020001060781303009494 4F40402013C0402010AB50103B90203E8")
BYTE LM_PERCENT_SATN_CMD_OPCH_CSD_H 111

STRING(M_PERCENT_SATN_CMD_OPCH_CSD_I, "%SATN: D069810301400182028182050B48454C4C4F20574F524C441E020001060781303009494 4F404020 13C0402010AB6040147000 1B90207D03E11570908070605040302090807060504030209080706050403020D9045340542D5553455200D80453405 42D5057443C030200013E052101020304")
BYTE LM_PERCENT_SATN_CMD_OPCH_CSD_I 221

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_J, "% SATN: D04A810301400182028182050B48454C4C4F20574F524C441E020001B507020102020407 02B90203E847130467707273 0A64312D74656C65636F6D026 4653E052109080706 3C030100013E052101020304")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_J 169

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_K, "% SATN: D03C810301400182028182050B48454C4C4F20574F524C441E020001B507020102020407 02B90203E847130467707273 0A64312D74656C65636F6D026 465")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_K 131

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_L, "% SATN: D021810301400182028182050B48454C4C4F20574F524C441E020001B50103B90203E8")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_L 77

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_M, "% SATN: D04A810301400082028182050B48454C4C4F20574F524C441E020001B507020102020407 02B90203E847130467707273 0A64312D74656C65636F6D026 4653C03010013E052101020304")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_M 155

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_N, "% SATN: D03C810301400082028182050B48454C4C4F20574F524C441E020001B507020102020407 02B90203E847130467707273 0A64312D74656C65636F6D026 465")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_N 131

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_O, "% SATN: D021810301400082028182050B48454C4C4F20574F524C441E020001B50103B90203E8")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_O 77

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_P, "% SATN: D046810301400182028182050B48454C4C4F20574F524C441E020001B507020102020407 02B90207D03E11570908070605040302090807060504030 23C030200013E052101020304")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_P 151

STRING(M_PERCENT_SATN_CMD_SND_DAT_OD, "%SATN: D080810301430082028182050B48454C4C4F20574F524C441E020001B664000102030405060708090001020304050 60 708090001020304050607080900010203040506070809000102030405060708090001020304050607080900010203040506070809000102030405060708090001020304050607080900010203040506070809")
BYTE LM_PERCENT_SATN_CMD_SND_DAT_OD 267

STRING(M_PERCENT_SATN_CMD_SND_DAT_IM, "%SATN: D080810301430182028182050B48454C4C4F20574F524C441E020001B664000102030405060708090001020304050607080900010203040506070809000102030405060708 0 90001020304050607080900010203040506070809000102030405060708090001020304050607080900010203040506070809")
BYTE LM_PERCENT_SATN_CMD_SND_DAT_IM 267

STRING(M_PERCENT_SATN_CMD_CLCH, "% SATN: D01A810301410082028121050B48454C4C4F20574F524C441E020001")
BYTE LM_PERCENT_SATN_CMD_CLCH 63

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_1, "% SATN:
D02D81030140FF820221820505484 54C4C4F06078130300949444FB5070202010203040 2B902DC05 470A02524D05434F4E444154
3C030100013E052101020304")
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_1 135

STRING(M_PERCENT_SATN_CMD_OPCH_GPRS_2, "% SATN:
D02D81030140FF820221820505484 54C4C4F06078130300949444FB5070202010203040 2B902DC05470A02524D05434F4E444154"
)
BYTE LM_PERCENT_SATN_CMD_OPCH_GPRS_2 111

STRING(M_PERCENT_SATN_RES_OPCH_CSD_OD_A, "%SATN: 810301400082028281830100B8020100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_OD_A 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_OD_B, "%SATN: 810301400082028281830105B8020100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_OD_B 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_OD_C, "%SATN: 810301400082028281830100B8020100B50401470000B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_OD_C 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_OD_D, "%SATN: 810301400082028281830100B8020100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_OD_D 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_OD_E, "%SATN: 810301400082028281830100B8020100B50401070001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_OD_E 59

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_OD_F, "%SATN: 810301400082028281830100B8020100B5070201020204070 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_OD_F 65

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_OD_G, "%SATN: 810301400082028281830100B8020100B5070201020204070 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_OD_G 65

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_OD_H, "%SATN: 810301400082028281830100B8020100B5070200000000000 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_OD_H 65

STRING(M_PERCENT_SATN_RES_OPCH_ME_CAP, "%SATN: 8103014001820282818301 30B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_ME_CAP 39

STRING(M_PERCENT_SATN_RES_OPCH_CSD_A, "%SATN: 810301400182028281830100B8028100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_A 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_B, "%SATN: 810301400182028281830105B8028100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_B 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_C, "%SATN: 810301400182028281830107B8028100B50401460000B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_C 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_D, "%SATN: 810301400382028281830100B8028100B50401470001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_D 59

STRING(M_PERCENT_SATN_RES_OPCH_CSD_E, "%SATN: 810301400182028281830100B8028100B50401070001B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_E 59

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_F, "%SATN: 810301400182028281830100B8028100B5070201020204070 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_F 65

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_G, "%SATN: 810301400182028281830100B8028100B5070201020204070 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_G 65

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_H, "%SATN: 810301400182028281830100B8028100B5070201020204070 2B90205DC")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_H 65

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_I, "%SATN: 810301400182028281830220 02B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_I 41

STRING(M_PERCENT_SATN_RES_CLCH_CSD, "%SATN: 8103014100820282818301 00B8020100")
BYTE LM_PERCENT_SATN_RES_CLCH_CSD 39

STRING(M_PERCENT_SATN_RES_OPCH_BIP_ERR, "%SATN: 810301400182028281830 23A01B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_BIP_ERR 41

STRING(M_PERCENT_SATN_RES_OPCH_CSD_NTW_ERR, "%SATN: 810301400182028281830 22191B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_NTW_ERR 41

STRING(M_PERCENT_SATN_RES_OPCH_GPRS_NTW_ERR, "%SATN: 810301400182028281830 221A6B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_GPRS_NTW_ERR 41

STRING(M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT, "%SATN: 8103014001820282818301 23B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT 39

STRING(M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT_2, "%SATN: 8103014003820282818301 23B8020100")
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT_2 39

```
STRING(M_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF, "%SATN: 810301400182028281830120B8020100" )
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF 39

STRING(M_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF_2, "%SATN: 810301400382028281830120B8020100" )
BYTE LM_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF_2 39


/* SMS related commands and messages */

STRING(C_CSMP_QUERY, "AT+CSMP?")
BYTE LC_CSMP_QUERY 8

STRING(M_CSMP_QUERY_DEF, "+CSMP: 17,167,0,0")
BYTE LM_CSMP_QUERY_DEF 17

STRING(M_CSMP_QUERY_SMSP_CMPL, "+CSMP: 17,57,64,242")
BYTE LM_CSMP_QUERY_SMSP_CMPL 19

STRING(M_CSMP_QUERY_SMSP_WO_VPREL, "+CSMP: 1,,64,242")
BYTE LM_CSMP_QUERY_SMSP_WO_VPREL 16

STRING(C_CSCA_QUERY, "AT+CSCA?")
BYTE LC_CSCA_QUERY 8

STRING(M_CSCA_QUERY_DEF, "+CSCA: \"\",128")
BYTE LM_CSCA_QUERY_DEF 13

STRING(M_CSCA_QUERY1_SMSP, "+CSCA: \"987654321\",129")
BYTE LM_CSCA_QUERY1_SMSP 22

STRING(M_CSCA_QUERY2_SMSP, "+CSCA: \"4930390940\",145")
BYTE LM_CSCA_QUERY2_SMSP 23

STRING(C_CSCB_QUERY, "AT+CSCB?")
BYTE LC_CSCB_QUERY 8

STRING(M_CSCB_QUERY_DEF, "+CSCB: 0,\"\",\"\"")
BYTE LM_CSCB_QUERY_DEF 14

STRING(M_CSCB_QUERY_2R_2V, "+CSCB: 0,\"1-41,288-863,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_2R_2V 34

STRING(M_CSCB_QUERY_5R_2V, "+CSCB: 0,\"1-41,48,81,288-863,100-149,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_5R_2V 48

STRING(C_CNMI_ONLY_CBM, "AT+CNMI=2,,2")
BYTE LC_CNMI_ONLY_CBM 12

STRING(C_CNMI_QUERY, "AT+CNMI?")
BYTE LC_CNMI_QUERY 8

STRING(M_CNMI_QUERY, "+CNMI: 2,0,2,0,0")
BYTE LM_CNMI_QUERY 16

STRING(M_CBM_MSG_2, "+CBM: 0,25,1,1,1")
BYTE LM_CBM_MSG_2 16
```

```
STRING(M_CBM_MSG_2_TEXT, "Racal Instruments 6103 for all your GSM testing requirements.")
BYTE LM_CBM_MSG_2_TEXT 92 /* message is filled up with '0x0D' characters upto this length */

BYTE L_SMSP_MIN 28
BYTE L_SMSP_ALPHA_ID 35

BYTE L_CBMI_10 20
BYTE L_CBMID_5 10
BYTE L_CBMID_10 20
BYTE L_CBMIR_2 8
BYTE L_CBMIR_5 20



/* SIM REFRESH commands and messages */

STRING (M_PERCENT_SIMREM_SAT, "%SIMREM: 0")                    /* SIM Reset */
STRING (M_PERCENT_SIMREM_OTHER, "%SIMREM: 1")                  /* SIM Failure */
SHORT LM_PERCENT_SIMREM 10

STRING (M_PERCENT_SIMINS_NO_PIN, "%SIMINS: -1")                /* no error */
STRING (M_PERCENT_SIMINS_PIN_REQU, "%SIMINS: 11")              /* SIM PIN1 required */
STRING (M_PERCENT_SIMINS_PUK_REQU, "%SIMINS: 12")              /* SIM PUK1 required */
SHORT LM_PERCENT_SIMINS 11

STRING(C_CGDCONT_1, "AT+CGDCONT=1,\"IP\",\"APN\",\"255.255.255.255\",0,0\r")
BYTE LC_CGDCONT_1 46

STRING(C_GD_0, "ATD*98#\r")
BYTE LC_GD_0 8

STRING(C_CGDCONT_SPECIAL, "AT+CGDCONT=,\"IP\",\"APN\",\"18.52.86.120\",0,0;+CGQREQ=,1,1,3,1,1\r")
BYTE LC_CGDCONT_SPECIAL 61

STRING(C_CGQREQ_1, "AT+CGQREQ=1,1,1,3,1,1\r")
BYTE LC_CGQREQ_1 20

STRING (C_PERCENT_CGPCO_1, "%CGPCO:1,\"PAP\",\"name\",\"password\"")
SHORT LC_PERCENT_CGPCO_1 32


/*---------------------------------------- arrays ---------------------------------------------------- */

BEGINARRAY (F_MCC_262, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (F_MNC_01, 2) 0x00, 0x01 ENDARRAY

/* EF AD field array , disable CI */
BEGINARRAY_PART (A_AD_FIELD_CI_DISABLED,4) 0x00, 0x00, 0x00, 0x02 ENDARRAY

/* SIM toolkit profile */
BEGINARRAY(F_STK_PRF, MAX_STK_PRF)
0x45, 0x0F, 0x80, 0x1E, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_2, MAX_STK_PRF)
```

0x57, 0x3F, 0xD6, 0x7E, 0x9F, 0x12, 0x34, 0xF6, 0x78, 0x90, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL2_MIN, MAX_STK_PRF)
0x45, 0x0F, 0x80, 0x02, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL3_MIN, MAX_STK_PRF)
0x45, 0x0F, 0x80, 0x02, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL2_NORM, MAX_STK_PRF)
0x4D, 0x7F, 0x97, 0x37, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL3_NORM, MAX_STK_PRF)
0x4D, 0x7F, 0x97, 0x3F, 0x7F, 0x00, 0x00, 0xFC, 0x03, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL2_NO_MMI, MAX_STK_PRF)
0x4D, 0x0F, 0x80, 0x16, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL3_NO_MMI, MAX_STK_PRF)
0x4D, 0x0F, 0x80, 0x1E, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_CL2_MAX, MAX_STK_PRF)
0x4D, 0xFF, 0x97, 0x37, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_MAX_4, MAX_STK_PRF)
0x4D, 0xFF, 0x97, 0x3F, 0x1F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_MAX_5, MAX_STK_PRF)
0x4D, 0xFF, 0x97, 0x3F, 0x7F, 0x00, 0x00, 0xA4, 0x02, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_MAX_12, MAX_STK_PRF)
0x4D, 0xFF, 0x97, 0x3F, 0x7F, 0x02, 0x00, 0xFC, 0x43, 0x03, 0xFF, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY(F_STK_PRF_MAX_9, MAX_STK_PRF)
0x4D, 0xFF, 0x97, 0x3F, 0x7F, 0x02, 0x00, 0xFC, 0x43, 0x00, 0x00, 0x13, 0x23, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00
ENDARRAY

/* send data */
BEGINARRAY (SMSP_CMPL, L_SMSP_MIN)
0xE0,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x40,
0xF2,

```
0x39
ENDARRAY

BEGINARRAY (SMSP_WO_DA_VPREL, L_SMSP_MIN)
0xF1,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x06, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x40,
0xF2,
0x39
ENDARRAY

BEGINARRAY (SMSP_CMPL_ALPHA_ID, L_SMSP_ALPHA_ID+1)
0x41, 0x42, 0x43, 0x3C, 0x1E, 0x3E, 0xFF,
0xE0,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,   /* number of octets wrong, but shall work */
0x40,
0xF2,
0x39
ENDARRAY


/* Message Identifier*/
BEGIN_SHORT_ARRAY (CBM_MID_DEF, MAX_IDENTS)
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MID_2R_2V, MAX_IDENTS)
0x0001, 0x0029,
0x0120, 0x035F,
0x0019, 0x0019,
0x07D0, 0x07D0,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGINARRAY (CBM_DCS_DEF, MAX_IDENTS)
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY


/* Received data */
BEGINARRAY (CBMI_10E_2V2, L_CBMI_10)
0x00, 0x19,
0xFF, 0xFF,
0x07, 0xD0,
```

```
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBMI_10E_2V3, L_CBMI_10)
0xFF, 0xFF,
0x00, 0x19,
0xFF, 0xFF,
0xFF, 0xFF,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBMIR_2E_2R, L_CBMIR_2)
0x00, 0x01, 0x00, 0x29,
0x01, 0x20, 0x03, 0x5F
ENDARRAY

BEGINARRAY (CBMIR_5E_5R, L_CBMIR_5)
0x00, 0x01, 0x00, 0x29,
0x00, 0x30, 0x00, 0x30,
0x00, 0x51, 0x00, 0x51,
0x01, 0x20, 0x03, 0x5F,
0x00, 0x64, 0x00, 0x95
ENDARRAY

BEGINARRAY (CBMID_5E_1V, L_CBMID_5)
0x10, 0x01,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBMID_10E_2V, L_CBMID_10)
0x10, 0x01,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY
```

```
BEGINARRAY (CBMID_10E_2V2, L_CBMID_10)
0x10, 0x01,
0xFF, 0xFF,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BYTE L_LP_01 1
BEGINARRAY (LP_01, L_LP_01)
0x01
ENDARRAY

BYTE L_AD_01 3
BEGINARRAY (AD_01, L_AD_01)
0x00, 0x00, 0x01
ENDARRAY

BYTE L_ACM_01 3
BEGINARRAY (ACM_01, L_ACM_01)
0x00, 0x00, 0x01
ENDARRAY

BYTE L_ACMMAX_01 3
BEGINARRAY (ACMMAX_01, L_ACMMAX_01)
0x00, 0x00, 0x01
ENDARRAY

BYTE L_PUCT_01 5
BEGINARRAY (PUCT_01, L_PUCT_01)
0x00, 0x00, 0x00, 0x00, 0x01
ENDARRAY

// ADN entries , length of alpha idenitfier = 20
//"00 49 123 9876543",129,"Heier, Max"
BYTE L_ADN_01 34
BEGINARRAY (ADN_01, L_ADN_01)
                0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
                0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
                0x08,
                0x81,
                0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
                0xFF,
                0xFF
ENDARRAY

//"9123 456789",161,"Hans Egon"
BYTE L_ADN_02 34
BEGINARRAY (ADN_02, L_ADN_02)
                0x48, 0x61, 0x6E, 0x73, 0x20, 0x45, 0x67, 0x6F, 0x6E,
                0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
```

```
                0x06,
                0xA1,
                0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
                0xFF,
                0xFF
ENDARRAY

// FDN entries , length of alpha idenitfier = 20
//"00 49 123 9876543",129,"Heier, Max"
BYTE L_FDN_01 34
BEGINARRAY(FDN_01, L_FDN_01)
        0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
        0x08,
        0x81,
        0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

// LDN entries , length of alpha idenitfier = 20
//"00 49 123 9876543",129,"Heier, Max"
BYTE L_LND_01 34
BEGINARRAY(LND_01, L_LND_01)
        0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
        0x08,
        0x81,
        0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

// MSISDN entries , length of alpha idenitfier = 20
//"00 49 123 9876543",129,"Heier, Max"
BYTE L_MSISDN_01 34
BEGINARRAY(MSISDN_01, L_MSISDN_01)
        0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
        0x08,
        0x81,
        0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY


/* Message Identifier */
BEGIN_SHORT_ARRAY (CBM_MID_SAT_1V, MAX_IDENTS_SAT)
0x1001, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MID_SAT_2V, MAX_IDENTS_SAT)
0x1001, 0x07D0, 0xFFFF, 0xFFFF, 0xFFFF,
```

```
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY


/* SIM service table */
BEGINARRAY (F_SIM_SRV, 10)
0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFC, 0x03, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_SIM_SRV_NO_CC, 10)
0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x03, 0x00, 0x30
ENDARRAY

BEGINARRAY (F_SIM_SRV_SMS, 11)
0xC3, 0x00, 0xC0, 0x0C, 0x00, 0x00, 0xFF, 0x0F, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_SIM_SRV_SMS_CNTR, 11)
0xC3, 0x00, 0xC0, 0x0C, 0x00, 0x00, 0xFF, 0x0F, 0x00, 0x03, 0x00
ENDARRAY

BEGINARRAY (F_SIM_SRV_PHB, 11)
0x3F, 0x00, 0x03, 0x0F, 0x00, 0x00, 0xFC, 0x03, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_SIM_SRV_AOC, 12)
0x03, 0x03, 0x00, 0x00, 0x00, 0x00, 0xFC, 0x03, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* Network Time Zone */
BEGIN_PSTRUCT ("ntz", NTZ_PLS_1HR)
                SET_COMP ("v_tz",               NUM_1)
                SET_COMP ("tz",                 NUM_40_HEX)
ENDSTRUCT

/* absolute validity periods */
BEGINARRAY(VP_A9801071234564, 13)
        0x09, 0x08, 0x00, 0x01, 0x00, 0x07, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x40
ENDARRAY

BEGIN_PSTRUCT ("plmn", S_PLMN_262_01)
                SET_COMP ("v_plmn",             NUM_1)
                SET_COMP ("mcc",                F_MCC_262)
                SET_COMP ("mnc",                F_MNC_01)
ENDSTRUCT

/* short messages */

/* envelope command MO SMS */
SHORT L_ENV_CMD_SMS 27
BEGINARRAY_PART(D_ENV_CMD_SMS, L_ENV_CMD_SMS)
        0xD5, 0x19, 0x82, 0x02, 0x82, 0x81, 0x86, 0x04, 0x81, 0x21, 0x43, 0xf5, 0x86,
        0x04, 0x81, 0x56, 0x34, 0x12, 0x93, 0x07, 0x62, 0xf2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_SMS)
```

```
                SET_COMP ("l_cmd",              L_ENV_CMD_SMS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_SMS)
ENDSTRUCT

/* envelope command MO SMS */
SHORT L_ENV_CMD_SMS2 29
BEGINARRAY_PART(D_ENV_CMD_SMS2, L_ENV_CMD_SMS2)
        0xD5, 0x1B, 0x82, 0x02, 0x82, 0x81,
        0x86, 0x06, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04,
        0x86, 0x04, 0x81, 0x56, 0x34, 0x12,
        0x93, 0x07, 0x62, 0xf2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_SMS2)
                SET_COMP ("l_cmd",              L_ENV_CMD_SMS2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_SMS2)
ENDSTRUCT

/* envelope command MO SMS */
SHORT L_ENV_CMD_SMS3 26
BEGINARRAY_PART(D_ENV_CMD_SMS3, L_ENV_CMD_SMS3)
        0xD5, 0x18, 0x82, 0x02, 0x82, 0x81,
        0x86, 0x06, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04,
        0x86, 0x01, 0x80,
        0x93, 0x07, 0x62, 0xf2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_SMS3)
                SET_COMP ("l_cmd",              L_ENV_CMD_SMS3*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_SMS3)
ENDSTRUCT

/* envelope command MO SMS initiated by SAT */
SHORT L_ENV_CMD_SMSSAT 34
BEGINARRAY_PART(D_ENV_CMD_SMSSAT, L_ENV_CMD_SMSSAT)
        0xD5, 0x20, 0x82, 0x02, 0x82, 0x81, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33,
        0x44, 0x55, 0x66, 0x77, 0xF8,  0x86, 0x06, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8, 0x93, 0x07, 0x62,
        0xf2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_SMSSAT)
                SET_COMP ("l_cmd",              L_ENV_CMD_SMSSAT*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_SMSSAT)
ENDSTRUCT

/* message: CBM */
BYTE LM_CBM_MSG_3 164
BEGINARRAY(M_CBM_MSG_3, (LM_CBM_MSG_3 + 1))
        0x5E, /* \136 */
        /*0x0D, 0x0A, /* \r\n */
        0x33, 0x30, 0x33, 0x31, 0x33, 0x32, 0x33, 0x33, 0x33, 0x34,
        0x33, 0x35, 0x33, 0x36, 0x33, 0x37, 0x33, 0x38, 0x33, 0x39,
        0x34, 0x31, 0x34, 0x32, 0x34, 0x33, 0x34, 0x34, 0x34, 0x35,
        0x34, 0x36, 0x34, 0x37, 0x34, 0x38, 0x34, 0x39, 0x34, 0x41,
        0x34, 0x42, 0x34, 0x43, 0x34, 0x44, 0x34, 0x45, 0x34, 0x46,
```

```
            0x35, 0x30, 0x35, 0x31, 0x35, 0x32, 0x35, 0x33, 0x35, 0x34,
            0x35, 0x35, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
            0x32, 0x30
```

```
SHORT L_SAT_CMD_SEV_2 16
BEGINARRAY_PART (D_SAT_CMD_SEV_2, L_SAT_CMD_SEV_2)
        0xD0, 0x0E, 0x81, 0x03, 0x13, 0x05, 0x00, 0x82, 0x02, 0x81, 0x82, 0x99, 0x03, 0x08, 0x09, 0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SEV_2)
        SET_COMP ("l_cmd",      L_SAT_CMD_SEV_2*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_CMD_SEV_2)
ENDSTRUCT


/* EF ECC field array */
BEGINARRAY (A_ECC_FIELD,12) 0x11, 0xF2, 0xFF, 0x99, 0xF9, 0xFF, 0x21, 0x43, 0x65, 0xFF, 0xFF, 0xFF ENDARRAY

/* calling number array */
BEGINARRAY (A_CLG_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x2, 0x2, 0x3 ENDARRAY
BYTE LA_CLG_NUM 11

/* 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 number SS array */
BEGINARRAY_PART (A_CLD_NUM_SS, 5) 0xA, 0xB, 0x6, 0x1, 0xB ENDARRAY
BYTE LA_CLD_NUM_SS 5

/* called number modified array */
BEGINARRAY_PART (A_CLD_NUM_MDFY,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x2, 0x2, 0x3 ENDARRAY
BYTE LA_CLD_NUM_MDFY 11

/* called subaddress modified array */
BEGINARRAY_PART (A_CLD_SUB_MDFY,7) 0x1, 0x2, 0x3, 0x4, 0x5, 0x6, 0x7 ENDARRAY
BYTE LA_CLD_SUB_MDFY 7

/* 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

/* international called number array */
BEGINARRAY_PART (A_CLD_NUM_INT2,6) 0x4, 0x9, 0x1, 0x1, 0x9, 0x1 ENDARRAY
BYTE LA_CLD_NUM_INT2 6

/* international called number array */
BEGINARRAY_PART (A_CLD_NUM_INT3,6) 0x4, 0x9, 0x8, 0x9, 0x9, 0x4, 0x5, 0x7, 0x8, 0x5, 0x6, 0x3 ENDARRAY
BYTE LA_CLD_NUM_INT3 12

/* international called number array */
BEGINARRAY_PART (A_CLD_NUM_ECC, 3) 0x1, 0x1, 0x2 ENDARRAY
BYTE LA_CLD_NUM_ECC 3
```

```
/*
0x0C, 0x80      serial number
0x00, 0x32      message identifier
0x01            data coding scheme
0x11            page
030             content, length 93, the
                rest CBM is filled up with
                0x20, 7 bit alphabet
*/
BEGINARRAY(CBCH_MSG_1, CBCH_MSG_LEN)
        0x0C, 0x80,
        0x00, 0x32,
        0x01,
        0x11,
        0xB0, 0x19, 0x0C,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
        0x04, 0x02
ENDARRAY

/*
0x00, 0x00      serial number
0x00, 0x19      message identifier
0x01            data coding scheme
0x11            page
Racal           content, length 93, the
Instruments     rest CBM is filled up with
6103 for all    0x0D, 7 bit alphabet
your GSM
testing
requirements.
*/
BEGINARRAY(CBCH_MSG_2, CBCH_MSG_LEN)
        0x00, 0x00,
        0x00, 0x19,
        0x01,
        0x11,
        0xD2, 0xF0, 0x38, 0xCC, 0x06, 0x25, 0xDD, 0x73, 0xBA, 0xBC,
        0xDE, 0x2E, 0xBB, 0xE9, 0x73, 0x90, 0x2D, 0x06, 0x9B, 0x81,
        0xCC, 0x6F, 0x39, 0x28, 0xCC, 0x66, 0x83, 0xF2, 0xEF, 0xBA,
        0x1C, 0x74, 0x9C, 0x36, 0x41, 0xF4, 0xF2, 0x9C, 0x9E, 0x76,
        0x9F, 0x41, 0xF2, 0x72, 0xBC, 0x9E, 0x96, 0x97, 0xDB, 0x65,
        0x37, 0x7D, 0xEE, 0x6A, 0x34, 0x1A, 0x8D, 0x46, 0xA3, 0xD1,
        0x68, 0x34, 0x1A, 0x8D, 0x46, 0xA3, 0xD1, 0x68, 0x34, 0x1A,
        0x8D, 0x46, 0xA3, 0xD1, 0x68, 0x34, 0x1A, 0x8D, 0x46, 0xA3,
```

```
        0xD1, 0x00
ENDARRAY

/*
0x01, 0x23      serial number
0x10, 0x01      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_3, CBCH_MSG_LEN)
        0x01, 0x23,
        0x10, 0x01,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY

/*
0x01, 0x24      serial number
0x10, 0x01      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_3b, CBCH_MSG_LEN)
        0x01, 0x24,
        0x10, 0x01,
        0x11,
```

```
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY

/*
0x01, 0x24      serial number
0x10, 0x02      message identifier
0xF4            data coding scheme
0x17            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_4, CBCH_MSG_LEN)
        0x01, 0x24,
        0x10, 0x02,
        0x11,
        0x17,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
```

0x01, 0x24	serial number
0x10, 0x02	message identifier
0xF4	data coding scheme
0x27	page
0123456789	content, length 31, the
ABCDEFGHI	rest CBM is filled up with
JKLMNOPQR	0x20, 8 bit alphabet
STU	

```
*/
BEGINARRAY(CBCH_MSG_4b, CBCH_MSG_LEN)
        0x01, 0x24,
        0x10, 0x02,
        0x11,
        0x27,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
```

```
/*
0x01, 0x24      serial number
0x10, 0x03      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_5, CBCH_MSG_LEN)
        0x01, 0x24,
        0x10, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY

/*
0x01, 0x24      serial number
0x11, 0x03      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_6, CBCH_MSG_LEN)
        0x01, 0x24,
        0x11, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
```

```
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
0x01, 0x24      serial number
0x12, 0x03      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_7, CBCH_MSG_LEN)
        0x01, 0x24,
        0x12, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
0x01, 0x24      serial number
0x13, 0x03      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_8, CBCH_MSG_LEN)
        0x01, 0x24,
        0x13, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY

/*
0x01, 0x24      serial number
0x14, 0x03      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
```

```
BEGINARRAY(CBCH_MSG_9, CBCH_MSG_LEN)
        0x01, 0x24,
        0x14, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
```

0x01, 0x24	serial number
0x15, 0x03	message identifier
0xF4	data coding scheme
0x47	page
0123456789	content, length 31, the
ABCDEFGHI	rest CBM is filled up with
JKLMNOPQR	0x20, 8 bit alphabet
STU	

```
*/
BEGINARRAY(CBCH_MSG_10, CBCH_MSG_LEN)
        0x01, 0x24,
        0x15, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
0x01, 0x24      serial number
0x10, 0x13      message identifier
0xF4            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_11, CBCH_MSG_LEN)
        0x01, 0x24,
        0x10, 0x13,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
```

```
/*
0x01, 0x25      serial number
0x10, 0x13      message identifier
0xF4            data coding scheme
0x17            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_11b, CBCH_MSG_LEN)
        0x01, 0x25,
        0x10, 0x13,
        0x11,
        0x17,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY


/*
0x01, 0x25      serial number
0x10, 0x13      message identifier
0xF4            data coding scheme
0x27            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up with
JKLMNOPQR       0x20, 8 bit alphabet
STU
*/
BEGINARRAY(CBCH_MSG_11c, CBCH_MSG_LEN)
        0x01, 0x25,
        0x10, 0x13,
        0x11,
        0x27,
        0x30, 0x31, 0x32, 0x33,
```

```
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY

/*---------------------------------------- STK commands ---------------------------------------- */

/* envelope created if the former message CBCH_MSG_3 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_3 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_3, L_ENV_CBCH_MSG_3)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                   length*/
        0x83,/*                   source:NTW*/
        0x81,/*                   destination: SIM*/
        0x8C,/* 47 !!??                                          CB Page: page tag*/
        0x58,/*         length*/
        0x01, 0x23,
        0x10, 0x01,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_3)
            SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_3*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_ENV_CBCH_MSG_3)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_3b is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_3b 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_3b, L_ENV_CBCH_MSG_3b)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,/* 47 !!??                                    CB Page: page tag*/
        0x58,/*     length*/
        0x01, 0x24,
        0x10, 0x01,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_3b)
            SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_3b*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_ENV_CBCH_MSG_3b)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_4 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_4 96
```

```
BEGINARRAY_PART(D_ENV_CBCH_MSG_4, L_ENV_CBCH_MSG_4)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                 length*/
        0x83,/*                 source:NTW*/
        0x81,/*                 destination: SIM*/
        0x8C,
        0x58,/*         length*/
        0x01, 0x24,
        0x10, 0x02,
        0x11,
        0x17, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_4)
                SET_COMP ("l_cmd",              L_ENV_CBCH_MSG_4*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CBCH_MSG_4)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_4b is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_4b 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_4b, L_ENV_CBCH_MSG_4b)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                 length*/
        0x83,/*                 source:NTW*/
        0x81,/*                 destination: SIM*/
        0x8C,
        0x58,/*         length*/
        0x01, 0x24,
        0x10, 0x02,
        0x11,
        0x27, /* CB Page: page tag*/
```

```
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_4b)
        SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_4b*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CBCH_MSG_4b)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_5 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_5 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_5, L_ENV_CBCH_MSG_5)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x24,
        0x10, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_5)
                SET_COMP ("l_cmd",              L_ENV_CBCH_MSG_5*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CBCH_MSG_5)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_6 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_6 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_6, L_ENV_CBCH_MSG_6)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                 length*/
        0x83,/*                 source:NTW*/
        0x81,/*                 destination: SIM*/
        0x8C,
        0x58,/*         length*/
        0x01, 0x24,
        0x11, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_6)
                SET_COMP ("l_cmd",              L_ENV_CBCH_MSG_6*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CBCH_MSG_6)
```

```
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_7 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_7 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_7, L_ENV_CBCH_MSG_7)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x24,
        0x12, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_7)
            SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_7*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_ENV_CBCH_MSG_7)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_8 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_8 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_8, L_ENV_CBCH_MSG_8)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,
        0x58,/*     length*/
```

```
        0x01, 0x24,
        0x13, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_8)
        SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_8*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CBCH_MSG_8)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_9 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_9 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_9, L_ENV_CBCH_MSG_9)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x24,
        0x14, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
```

```
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_9)
        SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_9*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CBCH_MSG_9)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_10 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_10 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_10, L_ENV_CBCH_MSG_10)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*             length*/
        0x83,/*             source:NTW*/
        0x81,/*             destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x24,
        0x15, 0x03,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_10)
                SET_COMP ("l_cmd",              L_ENV_CBCH_MSG_10*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CBCH_MSG_10)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_11 is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_11 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_11, L_ENV_CBCH_MSG_11)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                 length*/
        0x83,/*                 source:NTW*/
        0x81,/*                 destination: SIM*/
        0x8C,
        0x58,/*         length*/
        0x01, 0x24,
        0x10, 0x13,
        0x11,
        0x47, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_11)
                SET_COMP ("l_cmd",              L_ENV_CBCH_MSG_11*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CBCH_MSG_11)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_11b is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_11b 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_11b, L_ENV_CBCH_MSG_11b)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*                 length*/
```

```
        0x83,/*         source:NTW*/
        0x81,/*         destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x25,
        0x10, 0x13,
        0x11,
        0x17, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_11b)
        SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_11b*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CBCH_MSG_11b)
ENDSTRUCT

/* envelope created if the former message CBCH_MSG_11c is to be forwarded to SIM */
SHORT L_ENV_CBCH_MSG_11c 96
BEGINARRAY_PART(D_ENV_CBCH_MSG_11c, L_ENV_CBCH_MSG_11c)
        0xD2,/* CB data dwn Tag */
        0x5E,/* Lengthes of what follows */
        0x82,/*Device Identities: Tag: ME*/
        0x02,/*         length*/
        0x83,/*         source:NTW*/
        0x81,/*         destination: SIM*/
        0x8C,
        0x58,/*     length*/
        0x01, 0x25,
        0x10, 0x13,
        0x11,
        0x27, /* CB Page: page tag*/
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
```

```
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CBCH_MSG_11c)
        SET_COMP ("l_cmd",          L_ENV_CBCH_MSG_11c*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CBCH_MSG_11c)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_VOICE 24
BEGINARRAY_PART (D_ENV_CMD_CC_VOICE, L_ENV_CMD_CC_VOICE) 0xD4, 0x16, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07, 0x81,
        0x30, 0x30, 0x09, 0x49, 0x44, 0xF4, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_VOICE)
        SET_COMP ("l_cmd",          L_ENV_CMD_CC_VOICE*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CMD_CC_VOICE)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSY 24
BEGINARRAY_PART (D_ENV_CMD_CC_NBSY, L_ENV_CMD_CC_NBSY) 0xD4, 0x16, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07, 0x91,
        0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSY)
        SET_COMP ("l_cmd",          L_ENV_CMD_CC_NBSY*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CMD_CC_NBSY)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSY3 31
BEGINARRAY_PART (D_ENV_CMD_CC_NBSY3, L_ENV_CMD_CC_NBSY3) 0xD4, 0x1D, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07,
        0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x08, 0x05, 0x90, 0x95, 0x95, 0x95, 0x95, 0x13, 0x07, 0x62, 0xF2, 0x10,
        0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSY3)
        SET_COMP ("l_cmd",          L_ENV_CMD_CC_NBSY3*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_CMD_CC_NBSY3)
ENDSTRUCT
```

```
/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSY7 24
BEGINARRAY_PART (D_ENV_CMD_CC_NBSY7, L_ENV_CMD_CC_NBSY7) 0xD4, 0x16, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07,
        0x91, 0x94, 0x98, 0x49, 0x75, 0x58, 0x36, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSY7)
        SET_COMP ("l_cmd",      L_ENV_CMD_CC_NBSY7*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_CMD_CC_NBSY7)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSY10 31
BEGINARRAY_PART (D_ENV_CMD_CC_NBSY10, L_ENV_CMD_CC_NBSY10) 0xD4, 0x1D, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07,
        0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x08, 0x05, 0x90, 0x95, 0x95, 0x95, 0x95, 0x13, 0x07, 0x62, 0xF2, 0x10,
        0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSY10)
        SET_COMP ("l_cmd",      L_ENV_CMD_CC_NBSY10*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_CMD_CC_NBSY10)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSYRD 24
BEGINARRAY_PART (D_ENV_CMD_CC_NBSYRD, L_ENV_CMD_CC_NBSYRD) 0xD4, 0x16, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07,
        0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSYRD)
        SET_COMP ("l_cmd",      L_ENV_CMD_CC_NBSYRD*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_CMD_CC_NBSYRD)
ENDSTRUCT

/* envelope command voice call */
SHORT L_ENV_CMD_CC_NBSYRD_1 28
BEGINARRAY_PART (D_ENV_CMD_CC_NBSYRD_1, L_ENV_CMD_CC_NBSYRD_1) 0xD4, 0x1A, 0x82, 0x02, 0x82, 0x81, 0x86,
        0x0B, 0x91, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00,
        0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_NBSYRD_1)
        SET_COMP ("l_cmd",      L_ENV_CMD_CC_NBSYRD_1*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_CMD_CC_NBSYRD_1)
ENDSTRUCT


/* envelope command voice call with subaddress */
SHORT L_ENV_CMD_CC_VOICE_SUB 31
BEGINARRAY_PART (D_ENV_CMD_CC_VOICE_SUB, L_ENV_CMD_CC_VOICE_SUB)
        0xD4, 0x1D, 0x82, 0x02, 0x82, 0x81, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21,
        0x43, 0x65, 0xF7, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_CC_VOICE_SUB)
        SET_COMP ("l_cmd",      L_ENV_CMD_CC_VOICE_SUB*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_CC_VOICE_SUB)
ENDSTRUCT

/* envelope result no modification */
SHORT L_ENV_RES_CC_NO_MDFY 2
BEGINARRAY_PART (D_ENV_RES_CC_NO_MDFY, L_ENV_RES_CC_NO_MDFY)
                0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_NO_MDFY)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_NO_MDFY*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_NO_MDFY)
ENDSTRUCT

/* envelope result no modification but useless parameters are in enveloppe though */
SHORT L_ENV_RES_CC_NO_MDFY_PRMS 16
BEGINARRAY_PART (D_ENV_RES_CC_NO_MDFY_PRMS, L_ENV_RES_CC_NO_MDFY_PRMS)
                0x00, 0x0e,0x86, 0x04, 0x28, 0x10, 0x91, 0xf1, 0x87, 0x00, 0x88, 0x04, 0x28, 0x10, 0x91, 0xf1
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_NO_MDFY_PRMS)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_NO_MDFY_PRMS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_NO_MDFY_PRMS)
ENDSTRUCT

/* envelope result with modification of call */
SHORT L_ENV_RES_CC_MDFY_CAL 31
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_CAL, L_ENV_RES_CC_MDFY_CAL)
                0x02, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x05,
                0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_CAL)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_MDFY_CAL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_MDFY_CAL)
ENDSTRUCT

/* envelope result with modification of call to emergency */
SHORT L_ENV_RES_CC_MDFY_ECC 20
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_ECC, L_ENV_RES_CC_MDFY_ECC)
                0x02, 0x12, 0x86, 0x03, 0x81, 0x11, 0xF2, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52,
                0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_ECC)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_MDFY_ECC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_MDFY_ECC)
ENDSTRUCT

SHORT L_ENV_RES_CC_MDFY_SCA_DA 34
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_SCA_DA, L_ENV_RES_CC_MDFY_SCA_DA)
                0x02, 0x21, 0x86, 0x08, 0x81, 0x21, 0x43, 0x54, 0x87, 0x99, 0x78, 0x56, 0x86, 0x08, 0x81, 0x21, 0x43, 0x54, 0x87,
                0x99, 0x78, 0x56,
                0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_SCA_DA)
        SET_COMP ("l_cmd",      L_ENV_RES_CC_MDFY_SCA_DA*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_RES_CC_MDFY_SCA_DA)
ENDSTRUCT

/* envelope result with modification of SS*/
SHORT L_ENV_RES_CC_MDFY_SS 23
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_SS, L_ENV_RES_CC_MDFY_SS)
        0x02, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
        0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_SS)
        SET_COMP ("l_cmd",      L_ENV_RES_CC_MDFY_SS*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_RES_CC_MDFY_SS)
ENDSTRUCT

/* envelope result with modification of SS*/
SHORT L_ENV_RES_CC_MDFY_SS_B 10
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_SS_B, L_ENV_RES_CC_MDFY_SS_B)
        0x02, 0x08, 0x89, 0x04, 0xFF, 0xBA, 0x16, 0xFB, 0x87, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_SS_B)
        SET_COMP ("l_cmd",      L_ENV_RES_CC_MDFY_SS_B*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_RES_CC_MDFY_SS_B)
ENDSTRUCT

/* envelope result with modification of SS to CF*/
SHORT L_ENV_RES_CC_MDFY_SS_CF 23
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_SS_CF, L_ENV_RES_CC_MDFY_SS_CF)
        0x02, 0x15, 0x89, 0x06, 0x81, 0x0A, 0x20, 0xAA, 0x22, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
        0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_SS_CF)
        SET_COMP ("l_cmd",      L_ENV_RES_CC_MDFY_SS_CF*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_RES_CC_MDFY_SS_CF)
ENDSTRUCT

/* envelope result with modification of SS to a unknown string */
SHORT L_ENV_RES_CC_MDFY_SS_UNKNOWN 23
BEGINARRAY_PART (D_ENV_RES_CC_MDFY_SS_UNKNOWN, L_ENV_RES_CC_MDFY_SS_UNKNOWN)
        0x02, 0x15, 0x89, 0x06, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57,
        0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_MDFY_SS_UNKNOWN)
        SET_COMP ("l_cmd",      L_ENV_RES_CC_MDFY_SS_UNKNOWN*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_ENV_RES_CC_MDFY_SS_UNKNOWN)
ENDSTRUCT

/* envelope result not allowed */
SHORT L_ENV_RES_CC_NOT_ALLW 15
BEGINARRAY_PART (D_ENV_RES_CC_NOT_ALLW, L_ENV_RES_CC_NOT_ALLW)
```

```
                0x01, 0x0D, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_NOT_ALLW)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_NOT_ALLW*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_NOT_ALLW)
ENDSTRUCT

SHORT L_ENV_RES_CC_NOT_ALLW_CR 15
BEGINARRAY_PART (D_ENV_RES_CC_NOT_ALLW_CR, L_ENV_RES_CC_NOT_ALLW_CR)
                0x01, 0x0D, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_NOT_ALLW_CR)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_NOT_ALLW_CR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_NOT_ALLW_CR)
ENDSTRUCT

SHORT L_ENV_RES_CC_NOT_ALLW_EMPTY 2
BEGINARRAY_PART (D_ENV_RES_CC_NOT_ALLW_EMPTY, L_ENV_RES_CC_NOT_ALLW_EMPTY)
                0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_NOT_ALLW_EMPTY)
                SET_COMP ("l_cmd",              L_ENV_RES_CC_NOT_ALLW_EMPTY*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_CC_NOT_ALLW_EMPTY)
ENDSTRUCT

/* envelope result empty */
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_CC_EMPTY)
                SET_COMP ("l_cmd",              NUM_0000)
                SET_COMP ("o_cmd",              NUM_0000)
                SKIP_COMP ("cmd")
ENDSTRUCT

/* envelope command SS control string */
SHORT L_ENV_CMD_SS 30
BEGINARRAY_PART (D_ENV_CMD_SS, L_ENV_CMD_SS)
                0xD4, 0x1C, 0x82, 0x02, 0x82, 0x81, 0x89, 0x0D, 0xFF, 0xAA, 0x30, 0x3A, 0x03, 0x1A, 0x32, 0xA4, 0x89, 0x67,
                0x9A, 0x78, 0xB6, 0x13, 0x07, 0x62, 0xF2, 0x10, 0x01, 0x00, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_SS)
                SET_COMP ("l_cmd",              L_ENV_CMD_SS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_SS)
ENDSTRUCT

/* envelope result no modification */
SHORT L_ENV_RES_SS_NO_MDFY 2
BEGINARRAY_PART (D_ENV_RES_SS_NO_MDFY, L_ENV_RES_SS_NO_MDFY)
                0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_SS_NO_MDFY)
                SET_COMP ("l_cmd",              L_ENV_RES_SS_NO_MDFY*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_SS_NO_MDFY)
```

```
ENDSTRUCT

/* envelope result with modification of SS*/
SHORT L_ENV_RES_SS_MDFY_SS 23
BEGINARRAY_PART (D_ENV_RES_SS_MDFY_SS, L_ENV_RES_SS_MDFY_SS)
        0x02, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
        0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_SS_MDFY_SS)
        SET_COMP ("l_cmd",          L_ENV_RES_SS_MDFY_SS*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_RES_SS_MDFY_SS)
ENDSTRUCT

/* envelope result not allowed */
SHORT L_ENV_RES_SS_NOT_ALLW 15
BEGINARRAY (D_ENV_RES_SS_NOT_ALLW, L_ENV_RES_SS_NOT_ALLW)
        0x01, 0x0D, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_SS_NOT_ALLW)
        SET_COMP ("l_cmd",          L_ENV_RES_SS_NOT_ALLW*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_RES_SS_NOT_ALLW)
ENDSTRUCT

/* envelope result with modification of call */
SHORT L_ENV_RES_SS_MDFY_CAL 31
BEGINARRAY_PART (D_ENV_RES_SS_MDFY_CAL, L_ENV_RES_SS_MDFY_CAL)
        0x02, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x85,
        0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_SS_MDFY_CAL)
        SET_COMP ("l_cmd",          L_ENV_RES_SS_MDFY_CAL*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_RES_SS_MDFY_CAL)
ENDSTRUCT

/* envelope result with modification of call with DTMF */
SHORT L_ENV_RES_SS_MDFY_CAL_DTMF 35
BEGINARRAY_PART (D_ENV_RES_SS_MDFY_CAL_DTMF, L_ENV_RES_SS_MDFY_CAL_DTMF)
        0x02, 0x21, 0x86, 0x0B, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xC3, 0x90, 0xAC, 0xCB, 0x76, 0x88, 0x05, 0x88,
        0x21, 0x43, 0x65, 0xF7, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_SS_MDFY_CAL_DTMF)
        SET_COMP ("l_cmd",          L_ENV_RES_SS_MDFY_CAL_DTMF*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_ENV_RES_SS_MDFY_CAL_DTMF)
ENDSTRUCT

/* envelope command user 1 */
SHORT L_ENV_CMD_USER_1 15
BEGINARRAY_PART (D_ENV_CMD_USER_1, L_ENV_CMD_USER_1)
        0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_CMD_USER_1)
        SET_COMP ("l_cmd",          L_ENV_CMD_USER_1*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_CMD_USER_1)
ENDSTRUCT

/* envelope result user 1 */
SHORT L_ENV_RES_USER_1 15
BEGINARRAY_PART (D_ENV_RES_USER_1, L_ENV_RES_USER_1)
                0x09, 0x87, 0x65, 0x43, 0x21, 0x09, 0x87, 0x65, 0x43, 0x21, 0x09, 0x87, 0x65, 0x43, 0x21
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", ENV_RES_USER_1)
                SET_COMP ("l_cmd",              L_ENV_RES_USER_1*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_ENV_RES_USER_1)
ENDSTRUCT

/* SAT command provide local information with date-time and time zone */
SHORT L_SAT_PLOI_DTT 11
BEGINARRAY_PART (D_SAT_PLOI_DTT, L_SAT_PLOI_DTT)
                0xD0, 0x09, 0x81, 0x03, 0x01, 0x26, 0x03, 0x82, 0x02, 0x81, 0x82
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_PLOI_DTT)
                SET_COMP ("l_cmd",              L_SAT_PLOI_DTT*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_PLOI_DTT)
ENDSTRUCT

/* SAT command run at command: AT+CSNS=5 */
SHORT L_SAT_RUN_AT_CSNS 23
BEGINARRAY_PART (D_SAT_RUN_AT_CSNS, L_SAT_RUN_AT_CSNS)
                0xD0, 0x15, 0x81, 0x03, 0x01, 0x34, 0x00, 0x82, 0x02, 0x81, 0x82, 0xA8, 0x0A, 0x41, 0x54, 0x2B, 0x43, 0x53, 0x4E,
                0x53, 0x3D, 0x35, 0x0D
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RUN_AT_CSNS)
                SET_COMP ("l_cmd",              L_SAT_RUN_AT_CSNS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RUN_AT_CSNS)
ENDSTRUCT

/* SAT command run at command: AT+COPS? */
SHORT L_SAT_RUN_AT_COPS 22
BEGINARRAY_PART (D_SAT_RUN_AT_COPS, L_SAT_RUN_AT_COPS)
                0xD0, 0x15, 0x81, 0x03, 0x01, 0x34, 0x00, 0x82, 0x02, 0x81, 0x82, 0xA8, 0x0A, 0x41, 0x54, 0x2B, 0x43, 0x4F, 0x50,
                0x53, 0x3F, 0x0D
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RUN_AT_COPS)
                SET_COMP ("l_cmd",              L_SAT_RUN_AT_COPS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RUN_AT_COPS)
ENDSTRUCT

/* SAT command send USSD */
SHORT L_SAT_CMD_USSD 32
BEGINARRAY_PART (D_SAT_CMD_USSD, L_SAT_CMD_USSD)
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x8A, 0x06, 0xF4, 0x41, 0x42, 0x43, 0x44, 0x45
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_USSD)
                SET_COMP ("l_cmd",              L_SAT_CMD_USSD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_USSD)
ENDSTRUCT

/* SAT command send DTMF */
SHORT L_SAT_CMD_DTMF 29
BEGINARRAY_PART (D_SAT_CMD_DTMF, L_SAT_CMD_DTMF)
                0xD0, 0x1B, 0x81, 0x03, 0x01, 0x14, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0xAC, 0x03, 0x21, 0x43, 0xF5
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_DTMF)
                SET_COMP ("l_cmd",              L_SAT_CMD_DTMF*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_DTMF)
ENDSTRUCT

/* SAT command Get Channel Status */
SHORT L_SAT_CMD_GETCS 11
BEGINARRAY_PART (D_SAT_CMD_GETCS, L_SAT_CMD_GETCS)
                0xD0, 0x09, 0x81, 0x03, 0x01, 0x44, 0x00, 0x82, 0x02, 0x81, 0x82
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_GETCS)
                SET_COMP ("l_cmd",              L_SAT_CMD_GETCS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_GETCS)
ENDSTRUCT

/* SAT command Receive Data */
SHORT L_SAT_CMD_RCVD 31
BEGINARRAY_PART (D_SAT_CMD_RCVD , L_SAT_CMD_RCVD )
                0xD0, 0x1D, 0x81, 0x03, 0x01, 0x42, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB7, 0x01, 0xFF
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_RCVD )
                SET_COMP ("l_cmd",              L_SAT_CMD_RCVD *8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_RCVD )
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, UDP, immediate:

        - address:      030 39094444
        - dur1:         60 sec
        - dur2:         10 sec
        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1000
        - oth addr:     Ipv4 9.8.7.6
        - login:        8bit, SAT-USER
        - pwd:          8bit, SAT-PWD
        - tpl:          UDP, port 0001
        - dest addr:    Ipv4 1.2.3.4                    */
SHORT L_SAT_CMD_OPCH_CSD_A 95
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_A, L_SAT_CMD_OPCH_CSD_A)
                0xD0, 0x5D,
```

```
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x01, 0xB9, 0x02, 0x03, 0xE8, 0x3E, 0x05, 0x21, 0x09, 0x08, 0x07, 0x06,
                0x0D, 0x09, 0x04, 0x53, 0x40, 0x54, 0x2D, 0x55, 0x53, 0x45, 0x52, 0x0D, 0x08, 0x04, 0x53,
                0x40, 0x54, 0x2D, 0x50, 0x57, 0x44, 0x3C, 0x03, 0x01, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01,
                0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_A)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_A*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_A)
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, transparent, immediate

        - address:      030 39094444
        - dur1:         60 sec
        - dur2:         10 sec
        - bearer:       speed 9600 V110, name async, ce transparent
        - buffer size:  1000                */
SHORT L_SAT_CMD_OPCH_CSD_B 55
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_B, L_SAT_CMD_OPCH_CSD_B)
                0xD0, 0x35,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x00, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_B)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_B*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_B)
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, non-transparent, immediate

        - address:      030 39094444
        - dur1:         60 sec, redial
        - dur2:         10 sec
        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1000                */
SHORT L_SAT_CMD_OPCH_CSD_C 55
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_C, L_SAT_CMD_OPCH_CSD_C)
                0xD0, 0x35,
                0x81, 0x03, 0x01, 0x40, 0x03, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x01, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_C)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_C*8)
                SET_COMP ("o_cmd",              NUM_0000)
```

```
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_C)
ENDSTRUCT

/* SAT command Open Channel, CSD, default, immediate

        -   address:    030 39094444
        -   bearer:     default (speed 9600 V32, name async, ce non-transparent)
        -   buffer size: 1000                */
SHORT L_SAT_CMD_OPCH_CSD_D 44
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_D, L_SAT_CMD_OPCH_CSD_D)
                0xD0, 0x2A,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0xB5, 0x01, 0x03, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_D)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_D*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_D)
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, UDP, on demand:

        -   address:    030 39094444
        -   dur1:       60 sec
        -   dur2:       10 sec
        -   bearer:     speed 9600 V110, name async, ce non-transparent
        -   buffer size: 1000
        -   oth addr:   Ipv4 9.8.7.6
        -   login:      8bit, SAT-USER
        -   pwd:        8bit, SAT-PWD
        -   tpl:        UDP, port 0001
        -   dest addr:  Ipv4 1.2.3.4                */
SHORT L_SAT_CMD_OPCH_CSD_E 95
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_E, L_SAT_CMD_OPCH_CSD_E)
                0xD0, 0x5D,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x01, 0xB9, 0x02, 0x03, 0xE8, 0x3E, 0x05, 0x21, 0x09, 0x08, 0x07, 0x06,
                0x0D, 0x09, 0x04, 0x53, 0x40, 0x54, 0x2D, 0x55, 0x53, 0x45, 0x52, 0x0D, 0x08, 0x04, 0x53,
                0x40, 0x54, 0x2D, 0x50, 0x57, 0x44, 0x3C, 0x03, 0x01, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01,
                0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_E)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_E*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_E)
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, transparent, on demand

        -   address:    030 39094444
        -   dur1:       60 sec
```

```
        -   dur2:       10 sec
        -   bearer:     speed 9600 V110, name async, ce transparent
        -   buffer size: 1000                */
SHORT L_SAT_CMD_OPCH_CSD_F 55
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_F, L_SAT_CMD_OPCH_CSD_F)
                0xD0, 0x35,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x00, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_F)
                SET_COMP ("l_cmd",          L_SAT_CMD_OPCH_CSD_F*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_CMD_OPCH_CSD_F)
ENDSTRUCT

/* SAT command Open Channel, CSD, full par set, non-transparent, on demand

        -   address:    030 39094444
        -   dur1:       60 sec
        -   dur2:       10 sec
        -   bearer:     speed 9600 V110, name async, ce non-transparent
        -   buffer size: 1000                */
SHORT L_SAT_CMD_OPCH_CSD_G 55
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_G, L_SAT_CMD_OPCH_CSD_G)
                0xD0, 0x35,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x01, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_G)
                SET_COMP ("l_cmd",          L_SAT_CMD_OPCH_CSD_G*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_CMD_OPCH_CSD_G)
ENDSTRUCT

/* SAT command Open Channel, CSD, default, on demand

        -   address:    030 39094444
        -   dur1:       60 sec
        -   dur2:       10 sec
        -   bearer:     default (speed 9600 V32, name async, ce non-transparent)
        -   buffer size: 1000                */
SHORT L_SAT_CMD_OPCH_CSD_H 52
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_H, L_SAT_CMD_OPCH_CSD_H)
                0xD0, 0x32,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x01,
                0x03, 0xB9, 0x02, 0x03, 0xE8

ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_H)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_H*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_H)
ENDSTRUCT

/* SAT command Open Channel, CSD, illegal parameters, immediate:

        -   address:    030 39094444
        -   dur1:       60 sec
        -   dur2:       10 sec
        -   bearer:     speed 9600 V110, name async, ce non-transparent
        -   buffer size: 2000
        -   oth addr:   Ipv6 9.8.7.6.5.4.3.2.9.8.7.6.5.4.3.2
        -   login:      8bit, SAT-USER
        -   pwd:        8bit, SAT-PWD
        -   tpl:        TCP, port 0001
        -   dest addr:  Ipv4 1.2.3.4                */
SHORT L_SAT_CMD_OPCH_CSD_I 107
BEGINARRAY_PART (D_SAT_CMD_OPCH_CSD_I, L_SAT_CMD_OPCH_CSD_I)
                0xD0, 0x69,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0x06, 0x07, 0x81, 0x30,
                0x30, 0x09, 0x49, 0x44, 0xF4, 0x04, 0x02, 0x01, 0x3C, 0x04, 0x02, 0x01, 0x0A, 0xB5, 0x04,
                0x01, 0x47, 0x00, 0x01, 0xB9, 0x02, 0x07, 0xD0, 0x3E, 0x11, 0x57, 0x09, 0x08, 0x07, 0x06,
                0x05, 0x04, 0x03, 0x02, 0x09, 0x08, 0x07, 0x06, 0x05, 0x04, 0x03, 0x02, 0x0D, 0x09, 0x04,
                0x53, 0x40, 0x54, 0x2D, 0x55, 0x53, 0x45, 0x52, 0x0D, 0x08, 0x04, 0x53, 0x40, 0x54, 0x2D,
                0x50, 0x57, 0x44, 0x3C, 0x03, 0x02, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01, 0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_CSD_I)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_CSD_I*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_CSD_I)
ENDSTRUCT

/* SAT command Open Channel, GPRS, full par set, UDP, immediate:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size: 1000
        -   APN:        gprs.d1-telecom.de
        -   oth addr:   Ipv4 9.8.7.6
        -   tpl:        UDP, port 0001
        -   dest addr:  Ipv4 1.2.3.4                */
SHORT L_SAT_CMD_OPCH_GPRS_J 81
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_J, L_SAT_CMD_OPCH_GPRS_J)
                0xD0, 0x4A,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x07, 0x02, 0x01,
                0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x03, 0xE8, 0x47, 0x13, 0x04, 0x67, 0x70, 0x72,
                0x73, 0x0A, 0x64, 0x31, 0x2D, 0x74, 0x65, 0x6C, 0x65, 0x63, 0x6F, 0x6D, 0x02, 0x64, 0x65,
                0x3E, 0x05, 0x21, 0x09, 0x08, 0x07, 0x06, 0x3C, 0x03, 0x01, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01, 0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_J)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_J*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_J)
ENDSTRUCT

/* SAT command Open Channel, GPRS, full par set, SNDCP, immediate:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size:    1000
        -   APN:        gprs.d1-telecom.de  */
SHORT L_SAT_CMD_OPCH_GPRS_K 62
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_K, L_SAT_CMD_OPCH_GPRS_K)
                0xD0, 0x3C,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x07, 0x02, 0x01,
                0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x03, 0xE8, 0x47, 0x13, 0x04, 0x67, 0x70, 0x72,
                0x73, 0x0A, 0x64, 0x31, 0x2D, 0x74, 0x65, 0x6C, 0x65, 0x63, 0x6F, 0x6D, 0x02, 0x64, 0x65

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_K)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_K*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_K)
ENDSTRUCT

/* SAT command Open Channel, GPRS, default parameter, immediate:

        -   bearer:     default (rel.class 0, delay 0, preced. 0, peak 0, mean 0, IP)
        -   buffer size:    1000                */
SHORT L_SAT_CMD_OPCH_GPRS_L 35
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_L, L_SAT_CMD_OPCH_GPRS_L)
                0xD0, 0x21,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x01, 0x03, 0xB9,
                0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_L)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_L*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_L)
ENDSTRUCT

/* SAT command Open Channel, GPRS, full par set, UDP, on-demand:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size:    1000
        -   APN:        gprs.d1-telecom.de
        -   oth addr:   dynamic
        -   tpl:        UDP, port 0001
        -   dest addr:  Ipv4 1.2.3.4                */
SHORT L_SAT_CMD_OPCH_GPRS_M 74
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_M, L_SAT_CMD_OPCH_GPRS_M)
                0xD0, 0x4A,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x07, 0x02, 0x01,
                0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x03, 0xE8, 0x47, 0x13, 0x04, 0x67, 0x70, 0x72,
```

```
                0x73, 0x0A, 0x64, 0x31, 0x2D, 0x74, 0x65, 0x6C, 0x65, 0x63, 0x6F, 0x6D, 0x02, 0x64, 0x65,
                0x3C, 0x03, 0x01, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01, 0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_M)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_M*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_M)
ENDSTRUCT

/* SAT command Open Channel, GPRS, full par set, SNDCP, on-demand:

        - bearer:       rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        - buffer size:  1000
        - APN:          gprs.d1-telecom.de  */
SHORT L_SAT_CMD_OPCH_GPRS_N 62
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_N, L_SAT_CMD_OPCH_GPRS_N)
                0xD0, 0x3C,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x07, 0x02, 0x01,
                0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x03, 0xE8, 0x47, 0x13, 0x04, 0x67, 0x70, 0x72,
                0x73, 0x0A, 0x64, 0x31, 0x2D, 0x74, 0x65, 0x6C, 0x65, 0x63, 0x6F, 0x6D, 0x02, 0x64, 0x65

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_N)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_N*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_N)
ENDSTRUCT

/* SAT command Open Channel, GPRS, default parameter, on-demand:

        - bearer:       default (rel.class 0, delay 0, preced. 0, peak 0, mean 0, IP)
        - buffer size:  1000                */
SHORT L_SAT_CMD_OPCH_GPRS_O 35
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_O, L_SAT_CMD_OPCH_GPRS_O)
                0xD0, 0x21,
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x01, 0x03, 0xB9,
                0x02, 0x03, 0xE8

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_O)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_O*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_O)
ENDSTRUCT

/* SAT command Open Channel, GPRS, illegal parameters:

        - bearer:       rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        - buffer size:  2000
        - oth addr:     Ipv6 9.8.7.6.5.4.3.2.9.8.7.6.5.4.3.2
        - tpl:          TCP, port 0001
        - dest addr:    Ipv4 1.2.3.4                */
SHORT L_SAT_CMD_OPCH_GPRS_P 72
```

```
BEGINARRAY_PART (D_SAT_CMD_OPCH_GPRS_P, L_SAT_CMD_OPCH_GPRS_P)
                0xD0, 0x46,
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05,0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB5, 0x07, 0x02, 0x01,
                0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x07, 0xD0, 0x3E, 0x11, 0x57, 0x09, 0x08, 0x07,
                0x06, 0x05, 0x04, 0x03, 0x02, 0x09, 0x08, 0x07, 0x06, 0x05, 0x04, 0x03, 0x02, 0x3C, 0x03,
                0x02, 0x00, 0x01, 0x3E, 0x05, 0x21, 0x01, 0x02, 0x03, 0x04

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_OPCH_GPRS_P)
                SET_COMP ("l_cmd",              L_SAT_CMD_OPCH_GPRS_P*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_OPCH_GPRS_P)
ENDSTRUCT

/* SAT command Send Data, immediate:

        -   channel data:  100 bytes of channel data                */
SHORT L_SAT_CMD_SND_DAT_IM 130
BEGINARRAY_PART (D_SAT_CMD_SND_DAT_IM, L_SAT_CMD_SND_DAT_IM)
                0xD0, 0x80,
                0x81, 0x03, 0x01, 0x43, 0x01, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB6, 0x64,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_SND_DAT_IM)
                SET_COMP ("l_cmd",              L_SAT_CMD_SND_DAT_IM*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SND_DAT_IM)
ENDSTRUCT

/* SAT command Send Data, on-demand:

        -   channel data:  100 bytes of channel data                */
SHORT L_SAT_CMD_SND_DAT_OD 130
BEGINARRAY_PART (D_SAT_CMD_SND_DAT_OD, L_SAT_CMD_SND_DAT_OD)
                0xD0, 0x80,
                0x81, 0x03, 0x01, 0x43, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01, 0xB6, 0x64,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
```

```
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
                0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_SND_DAT_OD)
                SET_COMP ("l_cmd",              L_SAT_CMD_SND_DAT_OD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SND_DAT_OD)
ENDSTRUCT

/* SAT command Close Channel:       */
SHORT L_SAT_CMD_CLCH 28
BEGINARRAY_PART (D_SAT_CMD_CLCH, L_SAT_CMD_CLCH)
                0xD0, 0x1A,
                0x81, 0x03, 0x01, 0x41, 0x00, 0x82, 0x02, 0x81, 0x21, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C,
                0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x1E, 0x02, 0x00, 0x01

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_CLCH)
                SET_COMP ("l_cmd",              L_SAT_CMD_CLCH*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CLCH)
ENDSTRUCT


/* SAT command send SS */
SHORT L_SAT_CMD_SS 32
BEGINARRAY_PART (D_SAT_CMD_SS, L_SAT_CMD_SS)
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS)
ENDSTRUCT

/* SAT command send SS unconditional call forwarding*/
SHORT L_SAT_CMD_SS_CFWRD 41
BEGINARRAY_PART (D_SAT_CMD_SS_CFWRD, L_SAT_CMD_SS_CFWRD)
0xD0, 0x27, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x0C, 0x43, 0x61, 0x6C, 0x6C, 0x20, 0x46, 0x6F , 0x72, 0x77, 0x61, 0x72, 0x64, 0x89, 0x0E, 0x91, 0xAA, 0x12, 0x0A, 0x21, 0x43, 0x65, 0x87, 0x09, 0x21, 0x43, 0x65, 0x87, 0xB9
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_CFWRD)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_CFWRD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_CFWRD)
ENDSTRUCT

/* SAT command send SS unconditional call forwarding*/
SHORT L_SAT_CMD_SS_CFWRD2 41
BEGINARRAY_PART (D_SAT_CMD_SS_CFWRD2, L_SAT_CMD_SS_CFWRD2)
0xD0, 0x27, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x0C, 0x43, 0x61, 0x6C, 0x6C, 0x20, 0x46, 0x6F , 0x72, 0x77, 0x61, 0x72, 0x64, 0x89, 0x0E, 0x91, 0xAA, 0x12, 0x0A, 0x21, 0x43, 0x65, 0x87, 0x09, 0x21, 0x43, 0x65, 0x87, 0xB9
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_CFWRD2)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_CFWRD2*8)
                SET_COMP ("o_cmd",              NUM_0000)
```

```
                SET_COMP ("cmd",                D_SAT_CMD_SS_CFWRD2)
ENDSTRUCT

/* SAT command send SS unknown control string */
SHORT L_SAT_CMD_SS_UNKNOWN 32
BEGINARRAY_PART (D_SAT_CMD_SS_UNKNOWN, L_SAT_CMD_SS_UNKNOWN)
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x89, 0x06, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_UNKNOWN)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_UNKNOWN*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_UNKNOWN)
ENDSTRUCT

/* SAT command send SS PWD registration */
SHORT L_SAT_CMD_SS_PWD 39
BEGINARRAY_PART (D_SAT_CMD_SS_PWD, L_SAT_CMD_SS_PWD)
                0xD0, 0x25, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x89, 0x0D, 0x81, 0xAA, 0x30, 0x3A, 0x03, 0x1A, 0x32, 0xA4, 0x89, 0x67, 0x9A,
                0x78, 0xB6
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_PWD)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_PWD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_PWD)
ENDSTRUCT

/* SAT command send SS, unknown tag, comprehension not required */
SHORT L_SAT_CMD_SS_NCR 35
BEGINARRAY_PART (D_SAT_CMD_SS_NCR, L_SAT_CMD_SS_NCR)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x7F, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_NCR)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_NCR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_NCR)
ENDSTRUCT

SHORT L_SAT_CMD_SS_NCR_0F 35
BEGINARRAY_PART  (D_SAT_CMD_SS_NCR_0F, L_SAT_CMD_SS_NCR_0F)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x0F, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_NCR_0F)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_NCR_0F*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_NCR_0F)
ENDSTRUCT

SHORT L_SAT_CMD_SS_NCR_10 35
BEGINARRAY_PART (D_SAT_CMD_SS_NCR_10, L_SAT_CMD_SS_NCR_10)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x10, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_NCR_10)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_NCR_10*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_NCR_10)
ENDSTRUCT

/* SAT command send SS, unknown tag, comprehension required */
SHORT L_SAT_CMD_SS_CR 35
BEGINARRAY_PART (D_SAT_CMD_SS_CR, L_SAT_CMD_SS_CR)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0xFF, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_CR)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_CR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_CR)
ENDSTRUCT

SHORT L_SAT_CMD_SS_CR_0F 35
BEGINARRAY_PART (D_SAT_CMD_SS_CR_0F, L_SAT_CMD_SS_CR_0F)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x8F, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_CR_0F)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_CR_0F*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_CR_0F)
ENDSTRUCT

SHORT L_SAT_CMD_SS_CR_10 35
BEGINARRAY_PART (D_SAT_CMD_SS_CR_10, L_SAT_CMD_SS_CR_10)
                0xD0, 0x21, 0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x90, 0x01, 0xFF, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31, 0xFB
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SS_CR_10)
                SET_COMP ("l_cmd",              L_SAT_CMD_SS_CR_10*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SS_CR_10)
ENDSTRUCT

/* SAT command setup call only if MS idle */
SHORT L_SAT_CMD_CALL_IDLE 33
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE, L_SAT_CMD_CALL_IDLE)
                0xD0, 0x1F, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE)
ENDSTRUCT

/* SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY 32
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY, L_SAT_CMD_CALL_NBSY)
```

```
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81,
                0x83, 0x85, 0x08, 0x4E, 0x6F, 0x74, 0x20, 0x62, 0x75, 0x73,
                0x79, 0x86, 0x09, 0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39,
                0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY)
ENDSTRUCT

/* Second SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY2 44
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY2, L_SAT_CMD_CALL_NBSY2)
                0xD0, 0x2A, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81,
                0x83, 0x85, 0x11, 0x43, 0x61, 0x70, 0x61, 0x62, 0x69, 0x6C,
                0x69, 0x74, 0x79, 0x20, 0x63, 0x6F, 0x6E, 0x66, 0x69, 0x67,
                0x86, 0x09, 0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x1C,
                0x2C, 0x87, 0x01, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY2)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY2)
ENDSTRUCT

/* Third SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY3 43
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY3, L_SAT_CMD_CALL_NBSY3)
                0xD0, 0x22, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81,
                0x83, 0x85, 0x0C, 0x43, 0x61, 0x6C, 0x6C, 0x65, 0x64, 0x20,
                0x70, 0x61, 0x72, 0x74, 0x79, 0x86, 0x09, 0x91, 0x94, 0x98,
                0x49, 0x75, 0x38, 0x39, 0x1C, 0x2C, 0x88, 0x50, 0x95, 0x95,
                0x95, 0x95, 0x95
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY3)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY3*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY3)
ENDSTRUCT

/* Fourth SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY4 36
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY4, L_SAT_CMD_CALL_NBSY4)
                0xD0, 0x22, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81,
                0x83, 0x85, 0x08, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6F,
                0x6E, 0x86, 0x09, 0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39,
                0x1C, 0x2C, 0x84, 0x02, 0x01, 0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY4)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY4*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY4)
ENDSTRUCT
```

```
/* Fifth SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY5 24
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY5, L_SAT_CMD_CALL_NBSY5)
                0xD0, 0x16, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x00, 0x86, 0x09, 0x91,
                0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY5)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY5*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY5)
ENDSTRUCT

/* Sixth SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY6 22
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY6, L_SAT_CMD_CALL_NBSY6)
                0xD0, 0x14, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81,
                0x83, 0x86, 0x09, 0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39,
                0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY6)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY6*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY6)
ENDSTRUCT

/* Seventh SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY7 32
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY7, L_SAT_CMD_CALL_NBSY7)
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x08, 0x4E, 0x6F, 0x74,
                0x20, 0x62, 0x75, 0x73, 0x79, 0x86, 0x09, 0x91,
                0x94, 0x98, 0x49, 0x75, 0x58, 0x36, 0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY7)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY7*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY7)
ENDSTRUCT

/* Eighth SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY8 48
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY8, L_SAT_CMD_CALL_NBSY8)
                0xD0, 0x28, 0x81, 0x03, 0x01, 0x10, 0x00,
                0x82, 0x02, 0x81, 0x83, 0x85, 0x12, 0x80,
                0x00, 0x4E, 0x00, 0x6F, 0x00, 0x74, 0x00,
                0x20, 0x00, 0x62, 0x00, 0x75, 0x00, 0x73,
                0x00, 0x79, 0x00, 0x86, 0x09, 0x91, 0x94,
                0x98, 0x49, 0x75, 0x38, 0x39, 0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY8)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY8*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY8)
ENDSTRUCT
```

```
/* Nineth SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY9 71
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY9, L_SAT_CMD_CALL_NBSY9)
                0xD0, 0x3C, 0x81, 0x03, 0x01, 0x10, 0x00,
                0x82, 0x02, 0x81, 0x83, 0x85, 0x23, 0x80,
                0x00, 0x43, 0x00, 0x61, 0x00, 0x70, 0x00,
                0x61, 0x00, 0x62, 0x00, 0x69, 0x00, 0x6C,
                0x00, 0x69, 0x00, 0x74, 0x00, 0x79, 0x00,
                0x20, 0x00, 0x63, 0x00, 0x6F, 0x00, 0x6E,
                0x00, 0x66, 0x00, 0x69, 0x00, 0x67, 0x86,
                0x09, 0x91, 0x94, 0x98, 0x49, 0x75, 0x38,
                0x39, 0x1C, 0x2C, 0x87, 0x01, 0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY9)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY9*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY9)
ENDSTRUCT


/* 10th SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY10 56
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY10, L_SAT_CMD_CALL_NBSY10)
                0xD0, 0x36, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x19, 0x80, 0x00, 0x43,
                0x00, 0x61, 0x00, 0x6c, 0x00, 0x6c, 0x00, 0x65,
                0x00, 0x64, 0x00, 0x20, 0x00, 0x70, 0x00, 0x61,
                0x00, 0x72, 0x00, 0x74, 0x00, 0x79, 0x86, 0x09,
                0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x1c,
                0x2c, 0x88, 0x50, 0x95, 0x95, 0x95, 0x95, 0x95
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY10)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY10*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY10)
ENDSTRUCT


/* 11th SAT command setup call only if not currently busy on another call */
SHORT L_SAT_CMD_CALL_NBSY11 51
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSY11, L_SAT_CMD_CALL_NBSY11)
                0xd0, 0x2b, 0x81, 0x03, 0x01, 0x10, 0x00,
                0x82, 0x02, 0x81, 0x83, 0x85, 0x11, 0x80,
                0x00, 0x44, 0x00, 0x75, 0x00, 0x72, 0x00,
                0x61, 0x00, 0x74, 0x00, 0x69, 0x00, 0x6f,
                0x00, 0x6e, 0x86, 0x09, 0x91, 0x94, 0x98,
                0x49, 0x75, 0x38, 0x39, 0x1c, 0x2c, 0x84,
                0x02, 0x01, 0x0a
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSY11)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSY11*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSY11)
ENDSTRUCT
```

```
/* SAT command setup call only if not currently busy on another call with redial*/
SHORT L_SAT_CMD_CALL_NBSYRD 44
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSYRD, L_SAT_CMD_CALL_NBSYRD)
                0xD0, 0x2A, 0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02, 0x81,
                0x83, 0x85, 0x14, 0x4E, 0x6F, 0x74, 0x20, 0x62, 0x75, 0x73,
                0x79, 0x20, 0x77, 0x69, 0x74, 0x68, 0x20, 0x72, 0x65, 0x64,
                0x69, 0x61, 0x6C, 0x86, 0x09, 0x91, 0x94, 0x98, 0x49, 0x75,
                0x38, 0x39, 0x1C, 0x2C
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSYRD)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSYRD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSYRD)
ENDSTRUCT

/* Second SAT command setup call only if not currently busy on another call with redial*/
SHORT L_SAT_CMD_CALL_NBSYRD2 65
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSYRD2, L_SAT_CMD_CALL_NBSYRD2)
                0xd0, 0x3f, 0x81, 0x03, 0x01, 0x10, 0x01, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x29, 0x80, 0x00, 0x4e,
                0x00, 0x6f, 0x00, 0x74, 0x00, 0x20, 0x00, 0x62,
                0x00, 0x75, 0x00, 0x73, 0x00, 0x79, 0x00, 0x20,
                0x00, 0x77, 0x00, 0x69, 0x00, 0x74, 0x00, 0x68,
                0x00, 0x20, 0x00, 0x72, 0x00, 0x65, 0x00, 0x64,
                0x00, 0x69, 0x00, 0x61, 0x00, 0x6c, 0x86, 0x09,
                0x91, 0x94, 0x98, 0x49, 0x75, 0x38, 0x39, 0x1c,
                0x2c
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSYRD2)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSYRD2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSYRD2)
ENDSTRUCT

/* Third SAT command setup call only if not currently busy on another call with redial*/
SHORT L_SAT_CMD_CALL_NBSYRD3 255
BEGINARRAY_PART (D_SAT_CMD_CALL_NBSYRD3, L_SAT_CMD_CALL_NBSYRD3)
                0xD0, 0x81, 0xFC, 0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02,
                0x81, 0x83, 0x86, 0x81, 0xF0, 0x91, 0x10, 0x32, 0x54, 0x76,
                0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76,
                0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0x10, 0x32, 0x54, 0x76,
                0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76,
                0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0x10, 0x32, 0x54, 0x76,
                0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76,
                0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0x10, 0x32, 0x54, 0x76,
                0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76,
                0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0xAC, 0x10, 0x32, 0x54,
                0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54,
                0x76, 0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0xCC, 0x10, 0x32,
                0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32,
                0x54, 0x76, 0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0xCC, 0xBC,
                0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98,
                0x10, 0x32, 0x54, 0x76, 0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA,
                0xCC, 0xCC, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54,
                0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0xBA, 0xBA, 0xBA,
                0xBA, 0xBA, 0xCC, 0xCC, 0xAC, 0x10, 0x32, 0x54, 0x76, 0x98,
```

```
                0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98,
                0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0xCC, 0xCC, 0xCC, 0x10, 0x32,
                0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32,
                0x54, 0x76, 0x98, 0xBA, 0xBA, 0xBA, 0xBA, 0xBA, 0xCC, 0xCC,
                0xCC, 0xBC, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54,
                0x76, 0x98,0x10, 0x32, 0x54, 0x76, 0x98, 0xBA, 0xBA, 0xBA,
                0xBA, 0xBA, 0xCC, 0xCC, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_NBSYRD3)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_NBSYRD3*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_NBSYRD3)
ENDSTRUCT

/* SAT command setup call only if MS idle, alpha identifier without CR Flags */
SHORT L_SAT_CMD_CALL_IDLE_CR1 33
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_CR1, L_SAT_CMD_CALL_IDLE_CR1)
                0xD0, 0x1F, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_CR1)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE_CR1*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE_CR1)
ENDSTRUCT

/* SAT command setup call only if MS idle, command details without CR Flags */
SHORT L_SAT_CMD_CALL_IDLE_CR2 33
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_CR2, L_SAT_CMD_CALL_IDLE_CR2)
                0xD0, 0x1F, 0x01, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_CR2)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE_CR2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE_CR2)
ENDSTRUCT

/* SAT command setup call only if MS idle, with icon identifier (CR flag not set) */
SHORT L_SAT_CMD_CALL_IDLE_ICON 37
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_ICON, L_SAT_CMD_CALL_IDLE_ICON)
                0xD0, 0x23, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4, 0x1E, 0x02, 0x00, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_ICON)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE_ICON*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE_ICON)
ENDSTRUCT

/* SAT command setup call put existing call on hold */
SHORT L_SAT_CMD_CALL_HOLD 33
BEGINARRAY_PART (D_SAT_CMD_CALL_HOLD, L_SAT_CMD_CALL_HOLD)
                0xD0, 0x1F, 0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_HOLD)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_HOLD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_HOLD)
ENDSTRUCT

/* Second SAT command setup call put existing call on hold */
SHORT L_SAT_CMD_CALL_HOLD2 26
BEGINARRAY_PART (D_SAT_CMD_CALL_HOLD2, L_SAT_CMD_CALL_HOLD2)
                0xD0, 0x18, 0x81, 0x03, 0x01, 0x10, 0x02, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x07, 0x4F, 0x6E, 0x20,
                0x68, 0x6F, 0x6C, 0x64, 0x86, 0x04, 0x91, 0x94,
                0x11, 0x19
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_HOLD2)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_HOLD2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_HOLD2)
ENDSTRUCT

/* Third SAT command setup call put existing call on hold */
SHORT L_SAT_CMD_CALL_HOLD3 26
BEGINARRAY_PART (D_SAT_CMD_CALL_HOLD3, L_SAT_CMD_CALL_HOLD3)
                0xd0, 0x18, 0x81, 0x03, 0x01, 0x10, 0x02, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x07, 0x4f, 0x6e, 0x20,
                0x68, 0x6f, 0x6c, 0x64, 0x86, 0x04, 0x80, 0xba,
                0x16, 0xfb
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_HOLD3)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_HOLD3*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_HOLD3)
ENDSTRUCT


/* Fourth SAT command setup call put existing call on hold */
SHORT L_SAT_CMD_CALL_HOLD4 34
BEGINARRAY_PART (D_SAT_CMD_CALL_HOLD4, L_SAT_CMD_CALL_HOLD4)
                0xd0, 0x20, 0x81, 0x03, 0x01, 0x10, 0x02, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x0f, 0x80, 0x00, 0x4f,
                0x00, 0x6e, 0x00, 0x20, 0x00, 0x68, 0x00, 0x6f,
                0x00, 0x6c, 0x00, 0x64, 0x86, 0x04, 0x91, 0x94,
                0x11, 0x19
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_HOLD4)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_HOLD4*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_HOLD4)
ENDSTRUCT

/* Fifth SAT command setup call put existing call on hold */
SHORT L_SAT_CMD_CALL_HOLD5 34
BEGINARRAY_PART (D_SAT_CMD_CALL_HOLD5, L_SAT_CMD_CALL_HOLD5)
                0xd0, 0x20, 0x81, 0x03, 0x01, 0x10, 0x02, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x0f, 0x80, 0x00, 0x4f,
                0x00, 0x6e, 0x00, 0x20, 0x00, 0x68, 0x00, 0x6f,
```

```
                0x00, 0x6c, 0x00, 0x64, 0x86, 0x04, 0x80, 0xba,
                0x16, 0xfb
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_HOLD5)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_HOLD5*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_HOLD5)
ENDSTRUCT

/* SAT command setup call disconnect existing calls */
SHORT L_SAT_CMD_CALL_DISC 33
BEGINARRAY_PART (D_SAT_CMD_CALL_DISC, L_SAT_CMD_CALL_DISC)
                0xD0, 0x1F, 0x81, 0x03, 0x01, 0x10, 0x04, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F,
                0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_DISC)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_DISC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_DISC)
ENDSTRUCT

/* Second SAT command setup call disconnect existing calls */
SHORT L_SAT_CMD_CALL_DISC2 32
BEGINARRAY_PART (D_SAT_CMD_CALL_DISC2, L_SAT_CMD_CALL_DISC2)
                0xD0, 0x1E, 0x81, 0x03, 0x01, 0x10, 0x04, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x0A, 0x44, 0x69, 0x73,
                0x63, 0x6F, 0x6E, 0x6E, 0x65, 0x63, 0x74, 0x86,
                0x07, 0x91, 0x94, 0x98, 0x49, 0x75, 0x78, 0x43
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_DISC2)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_DISC2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_DISC2)
ENDSTRUCT

/* Third SAT command setup call disconnect existing calls */
SHORT L_SAT_CMD_CALL_DISC3 44
BEGINARRAY_PART (D_SAT_CMD_CALL_DISC3, L_SAT_CMD_CALL_DISC3)
                0xd0, 0x2a, 0x81, 0x03, 0x01, 0x10, 0x04, 0x82,
                0x02, 0x81, 0x83, 0x85, 0x16, 0x80, 0x00, 0x44,
                0x00, 0x69, 0x00, 0x73, 0x00, 0x63, 0x00, 0x6f,
                0x00, 0x6e, 0x00, 0x6e, 0x00, 0x65, 0x00, 0x63,
                0x00, 0x74, 0x00, 0x86, 0x07, 0x91, 0x94, 0x98,
                0x49, 0x75, 0x38, 0x39
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_DISC3)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_DISC3*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_DISC3)
ENDSTRUCT


/* SAT command setup call only if MS idle with DTMF */
SHORT L_SAT_CMD_CALL_IDLE_DTMF 37
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_DTMF, L_SAT_CMD_CALL_IDLE_DTMF)
```

```
                0xD0, 0x23, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x0B, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xC4, 0x90, 0xAC, 0xCB, 0x76
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_DTMF)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE_DTMF*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE_DTMF)
ENDSTRUCT

/* SAT command setup call only if MS idle with redial*/
SHORT L_SAT_CMD_CALL_IDLE_RDL 37
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_RDL, L_SAT_CMD_CALL_IDLE_RDL)
                0xD0, 0x23, 0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02, 0x81, 0x82, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x86, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4, 0x84, 0x02, 0x00, 0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_RDL)
                SET_COMP ("l_cmd",              L_SAT_CMD_CALL_IDLE_RDL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_CALL_IDLE_RDL)
ENDSTRUCT

/* Terminal response provide local information: date-time and time zone*/
SHORT L_SAT_RES_PLOI_OK 21
BEGINARRAY_PART (D_SAT_RES_PLOI_OK, L_SAT_RES_PLOI_OK)
                0x81, 0x03, 0x01, 0x26, 0x03, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xA6, 0x07, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
                0xA0, 0x40
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_PLOI_OK)
                SET_COMP ("l_cmd",              L_SAT_RES_PLOI_OK*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_PLOI_OK)
ENDSTRUCT

/* Terminal response run at command AT+CSNS=5: OK */
SHORT L_SAT_RES_RUN_CSNS 20
BEGINARRAY_PART (D_SAT_RES_RUN_CSNS, L_SAT_RES_RUN_CSNS)
                0x81, 0x03, 0x01, 0x34, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xA9, 0x06, 0x0D, 0x0A, 0x4F, 0x4B, 0x0D,
                0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_RUN_CSNS)
                SET_COMP ("l_cmd",              L_SAT_RES_RUN_CSNS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_RUN_CSNS)
ENDSTRUCT
/* Terminal response run at command AT+COPS?: +COPS: 0 */
SHORT L_SAT_RES_RUN_COPS 24
BEGINARRAY_PART (D_SAT_RES_RUN_COPS, L_SAT_RES_RUN_COPS)
                0x81, 0x03, 0x01, 0x34, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xA9, 0x0A, 0x2B, 0x43, 0x4F, 0x50, 0x53,
                0x3A, 0x20, 0x30, 0x0D, 0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_RUN_COPS)
                SET_COMP ("l_cmd",              L_SAT_RES_RUN_COPS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_RUN_COPS)
ENDSTRUCT
```

```
/* Terminal response run at command AT+COPS?: OK */
SHORT L_SAT_RES_RUN_COPS_OK 30
BEGINARRAY_PART (D_SAT_RES_RUN_COPS_OK, L_SAT_RES_RUN_COPS_OK)
        0x81, 0x03, 0x01, 0x34, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xA9, 0x10, 0x2B, 0x43, 0x4F, 0x50, 0x53,
        0x3A, 0x20, 0x30, 0x0D, 0x0A, 0x0D, 0x0A, 0x4F, 0x4B, 0x0D, 0x0A
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_RUN_COPS_OK)
        SET_COMP ("l_cmd",          L_SAT_RES_RUN_COPS_OK*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_RUN_COPS_OK)
ENDSTRUCT

/* Terminal response send SS OK no modification */
SHORT L_SAT_RES_SS_SUCC 24
BEGINARRAY_PART (D_SAT_RES_SS_SUCC, L_SAT_RES_SS_SUCC)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x0D, 0x00, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03,
        0x83, 0x01, 0x60, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_SUCC)
        SET_COMP ("l_cmd",          L_SAT_RES_SS_SUCC*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_SS_SUCC)
ENDSTRUCT

/* Terminal response send unconditional call forwarding activated */
SHORT L_SAT_RES_TRMNL 31
BEGINARRAY_PART (D_SAT_RES_TRMNL, L_SAT_RES_TRMNL)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x14, 0x00, 0x0A, 0xA0, 0x80, 0x04, 0x01, 0x21, 0x30,
        0x05, 0x30, 0x03, 0x84, 0x01, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_TRMNL)
        SET_COMP ("l_cmd",          L_SAT_RES_TRMNL*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_TRMNL)
ENDSTRUCT

/* Terminal response send unconditional call forwarding activated */
SHORT L_SAT_RES_TRMNL2 41
BEGINARRAY_PART (D_SAT_RES_TRMNL2, L_SAT_RES_TRMNL2)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x1E, 0x00, 0x0A, 0xA0, 0x1A, 0x04, 0x01, 0x21, 0x30,
        0x15, 0x30, 0x13, 0x83, 0x01, 0x00, 0x84, 0x01, 0x07, 0x84, 0x0B, 0x91, 0x10, 0x32, 0x54, 0x76 , 0x98, 0x10, 0x32,
        0x54, 0x76, 0x98
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_TRMNL2)
        SET_COMP ("l_cmd",          L_SAT_RES_TRMNL2*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_TRMNL2)
ENDSTRUCT

/* Terminal response send USSD OK */
SHORT L_SAT_RES_SS_SUCC2 38
BEGINARRAY_PART (D_SAT_RES_SS_SUCC2, L_SAT_RES_SS_SUCC2)
        0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00,
        0x8D, 0x18, 0xA5, 0x61, 0xF1, 0x98, 0x5C, 0x36, 0x9F, 0xD1, 0x69, 0xF5,
        0x9A, 0xDD, 0x76, 0xBF, 0xE1, 0x71, 0xF9, 0x9C, 0x5E, 0xB7, 0xDF, 0xF1,
        0x79, 0x3D, 0xB7, 0xDF, 0xF1, 0x79, 0x3D
```

```
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_SUCC2)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_SUCC2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_SUCC2)
ENDSTRUCT

/* Terminal response send DTMF OK */
SHORT L_SAT_RES_SS_DTMF 12
BEGINARRAY_PART (D_SAT_RES_SS_DTMF, L_SAT_RES_SS_DTMF)
                0x81, 0x03, 0x01, 0x14, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_DTMF)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_DTMF*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_DTMF)
ENDSTRUCT

/* Terminal response send SS PWD OK no modification */
SHORT L_SAT_RES_SS_PWD_SUCC 23
BEGINARRAY_PART (D_SAT_RES_SS_PWD_SUCC, L_SAT_RES_SS_PWD_SUCC)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x0C, 0x00, 0x11, 0x12, 0x04, 0x31, 0x32, 0x33, 0x34,
                0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_PWD_SUCC)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_PWD_SUCC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_PWD_SUCC)
ENDSTRUCT

/* Terminal response send SS OK no modification, partial comprehension */
SHORT L_SAT_RES_SS_SUCC_PC 24
BEGINARRAY_PART (D_SAT_RES_SS_SUCC_PC, L_SAT_RES_SS_SUCC_PC)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x0D, 0x01, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03,
                0x83, 0x01, 0x60, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_SUCC_PC)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_SUCC_PC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_SUCC_PC)
ENDSTRUCT

/* Terminal response busy on */
SHORT L_SAT_RES_SS_BUSY 13
BEGINARRAY_PART (D_SAT_RES_SS_BUSY, L_SAT_RES_SS_BUSY)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x20, 0x03
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_BUSY)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_BUSY*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_BUSY)
ENDSTRUCT

/* Terminal response busy on SS */
SHORT L_SAT_RES_USSD_BUSY_ON_SS 13
BEGINARRAY_PART (D_SAT_RES_USSD_BUSY_ON_SS, L_SAT_RES_USSD_BUSY_ON_SS)
```

```
        0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x20, 0x03
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USSD_BUSY_ON_SS)
        SET_COMP ("l_cmd",      L_SAT_RES_USSD_BUSY_ON_SS*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_RES_USSD_BUSY_ON_SS)
ENDSTRUCT

/* Terminal response busy on USSD */
SHORT L_SAT_RES_USSD_BUSY_ON_USSD 13
BEGINARRAY_PART (D_SAT_RES_USSD_BUSY_ON_USSD, L_SAT_RES_USSD_BUSY_ON_USSD)
        0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x20, 0x08
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USSD_BUSY_ON_USSD)
        SET_COMP ("l_cmd",      L_SAT_RES_USSD_BUSY_ON_USSD*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_RES_USSD_BUSY_ON_USSD)
ENDSTRUCT

/* Terminal response beyond ME capabilities */
SHORT L_SAT_RES_SS_ME_CAP 12
BEGINARRAY_PART (D_SAT_RES_SS_ME_CAP, L_SAT_RES_SS_ME_CAP)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x30
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_ME_CAP)
        SET_COMP ("l_cmd",      L_SAT_RES_SS_ME_CAP*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_RES_SS_ME_CAP)
ENDSTRUCT

/* Terminal response command data not understood by ME */
SHORT L_SAT_RES_SS_CMD_UNKNOWN 12
BEGINARRAY_PART (D_SAT_RES_SS_CMD_UNKNOWN, L_SAT_RES_SS_CMD_UNKNOWN)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x32
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_CMD_UNKNOWN)
        SET_COMP ("l_cmd",      L_SAT_RES_SS_CMD_UNKNOWN*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_RES_SS_CMD_UNKNOWN)
ENDSTRUCT

/* Terminal response send SS error */
SHORT L_SAT_RES_SS_ERR 13
BEGINARRAY_PART (D_SAT_RES_SS_ERR, L_SAT_RES_SS_ERR)
        0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x34, 0x13
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_ERR)
        SET_COMP ("l_cmd",      L_SAT_RES_SS_ERR*8)
        SET_COMP ("o_cmd",      NUM_0000)
        SET_COMP ("cmd",        D_SAT_RES_SS_ERR)
ENDSTRUCT

/* Terminal response send SS error */
SHORT L_SAT_RES_USSD_ERR 13
BEGINARRAY_PART (D_SAT_RES_USSD_ERR, L_SAT_RES_USSD_ERR)
        0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x37, 0x22
```

```
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USSD_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_USSD_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_USSD_ERR)
ENDSTRUCT

/* Terminal response send SS reject */
SHORT L_SAT_RES_SS_REJ 13
BEGINARRAY_PART (D_SAT_RES_SS_REJ, L_SAT_RES_SS_REJ)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_REJ)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_REJ*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_REJ)
ENDSTRUCT

/* Terminal response send USSD reject */
SHORT L_SAT_RES_USSD_REJ 13
BEGINARRAY_PART (D_SAT_RES_USSD_REJ, L_SAT_RES_USSD_REJ)
                0x81, 0x03, 0x01, 0x12, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USSD_REJ)
                SET_COMP ("l_cmd",              L_SAT_RES_USSD_REJ*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_USSD_REJ)
ENDSTRUCT

/* Terminal response send SS not allowed due to call control by SIM */
SHORT L_SAT_RES_SS_NOT_ALLW 13
BEGINARRAY_PART (D_SAT_RES_SS_NOT_ALLW, L_SAT_RES_SS_NOT_ALLW)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_SS_NOT_ALLW)
                SET_COMP ("l_cmd",              L_SAT_RES_SS_NOT_ALLW*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_SS_NOT_ALLW)
ENDSTRUCT

/* Terminal response SAT call rejected by user */
SHORT L_SAT_RES_REJ_MDFY_CALL 46
BEGINARRAY_PART (D_SAT_RES_REJ_MDFY_CALL, L_SAT_RES_REJ_MDFY_CALL)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x22
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_REJ_MDFY_CALL)
                SET_COMP ("l_cmd",              L_SAT_RES_REJ_MDFY_CALL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_REJ_MDFY_CALL)
ENDSTRUCT

/* Terminal response modified SAT call rejected by user */
SHORT L_SAT_RES_REJ_MDFY_CALL_IDLE 46
BEGINARRAY_PART (D_SAT_RES_REJ_MDFY_CALL_IDLE, L_SAT_RES_REJ_MDFY_CALL_IDLE)
```

```
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x22
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_REJ_MDFY_CALL_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_REJ_MDFY_CALL_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_REJ_MDFY_CALL_IDLE)
ENDSTRUCT

/* Terminal response SAT unmodified call setup rejected by user */
SHORT L_SAT_RES_REJ_UNMDFY_CALL 12
BEGINARRAY_PART (D_SAT_RES_REJ_UNMDFY_CALL, L_SAT_RES_REJ_UNMDFY_CALL)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x22
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_REJ_UNMDFY_CALL)
                SET_COMP ("l_cmd",              L_SAT_RES_REJ_UNMDFY_CALL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_REJ_UNMDFY_CALL)
ENDSTRUCT

/* Terminal response SAT call connected but modified */
SHORT L_SAT_RES_OK_MDFY_CALL 46
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_CALL, L_SAT_RES_OK_MDFY_CALL)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7,
                 0x85, /* clb change: was set to 0x05... Wrong Tag, isn't it ??! */
                 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_CALL)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_CALL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_CALL)
ENDSTRUCT

/* Terminal response SAT call connected but modified idle */
SHORT L_SAT_RES_OK_MDFY_CALL_IDLE 46
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_CALL_IDLE , L_SAT_RES_OK_MDFY_CALL_IDLE)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_CALL_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_CALL_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_CALL_IDLE)
ENDSTRUCT

/* Terminal response SAT call connected but modified to emergency */
SHORT L_SAT_RES_OK_MDFY_CALL_ECC 35
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_CALL_ECC, L_SAT_RES_OK_MDFY_CALL_ECC)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x12, 0x86, 0x03, 0x81, 0x11, 0xF2,
                0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_CALL_ECC)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_CALL_ECC*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_CALL_ECC)
ENDSTRUCT

/* Terminal response SAT call connected but modified with DTMF */
SHORT L_SAT_RES_OK_MDFY_CALL_DTMF 50
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_CALL_DTMF, L_SAT_RES_OK_MDFY_CALL_DTMF)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x21, 0x86, 0x0B, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xC3, 0x90, 0xAC, 0xCB, 0x76, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x85, 0x0B, 0x48,
                0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_CALL_DTMF)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_CALL_DTMF*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_CALL_DTMF)
ENDSTRUCT

/* Terminal response SAT SS OK but modified (idle) */
SHORT L_SAT_RES_OK_MDFY_SS_IDLE 50
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_SS_IDLE, L_SAT_RES_OK_MDFY_SS_IDLE)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33,
                0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x0D,
                0x00, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03, 0x83, 0x01, 0x60, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_SS_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_SS_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_SS_IDLE)
ENDSTRUCT

/* Terminal response SAT SS OK but modified (hold) */
SHORT L_SAT_RES_OK_MDFY_SS_HOLD 50
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_SS_HOLD, L_SAT_RES_OK_MDFY_SS_HOLD)
                0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33,
                0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x0D,
                0x00, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03, 0x83, 0x01, 0x60, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_SS_HOLD)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_SS_HOLD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_SS_HOLD)
ENDSTRUCT

/* Terminal response SAT SS OK but modified (disconnect) */
SHORT L_SAT_RES_OK_MDFY_SS_DISC 50
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_SS_DISC, L_SAT_RES_OK_MDFY_SS_DISC)
                0x81, 0x03, 0x01, 0x10, 0x04, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33,
                0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x0D,
                0x00, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03, 0x83, 0x01, 0x60, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_SS_DISC)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_MDFY_SS_DISC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_MDFY_SS_DISC)
ENDSTRUCT
```

```
/* Terminal response SAT SS modified error result (idle) */
SHORT L_SAT_RES_MDFY_SS_ERR_IDLE 40
BEGINARRAY_PART (D_SAT_RES_MDFY_SS_ERR_IDLE, L_SAT_RES_MDFY_SS_ERR_IDLE)
        0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x02, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x3B,
        0x33, 0xAA, 0x31, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83,
        0x02, 0x34, 0x13
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_SS_ERR_IDLE)
        SET_COMP ("l_cmd",          L_SAT_RES_MDFY_SS_ERR_IDLE*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_MDFY_SS_ERR_IDLE)
ENDSTRUCT

/* Terminal response SAT SS modified ME capability (idle) */
SHORT L_SAT_RES_MDFY_SS_ME_CAP_IDLE 40
BEGINARRAY_PART (D_SAT_RES_MDFY_SS_ME_CAP_IDLE, L_SAT_RES_MDFY_SS_ME_CAP_IDLE)
        0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x02, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x21,
        0x43, 0x65, 0x87, 0x90, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83,
        0x02, 0x39, 0x30
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_SS_ME_CAP_IDLE)
        SET_COMP ("l_cmd",          L_SAT_RES_MDFY_SS_ME_CAP_IDLE*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_MDFY_SS_ME_CAP_IDLE)
ENDSTRUCT

/* Terminal response SAT SS modified but busy on SS (idle) */
SHORT L_SAT_RES_MDFY_SS_BUSY_IDLE 39
BEGINARRAY_PART (D_SAT_RES_MDFY_SS_BUSY_IDLE, L_SAT_RES_MDFY_SS_BUSY_IDLE)
0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x3B, 0x33, 0xAA, 0x31,
        0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x02, 0x20, 0x03
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_SS_BUSY_IDLE)
        SET_COMP ("l_cmd",          L_SAT_RES_MDFY_SS_BUSY_IDLE*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_MDFY_SS_BUSY_IDLE)
ENDSTRUCT

/* Terminal response SAT call connected not modified */
SHORT L_SAT_RES_OK_UNMDFY_CALL 12
BEGINARRAY_PART (D_SAT_RES_OK_UNMDFY_CALL, L_SAT_RES_OK_UNMDFY_CALL)
        0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_UNMDFY_CALL)
        SET_COMP ("l_cmd",          L_SAT_RES_OK_UNMDFY_CALL*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_OK_UNMDFY_CALL)
ENDSTRUCT

/* Terminal response SAT call connected not modified previous call on hold */
SHORT L_SAT_RES_OK_UNMDFY_CALL_HOLD 12
BEGINARRAY_PART (D_SAT_RES_OK_UNMDFY_CALL_HOLD, L_SAT_RES_OK_UNMDFY_CALL_HOLD)
        0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_UNMDFY_CALL_HOLD)
        SET_COMP ("l_cmd",          L_SAT_RES_OK_UNMDFY_CALL_HOLD*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_UNMDFY_CALL_HOLD)
ENDSTRUCT

/* Terminal response SAT call connected not modified previous call disconnected */
SHORT L_SAT_RES_OK_UNMDFY_CALL_DISC 12
BEGINARRAY_PART (D_SAT_RES_OK_UNMDFY_CALL_DISC, L_SAT_RES_OK_UNMDFY_CALL_DISC)
                0x81, 0x03, 0x01, 0x10, 0x04, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_UNMDFY_CALL_DISC)
                SET_COMP ("l_cmd",              L_SAT_RES_OK_UNMDFY_CALL_DISC*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OK_UNMDFY_CALL_DISC)
ENDSTRUCT

/* Terminal response SAT call modified but not connected due to a network problem */
SHORT L_SAT_RES_MDFY_CALL_NTW_ERR 47
BEGINARRAY_PART (D_SAT_RES_MDFY_CALL_NTW_ERR, L_SAT_RES_MDFY_CALL_NTW_ERR)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x02, 0x21, 0x91
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_CALL_NTW_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_MDFY_CALL_NTW_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_MDFY_CALL_NTW_ERR)
ENDSTRUCT

/* Terminal response SAT call modified but not connected due to a network problem, idle */
SHORT L_SAT_RES_MDFY_CALL_NTW_ERR_IDLE 47
BEGINARRAY_PART (D_SAT_RES_MDFY_CALL_NTW_ERR_IDLE, L_SAT_RES_MDFY_CALL_NTW_ERR_IDLE)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x02, 0x21, 0x91
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_CALL_NTW_ERR_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_MDFY_CALL_NTW_ERR_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_MDFY_CALL_NTW_ERR_IDLE)
ENDSTRUCT

/* Terminal response SAT call not connected due to a network problem */
SHORT L_SAT_RES_UNMDFY_CALL_NTW_ERR 13
BEGINARRAY_PART (D_SAT_RES_UNMDFY_CALL_NTW_ERR, L_SAT_RES_UNMDFY_CALL_NTW_ERR)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0x91
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_UNMDFY_CALL_NTW_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_UNMDFY_CALL_NTW_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_UNMDFY_CALL_NTW_ERR)
ENDSTRUCT

/* Terminal response SAT call not connected due to a network problem */
SHORT L_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN 13
```

```
BEGINARRAY_PART (D_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN,
                L_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN) 0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x82, 0x81, 0x83,
                0x02, 0x21, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN)
                SET_COMP ("l_cmd",              L_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN)
ENDSTRUCT

/* Terminal response SAT call modified but not connected due to user abort */
SHORT L_SAT_RES_MDFY_CALL_USR_ABT 46
BEGINARRAY_PART (D_SAT_RES_MDFY_CALL_USR_ABT, L_SAT_RES_MDFY_CALL_USR_ABT)
                0x81, 0x03, 0x01, 0x11, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x23
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_CALL_USR_ABT)
                SET_COMP ("l_cmd",              L_SAT_RES_MDFY_CALL_USR_ABT*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_MDFY_CALL_USR_ABT)
ENDSTRUCT

/* Terminal response SAT call modified but not connected due to user abort, idle */
SHORT L_SAT_RES_MDFY_CALL_USR_ABT_IDLE 46
BEGINARRAY_PART (D_SAT_RES_MDFY_CALL_USR_ABT_IDLE, L_SAT_RES_MDFY_CALL_USR_ABT_IDLE)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x25, 0xA7, 0x1D, 0x86, 0x07, 0x81, 0x30, 0x30,
                0x09, 0x49, 0x22, 0xF3, 0x88, 0x05, 0x88, 0x21, 0x43, 0x65, 0xF7, 0x05, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20,
                0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x01, 0x23
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_MDFY_CALL_USR_ABT_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_MDFY_CALL_USR_ABT_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_MDFY_CALL_USR_ABT_IDLE)
ENDSTRUCT

/* Terminal response SAT call not connected due to user abort */
SHORT L_SAT_RES_UNMDFY_CALL_USR_ABT 12
BEGINARRAY_PART (D_SAT_RES_UNMDFY_CALL_USR_ABT, L_SAT_RES_UNMDFY_CALL_USR_ABT)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x23
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_UNMDFY_CALL_USR_ABT)
                SET_COMP ("l_cmd",              L_SAT_RES_UNMDFY_CALL_USR_ABT*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_UNMDFY_CALL_USR_ABT)
ENDSTRUCT

/* Terminal response SAT call not connected due to user abort */
SHORT L_SAT_RES_ME_NOT_IDLE 13
BEGINARRAY_PART (D_SAT_RES_ME_NOT_IDLE, L_SAT_RES_ME_NOT_IDLE)
                0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x20, 0x02
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_ME_NOT_IDLE)
                SET_COMP ("l_cmd",              L_SAT_RES_ME_NOT_IDLE*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_ME_NOT_IDLE)
```

```
ENDSTRUCT

/* Terminal response beyond unmodified call ME capabilities for hold */
SHORT L_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD 12
BEGINARRAY_PART (D_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD, L_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD)
        0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x30
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_UNMDFY_CALL_ME_CAP_HOLD)
        SET_COMP ("l_cmd",          L_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_UNMDFY_CALL_ME_CAP_HOLD)
ENDSTRUCT

/* Terminal response SAT call (idle) not allowed due to call control by SIM */
SHORT L_SAT_RES_CALL_NOT_ALLW_IDLE 13
BEGINARRAY_PART (D_SAT_RES_CALL_NOT_ALLW_IDLE, L_SAT_RES_CALL_NOT_ALLW_IDLE)
        0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_CALL_NOT_ALLW_IDLE)
        SET_COMP ("l_cmd",          L_SAT_RES_CALL_NOT_ALLW_IDLE*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_CALL_NOT_ALLW_IDLE)
ENDSTRUCT

/* Terminal response SAT call (hold) not allowed due to call control by SIM */
SHORT L_SAT_RES_CALL_NOT_ALLW_HOLD 13
BEGINARRAY_PART (D_SAT_RES_CALL_NOT_ALLW_HOLD, L_SAT_RES_CALL_NOT_ALLW_HOLD)
        0x81, 0x03, 0x01, 0x10, 0x02, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_CALL_NOT_ALLW_HOLD)
        SET_COMP ("l_cmd",          L_SAT_RES_CALL_NOT_ALLW_HOLD*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_CALL_NOT_ALLW_HOLD)
ENDSTRUCT

/* Terminal response SAT call (disconnect) not allowed due to call control by SIM */
SHORT L_SAT_RES_CALL_NOT_ALLW_DISC 13
BEGINARRAY_PART (D_SAT_RES_CALL_NOT_ALLW_DISC, L_SAT_RES_CALL_NOT_ALLW_DISC)
        0x81, 0x03, 0x01, 0x10, 0x04, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_CALL_NOT_ALLW_DISC)
        SET_COMP ("l_cmd",          L_SAT_RES_CALL_NOT_ALLW_DISC*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_CALL_NOT_ALLW_DISC)
ENDSTRUCT

/* Terminal response SAT open channel not allowed due to call control by SIM */
SHORT L_SAT_RES_CALL_NOT_ALLW_OPCH 17
BEGINARRAY_PART (D_SAT_RES_CALL_NOT_ALLW_OPCH, L_SAT_RES_CALL_NOT_ALLW_OPCH)
        0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x39, 0x01, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_CALL_NOT_ALLW_OPCH)
        SET_COMP ("l_cmd",          L_SAT_RES_CALL_NOT_ALLW_OPCH*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_CALL_NOT_ALLW_OPCH)
ENDSTRUCT
```

```
/* SAT command setup call only if MS idle, long coding */
SHORT L_SAT_CMD_CALL_IDLE_LONG 63
BEGINARRAY_PART (D_SAT_CMD_CALL_IDLE_LONG, L_SAT_CMD_CALL_IDLE_LONG)
        0xD0, 0x81, 0x3C, 0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x81, 0x82, 0x85, 0x28, 0x48, 0x45, 0x4C, 0x4C,
        0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x20, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C,
        0x44, 0x20, 0x20, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x20, 0x21, 0x21, 0x21, 0x86,
        0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x44, 0xF4
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_CALL_IDLE_LONG)
        SET_COMP ("l_cmd",          L_SAT_CMD_CALL_IDLE_LONG*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_CMD_CALL_IDLE_LONG)
ENDSTRUCT

/* Terminal response SAT SS OK but modified (idle) long length coding */
SHORT L_SAT_RES_OK_MDFY_SS_IDLE_LONG 235
BEGINARRAY_PART (D_SAT_RES_OK_MDFY_SS_IDLE_LONG, L_SAT_RES_OK_MDFY_SS_IDLE_LONG)
        0x81, 0x03, 0x01, 0x10, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xA7, 0x15, 0x89, 0x06, 0x81, 0x0A, 0x20,
        0xAA, 0x22, 0xFB, 0x85, 0x0B, 0x48, 0x45, 0x4C, 0x4C, 0x4F, 0x20, 0x57, 0x4F, 0x52, 0x4C, 0x44, 0x83, 0x81,
        0xC5, 0x00, 0x0C, 0xA0, 0x80, 0x04, 0x01, 0x20, 0x30, 0x80, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85,
        0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21,
        0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81,
        0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65,
        0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43,
        0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01,
        0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87,
        0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87,
        0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21,
        0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OK_MDFY_SS_IDLE_LONG)
        SET_COMP ("l_cmd",          L_SAT_RES_OK_MDFY_SS_IDLE_LONG*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_OK_MDFY_SS_IDLE_LONG)
ENDSTRUCT

/* SAT command user 1 */
SHORT L_SAT_CMD_USER_1 15
BEGINARRAY_PART (D_SAT_CMD_USER_1, L_SAT_CMD_USER_1)
        0x09, 0x87, 0x65, 0x43, 0x21, 0x09, 0x87, 0x65, 0x43, 0x21, 0x09, 0x87, 0x65, 0x43, 0x21
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_USER_1)
        SET_COMP ("l_cmd",          L_SAT_CMD_USER_1*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_CMD_USER_1)
ENDSTRUCT

/* SAT result user 1 */
SHORT L_SAT_RES_USER_1 15
BEGINARRAY_PART (D_SAT_RES_USER_1, L_SAT_RES_USER_1)
        0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USER_1)
        SET_COMP ("l_cmd",          L_SAT_RES_USER_1*8)
```

```
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_USER_1)
ENDSTRUCT

/* SAT result user 2 */
SHORT L_SAT_RES_USER_2 12
BEGINARRAY_PART (D_SAT_RES_USER_2, L_SAT_RES_USER_2)
                0x81, 0x03, 0x13, 0x05, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_USER_2)
                SET_COMP ("l_cmd",              L_SAT_RES_USER_2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_USER_2)
ENDSTRUCT

/* Terminal response SAT call user stop redialling */
SHORT L_SAT_RES_RDL_STOP 12
BEGINARRAY_PART (D_SAT_RES_RDL_STOP, L_SAT_RES_RDL_STOP)
                0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x23
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_RDL_STOP)
                SET_COMP ("l_cmd",              L_SAT_RES_RDL_STOP*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_RDL_STOP)
ENDSTRUCT

/* Terminal response SAT call end of redialling */
SHORT L_SAT_RES_END_RDL 13
BEGINARRAY_PART (D_SAT_RES_END_RDL, L_SAT_RES_END_RDL)
                0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0x91
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_END_RDL)
                SET_COMP ("l_cmd",              L_SAT_RES_END_RDL*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_END_RDL)
ENDSTRUCT

/* Terminal response SAT call end of session */
SHORT L_SAT_RES_END_SESS 12
BEGINARRAY_PART (D_SAT_RES_END_SESS, L_SAT_RES_END_SESS)
                0x81, 0x03, 0x01, 0x10, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x10
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_END_SESS)
                SET_COMP ("l_cmd",              L_SAT_RES_END_SESS*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_END_SESS)
ENDSTRUCT

/* SAT command session terminated */
SHORT L_SAT_CMD_SESS_TERM 0
BEGINARRAY_PART (D_SAT_CMD_SESS_TERM, L_SAT_CMD_SESS_TERM) 0x00 ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SESS_TERM)
                SET_COMP ("l_cmd",              L_SAT_CMD_SESS_TERM*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SESS_TERM)
ENDSTRUCT
```

```
/* Terminal response SAT channel status, channel deactive*/
SHORT L_SAT_RES_GETCS_DEACT 16
BEGINARRAY_PART (D_SAT_RES_GETCS_DEACT, L_SAT_RES_GETCS_DEACT)
        0x81, 0x03, 0x01, 0x44, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_GETCS_DEACT)
        SET_COMP ("l_cmd",          L_SAT_RES_GETCS_DEACT*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_GETCS_DEACT)
ENDSTRUCT

/* Terminal response SAT channel status, channel active*/
SHORT L_SAT_RES_GETCS_ACT 16
BEGINARRAY_PART (D_SAT_RES_GETCS_ACT, L_SAT_RES_GETCS_ACT)
        0x81, 0x03, 0x01, 0x44, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_GETCS_ACT)
        SET_COMP ("l_cmd",          L_SAT_RES_GETCS_ACT*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_GETCS_ACT)
ENDSTRUCT

/* Terminal response SAT open channel rejected by user */
SHORT L_SAT_RES_REJ_OPEN_CHAN_BY_USR 16
BEGINARRAY_PART (D_SAT_RES_REJ_OPEN_CHAN_BY_USR, L_SAT_RES_REJ_OPEN_CHAN_BY_USR)
        0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x22, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_REJ_OPEN_CHAN_BY_USR)
        SET_COMP ("l_cmd",          L_SAT_RES_REJ_OPEN_CHAN_BY_USR*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_REJ_OPEN_CHAN_BY_USR)
ENDSTRUCT

/* Terminal response SAT open channel rejected by user, on-demand */
SHORT L_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD 16
BEGINARRAY_PART (D_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD, L_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD)
        0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x22, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_REJ_OPEN_CHAN_BY_USR_OD)
        SET_COMP ("l_cmd",          L_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_RES_REJ_OPEN_CHAN_BY_USR_OD)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, UDP, successful:

    - bearer:       speed 9600 V110, name async, ce non-transparent
    - buffer size:  1500
    - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_A 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_A, L_SAT_RES_OPCH_CSD_A)
        0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x04, 0x01,
        0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_A)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_A*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_A)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, UDP, modified by CC, successful:

        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed, but modified by call control by SIM
*/
SHORT L_SAT_RES_OPCH_CSD_B 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_B, L_SAT_RES_OPCH_CSD_B)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_B)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_B*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_B)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, transparent, successful:

        - bearer:       speed 9600 V110, name async, ce transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_C 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_C, L_SAT_RES_OPCH_CSD_C)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x07, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x04, 0x01,
                0x46, 0x00, 0x00, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_C)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_C*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_C)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, non-transparent, successful:

        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_D 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_D, L_SAT_RES_OPCH_CSD_D)
                0x81, 0x03, 0x01, 0x40, 0x03, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_D)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_D*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_D)
ENDSTRUCT
```

```
/* Terminal response SAT open channel immediate CSD, default, successful:

        -   bearer:     speed 9600 V32, name async, ce non-transparent
        -   buffer size: 1500
        -   result:     command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_E 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_E, L_SAT_RES_OPCH_CSD_E)
            0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x04, 0x01,
            0x07, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_E)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_E*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_E)
ENDSTRUCT

/* Terminal response SAT open channel immediate GPRS, UDP, successful:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size: 1500
        -   result:     command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_F 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_F, L_SAT_RES_OPCH_GPRS_F)
            0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x07, 0x02,
            0x01, 0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_F)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_GPRS_F*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_GPRS_F)
ENDSTRUCT

/* Terminal response SAT open channel immediate GPRS, SNDCP, successful:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size: 1500
        -   result:     command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_G 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_G, L_SAT_RES_OPCH_GPRS_G)
            0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x07, 0x02,
            0x01, 0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_G)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_GPRS_G*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_GPRS_G)
ENDSTRUCT

/* Terminal response SAT open channel immediate GPRS, default, successful:

        -   bearer:     rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size: 1500
        -   result:     command performed successfully
```

```
*/
SHORT L_SAT_RES_OPCH_GPRS_H 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_H, L_SAT_RES_OPCH_GPRS_H)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x81, 0x00, 0xB5, 0x07, 0x02,
                0x01, 0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_H)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_GPRS_H*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_GPRS_H)
ENDSTRUCT

/* Terminal response SAT open channel immediate GPRS, UDP, ME currently busy on call:

        - bearer:       rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_I 17
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_I, L_SAT_RES_OPCH_GPRS_I)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x20, 0x02, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_I)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_GPRS_I*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_GPRS_I)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, UDP, on-demand, successful:

        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_OD_A 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_OD_A, L_SAT_RES_OPCH_CSD_OD_A)
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_OD_A)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_OD_A*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_OD_A)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, UDP, on-demand, modified by CC, successful:

        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed, but modified by call control by SIM
*/
SHORT L_SAT_RES_OPCH_CSD_OD_B 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_OD_B, L_SAT_RES_OPCH_CSD_OD_B)
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x05, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_OD_B)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_OD_B*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_OD_B)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, transparent, on-demand, successful:

        - bearer:       speed 9600 V110, name async, ce transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_OD_C 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_OD_C, L_SAT_RES_OPCH_CSD_OD_C)
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x00, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_OD_C)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_OD_C*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_OD_C)
ENDSTRUCT

/* Terminal response SAT open channel immediate CSD, non-transparent, on-demand, successful:

        - bearer:       speed 9600 V110, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_OD_D 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_OD_D, L_SAT_RES_OPCH_CSD_OD_D)
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x04, 0x01,
                0x47, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_OD_D)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_OD_D*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_OD_D)
ENDSTRUCT

/* Terminal response SAT open channel CSD, on-demand, default,  successful:

        - bearer:       speed 9600 V32, name async, ce non-transparent
        - buffer size:  1500
        - result:       command performed successfully
*/
SHORT L_SAT_RES_OPCH_CSD_OD_E 26
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_OD_E, L_SAT_RES_OPCH_CSD_OD_E)
                0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x04, 0x01,
                0x07, 0x00, 0x01, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_CSD_OD_E)
                SET_COMP ("l_cmd",          L_SAT_RES_OPCH_CSD_OD_E*8)
                SET_COMP ("o_cmd",          NUM_0000)
                SET_COMP ("cmd",            D_SAT_RES_OPCH_CSD_OD_E)
ENDSTRUCT
```

```
/* Terminal response SAT open channel GPRS, UDP, on-demand, successful:

        -   bearer:         rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size:    1500
        -   result:         command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_OD_F 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_OD_F, L_SAT_RES_OPCH_GPRS_OD_F)
            0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x07, 0x02,
            0x01, 0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_OD_F)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_GPRS_OD_F*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_GPRS_OD_F)
ENDSTRUCT

/* Terminal response SAT open channel GPRS, SNDCP, on-demand, successful:

        -   bearer:         rel.class 1, delay 2, preced. 2, peak 4, mean 7, IP
        -   buffer size:    1500
        -   result:         command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_OD_G 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_OD_G, L_SAT_RES_OPCH_GPRS_OD_G)
            0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x07, 0x02,
            0x01, 0x02, 0x02, 0x04, 0x07, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_OD_G)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_GPRS_OD_G*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_GPRS_OD_G)
ENDSTRUCT

/* Terminal response SAT open channel GPRS, default, on-demand, successful:

        -   bearer:         rel.class 0, delay 0, preced. 0, peak 0, mean 0, IP
        -   buffer size:    1500
        -   result:         command performed successfully
*/
SHORT L_SAT_RES_OPCH_GPRS_OD_H 29
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_OD_H, L_SAT_RES_OPCH_GPRS_OD_H)
            0x81, 0x03, 0x01, 0x40, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00, 0xB5, 0x07, 0x02,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xB9, 0x02, 0x05, 0xDC
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_GPRS_OD_H)
            SET_COMP ("l_cmd",          L_SAT_RES_OPCH_GPRS_OD_H*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_RES_OPCH_GPRS_OD_H)
ENDSTRUCT

/* Terminal response SAT open channel , beyond ME capabilities*/
SHORT L_SAT_RES_OPCH_ME_CAP 16
BEGINARRAY_PART (D_SAT_RES_OPCH_ME_CAP, L_SAT_RES_OPCH_ME_CAP)
            0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x30, 0xB8, 0x02, 0x01, 0x00
```

```
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_ME_CAP)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_ME_CAP*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_ME_CAP)
ENDSTRUCT

/* Terminal response SAT close channel CSD  successful */
SHORT L_SAT_RES_CLCH_CSD 16
BEGINARRAY_PART (D_SAT_RES_CLCH_CSD, L_SAT_RES_CLCH_CSD)
                0x81, 0x03, 0x01, 0x41, 0x00, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x00, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_CLCH_CSD)
                SET_COMP ("l_cmd",              L_SAT_RES_CLCH_CSD*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_CLCH_CSD)
ENDSTRUCT

/* Terminal response SAT open channel, BIP error, no channel */
SHORT L_SAT_RES_OPCH_BIP_ERR 17
BEGINARRAY_PART (D_SAT_RES_OPCH_BIP_ERR, L_SAT_RES_OPCH_BIP_ERR)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x3A, 0x01, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_RES_OPCH_BIP_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_BIP_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_BIP_ERR)
ENDSTRUCT

/* Terminal response SAT open channel, immediate, call not connected due to a network problem */
SHORT L_SAT_RES_OPCH_CSD_NTW_ERR 17
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_NTW_ERR, L_SAT_RES_OPCH_CSD_NTW_ERR)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0x91, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_CSD_NTW_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_NTW_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_NTW_ERR)
ENDSTRUCT

/* Terminal response SAT open channel, immediate, call not connected due to a network problem */
SHORT L_SAT_RES_OPCH_GPRS_NTW_ERR 17
BEGINARRAY_PART (D_SAT_RES_OPCH_GPRS_NTW_ERR, L_SAT_RES_OPCH_GPRS_NTW_ERR)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x02, 0x21, 0xA6, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_GPRS_NTW_ERR)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_GPRS_NTW_ERR*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_GPRS_NTW_ERR)
ENDSTRUCT

/* Terminal response SAT open channel immediate, call not connected due to user abort */
SHORT L_SAT_RES_OPCH_CSD_USR_ABT 16
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_USR_ABT, L_SAT_RES_OPCH_CSD_USR_ABT)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x23, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_CSD_USR_ABT)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_USR_ABT*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_USR_ABT)
ENDSTRUCT

/* Terminal response SAT open channel immediate, call not connected due to user abort, redial */
SHORT L_SAT_RES_OPCH_CSD_USR_ABT_2 16
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_USR_ABT_2, L_SAT_RES_OPCH_CSD_USR_ABT_2)
                0x81, 0x03, 0x01, 0x40, 0x03, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x23, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_CSD_USR_ABT_2)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_USR_ABT_2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_USR_ABT_2)
ENDSTRUCT

/* Terminal response SAT open channel immediate, call not connected due to general problem */
SHORT L_SAT_RES_OPCH_CSD_UAB_PRF 16
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_UAB_PRF, L_SAT_RES_OPCH_CSD_UAB_PRF)
                0x81, 0x03, 0x01, 0x40, 0x01, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x20, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_CSD_UAB_PRF)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_UAB_PRF*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_UAB_PRF)
ENDSTRUCT

/* Terminal response SAT open channel immediate, call not connected due to general problem, redial */
SHORT L_SAT_RES_OPCH_CSD_UAB_PRF_2 16
BEGINARRAY_PART (D_SAT_RES_OPCH_CSD_UAB_PRF_2, L_SAT_RES_OPCH_CSD_UAB_PRF_2)
                0x81, 0x03, 0x01, 0x40, 0x03, 0x82, 0x02, 0x82, 0x81, 0x83, 0x01, 0x20, 0xB8, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_RES_OPCH_CSD_UAB_PRF_2)
                SET_COMP ("l_cmd",              L_SAT_RES_OPCH_CSD_UAB_PRF_2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_RES_OPCH_CSD_UAB_PRF_2)
ENDSTRUCT




/*---------------------------------------- SS facilities ---------------------------------------- */
/* activate CF Voice FIE */
SHORT L_FAC_KSD_CF_ACT_V 16
BEGINARRAY_PART (D_FAC_KSD_CF_ACT_V, L_FAC_KSD_CF_ACT_V)
                0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x20, 0x82, 0x01, 0x68
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_CF_ACT_V)
                SET_COMP ("l_fac",              L_FAC_KSD_CF_ACT_V*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_KSD_CF_ACT_V)
ENDSTRUCT

/* result activate CF Voice FIE */
SHORT L_FAC_KSD_CF_ACT_RES 205
```

```
BEGINARRAY_PART (D_FAC_KSD_CF_ACT_RES, L_FAC_KSD_CF_ACT_RES)
                0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x0C, 0xA0, 0x80, 0x04, 0x01, 0x20, 0x30, 0x80, 0x30, 0x22,
                0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09,
                0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01,
                0x68, 0x84, 0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21,
                0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84,
                0x01, 0x07, 0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65,
                0x87, 0x90, 0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07,
                0x85, 0x09, 0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90,
                0x21, 0x43, 0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x30, 0x22, 0x82, 0x01, 0x68, 0x84, 0x01, 0x07, 0x85, 0x09,
                0x81, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43, 0x65, 0x88, 0x09, 0x88, 0x21, 0x43, 0x65, 0x87, 0x90, 0x21, 0x43,
                0x65, 0x86, 0x01, 0x00, 0x87, 0x01, 0x05, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_CF_ACT_RES)
                SET_COMP ("l_fac",              L_FAC_KSD_CF_ACT_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_KSD_CF_ACT_RES)
ENDSTRUCT

/* ussd out  FIE */
SHORT L_FAC_USSD 20
BEGINARRAY_PART (D_FAC_USSD, L_FAC_USSD)
                0xA1, 0x12, 0x02, 0x01, 0x00, 0x02, 0x01, 0x3B, 0x30, 0x0A, 0x04, 0x01, 0xF4, 0x04, 0x05, 0x41, 0x42, 0x43, 0x44,
                0x45
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_USSD)
                SET_COMP ("l_fac",              L_FAC_USSD*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_USSD)
ENDSTRUCT

/* process unstructured SS request result  FIE */
SHORT L_FAC_USSD_PROC_RES 40
BEGINARRAY_PART (D_FAC_USSD_PROC_RES, L_FAC_USSD_PROC_RES)
                0xA2, 0x26, 0x02, 0x01, 0x00, 0x30, 0x24, 0x02, 0x01, 0x3B, 0x30, 0x1C, 0x04, 0x01, 0xA5, 0x04, 0x17, 0x61, 0xF1,
                0x98, 0x5C, 0x36, 0x9F, 0xD1, 0x69, 0xF5, 0x9A, 0xDD, 0x76, 0xBF, 0xE1, 0x71, 0xF9, 0x9C, 0x5E, 0xB7, 0xDF,
                0xF1, 0x79, 0x3D
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_USSD_PROC_RES)
                SET_COMP ("l_fac",              L_FAC_USSD_PROC_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_USSD_PROC_RES)
ENDSTRUCT

/* deactivate all CB out  FIE */
SHORT L_FAC_KSD_ALLOUT_DEACT 16
BEGINARRAY_PART (D_FAC_KSD_ALLOUT_DEACT, L_FAC_KSD_ALLOUT_DEACT)
                0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x91, 0x83, 0x01, 0x60
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLOUT_DEACT)
                SET_COMP ("l_fac",              L_FAC_KSD_ALLOUT_DEACT*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_KSD_ALLOUT_DEACT)
ENDSTRUCT

/* activate unconditional call forwarding FTA 27.22.4.11 */
```

```
SHORT L_SEND_SS_CFWRD_ACT 26
BEGINARRAY_PART (D_SEND_SS_CFWRD_ACT, L_SEND_SS_CFWRD_ACT)
        0xA1, 0x18, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x10, 0x04, 0x01, 0x21, 0x84, 0x0B, 0x91, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", SEND_SS_CFWRD_ACT)
        SET_COMP ("l_fac",      L_SEND_SS_CFWRD_ACT *8)
        SET_COMP ("o_fac",      NUM_0000)
        SET_COMP ("fac",        D_SEND_SS_CFWRD_ACT)
ENDSTRUCT

SHORT L_SEND_SS_CFWRD_ACT2 26
BEGINARRAY_PART (D_SEND_SS_CFWRD_ACT2, L_SEND_SS_CFWRD_ACT2)
        0xA1, 0x18, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x10, 0x04, 0x01, 0x21, 0x84, 0x0B, 0x91, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", SEND_SS_CFWRD_ACT2)
        SET_COMP ("l_fac",      L_SEND_SS_CFWRD_ACT2 *8)
        SET_COMP ("o_fac",      NUM_0000)
        SET_COMP ("fac",        D_SEND_SS_CFWRD_ACT2)
ENDSTRUCT

/* interrogate CFNRy FIE */
SHORT L_FAC_KSD_CFNRY_IRGT 13
BEGINARRAY_PART (D_FAC_KSD_CFNRY_IRGT, L_FAC_KSD_CFNRY_IRGT)
        0xA1, 0x0B, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x03, 0x04, 0x01, 0x2A
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_CFNRY_IRGT)
        SET_COMP ("l_fac",      L_FAC_KSD_CFNRY_IRGT*8)
        SET_COMP ("o_fac",      NUM_0000)
        SET_COMP ("fac",        D_FAC_KSD_CFNRY_IRGT)
ENDSTRUCT

/* result deactivate all CB out  FIE */
SHORT L_FAC_KSD_ALLOUT_DEACT_RES 21
BEGINARRAY_PART (D_FAC_KSD_ALLOUT_DEACT_RES, L_FAC_KSD_ALLOUT_DEACT_RES)
        0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x0C, 0x02, 0x01, 0x0D, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03, 0x83, 0x01, 0x60,
        0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLOUT_DEACT_RES)
        SET_COMP ("l_fac",      L_FAC_KSD_ALLOUT_DEACT_RES*8)
        SET_COMP ("o_fac",      NUM_0000)
        SET_COMP ("fac",        D_FAC_KSD_ALLOUT_DEACT_RES)
ENDSTRUCT

/* result activate unconditional call forwarding FIE */
SHORT L_SEND_SS_CFWRD_RES 28
BEGINARRAY_PART (D_SEND_SS_CFWRD_RES, L_SEND_SS_CFWRD_RES)
        0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x0A, 0xA0, 0x80, 0x04, 0x01, 0x21, 0x30, 0x05, 0x30, 0x03, 0x84, 0x01, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", SEND_SS_CFWRD_RES)
        SET_COMP ("l_fac",      L_SEND_SS_CFWRD_RES*8)
        SET_COMP ("o_fac",      NUM_0000)
        SET_COMP ("fac",        D_SEND_SS_CFWRD_RES)
ENDSTRUCT

/* result activate unconditional call forwarding FIE */
SHORT L_SEND_SS_CFWRD_RES2 38
```

```
BEGINARRAY_PART (D_SEND_SS_CFWRD_RES2, L_SEND_SS_CFWRD_RES2)
0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x0A, 0xA0, 0x1A, 0x04, 0x01, 0x21, 0x30, 0x15, 0x30, 0x13, 0x83, 0x01, 0x00, 0x84, 0x01, 0x07, 0x84, 0x0B, 0x91, 0x10, 0x32, 0x54, 0x76, 0x98, 0x10, 0x32, 0x54, 0x76, 0x98
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", SEND_SS_CFWRD_RES2)
        SET_COMP ("l_fac",          L_SEND_SS_CFWRD_RES2*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_SEND_SS_CFWRD_RES2)
ENDSTRUCT

/* result interrogate CFNRy  FIE */
SHORT L_FAC_KSD_CFNRY_IRGT_RES 21
BEGINARRAY_PART (D_FAC_KSD_CFNRY_IRGT_RES, L_FAC_KSD_CFNRY_IRGT_RES)
        0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x0C, 0x02, 0x01, 0x0E, 0xA1, 0x07, 0x30, 0x05, 0x30, 0x03, 0x83, 0x01, 0x60,
        0x00, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_CFNRY_IRGT_RES)
        SET_COMP ("l_fac",          L_FAC_KSD_CFNRY_IRGT_RES*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_KSD_CFNRY_IRGT_RES)
ENDSTRUCT

/* password CB all  FIE */
SHORT L_FAC_KSD_ALLCB_PWD 11
BEGINARRAY_PART (D_FAC_KSD_ALLCB_PWD,L_FAC_KSD_ALLCB_PWD)
        0xA1, 0x09, 0x02, 0x01, 0x00, 0x02, 0x01, 0x11,  0x04, 0x01, 0x90
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLCB_PWD)
        SET_COMP ("l_fac",          L_FAC_KSD_ALLCB_PWD*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_KSD_ALLCB_PWD)
ENDSTRUCT

/* result register PWD FIE */
SHORT L_FAC_CPWD_ALLCB_RES 20
BEGINARRAY_PART (D_FAC_CPWD_ALLCB_RES, L_FAC_CPWD_ALLCB_RES)
        0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x11, 0x12, 0x04, 0x31, 0x32, 0x33, 0x34, 0x00, 0x00, 0x00,
        0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_CPWD_ALLCB_RES)
        SET_COMP ("l_fac",          L_FAC_CPWD_ALLCB_RES*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_CPWD_ALLCB_RES)
ENDSTRUCT

/* error result deactivate all CB out FIE */
SHORT L_FAC_KSD_ALLOUT_DEACT_ERR 8
BEGINARRAY_PART (D_FAC_KSD_ALLOUT_DEACT_ERR, L_FAC_KSD_ALLOUT_DEACT_ERR)
        0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x13
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLOUT_DEACT_ERR)
        SET_COMP ("l_fac",          L_FAC_KSD_ALLOUT_DEACT_ERR*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_KSD_ALLOUT_DEACT_ERR)
ENDSTRUCT

/* error result ussd */
```

```
SHORT L_FAC_USSD_PROC_RES_ERR 8
BEGINARRAY_PART (D_FAC_USSD_PROC_RES_ERR, L_FAC_USSD_PROC_RES_ERR)
        0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x22
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_USSD_PROC_RES_ERR)
        SET_COMP ("l_fac",          L_FAC_USSD_PROC_RES_ERR*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_USSD_PROC_RES_ERR)
ENDSTRUCT

/* error result deactivate all CB out FIE */
SHORT L_FAC_KSD_ALLCB_PWD_ERR 8
BEGINARRAY_PART (D_FAC_KSD_ALLCB_PWD_ERR, L_FAC_KSD_ALLCB_PWD_ERR)
        0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x13
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLCB_PWD_ERR)
        SET_COMP ("l_fac",          L_FAC_KSD_ALLCB_PWD_ERR*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_KSD_ALLCB_PWD_ERR)
ENDSTRUCT

/* reject result deactivate all CB out FIE */
SHORT L_FAC_KSD_ALLOUT_DEACT_REJ 8
BEGINARRAY_PART (D_FAC_KSD_ALLOUT_DEACT_REJ, L_FAC_KSD_ALLOUT_DEACT_REJ)
        0xA4, 0x06, 0x02, 0x01, 0x00, 0x81, 0x01, 0x03
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_KSD_ALLOUT_DEACT_REJ)
        SET_COMP ("l_fac",          L_FAC_KSD_ALLOUT_DEACT_REJ*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_KSD_ALLOUT_DEACT_REJ)
ENDSTRUCT

/* reject result deactivate all CB out FIE */
SHORT L_FAC_USSD_PROC_RES_REJ 8
BEGINARRAY_PART (D_FAC_USSD_PROC_RES_REJ, L_FAC_USSD_PROC_RES_REJ)
        0xA4, 0x06, 0x02, 0x01, 0x00, 0x81, 0x01, 0x03
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_USSD_PROC_RES_REJ)
        SET_COMP ("l_fac",          L_FAC_USSD_PROC_RES_REJ*8)
        SET_COMP ("o_fac",          NUM_0000)
        SET_COMP ("fac",            D_FAC_USSD_PROC_RES_REJ)
ENDSTRUCT

/* empty FIE */
BEGIN_PSTRUCT ("fac_inf", FAC_USSD_EMPTY)
        SET_COMP ("l_fac",          NUM_0000)
        SET_COMP ("o_fac",          NUM_0000)
        SKIP_COMP ("fac")
ENDSTRUCT

/* invoke build MPTY FIE */
SHORT L_FAC_BUILD_MPTY 8
BEGINARRAY_PART (D_FAC_BUILD_MPTY, L_FAC_BUILD_MPTY)
        0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7C
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_BUILD_MPTY)
```

```
                SET_COMP ("l_fac",              L_FAC_BUILD_MPTY*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_BUILD_MPTY)
ENDSTRUCT

/* invoke split MPTY FIE */
SHORT L_FAC_SPLIT_MPTY 8
BEGINARRAY_PART (D_FAC_SPLIT_MPTY, L_FAC_SPLIT_MPTY)
                0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x79
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_SPLIT_MPTY)
                SET_COMP ("l_fac",              L_FAC_SPLIT_MPTY*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_SPLIT_MPTY)
ENDSTRUCT

/* invoke hold MPTY FIE */
SHORT L_FAC_HOLD_MPTY 8
BEGINARRAY_PART (D_FAC_HOLD_MPTY, L_FAC_HOLD_MPTY)
                0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x7B
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_HOLD_MPTY)
                SET_COMP ("l_fac",              L_FAC_HOLD_MPTY*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_HOLD_MPTY)
ENDSTRUCT

/* invoke retrieve MPTY FIE */
SHORT L_FAC_RETRIEVE_MPTY 8
BEGINARRAY (D_FAC_RETRIEVE_MPTY, L_FAC_RETRIEVE_MPTY)
                0xA1, 0x06, 0x02, 0x01, 0x02, 0x02, 0x01, 0x7A ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_RETRIEVE_MPTY)
                SET_COMP ("l_fac",              L_FAC_RETRIEVE_MPTY*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_RETRIEVE_MPTY)
ENDSTRUCT

/* result build MPTY FIE */
SHORT L_FAC_BUILD_MPTY_RES 5
BEGINARRAY_PART (D_FAC_BUILD_MPTY_RES, L_FAC_BUILD_MPTY_RES)
                0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_BUILD_MPTY_RES)
                SET_COMP ("l_fac",              L_FAC_BUILD_MPTY_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_BUILD_MPTY_RES)
ENDSTRUCT

/* result split MPTY FIE */
SHORT L_FAC_SPLIT_MPTY_RES 5
BEGINARRAY_PART (D_FAC_SPLIT_MPTY_RES, L_FAC_SPLIT_MPTY_RES)
                0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_SPLIT_MPTY_RES)
                SET_COMP ("l_fac",              L_FAC_SPLIT_MPTY_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
```

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

/* result hold MPTY FIE */
SHORT L_FAC_HOLD_MPTY_RES 5
BEGINARRAY_PART (D_FAC_HOLD_MPTY_RES, L_FAC_HOLD_MPTY_RES)
                0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_HOLD_MPTY_RES)
                SET_COMP ("l_fac",              L_FAC_HOLD_MPTY_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_HOLD_MPTY_RES)
ENDSTRUCT

/* result retrieve MPTY FIE */
SHORT L_FAC_RETRIEVE_MPTY_RES 5
BEGINARRAY_PART (D_FAC_RETRIEVE_MPTY_RES, L_FAC_RETRIEVE_MPTY_RES)
                0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY
BEGIN_PSTRUCT ("fac_inf", FAC_RETRIEVE_MPTY_RES)
                SET_COMP ("l_fac",              L_FAC_RETRIEVE_MPTY_RES*8)
                SET_COMP ("o_fac",              NUM_0000)
                SET_COMP ("fac",                D_FAC_RETRIEVE_MPTY_RES)
ENDSTRUCT

/* ---------------------------------- Send SM ------------------------------- */

/* SAT command 13.1, GSM 11.10-4, DCS: 8-bit data */
SHORT L_SAT_CMD_SSM_1 57
BEGINARRAY_PART (D_SAT_CMD_SSM_1, L_SAT_CMD_SSM_1)
                0xD0, 0x37, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x07, 0x53, 0x65, 0x6E, 0x64, 0x20, 0x53,
                0x4D, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x18, 0x01, 0x00, 0x09, 0x91, 0x10,
                0x32, 0x54, 0x76, 0xF8, 0x40, 0xF4, 0x0C, 0x54, 0x65, 0x73, 0x74, 0x20, 0x4D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_1)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_1*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_1)
ENDSTRUCT

/* SAT command for Issue ACI-SPR-5709 (SMS Reminder) */
SHORT L_SAT_CMD_SSM_REM 82
BEGINARRAY_PART (D_SAT_CMD_SSM_REM, L_SAT_CMD_SSM_REM)
                0xD0 , 0x50 , 0x81 , 0x03 , 0x01 , 0x13 , 0x00 , 0x82 , 0x02 , 0x81 , 0x83 , 0x06 , 0x06 , 0x91 , 0x56 , 0x89 , 0x45 ,
                0x00 , 0x02 , 0x8B , 0x3D , 0x11 , 0x00 , 0x04 , 0x81 , 0x88 , 0x88 , 0x00 , 0x04 , 0xA7 , 0x33 , 0x00 , 0x98 , 0x56 ,
                0x50 , 0x00 , 0x01 , 0x01 , 0x52 , 0x95 , 0x42 , 0xFF , 0x00 , 0x66 , 0x1E , 0x00 , 0x00 , 0x00 , 0x00 , 0x00 , 0x00 ,
                0x32 , 0x00 , 0x35 , 0x00 , 0x30 , 0x00 , 0x33 , 0x00 , 0x32 , 0x00 , 0x30 , 0x00 , 0x30 , 0x00 , 0x32 , 0x80 , 0x00 ,
                0x31 , 0x00 , 0x32 , 0x00 , 0x30 , 0x00 , 0x30 , 0x80 , 0x54 , 0x65 , 0x73 , 0x74 , 0x80 , 0x2D
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_REM)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_REM*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_REM)
ENDSTRUCT

/* SAT command 13.2, GSM 11.10-4, DCS: 8-bit data*/
```

```
SHORT L_SAT_CMD_SSM_2 52
BEGINARRAY_PART (D_SAT_CMD_SSM_2, L_SAT_CMD_SSM_2)
        0xD0, 0x32, 0x81, 0x03, 0x01, 0x13, 0x01, 0x82, 0x02, 0x81, 0x83, 0x85, 0x07, 0x53, 0x65, 0x6E, 0x64, 0x20, 0x53,
        0x4D, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x13, 0x01, 0x00, 0x09, 0x91, 0x10,
        0x32, 0x54, 0x76, 0xF8, 0x40, 0xF4, 0x07, 0x53, 0x65, 0x6E, 0x64, 0x20, 0x53, 0x4D
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_2)
        SET_COMP ("l_cmd",          L_SAT_CMD_SSM_2*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_CMD_SSM_2)
ENDSTRUCT

SHORT L_SAT_CMD_SSM_2A 52 /* DCS: SMS default alphabet */
BEGINARRAY_PART (D_SAT_CMD_SSM_2A, L_SAT_CMD_SSM_2A)
        0xD0, 0x32, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x07, 0x53, 0x65, 0x6E, 0x64, 0x20, 0x53,
        0x4D, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x13, 0x01, 0x00, 0x09, 0x91, 0x10,
        0x32, 0x54, 0x76, 0xF8, 0x40, 0xF0, 0x07, 0xD3, 0xB2, 0x9B, 0x0C, 0x9A, 0x36, 0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_2A)
        SET_COMP ("l_cmd",          L_SAT_CMD_SSM_2A*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_CMD_SSM_2A)
ENDSTRUCT

/* SAT command 13.3, GSM 11.10-4, DCS: SMS default alphabet*/
SHORT L_SAT_CMD_SSM_3 63
BEGINARRAY_PART (D_SAT_CMD_SSM_3, L_SAT_CMD_SSM_3)
        0xD0, 0x3D, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x0D, 0x53, 0x68, 0x6F, 0x72, 0x74, 0x20,
        0x4D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B,
        0x18, 0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8, 0x40, 0xF0, 0x0D, 0x53, 0xF4, 0x5B, 0x4E, 0x07, 0x35,
        0xCB, 0xF3, 0x79, 0xF8, 0x5C, 0x06
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_3)
        SET_COMP ("l_cmd",          L_SAT_CMD_SSM_3*8)
        SET_COMP ("o_cmd",          NUM_0000)
        SET_COMP ("cmd",            D_SAT_CMD_SSM_3)
ENDSTRUCT


/* SAT command 13.4, GSM 11.10-4, DCS: 8-bit data */
SHORT L_SAT_CMD_SSM_4 256
BEGINARRAY_PART (D_SAT_CMD_SSM_4, L_SAT_CMD_SSM_4)
        0xD0, 0x81, 0xFD, 0x81, 0x03, 0x01, 0x13, 0x01, 0x82, 0x02, 0x81, 0x83, 0x85, 0x38, 0x54, 0x68, 0x65, 0x20, 0x61,
        0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x20, 0x64, 0x61, 0x74, 0x61, 0x20, 0x6F, 0x62, 0x6A, 0x65, 0x63, 0x74, 0x20,
        0x68, 0x6F, 0x6C, 0x64, 0x73, 0x20, 0x74, 0x68, 0x65, 0x20, 0x52, 0x50, 0x5F, 0x44, 0x65, 0x73, 0x74, 0x69, 0x6E,
        0x61, 0x74, 0x69, 0x6F, 0x6E, 0x5F, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33,
        0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x81, 0xAC, 0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8, 0x40, 0xF4,
        0xA0, 0x54, 0x77, 0x6F, 0x20, 0x74, 0x79, 0x70, 0x65, 0x73, 0x20, 0x61, 0x72, 0x65, 0x20, 0x64, 0x65, 0x66, 0x69,
        0x6E, 0x65, 0x64, 0x3A, 0x20, 0x2D, 0x20, 0x41, 0x20, 0x73, 0x68, 0x6F, 0x72, 0x74, 0x20, 0x6D, 0x65, 0x73, 0x73,
        0x61, 0x67, 0x65, 0x20, 0x74, 0x6F, 0x20, 0x62, 0x65, 0x20, 0x73, 0x65, 0x6E, 0x74, 0x20, 0x74, 0x6F, 0x20, 0x74,
        0x68, 0x65, 0x20, 0x6E, 0x65, 0x74, 0x77, 0x6F, 0x72, 0x6B, 0x20, 0x69, 0x6E, 0x20, 0x61, 0x6E, 0x20, 0x53, 0x4D,
        0x53, 0x2D, 0x53, 0x55, 0x42, 0x4D, 0x49, 0x54, 0x20, 0x6D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x2C, 0x20,
        0x6F, 0x72, 0x20, 0x61, 0x6E, 0x20, 0x53, 0x4D, 0x53, 0x2D, 0x43, 0x4F, 0x4D, 0x4D, 0x41, 0x4E, 0x44, 0x20,
        0x6D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x2C, 0x20, 0x77, 0x68, 0x65, 0x72, 0x65, 0x20, 0x74, 0x68, 0x65, 0x20,
        0x75, 0x73, 0x65, 0x72, 0x20, 0x64, 0x61, 0x74, 0x61, 0x20, 0x63, 0x61, 0x6E, 0x20, 0x62, 0x65, 0x20, 0x70, 0x61,
        0x73, 0x73, 0x65, 0x64, 0x20, 0x74, 0x72, 0x61, 0x6E, 0x73, 0x70
```

```
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_4)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_4*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_4)
ENDSTRUCT

/* SAT command 13.4 (ASPECTS 2.5.3), GSM 11.10-4, DCS: SMS default alphabet */
SHORT L_SAT_CMD_SSM_4A 236
BEGINARRAY_PART (D_SAT_CMD_SSM_4A, L_SAT_CMD_SSM_4A)
                0xD0, 0x81, 0xE9, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x38, 0x54, 0x68, 0x65, 0x20, 0x61,
                0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x20, 0x64, 0x61, 0x74, 0x61, 0x20, 0x6F, 0x62, 0x6A, 0x65, 0x63, 0x74, 0x20,
                0x68, 0x6F, 0x6C, 0x64, 0x73, 0x20, 0x74, 0x68, 0x65, 0x20, 0x52, 0x50, 0x5F, 0x44, 0x65, 0x73, 0x74, 0x69, 0x6E,
                0x61, 0x74, 0x69, 0x6F, 0x6E, 0x5F, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33,
                0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x81, 0xAC, 0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8, 0x40, 0xF0,
                0xA0, 0xD4, 0xFB, 0x1B, 0x44, 0xCF, 0xC3, 0xCB, 0x73, 0x50, 0x58, 0x5E, 0x06, 0x91, 0xCB, 0xE6, 0xB4, 0xBB,
                0x4C, 0xD6, 0x81, 0x5A, 0xA0, 0x20, 0x68, 0x8E, 0x7E, 0xCB, 0xE9, 0xA0, 0x76, 0x79, 0x3E, 0x0F, 0x9F, 0xCB,
                0x20, 0xFA, 0x1B, 0x24, 0x2E, 0x83, 0xE6, 0x65, 0x37, 0x1D, 0x44, 0x7F, 0x83, 0xE8, 0xE8, 0x32, 0xC8, 0x5D,
                0xA6, 0xDF, 0xDF, 0xF2, 0x35, 0x28, 0xED, 0x06, 0x85, 0xDD, 0xA0, 0x69, 0x73, 0xDA, 0x9A, 0x56, 0x85, 0xCD,
                0x24, 0x15, 0xD4, 0x2E, 0xCF, 0xE7, 0xE1, 0x73, 0x99, 0x05, 0x7A, 0xCB, 0x41, 0x61, 0x37, 0x68, 0xDA, 0x9C,
                0xB6, 0x86, 0xCF, 0x66, 0x33, 0xE8, 0x24, 0x82, 0xDA, 0xE5, 0xF9, 0x3C, 0x7C, 0x2E, 0xB3, 0x40, 0x77, 0x74,
                0x59, 0x5E, 0x06, 0xD1, 0xD1, 0x65, 0x50, 0x7D, 0x5E, 0x96, 0x83, 0xC8, 0x61, 0x7A, 0x18, 0x34, 0x0E, 0xBB,
                0x41, 0xE2, 0x32, 0x08, 0x1E, 0x9E, 0xCF, 0xCB, 0x64, 0x10, 0x5D, 0x1E, 0x76, 0xCF, 0xE1
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_4A)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_4A*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_4A)
ENDSTRUCT

/* SAT command 13.5, GSM 11.10-4, DCS: SMS default alphabet */
SHORT L_SAT_CMD_SSM_5 236
BEGINARRAY_PART (D_SAT_CMD_SSM_5, L_SAT_CMD_SSM_5)
0xD0, 0x81, 0xE9, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x38, 0x54, 0x68, 0x65, 0x20, 0x61, 0x64, 0x64,
0x72, 0x65, 0x73, 0x73, 0x20, 0x64, 0x61, 0x74, 0x61, 0x20, 0x6F, 0x62, 0x6A, 0x65, 0x63, 0x74, 0x20, 0x68, 0x6F, 0x6C, 0x64,
0x73, 0x20, 0x74, 0x68, 0x65, 0x20, 0x52, 0x50, 0x5F, 0x44, 0x65, 0x73, 0x74, 0x69, 0x6E, 0x61, 0x74, 0x69, 0x6F, 0x6E, 0x5F,
0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x81, 0xAC,
0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8, 0x40, 0xF0, 0xA0, 0xD4, 0xFB, 0x1B, 0x44, 0xCF, 0xC3, 0xCB, 0x73, 0x50,
0x58, 0x5E, 0x06, 0x91, 0xCB, 0xE6, 0xB4, 0xBB, 0x4C, 0xD6, 0x81, 0x5A, 0xA0, 0x20, 0x68, 0x8E, 0x7E, 0xCB, 0xE9, 0xA0, 0x76,
0x79, 0x3E, 0x0F, 0x9F, 0xCB, 0x20, 0xFA, 0x1B, 0x24, 0x2E, 0x83, 0xE6, 0x65, 0x37, 0x1D, 0x44, 0x7F, 0x83, 0xE8, 0xE8, 0x32,
0xC8, 0x5D, 0xA6, 0xDF, 0xDF, 0xF2, 0x35, 0x28, 0xED, 0x06, 0x85, 0xDD, 0xA0, 0x69, 0x73, 0xDA, 0x9A, 0x56, 0x85, 0xCD,
0x24, 0x15, 0xD4, 0x2E, 0xCF, 0xE7, 0xE1, 0x73, 0x99, 0x05, 0x7A, 0xCB, 0x41, 0x61, 0x37, 0x68, 0xDA, 0x9C, 0xB6, 0x86, 0xCF,
0x66, 0x33, 0xE8, 0x24, 0x82, 0xDA, 0xE5, 0xF9, 0x3C, 0x7C, 0x2E, 0xB3, 0x40, 0x77, 0x74, 0x59, 0x5E, 0x06, 0xD1, 0xD1, 0x65,
0x50, 0x7D, 0x5E, 0x96, 0x83, 0xC8, 0x61, 0x7A, 0x18, 0x34, 0x0E, 0xBB, 0x41, 0xE2, 0x32, 0x08, 0x1E, 0x9E, 0xCF, 0xCB, 0x64,
0x10, 0x5D, 0x1E, 0x76, 0xCF, 0xE1
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_5)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_5*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_5)
ENDSTRUCT

/* SAT command 13.6, GSM 11.10-4, DCS: SMS default alphabet */
SHORT L_SAT_CMD_SSM_6 256
BEGINARRAY_PART (D_SAT_CMD_SSM_6, L_SAT_CMD_SSM_6) 0xD0, 0x81, 0xFD, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02,
                0x81, 0x83, 0x85, 0x81, 0xE6, 0x54, 0x77, 0x6F, 0x20, 0x74, 0x79, 0x70, 0x65, 0x73, 0x20, 0x61, 0x72, 0x65, 0x20,
```

```
                0x64, 0x65, 0x66, 0x69, 0x6E, 0x65, 0x64, 0x3A, 0x20, 0x2D, 0x20, 0x41, 0x20, 0x73, 0x68, 0x6F, 0x72, 0x74, 0x20,
                0x6D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x20, 0x74, 0x6F, 0x20, 0x62, 0x65, 0x20, 0x73, 0x65, 0x6E, 0x74, 0x20,
                0x74, 0x6F, 0x20, 0x74, 0x68, 0x65, 0x20, 0x6E, 0x65, 0x74, 0x77, 0x6F, 0x72, 0x6B, 0x20, 0x69, 0x6E, 0x20, 0x61,
                0x6E, 0x20, 0x53, 0x4D, 0x53, 0x2D, 0x53, 0x55, 0x42, 0x4D, 0x49, 0x54, 0x20, 0x6D, 0x65, 0x73, 0x73, 0x61,
                0x67, 0x65, 0x2C, 0x20, 0x6F, 0x72, 0x20, 0x61, 0x6E, 0x20, 0x53, 0x4D, 0x53, 0x2D, 0x43, 0x4F, 0x4D, 0x4D,
                0x41, 0x4E, 0x44, 0x20, 0x6D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x2C, 0x20, 0x77, 0x68, 0x65, 0x72, 0x65, 0x20,
                0x74, 0x68, 0x65, 0x20, 0x75, 0x73, 0x65, 0x72, 0x20, 0x64, 0x61, 0x74, 0x61, 0x20, 0x63, 0x61, 0x6E, 0x20, 0x62,
                0x65, 0x20, 0x70, 0x61, 0x73, 0x73, 0x65, 0x64, 0x20, 0x74, 0x72, 0x61, 0x6E, 0x73, 0x70, 0x61, 0x72, 0x65, 0x6E,
                0x74, 0x6C, 0x79, 0x3B, 0x20, 0x2D, 0x20, 0x41, 0x20, 0x73, 0x68, 0x6F, 0x72, 0x74, 0x20, 0x6D, 0x65, 0x73, 0x73,
                0x61, 0x67, 0x65, 0x20, 0x74, 0x6F, 0x20, 0x62, 0x65, 0x20, 0x73, 0x65, 0x6E, 0x74, 0x20, 0x74, 0x6F, 0x20, 0x74,
                0x68, 0x65, 0x20, 0x6E, 0x65, 0x74, 0x77, 0x6F, 0x72, 0x6B, 0x20, 0x69, 0x6E, 0x20, 0x61, 0x6E, 0x20, 0x53, 0x4D,
                0x53, 0x2D, 0x53, 0x55, 0x42, 0x4D, 0x49, 0x54, 0x20, 0x8B, 0x09, 0x01, 0x00, 0x02, 0x91, 0x10, 0x40, 0xF0, 0x01,
                0x20
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_6)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_6*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_6)
ENDSTRUCT

/* SAT command Send SM with UCS2 coding */
SHORT L_SAT_CMD_SSM_UCS2 57
BEGINARRAY (D_SAT_CMD_SSM_UCS2, L_SAT_CMD_SSM_UCS2)
                0xD0, 0x37, 0x81, 0x03, 0x01, 0x13, 0x00, 0x82, 0x02, 0x81, 0x83, 0x85, 0x07, 0x53, 0x65, 0x6E, 0x64, 0x20, 0x53,
                0x4D, 0x86, 0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x8B, 0x18, 0x01, 0x00, 0x09, 0x91, 0x10,
                0x32, 0x54, 0x76, 0xF8, 0x40, 0x08, 0x06, 0x00, 0x65, 0x00, 0x74, 0x00, 0x4D, 0x00, 0x73, 0x00, 0x61, 0x00, 0x65
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", SAT_CMD_SSM_UCS2)
                SET_COMP ("l_cmd",              L_SAT_CMD_SSM_UCS2*8)
                SET_COMP ("o_cmd",              NUM_0000)
                SET_COMP ("cmd",                D_SAT_CMD_SSM_UCS2)
ENDSTRUCT

/* Text Send SM 13.1, GSM 11.10-4 */
SHORT BITLEN_SSM_1 0x0110
BEGINARRAY (SSM_1_BUF, SIM_PDU_LEN)
                0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8,
                0x40, 0xF4, 0x0C, 0x54, 0x65, 0x73, 0x74, 0x20, 0x4D, 0x65, 0x73, 0x73, 0x61, 0x67, 0x65, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00 ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_SSM_1)
                SET_COMP ("l_buf",              BITLEN_SSM_1)
                SET_COMP ("o_buf",              0)
                SET_COMP ("buf",                SSM_1_BUF)
                ENDSTRUCT
/* Text Send SM for Issue ACI-SPR-5709 (SMS Reminder)*/
SHORT BITLEN_SSM_REM 0x0220
BEGINARRAY_PART (SSM_REM_BUF, 68)
                0x06 , 0x91 , 0x56 , 0x89 , 0x45 , 0x00 , 0x02,
```

```
                0x11 , 0x00 , 0x04 , 0x81 , 0x88 , 0x88 , 0x00, 0x04 , 0xA7 , 0x33,
                0x00 , 0x98 , 0x56 , 0x50 , 0x00 , 0x01 , 0x01 , 0x52 , 0x95 , 0x42 , 0xFF , 0x00 , 0x66 , 0x1E , 0x00 , 0x00 , 0x00 ,
                0x00 , 0x00 , 0x00 , 0x32 , 0x00 , 0x35 , 0x00 , 0x30 , 0x00 , 0x33 , 0x00 , 0x32 , 0x00 , 0x30 , 0x00 , 0x30 , 0x00 ,
                0x32 , 0x80 , 0x00 , 0x31 , 0x00 , 0x32 , 0x00 , 0x30 , 0x00 , 0x30 , 0x80 , 0x54 , 0x65 , 0x73 , 0x74 , 0x80 , 0x2D
                ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_SSM_REM)
                SET_COMP ("l_buf",          BITLEN_SSM_REM)
                SET_COMP ("o_buf",          0)
                SET_COMP ("buf",            SSM_REM_BUF)
                ENDSTRUCT

/* Text Send SM 13.2, GSM 11.10-4 */
SHORT BITLEN_SSM_2 0x00E8
BEGINARRAY (SSM_2_BUF, SIM_PDU_LEN)
                0x09, 0x91, 0x11, 0x22, 0x33, 0x44, 0x55, 0x66, 0x77, 0xF8, 0x01, 0x00, 0x09, 0x91, 0x10, 0x32, 0x54, 0x76, 0xF8,
                0x40, 0xF0, 0x07, 0xD3, 0xB2, 0x9B, 0x0C, 0x9A, 0x36, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
```

```
                0x40, 0xF0, 0xA0, 0xD4, 0xFB, 0x1B, 0x44, 0xCF, 0xC3, 0xCB, 0x73, 0x50, 0x58, 0x5E, 0x06, 0x91, 0xCB, 0xE6,
                0xB4, 0xBB, 0x4C, 0xD6, 0x81, 0x5A, 0xA0, 0x20, 0x68, 0x8E, 0x7E, 0xCB, 0xE9, 0xA0, 0x76, 0x79, 0x3E, 0x0F,
                0x9F, 0xCB, 0x20, 0xFA, 0x1B, 0x24, 0x2E, 0x83, 0xE6, 0x65, 0x37, 0x1D, 0x44, 0x7F, 0x83, 0xE8, 0xE8, 0x32,
                0xC8, 0x5D, 0xA6, 0xDF, 0xDF, 0xF2, 0x35, 0x28, 0xED, 0x06, 0x85, 0xDD, 0xA0, 0x69, 0x73, 0xDA, 0x9A, 0x56,
                0x85, 0xCD, 0x24, 0x15, 0xD4, 0x2E, 0xCF, 0xE7, 0xE1, 0x73, 0x99, 0x05, 0x7A, 0xCB, 0x41, 0x61, 0x37, 0x68,
                0xDA, 0x9C, 0xB6, 0x86, 0xCF, 0x66, 0x33, 0xE8, 0x24, 0x82, 0xDA, 0xE5, 0xF9, 0x3C, 0x7C, 0x2E, 0xB3, 0x40,
                0x77, 0x74, 0x59, 0x5E, 0x06, 0xD1, 0xD1, 0x65, 0x50, 0x7D, 0x5E, 0x96, 0x83, 0xC8, 0x61, 0x7A, 0x18, 0x34,
                0x0E, 0xBB, 0x41, 0xE2, 0x32, 0x08, 0x1E, 0x9E, 0xCF, 0xCB, 0x64, 0x10, 0x5D, 0x1E, 0x76, 0xCF, 0xE1, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00 ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_SSM_45)
                SET_COMP ("l_buf",              BITLEN_SSM_45)
                SET_COMP ("o_buf",              0)
                SET_COMP ("buf",                SSM_45_BUF)
                ENDSTRUCT

/* Text Send SM 13.6, GSM 11.10-4 */
SHORT BITLEN_SSM_6 0x0080
BEGINARRAY (SSM_6_BUF, SIM_PDU_LEN)
                0x06, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04, 0x01, 0x00, 0x02, 0x91, 0x10, 0x40, 0xF0, 0x01, 0x20, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
```

```
/* short messages data */
SHORT BITLEN_SM7_SPECIAL_SIGNS 272
BEGINARRAY(SMS_SDU_SM7_SPEC_BUF, SIM_PDU_LEN)
        0x04, 0x81, 0x21, 0x43, 0xF5, 0x01, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12, 0x40, 0xF2, 0x15, 0x02,
        0xC0, 0x37, 0xE1, 0x2F, 0xEC, 0xFF, 0x0F, 0xC2, 0x61, 0xEB, 0xE0, 0x23, 0x0C, 0x5C, 0x6F, 0x60,
        0xD0, 0x05, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_SM7_SPECIAL_SIGNS)
        SET_COMP ("l_buf",          BITLEN_SM7_SPECIAL_SIGNS)
        SET_COMP ("o_buf",          0)
        SET_COMP ("buf", SMS_SDU_SM7_SPEC_BUF)
ENDSTRUCT

BEGINARRAY (SMS_SDU_MO_CHANGE_BUF, 15)
                0x04, 0x81, 0x21, 0x43, 0xF5,
                SMS_SUBMIT,
                NOT_PRESENT_8BIT,
                0x00, 0x80,
                0x40, 0xF2,
                NUM_0
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_MO_CHANGE)
                SET_COMP ("l_buf", 120)
                SET_COMP ("o_buf", 0)
                SET_COMP ("buf", SMS_SDU_MO_CHANGE_BUF)
ENDSTRUCT

BEGINARRAY_PART (SMS_SDU_MO_CHANGE_BUF2, 17)
                0x06, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04, 0x01, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12, 0x40, 0xF2,
                0x00
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_MO_CHANGE2)
                SET_COMP ("l_buf", 136)
                SET_COMP ("o_buf", 0)
                SET_COMP ("buf", SMS_SDU_MO_CHANGE_BUF2)
ENDSTRUCT

BEGINARRAY_PART (SMS_SDU_MO_CHANGE_BUF3, 23)
                0x08, 0x81, 0x21, 0x43, 0x54, 0x87, 0x99, 0x78, 0x56,
                0x01, 0x00,
                0x0E, 0x81, 0x21, 0x43, 0x54, 0x87, 0x99, 0x78, 0x56,
                0x40, 0xF2,
                0x00
ENDARRAY
```

```
BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_MO_CHANGE3)
        SET_COMP ("l_buf", 184)
        SET_COMP ("o_buf", 0)
        SET_COMP ("buf", SMS_SDU_MO_CHANGE_BUF3)
ENDSTRUCT

BEGINARRAY_PART (SMS_SDU_MO_CHANGE_BUF4, 23)
        0x06, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04, 0x11, 0x00, 0x00, 0x80, 0x40, 0xF2,
        0x39, 0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_MO_CHANGE4)
        SET_COMP ("l_buf", 184)
        SET_COMP ("o_buf", 0)
        SET_COMP ("buf", SMS_SDU_MO_CHANGE_BUF4)
ENDSTRUCT

BEGINARRAY (SMS_SDU_MO_CONTENT_BUF, SIM_PDU_LEN)
    0x04, 0x81, 0x21, 0x43, 0xF5, 0x01, 0xFF, 0x06, 0x81, 0x56, 0x34, 0x12, 0x40, DCS_1, 0x09, 0x41,
    0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", SMS_SDU_MO_CONTENT)
    SET_COMP ("l_buf",      184)
    SET_COMP ("o_buf",      0)
    SET_COMP ("buf", SMS_SDU_MO_CONTENT_BUF)
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 FAX */
 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 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 transparent data 4800 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_4800_ASY_TRA)
                SET_COMP ("rate",                   UR_4_8_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

/* Structure bearer non-transparent data 9600, modem type none */
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

/* Structure bearer non-transparent data 9600, modem type V.32 */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_NON_TRA_V32)
        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

BEGINARRAY (SMS_SDU_MT_CONTENT_BUF, SIM_PDU_LEN)
        0x04, 0x81, 0x21, 0x43, 0xF5, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12, 0x40, DCS_1, 0x89, 0x10, 0x70,
        0x21, 0x43, 0x65, 0x40,0x09, 0x41,
        0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
```

```
BEGINARRAY(S_SIM_NAME, 6) 0x53,0x49, 0x4D, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_PPP_NAME, 6) 0x50,0x50, 0x50, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_L2R_NAME, 6) 0x4C,0x32, 0x52, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_TRA_NAME, 6) 0x4C,0x32, 0x52, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_SND_NAME, 6) 0x53,0x4E, 0x44, 0x00, 0x00, 0x00 ENDARRAY


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

/* 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

/* 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

/* 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 "*#61#" (SS check, No Reach)*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_SS)
                SET_COMP ("ton",                        TON_UNKNOWN)
                SET_COMP ("npi",                        NPI_UNKNOW)
                SET_COMP ("c_called_num",               LA_CLD_NUM_SS)
                SET_COMP ("called_num",                 A_CLD_NUM_SS)
ENDSTRUCT

/* called party address national modified*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_MDFY)
                SET_COMP ("ton",                        TON_UNKNOWN)
                SET_COMP ("npi",                        NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_called_num",               LA_CLD_NUM_MDFY)
                SET_COMP ("called_num",                 A_CLD_NUM_MDFY)
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

/* second called party address international*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_INT2)
            SET_COMP ("ton", TON_INT_NUMB)
            SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
            SET_COMP ("c_called_num",           LA_CLD_NUM_INT2)
            SET_COMP ("called_num",    A_CLD_NUM_INT2)
ENDSTRUCT

/* third called party address international*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_INT3)
                SET_COMP ("ton",                        TON_INT_NUMB)
                SET_COMP ("npi",                        NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_called_num",               LA_CLD_NUM_INT3)
                SET_COMP ("called_num",                 A_CLD_NUM_INT3)
ENDSTRUCT

/* called party address emergency*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_ECC)
                SET_COMP ("ton",                        TON_UNKNOWN)
                SET_COMP ("npi",                        NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_called_num",               LA_CLD_NUM_ECC)
                SET_COMP ("called_num",                 A_CLD_NUM_ECC)
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

/* calling party sub address modified */
 BEGIN_PSTRUCT ("called_party_sub", S_CLD_PARTY_SUB_MDFY)
                SET_COMP ("tos",                TOS_NSAP)
                SET_COMP ("odd_even",           OE_ODD)
                SET_COMP ("c_subaddr",          LA_CLD_SUB_MDFY)
                SET_COMP ("subaddr",            A_CLD_SUB_MDFY)
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

/* Protocol */
BEGINARRAY(S_PROTOCO, 6) 0x55,0x44, 0x50, 0x00, 0x00, 0x00 ENDARRAY

/* Protocol structure */
/*
BEGIN_PSTRUCT("protocol", S_S_PROTOCO)
        SET_COMP("tui", 0x0009 )
        SET_COMP("protocol_id", 0x0011 )
        SET_COMP("entity_name", S_PROTOCO )
ENDSTRUCT
*/
/*
BEGIN_STRUCT_ARRAY(S_PROTOCO_ARRAY, 1)
    S_S_PROTOCO
ENDARRAY
*/
BEGIN_PSTRUCT("smreg_qos", SMREG_QOS_1)
                SET_COMP("delay", NUM_2)
                SET_COMP("relclass", NUM_2)
                SET_COMP("peak", NUM_4)
                SET_COMP("preced", NUM_1)
                SET_COMP("mean", NUM_7)
ENDSTRUCT

BEGIN_PSTRUCT("smreg_qos", SMREG_QOS_DEF)
                SET_COMP("delay", NUM_0)
                SET_COMP("relclass", NUM_0)
                SET_COMP("peak", NUM_0)
                SET_COMP("preced", NUM_0)
                SET_COMP("mean", NUM_0)
ENDSTRUCT

BEGIN_PSTRUCT("smreg_qos", SMREG_QOS_MDFY)
```

```
                SET_COMP("delay", NUM_2)
                SET_COMP("relclass", NUM_2)
                SET_COMP("peak", NUM_4)
                SET_COMP("preced", NUM_1)
                SET_COMP("mean", NUM_9)
ENDSTRUCT

BEGINARRAY (SDU_ARRAY, 1)
                0x03
ENDARRAY

BEGIN_PSTRUCT("sdu", SDU)
                SET_COMP("l_buf", NUM_1)
                SET_COMP("o_buf", NUM_0)
                SET_COMP("buf", SDU_ARRAY)
ENDSTRUCT

BEGIN_PSTRUCT("sdu", SDU_SHOW)
                SHOW_COMP("l_buf")
                SHOW_COMP("o_buf")
                SHOW_COMP("buf")
ENDSTRUCT

BEGINARRAY (PDP_ADD_BUF_1, 4)
                0x09, 0x08, 0x07, 0x06
ENDARRAY

BEGIN_PSTRUCT("pdp_address", PDP_ADDRESS_1)
                SET_COMP("buff", PDP_ADD_BUF_1)
ENDSTRUCT

BEGINARRAY (ADD_BUF_DYN, 0)
                0xff
ENDARRAY

BEGIN_PSTRUCT("pdp_address", PDP_ADDRESS_DYN)
                SET_COMP ("buff", ADD_BUF_DYN)
ENDSTRUCT

BEGINARRAY (APN_BUF_1, 19) 0x04, 0x67, 0x70, 0x72, 0x73, 0x0A, 0x64, 0x31, 0x2D, 0x74, 0x65, 0x6c, 0x65, 0x63, 0x6f, 0x6d,
0x02, 0x64, 0x65
ENDARRAY

BEGIN_PSTRUCT("smreg_apn", SMREG_APN_1)
                SET_COMP("buffer", APN_BUF_1)
ENDSTRUCT

BEGINARRAY (APN_EMPTY, 0)
                0xff
ENDARRAY

BEGIN_PSTRUCT("smreg_apn", SMREG_APN_EMPTY)
                SET_COMP("buffer", APN_EMPTY)
ENDSTRUCT
```

```
/* empty FIE */
BEGIN_PSTRUCT ("fac_inf", A_FAC_EMPTY)
        SKIP_COMP ("l_fac")
        SKIP_COMP ("o_fac")
        SKIP_COMP ("fac")
ENDSTRUCT

/* FACILITY_NONE */
BEGIN_PSTRUCT ("fac_inf", FACILITY_NONE)
SET_COMP ("l_fac", 0)
SKIP_COMP ("o_fac")
SKIP_COMP ("fac")
ENDSTRUCT

/* SAT command Launch Browser A

        - browser identity:     default browser
        - url:                  www.msn.com
        - bearer:       CSD
        - provisioning file1:   path 3F007F206F38
        - provisioning file2:   path 1234567890
        - alpha identifier:     Allow wap call? : */
SHORT L_SAT_CMD_LAUNCH_BROW_A 62
BEGINARRAY_PART (D_SAT_CMD_LAUNCH_BROW_A, L_SAT_CMD_LAUNCH_BROW_A)
            0xD0, 0x3C,
            0x81, 0x03, 0x00, 0x15, 0x03, 0x82, 0x02, 0x81, 0x82, 0xB0, 0x01, 0x00, 0xB1, 0x0B, 0x77,
            0x77, 0x77, 0x2E, 0x6D, 0x73, 0x6E, 0x2E, 0x63, 0x6F, 0x6D, 0x32, 0x01, 0x01, 0xB3, 0x06,
            0x3F, 0x00, 0x7F, 0x20, 0x6F, 0x38, 0xB3, 0x05, 0x12, 0x34, 0x56, 0x78, 0x90, 0x05,
            0x0F, 0x41, 0x6C, 0x6C, 0x6F, 0x76, 0x20, 0x76,
            0x61, 0x70, 0x20, 0x63, 0x61, 0x6C, 0x6C, 0x3F

ENDARRAY
BEGIN_PSTRUCT ("stk_cmd",SAT_CMD_LAUNCH_BROW_A)
            SET_COMP ("l_cmd",          L_SAT_CMD_LAUNCH_BROW_A*8)
            SET_COMP ("o_cmd",          NUM_0000)
            SET_COMP ("cmd",            D_SAT_CMD_LAUNCH_BROW_A)
ENDSTRUCT
```

3 TEST CASES please use G23_SMI_GPRS_WAP.exe !!!!!!!!!

3.1 Routing (internal) (ACISAT001 - ACISAT010)

3.1.1 ACISAT001: Setup the Routing and the PCO view for the ACI SAT test

Description:

Routings for the ACI SAT tests are set.

Preamble:

None

```
     APL                          ACI                          PS
      |                            |                           |
COMMAND (TAP RESET)
COMMAND (CC RESET)
COMMAND (MM RESET)
COMMAND (SIM RESET)
COMMAND (SS RESET)
COMMAND (MMI RESET)
COMMAND (SMS RESET)
COMMAND (PL RESET)
COMMAND (T30 RESET)
COMMAND (L2R RESET)
COMMAND (RA RESET)
COMMAND (IP RESET)
COMMAND (UDP RESET)
COMMAND (PPP RESET)
COMMAND (GMM RESET)
COMMAND (SM RESET)
COMMAND (SND 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 (PL REDIRECT CLEAR)
COMMAND (RA REDIRECT CLEAR)
COMMAND (L2R REDIRECT CLEAR)
COMMAND (T30 REDIRECT CLEAR)
COMMAND (IP REDIRECT CLEAR)
COMMAND (UDP REDIRECT CLEAR)
COMMAND (PPP REDIRECT CLEAR)
COMMAND (GMM REDIRECT CLEAR)
COMMAND (SM REDIRECT CLEAR)
COMMAND (SND 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 PL TAP)
COMMAND (MMI REDIRECT T30 TAP)
COMMAND (MMI REDIRECT L2R TAP)
COMMAND (MMI REDIRECT RA TAP)
COMMAND (MMI REDIRECT IP TAP)
COMMAND (MMI REDIRECT UDP TAP)
COMMAND (MMI REDIRECT PPP TAP)
COMMAND (MMI REDIRECT GMM TAP)
COMMAND (MMI REDIRECT SM TAP)
COMMAND (MMI REDIRECT SND TAP)
COMMAND (PL REDIRECT MMI NULL)
      |                              |                              |
COMMAND (TAP REDIRECT TAP MMI)
COMMAND (MMI REDIRECT MMI TAP)
      |                              |                              |
```

Parametrization:

Primitive	Parameter	Value

History:	14.12.1998	AK	Initial
	20.10.2000	FK	Routing for PL to TAPadded
	24.05.2002	AK	Routing for Data and GPRS Entities added

3.2 Initialisation (ACISAT011 - ACISAT019)

3.2.1 ACISAT011: Power On

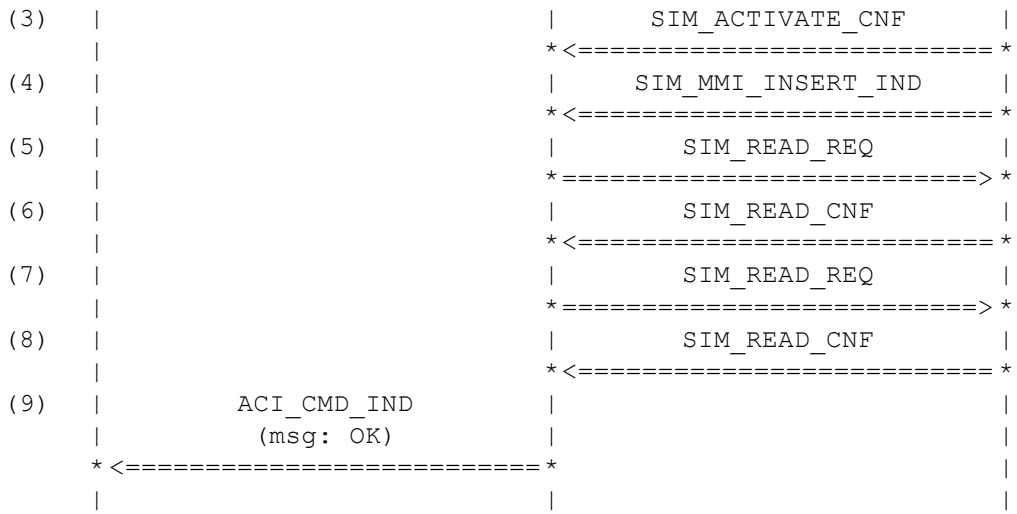
Description:

activate SIM card at power on, SIM indicates SAT features

Preamble:

ACISAT001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: %SATC=1)       |                            |
      *===========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<===========================*                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CFUN=1)       |                            |
      *===========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *===========================>*
```



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_ENA
	cmd_seq	C_PERCENT_SATC_ENA
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	F_STK_PRF
(5) 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
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_NO_CC
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

(7) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_ECC
length	NOT_PRESENT_8BIT
max_length	NUM_0

(8) SIM_READ_CNF

datafield	SIM_ECC
cause	SIM_NO_ERROR
length	NUM_12
trans_data	A_ECC_FIELD

(9) SIM_READ_REQ

source	SRC_MMI
offset	NOT_USED
datafield	SIM_AD
length	NOT_PRESENT_8BIT
max_length	NOT_USED

(10) SIM_READ_CNF

datafield	SIM_AD
cause	SIM_NO_ERROR
length	NOT_USED
trans_data	NOT_USED

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:			
	10.08.1998	AK	Initial
	20.10.2000	FK	Read EF(ECC) added

3.2.2 ACISAT012: Power On with various Terminal Profiles

Description:

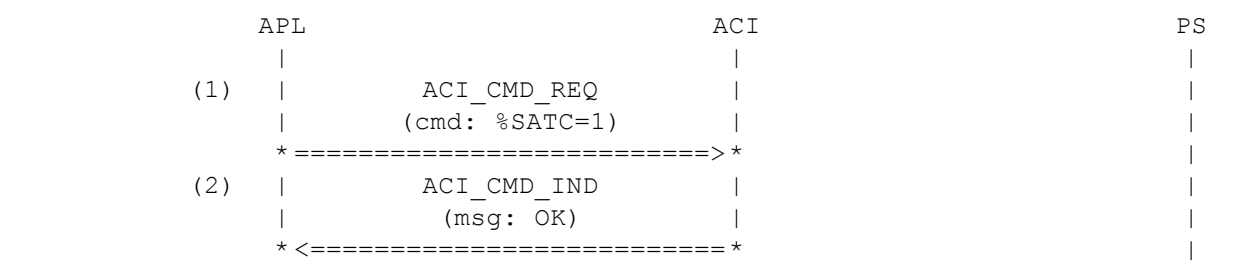
Configure various Terminal Profile and request SAT indications, then activate the SIM card. SIM indicates SAT features. The resulting Terminal Profile is a result of a filtering mechanism in ACI, deleting all flags for which no ACI support is existent, and setting flags which are supported by ACI alone.
This test is subject to further enhancements of the ACI.

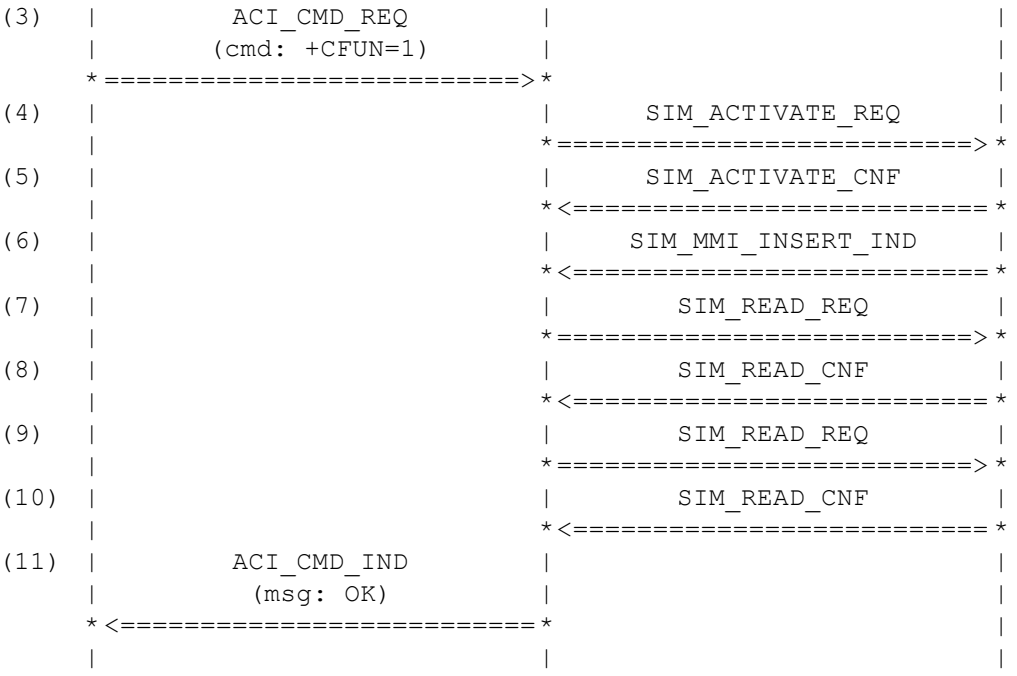
Variants**:**

<A>....<L>

Preamble:

ACISAT001





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PERCENT_SATC_1
<B>	cmd_len	LC_PERCENT_SATC_4
<C>	cmd_len	LC_PERCENT_SATC_12
<D>	cmd_len	LC_PERCENT_SATC_13
<E>	cmd_len	LC_PERCENT_SATC_4
<F>	cmd_len	LC_PERCENT_SATC_9
<G>	cmd_len	LC_PERCENT_SATC_4
<H>	cmd_len	LC_PERCENT_SATC_4
<I>	cmd_len	LC_PERCENT_SATC_4
<J>	cmd_len	LC_PERCENT_SATC_5
<K>	cmd_len	LC_PERCENT_SATC_9
<L>	cmd_len	LC_PERCENT_SATC_12
<A>	cmd_seq	C_PERCENT_SATC_ZERO_1
<B>	cmd_seq	C_PERCENT_SATC_ZERO_4
<C>	cmd_seq	C_PERCENT_SATC_ZERO_12
<D>	cmd_seq	C_PERCENT_SATC_ZERO_13
<E>	cmd_seq	C_PERCENT_SATC_CL2_MIN
<F>	cmd_seq	C_PERCENT_SATC_CL3_NORM
<G>	cmd_seq	C_PERCENT_SATC_CL3_NO_MMI
<H>	cmd_seq	C_PERCENT_SATC_CL2_MAX
<I>	cmd_seq	C_PERCENT_SATC_ALL_4
<J>	cmd_seq	C_PERCENT_SATC_ALL_5
<K>	cmd_seq	C_PERCENT_SATC_ALL_9
<L>	cmd_seq	C_PERCENT_SATC_ALL_12
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL

(4) SIM_ACTIVATE_REQ

	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
<A>	stk_pro_file	F_STK_PRF_CL3_MIN
<B>	stk_pro_file	F_STK_PRF_CL3_MIN
<C>	stk_pro_file	F_STK_PRF_CL3_MIN
<D>	stk_pro_file	F_STK_PRF_CL3_MIN
<E>	stk_pro_file	F_STK_PRF_CL3_MIN
<F>	stk_pro_file	F_STK_PRF_CL3_NORM
<G>	stk_pro_file	F_STK_PRF_CL3_NO_MMI
<H>	stk_pro_file	F_STK_PRF_CL2_MAX
<I>	stk_pro_file	F_STK_PRF_MAX_4
<J>	stk_pro_file	F_STK_PRF_MAX_5
<K>	stk_pro_file	F_STK_PRF_MAX_9
<L>	stk_pro_file	F_STK_PRF_MAX_12

(5) 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

(6) SIM_MMI_INSERT_IND

	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

(7) SIM_READ_REQ

	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0

(8) SIM_READ_CNF

	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD

(9) SIM_READ_REQ

	source	SRC_MMI
	offset	NOT_USED
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NOT_USED

(10) SIM_READ_CNF

datafield	SIM_AD
cause	SIM_NO_ERROR
length	NOT_USED
trans_data	NOT_USED

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	01.09.2000	FK	Initial
	20.10.2000	FK	Read EF(ECC) added

3.2.3 ACISAT013: Power On with various received SIM Service Tables

Description:

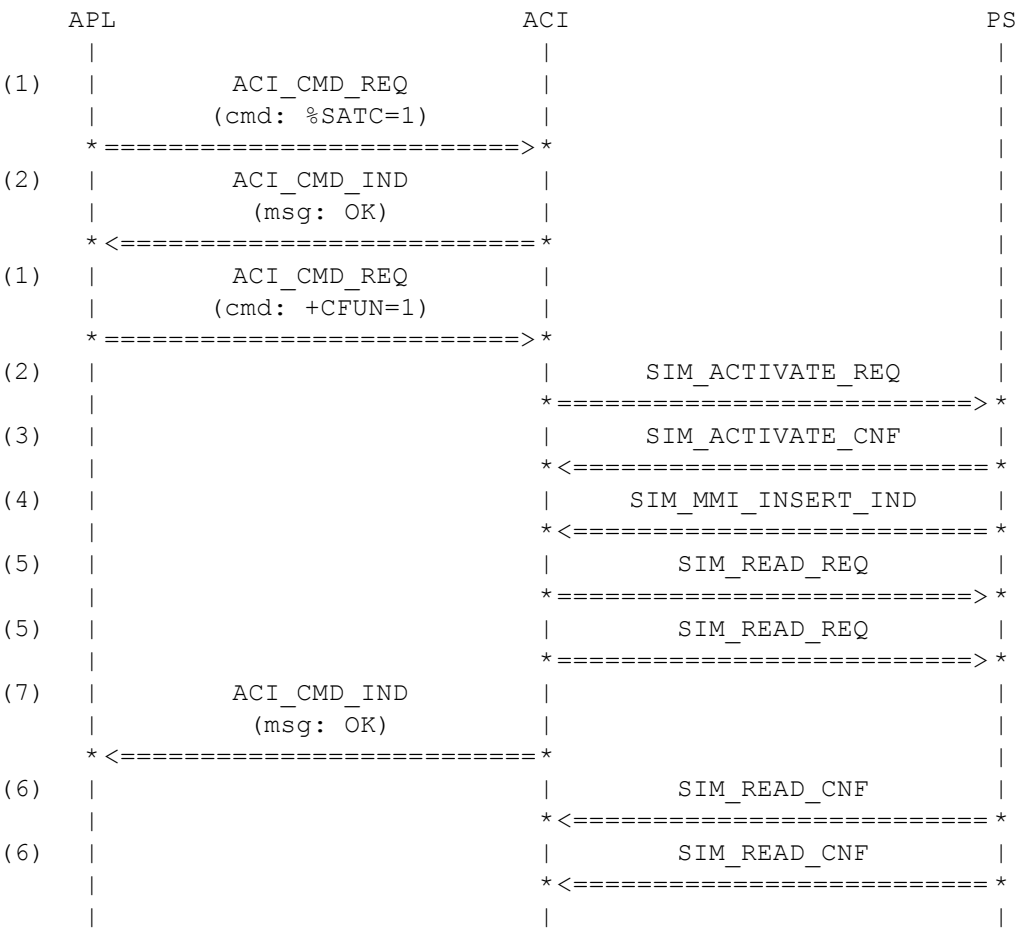
Configure a standard Terminal Profile and request SAT indications, then activate the SIM card. SIM indicates SAT features and other services in its Service Table.
This test is a preliminary for other tests.

Variants**:**

<A>....<E>

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_9
	cmd_seq	C_PERCENT_SATC_CL3_NORM
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	F_STK_PRF_CL3_NORM
(5) 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
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
<A>	sim_serv	F_SIM_SRV
<B>	sim_serv	F_SIM_SRV_SMS
<C>	sim_serv	F_SIM_SRV_PHB
<D>	sim_serv	F_SIM_SRV_AOC
<E>	sim_serv	F_SIM_SRV_SMS_CNTR
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(7) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0

(9) ACI_CMD_IND			
		cmd_len	LM_OK
		cmd_seq	M_OK
(10) SIM_READ_CNF			
		datafield	SIM_ECC
		cause	SIM_NO_ERROR
		length	NUM_12
		trans_data	A_ECC_FIELD
(11) SIM_READ_CNF			
		datafield	SIM_AD
		cause	SIM_NO_ERROR
		length	NUM_4
		trans_data	A_AD_FIELD_CI_DISABLED

History:	06.09.2000	FK	Initial
	20.10.2000	FK	Read EF(ECC) added
	24.06.2002	ACI	Read EF(ADN) added + order changed

3.2.4 ACISAT014: Initialisation Ready without Additional SIM Data read

Description:

ACI receives the message MNSMS_REPORT_IND with parameter CS_SMS_READY. The SIM Service Table previously received indicates that no additional data must be read from the SIM card.

Preamble:

ACISAT013A

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND		
	state	SMS_STATE_READY

History:	20.09.2000	FK	Initial
	20.10.2000	FK	CBCH primitive added

3.2.5 ACISAT015: Initialisation Ready with SMS Parameters read from SIM

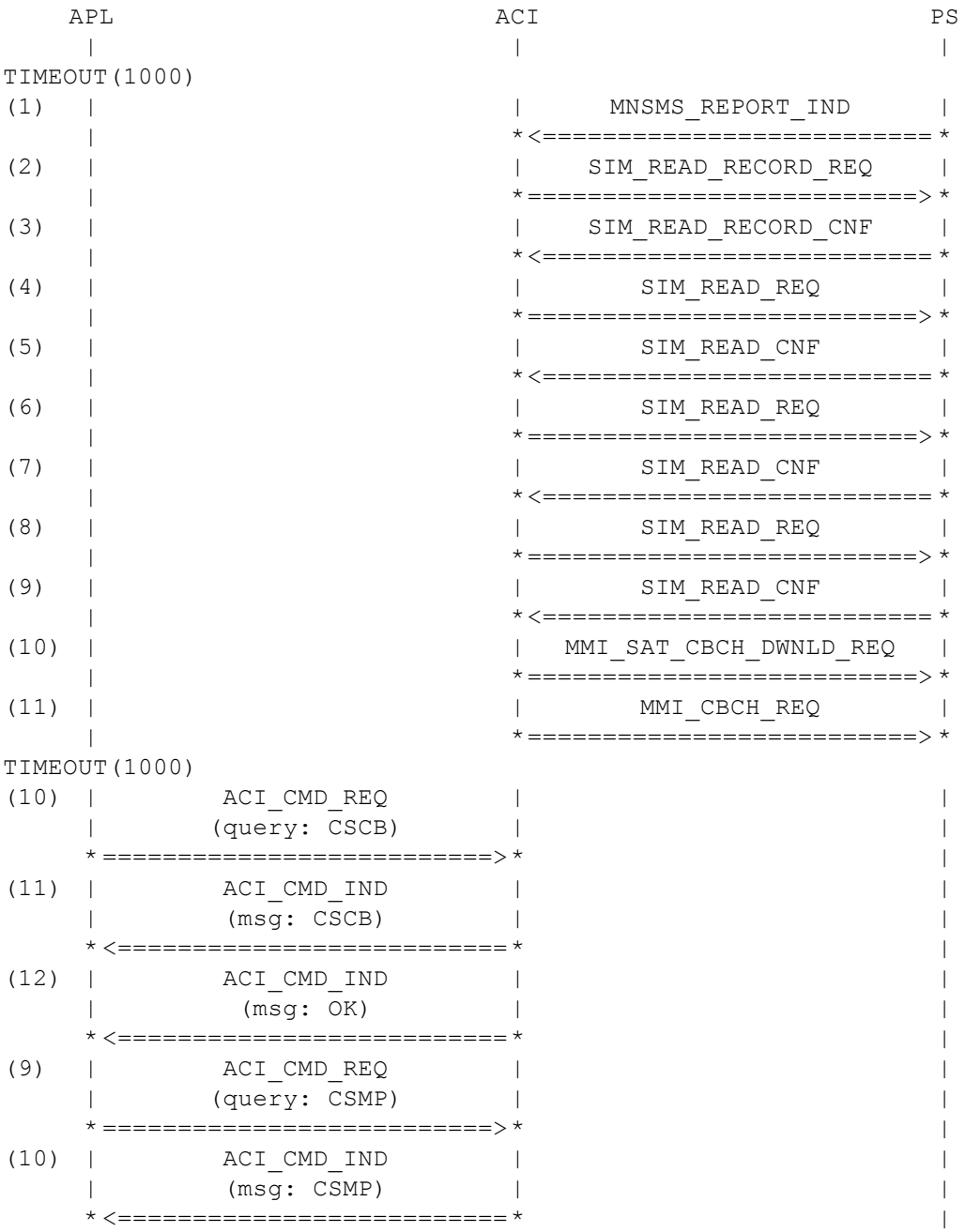
Description:

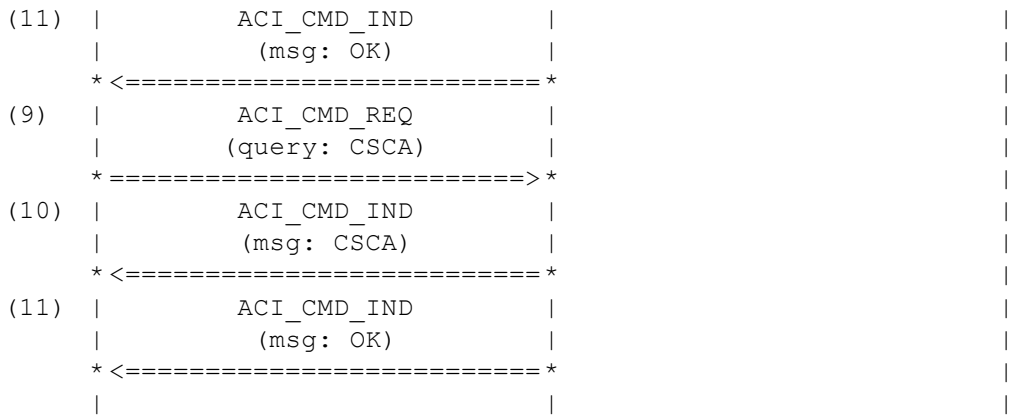
ACI receives the message MNSMS_REPORT_IND with parameter CS_SMS_READY. The SIM Service Table previously received indicates that SMS is available and the relevant parameters have to be read from the SIM card.

Variants: <A>...<D>

Preamble:

<A>ACISAT013B
<B>ACISAT013B
<C>ACISAT013B
<D>ACISAT013E





Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(2) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(3) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
	length	L_SMSP_MIN
	linear_data	SMSP_CMPL
(4) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(5) SIM_READ_CNF		
	datafield	SIM_CBMIR
	cause	SIM_NO_ERROR
	length	L_CBMIR_2
	trans_data	CBMIR_2E_2R
(6) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(7) SIM_READ_CNF		
	datafield	SIM_CBMI
	cause	SIM_NO_ERROR
	length	L_CBMI_10
	trans_data	CBMI_10E_2V2

(8) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMID
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(9) SIM_READ_CNF		
	datafield	SIM_CBMID
	cause	SIM_NO_ERROR
<A>	length	L_CBMID_5
<B>	length	L_CBMID_10
<C>	length	L_CBMID_10
<D>	length	L_CBMID_5
<A>	trans_data	CBMID_5E_1V
<B>	trans_data	CBMID_10E_2V
<C>	trans_data	CBMID_10E_2V2
<D>	trans_data	CBMID_5E_1V
(10) MMI_SAT_CBCH_DWNLD_REQ		
<A>	count	NUM_0001
<B>	count	NUM_0002
<C>	count	NUM_0002
<D>	count	NUM_0001
<A>	msg_id	CBM_MID_SAT_1V
<B>	msg_id	CBM_MID_SAT_2V
<C>	msg_id	CBM_MID_SAT_2V
<D>	msg_id	CBM_MID_SAT_1V
(11) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(12) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(13) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_2R_2V
	cmd_seq	M_CSCB_QUERY_2R_2V
(14) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(15) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(16) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(17) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(18)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(19)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY2_SMSP
		cmd_seq	M_CSCA_QUERY2_SMSP
(20)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	20.09.2000	FK	Initial
	20.10.2000	FK	CBCH primitives added

3.3 User Call Setup (ACISAT020-ACISAT059)

3.3.1 ACISAT020: Single voice call, with call control by SIM, no modification.

Description:

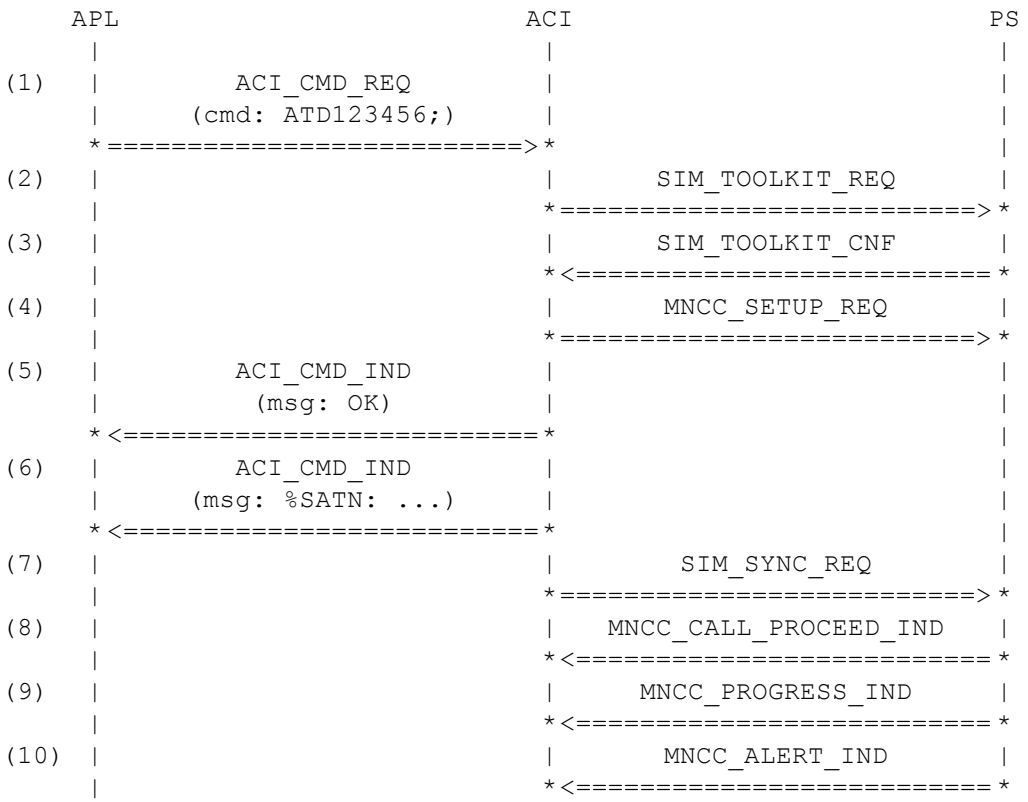
Mobile originated voice call establishment, with call control by SIM. SIM card does not modify the setup. An empty result with SIM_NO_ERROR has to be considered as unmodified setup.

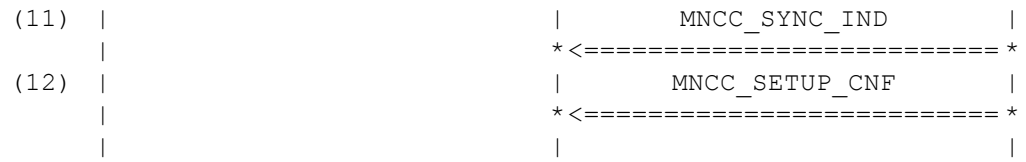
Variants:

<A>....<C>

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_EMPTY
<B>	stk_cmd	ENV_RES_CC_NO_MDFY
<C>	stk_cmd	ENV_RES_CC_NO_MDFY_PRMS
(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	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
<C>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY_PRMS
<A>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
<C>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY_PRMS
(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_VOICE
bcpara2	S_BS_NOT_PRESENT

(9) MNCC_PROGRESS_IND

	ti	NUM_0
<A>	progress_desc	PROG_NOT_PRES
<B>	progress_desc	PROG_INBAND_AVAIL
<C>	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_NO_MS_CAUSE
chm	S_CHN_SPEECH

(12) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

History:			
	22.07.99	AK	Initial
	12.09.2000	FK	Empty Call Control Result added
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	26.08.2002	RM	MMI_SPEEC_MODE_REQ deleted

3.3.2 ACISAT021: Second voice call, with call control by SIM, no modification.

Description:

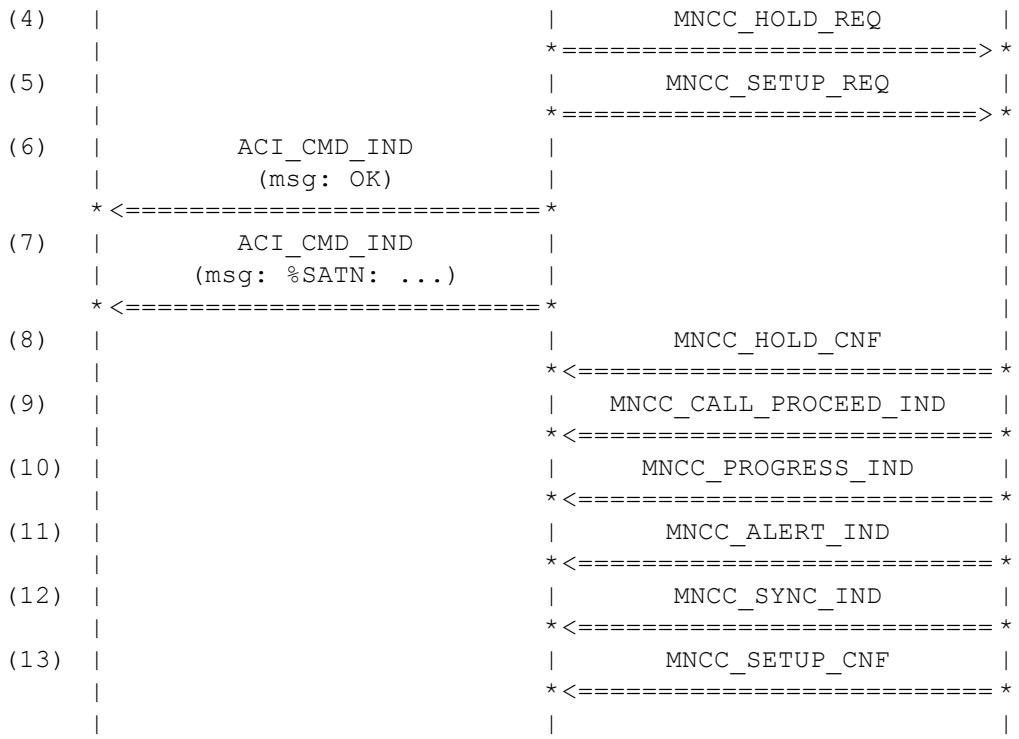
Second mobile originated voice call establishment, with call control by SIM. SIM card does not modify the setup. An empty result with SIM_NO_ERROR has to be considered as unmodified setup. First call is put on hold.

Variants**:**

<A>....<B>

Preamble:

<A> ACISAT020A
<B> ACISAT020B



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_EMPTY
<B>	stk_cmd	ENV_RES_CC_NO_MDFY
(4) MNCC_HOLD_REQ		
	ti	NUM_0
(5) 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	NOT_PRESENT_8BIT
	fac_inf	NOT_USED

(6) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(7) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

(8) MNCC_HOLD_CNF

ti	NUM_0
cause	MNCC_CAUSE_HOLD_SUCCESS

(9) 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

(10) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(11) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(12) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(13) 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

History:			
	22.07.1999	AK	Initial
	12.09.2000	FK	Empty Call Control Result added
	25.10.2000	FK	MMI_SPEECH_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

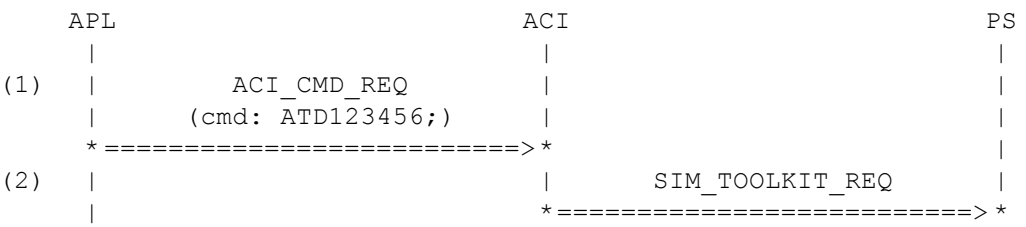
3.3.3 ACISAT022: Single voice call, with call control by SIM, modified.

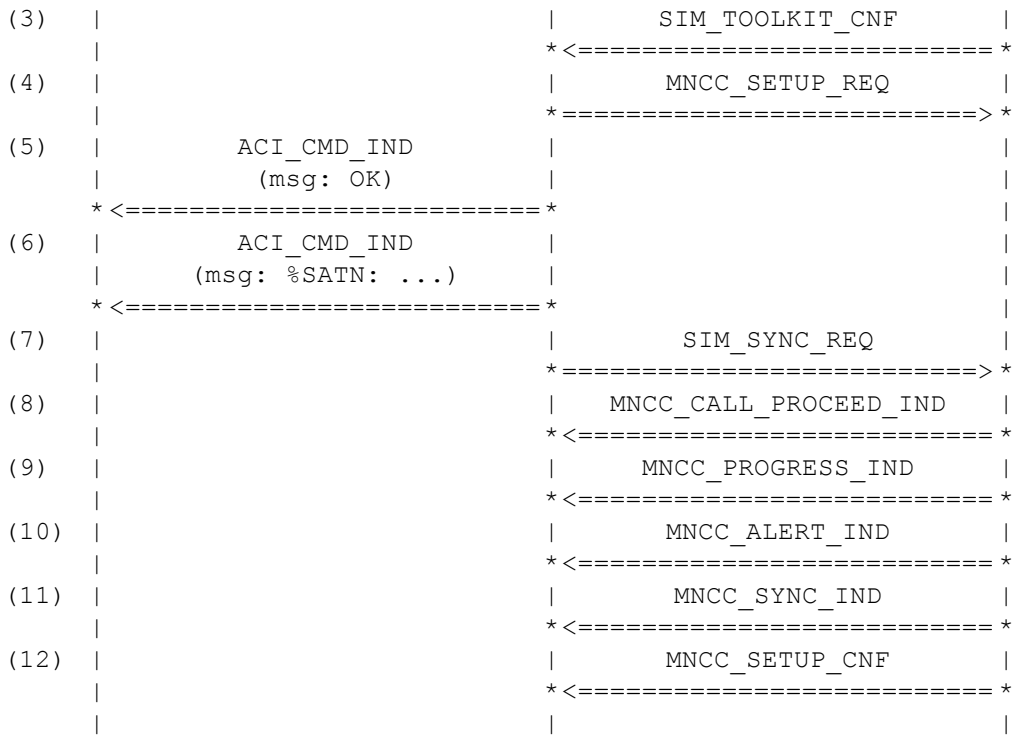
Description:

Single mobile originated voice call establishment, with call control by SIM. SIM card has modified the setup parameter.

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_MDFY_CAL
(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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(6) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_CAL
cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_CAL

(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_VOICE
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_NO_MS_CAUSE
chm	S_CHN_SPEECH

(12) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

History:			
	22.07.99	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

3.3.4 ACISAT023: Single voice call, with call control by SIM, not allowed.

Description:

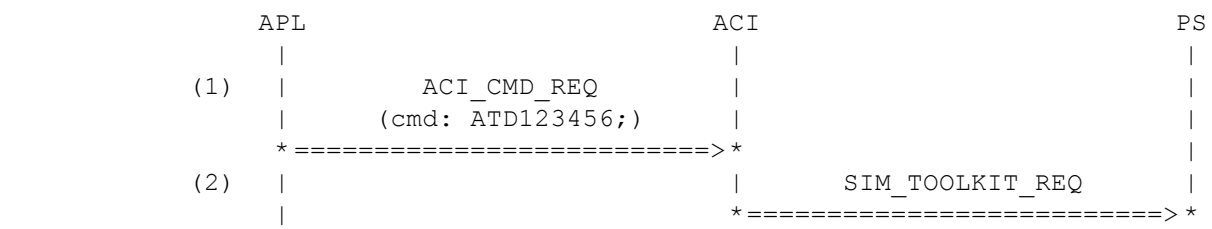
Single mobile originated voice call establishment, with call control by SIM. SIM card does not allow the call. An empty result with SIM_CAUSE_SAT_BUSY has to be considered as not allowed call.

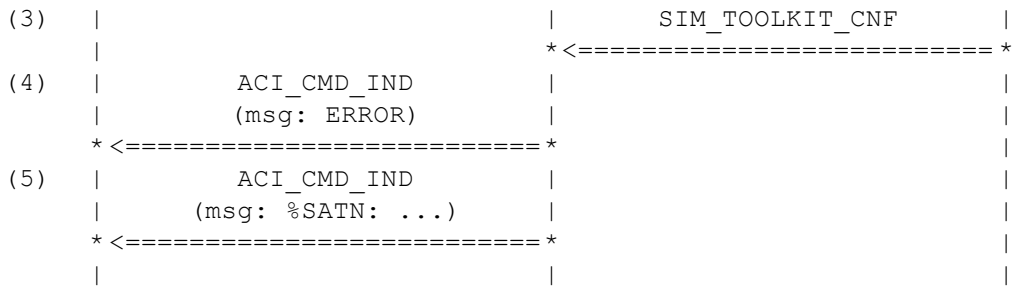
Variants**:**

<A>....<D>

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(3) SIM_TOOLKIT_CNF		
<A>	cause	SIM_NO_ERROR
<B>	cause	SIM_NO_ERROR
<C>	cause	SIM_NO_ERROR
<D>	cause	SIM_CAUSE_SAT_BUSY
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_NOT_ALLW
<B>	stk_cmd	ENV_RES_CC_NOT_ALLW_CR
<C>	stk_cmd	ENV_RES_CC_NOT_ALLW_EMPTY
<D>	stk_cmd	ENV_RES_CC_EMPTY
(4) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(5) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW
<B>	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW
<C>	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY
<D>	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY
<A>	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW
<B>	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW_CR
<C>	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY
<D>	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY

History:			
	22.07.1999	AK	Initial
	12.09.2000	FK	Empty Call Control Result and other variants added

3.3.5 ACISAT024: Single voice call, with call control by SIM, modified to SS transaction.

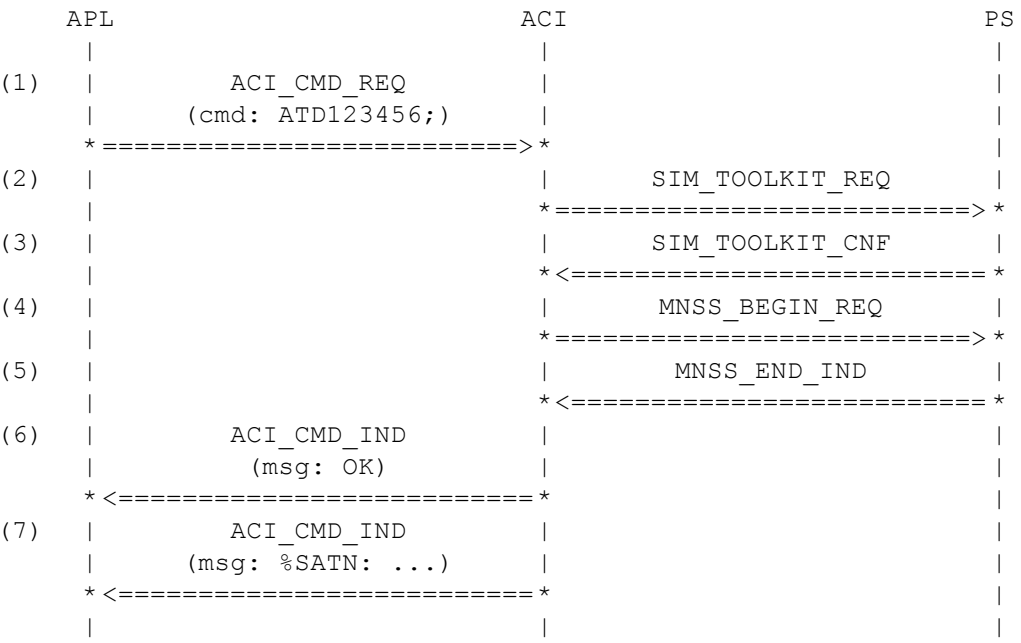
Description:

Single mobile originated voice call establishment, with call control by SIM. SIM card has modified the setup and initiate a SS transaction instead.

Preamble:

ACISAT014

Variants: <A>....<B>



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_MDFY_SS
<B>	stk_cmd	ENV_RES_CC_MDFY_SS_B
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	FAC_KSD_ALLOUT_DEACT
<B>	fac_inf	FAC_KSD_CFNRY_IRGT
	ss_ver	NOT_USED

(5)	MNSS_END_IND		
		ti	NUM_0
		cause	SS_NO_ERROR
	<A>	fac_inf	FAC_KSD_ALLOUT_DEACT_RES
	<B>	fac_inf	FAC_KSD_CFNRY_IRGT_RES
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(7)	ACI_CMD_IND		
	<A>	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS
	<B>	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS_B
	<A>	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS
	<B>	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS_B

History: 22.07.99 AK Initial

3.3.6 ACISAT025: Single data call, with call control by SIM, no modification.

Description:

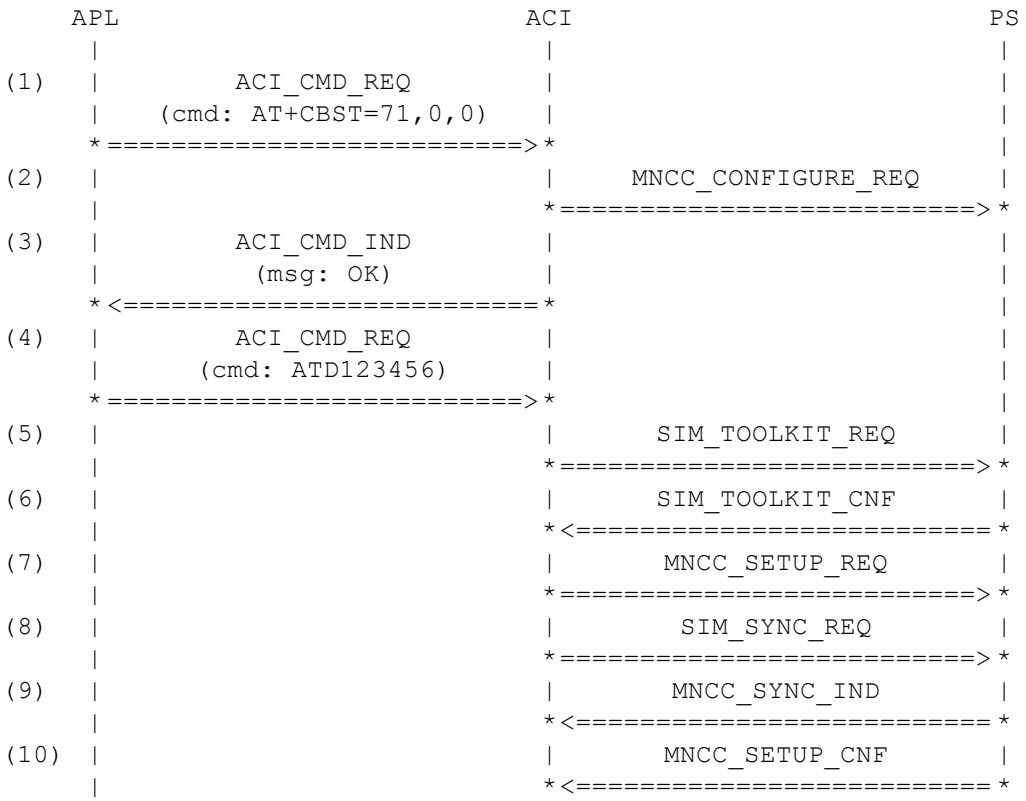
Mobile originated data call establishment, with call control by SIM. SIM card does not modify the setup. An empty result with SIM_NO_ERROR has to be considered as unmodified setup.

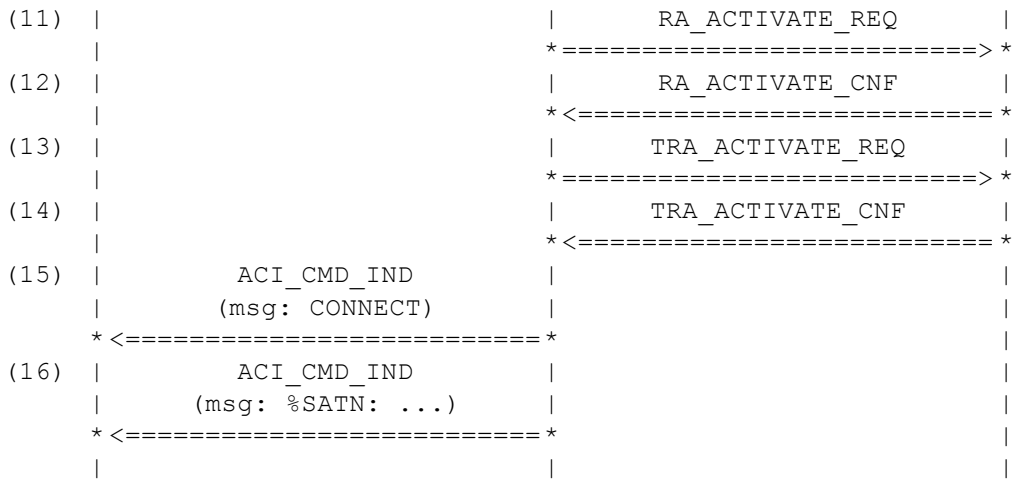
Variants:

<A>....<B>

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CBST_9600_ASY_TRA
	cmd_seq	C_PLUS_CBST_9600_ASY_TRA
(2) MNCC_CONFIGURE_REQ		
	called_party_sub	NOT_USED
	bcpara	NOT_USED
	sns_mode	NOT_USED
	ctm_ena	NOT_USED
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_DAT
	cmd_seq	C_D_DAT
(5) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(6) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_EMPTY
<B>	stk_cmd	ENV_RES_CC_NO_MDFY

(7) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_DAT_9600_ASY_TRA
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

(8) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(9) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_FULL_9600

(10) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(11) RA_ACTIVATE_REQ

model	RA_MODEL_TRANS
tra_rate	TRA_FULLRATE_9600
user_rate	URA_9600
ndb	NUM_8
nsb	NUM_1

(12) RA_ACTIVATE_CNF

ack_flg	RA_ACK

(13) TRA_ACTIVATE_REQ

(14) TRA_ACTIVATE_CNF

ack_flg	TRA_ACK

(15) ACI_CMD_IND

cmd_len	LM_CONNECT
cmd_seq	M_CONNECT

(16) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

History: 23.10.2000 FK Initial

3.4 User SS Control String (ACISAT060-ACISAT099)

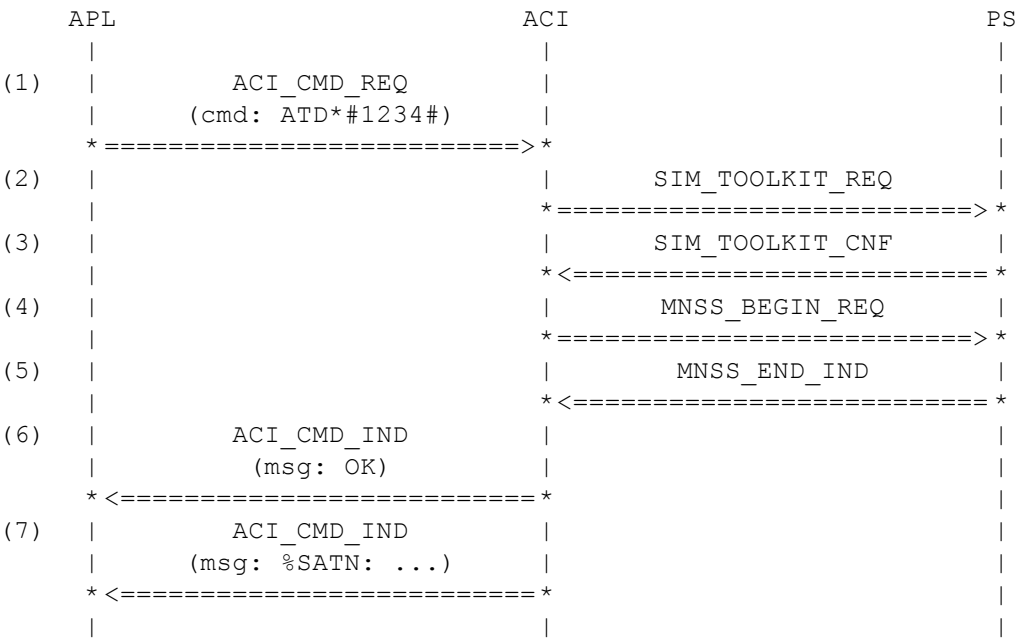
3.4.1 ACISAT060: SS string, with call control by SIM, no modification.

Description:

Send user SS string, with call control by SIM. SIM card does not modify the SS string.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED

(5)	MNSS_END_IND		
		ti	NUM_0
		cause	SS_NO_ERROR
		fac_inf	FAC_CPWD_ALLCB_RES
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(7)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
		cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY

History: 22.07.99 AK Initial

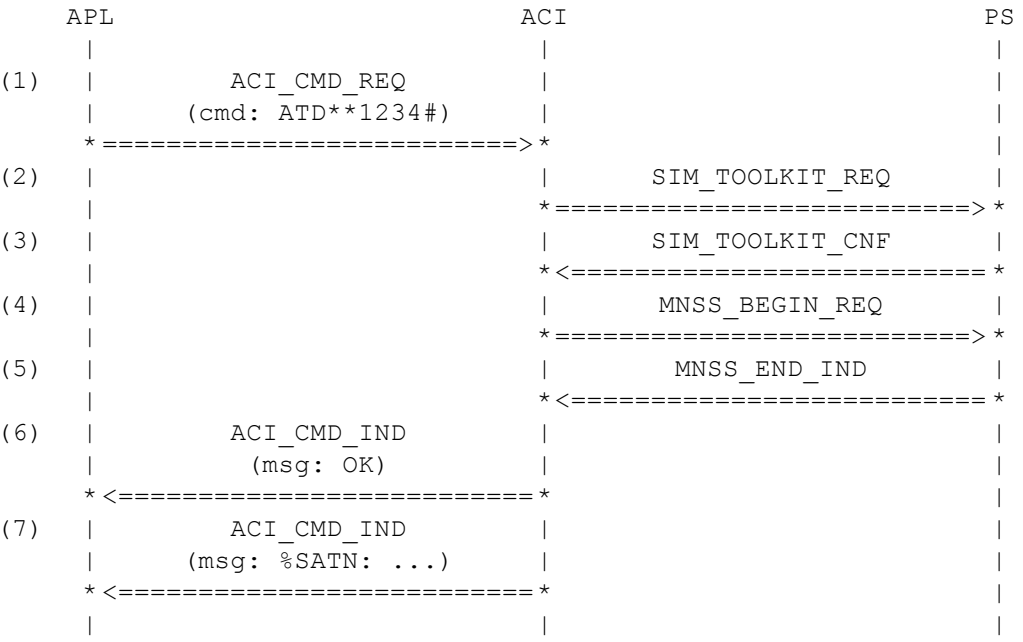
3.4.2 ACISAT061: SS String, with call control by SIM, modified.

Description:

Send SS control string, with call control by SIM. SIM card has modified the SS string.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS

(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_MDFY_SS
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLOUT_DEACT
	ss_ver	NOT_USED
(5) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_ALLOUT_DEACT_RES
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_MDFY_SS
	cmd_seq	M_PERCENT_SATN_RES_SS_MDFY_SS

History: 22.07.99 AK Initial

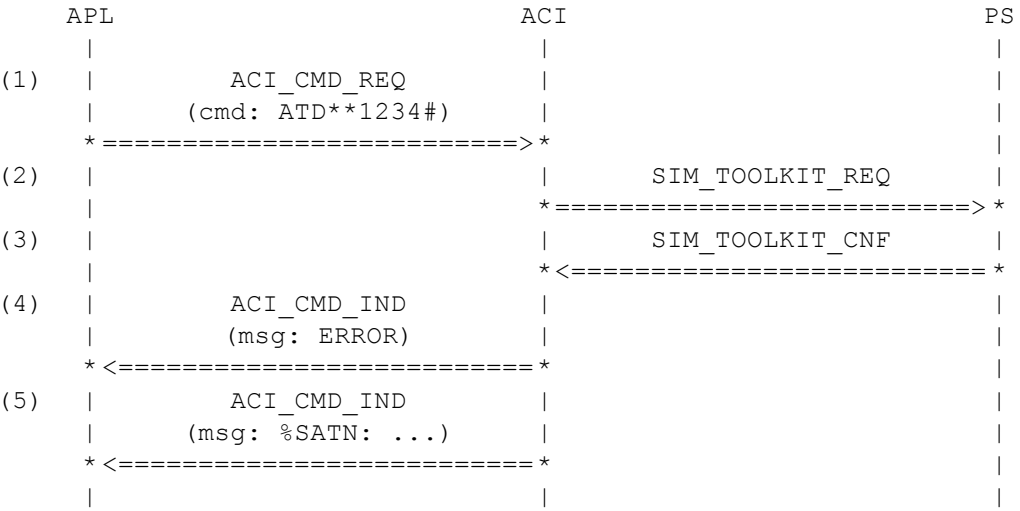
3.4.3 ACISAT062: SS String, with call control by SIM, not allowed.

Description:

Send SS control string, with call control by SIM. SIM card does not allow the SS transaction.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS

(2) SIM_TOOLKIT_REQ

source	SRC_MMI
req_id	SRQ_ACI
stk_cmd	ENV_CMD_SS

(3) SIM_TOOLKIT_CNF

cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_SS_NOT_ALLW

(4) ACI_CMD_IND

cmd_len	LM_ERROR
cmd_seq	M_ERROR

(5) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_SS_NOT_ALLW
cmd_seq	M_PERCENT_SATN_RES_SS_NOT_ALLW

History: 22.07.99 AK Initial

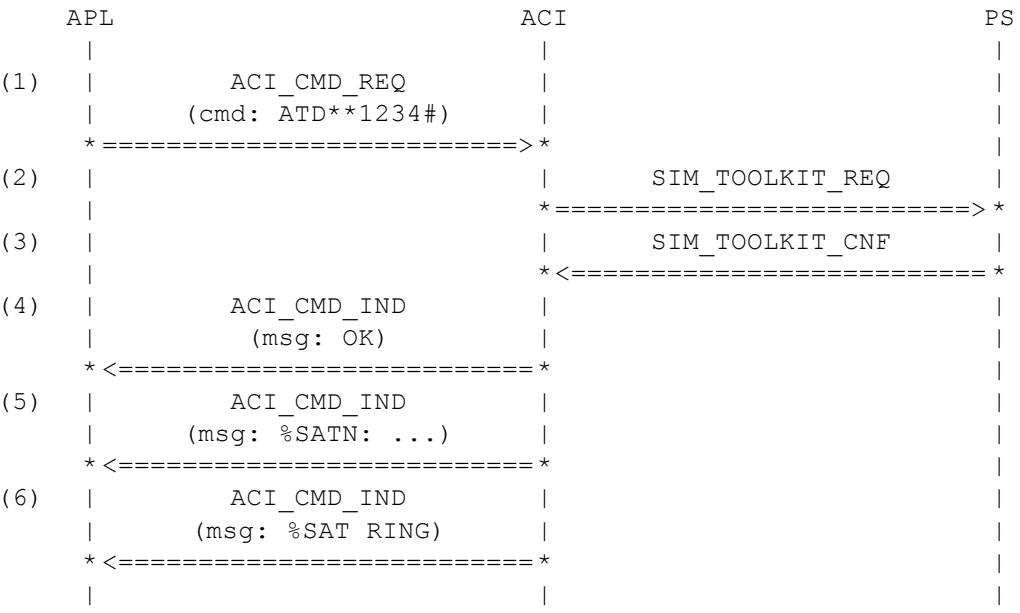
3.4.4 ACISAT063: SS String, with call control by SIM, modified to call setup.

Description:

Send SS control string, with call control by SIM. SIM card has modified the SS string and will setup a call instead.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_SS
cmd_seq	C_D_SS

(2) SIM_TOOLKIT_REQ

source	SRC_MMI
req_id	SRQ_ACI
stk_cmd	ENV_CMD_SS

(3) SIM_TOOLKIT_CNF

cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_SS_MDFY_CAL

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_SS_MDFY_CAL
cmd_seq	M_PERCENT_SATN_RES_SS_MDFY_CAL

(6) ACI_CMD_IND

cmd_len	LM_SATA
cmd_seq	M_SATA

History: 22.07.99 AK Initial

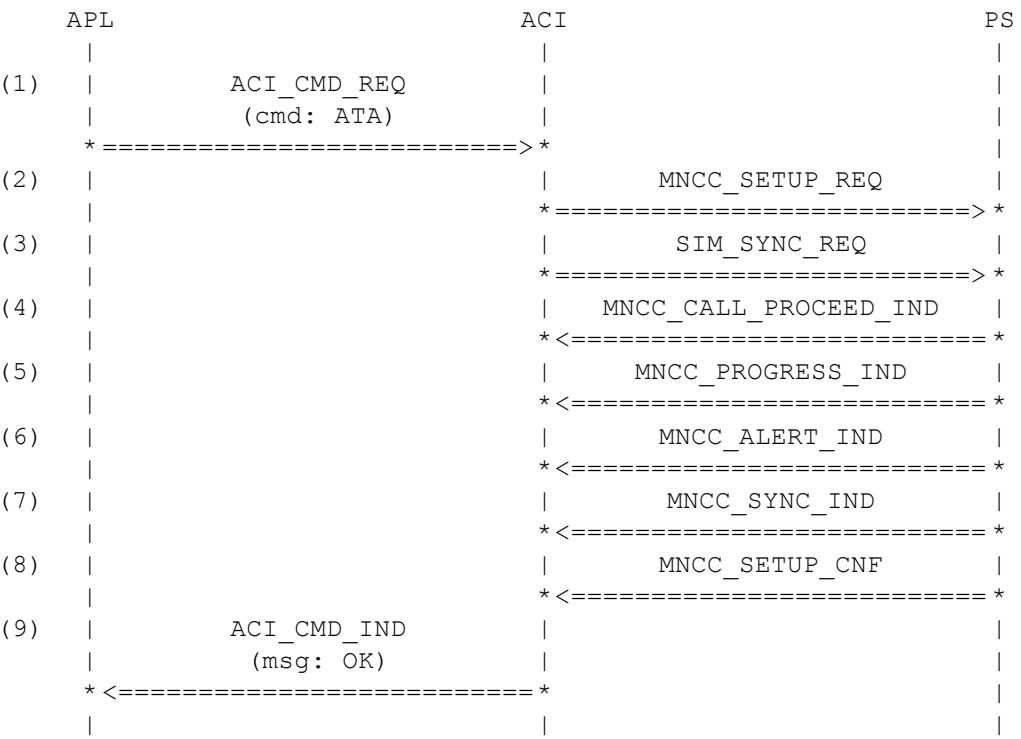
3.4.5 ACISAT064: Accept Modified SAT Call.

Description:

User accepts the modified call offered by SAT.

Preamble:

ACISAT063



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(8) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	
	S_CLG_PARTY_SUB	
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

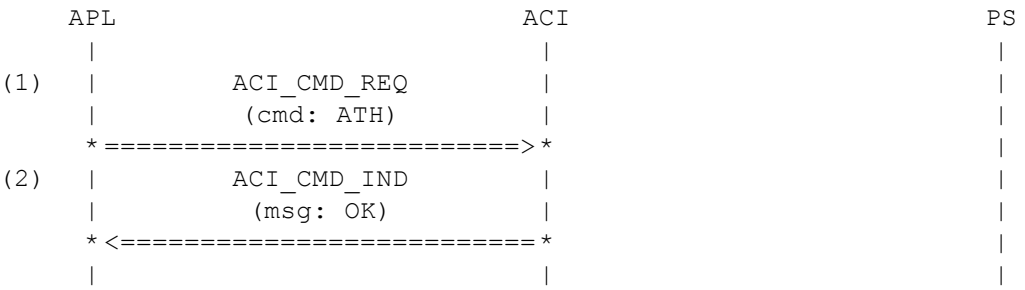
3.4.6 ACISAT065: Reject Modified SAT Call.

Description:

User rejects the modified call offered by SAT.

Preamble:

ACISAT063



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_H
	cmd_seq	C_H
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.07.99 AK Initial

3.5 SAT Send SS (ACISAT100-ACISAT149)

3.5.1 ACISAT100: Send SS, no CC check by SIM, successful.

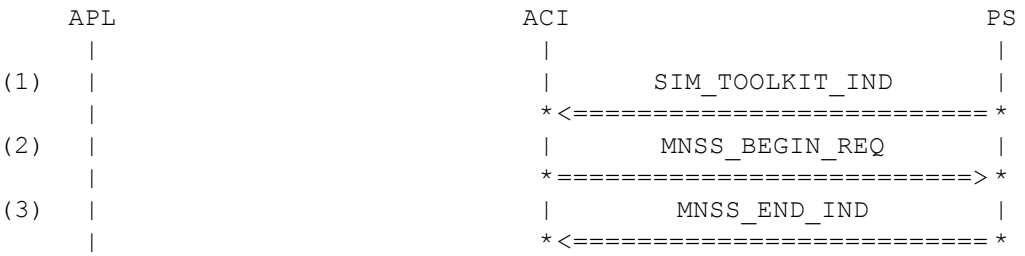
Description:

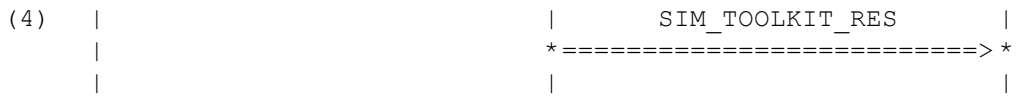
SAT invokes a SS send command. Call control by SIM is not allocated and activated. The SS transaction is started and completed successfully. SAT is informed about the successful termination of the operation. Variant <B> is used for FTA 27.22.4.11 due to missing of a SIM simulator.

Preamble:

ACISAT001

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





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SS
<B>	stk_cmd	SAT_CMD_SS_CFWRD
<C>	stk_cmd	SAT_CMD_SS_CFWRD2
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	FAC_KSD_ALLOUT_DEACT
<B>	fac_inf	SEND_SS_CFWRD_ACT
<C>	fac_inf	SEND_SS_CFWRD_ACT2
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
<A>	fac_inf	FAC_KSD_ALLOUT_DEACT_RES
<B>	fac_inf	SEND_SS_CFWRD_RES
<C>	fac_inf	SEND_SS_CFWRD_RES2
(4) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_SS_SUCC
<B>	stk_cmd	SAT_RES_TRMNL
<C>	stk_cmd	SAT_RES_TRMNL2

History:			
	01.09.99	AK	Initial
	17.04.2003	SKA	added Variants B and C to confirm FTA 27.22.4.11

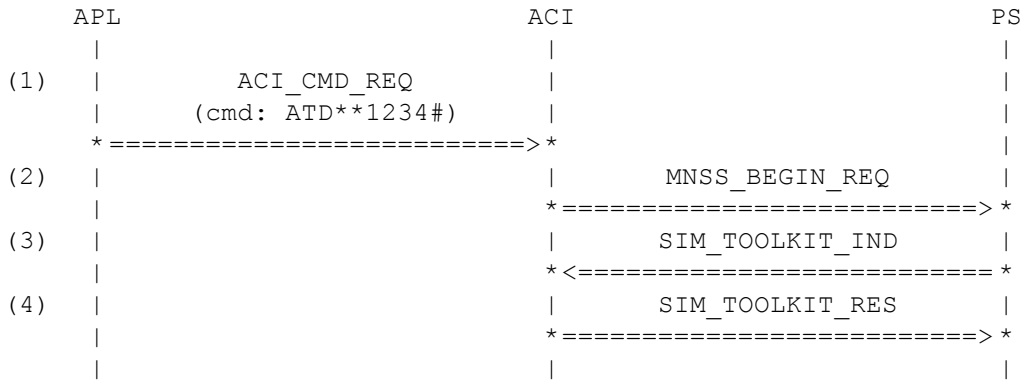
3.5.2 ACISAT101: Send SS, no CC check by SIM, ME is busy on SS.

Description:

SAT invokes a SS send command. Call control by SIM is not allocated and activated. The SS transaction is rejected by ME because of busy SS. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(1) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED
(2) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS
(3) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_BUSY

History: 01.09.99 AK Initial

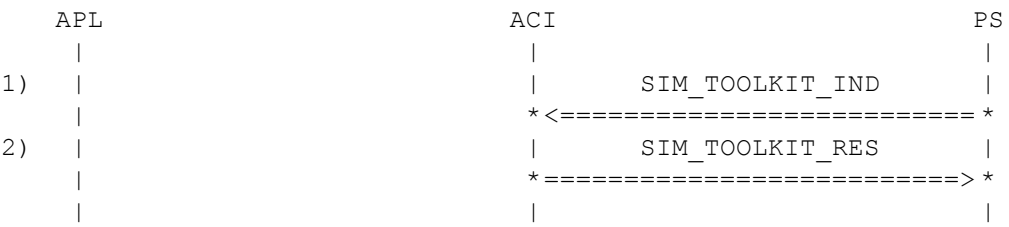
3.5.3 ACISAT102: Send SS, no CC check by SIM, ME capabilities.

Description:

SAT invokes a SS send command. Call control by SIM is not allocated and activated. The SS transaction is rejected by ME due to not supported SS control string. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_UNKNOWN
(2) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_ME_CAP

History: 01.09.99 AK Initial

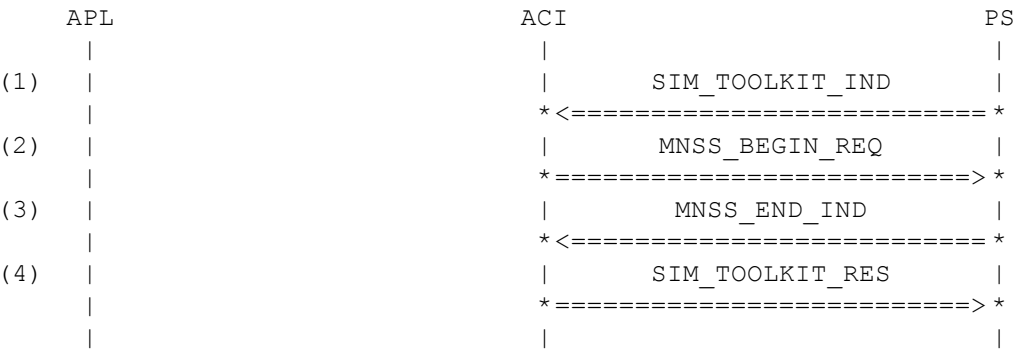
3.5.4 ACISAT103: Send SS, no CC check by SIM, error result.

Description:

SAT invokes a SS send command. Call control by SIM is not allocated and activated. The SS transaction is started and completed with an error. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLOUT_DEACT
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_ALLOUT_DEACT_ERR
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_ERR

History: 01.09.99 AK Initial

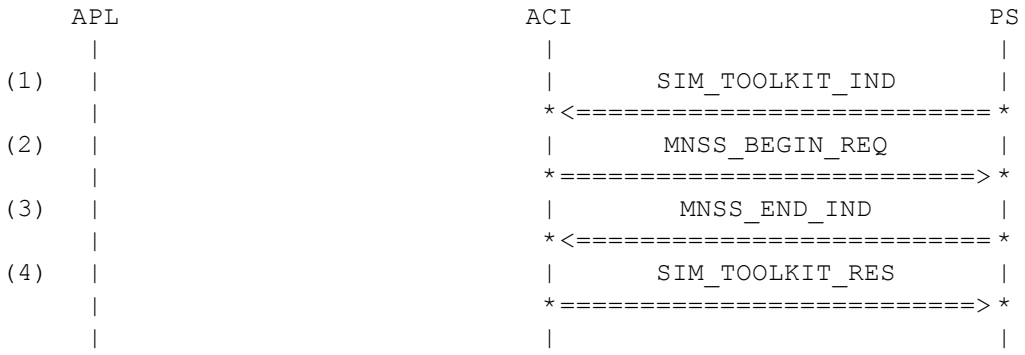
3.5.5 ACISAT104: Send SS, no CC check by SIM, reject result.

Description:

SAT invokes a SS send command. Call control by SIM is not allocated and activated. The SS transaction is started and completed with a reject. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLOUT_DEACT
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_ALLOUT_DEACT_REJ
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_REJ

History: 01.09.99 AK Initial

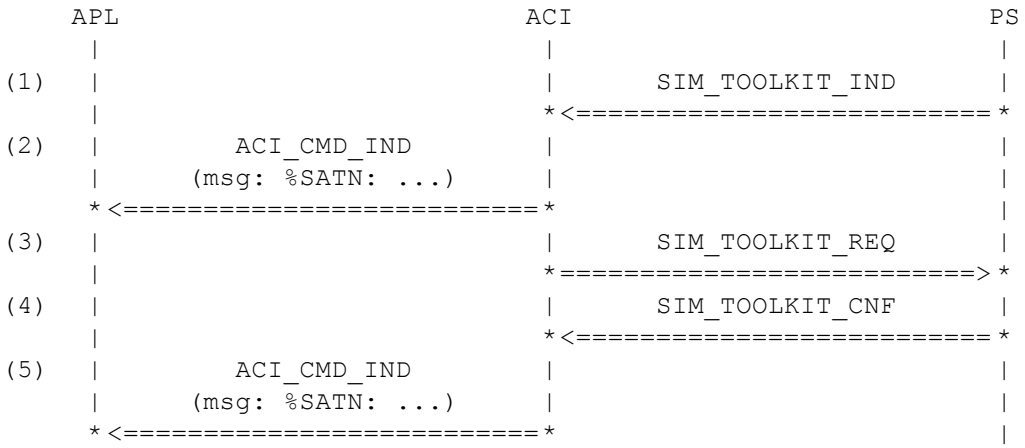
3.5.6 ACISAT105: Send SS, CC check by SIM, no modification.

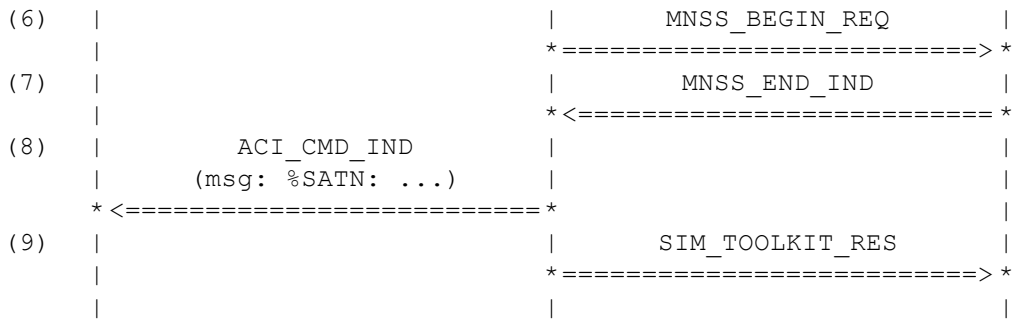
Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is not modified. The SS transaction is started and completed. SAT is informed about the successful termination of the operation.

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED
(5) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_CPWD_ALLCB_RES
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_PWD_SUCC
	cmd_seq	M_PERCENT_SATN_RES_SS_PWD_SUCC
(7) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_PWD_SUCC

History: 01.09.99 AK Initial

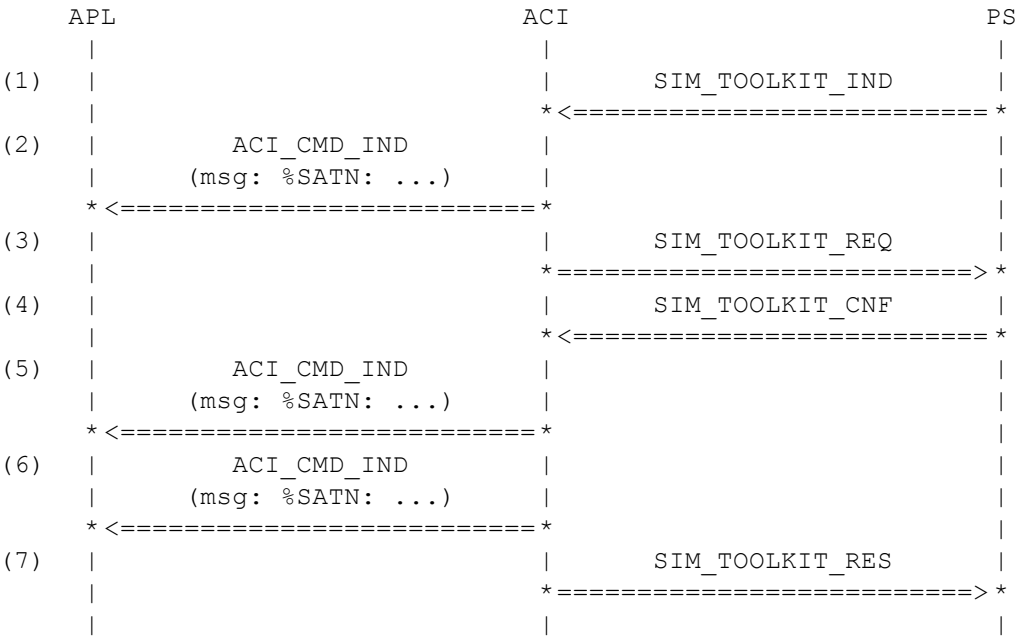
3.5.7 ACISAT106: Send SS, CC check by SIM, not allowed.

Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is not allowed. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NOT_ALLW
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NOT_ALLW
	cmd_seq	M_PERCENT_SATN_RES_SS_NOT_ALLW
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NOT_ALLWD
	cmd_seq	M_PERCENT_SATN_RES_SS_NOT_ALLWD

(7) SIM_TOOLKIT_RES

stk_cmd SAT_RES_SS_NOT_ALLW

History: 01.09.99 AK Initial

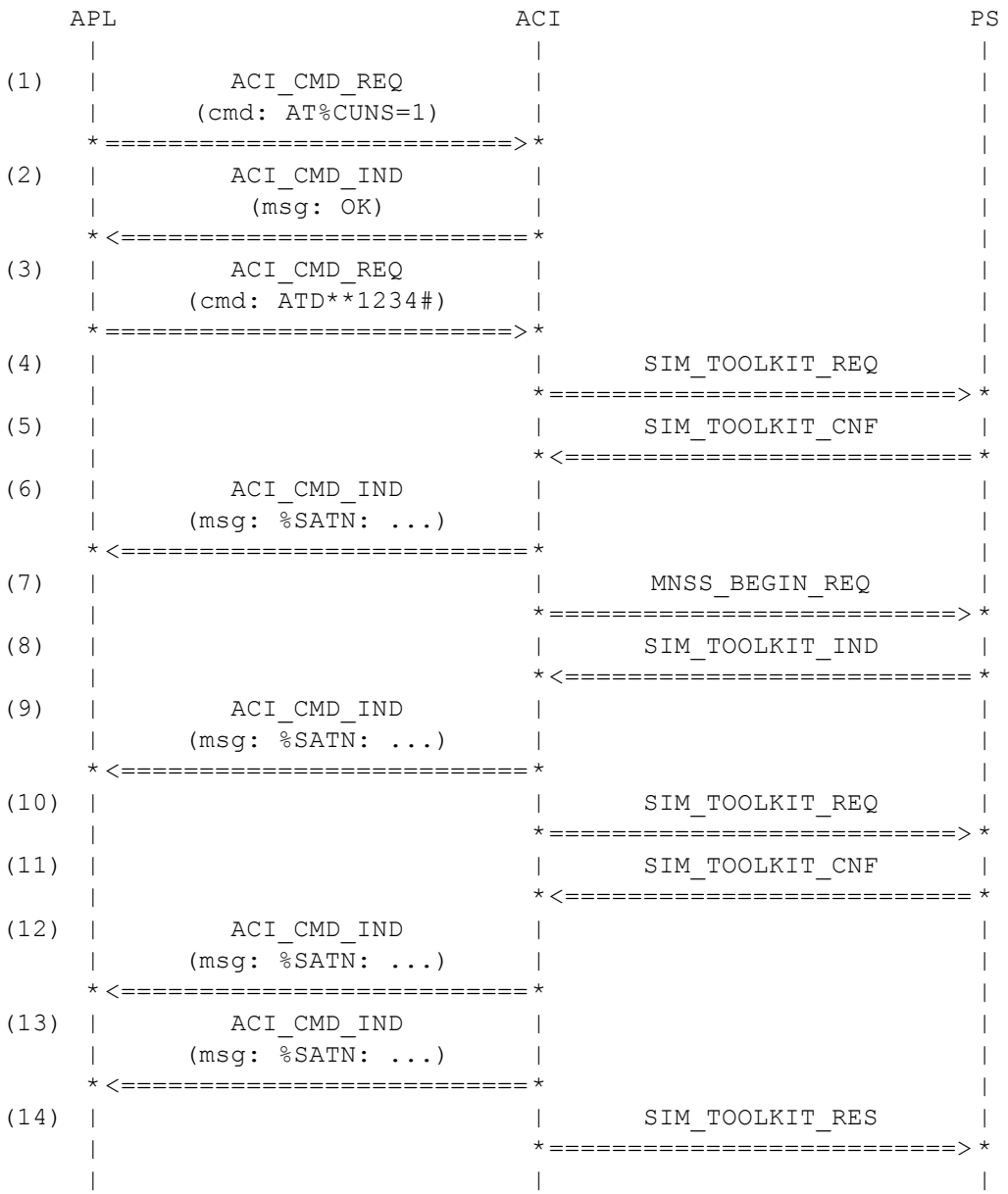
3.5.8 ACISAT107: Send SS, CC check by SIM, allowed but SS busy.

Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is allowed. Operation is rejected by SIM due to SS busy. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CUNS0
	cmd_seq	C_CUNS0
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(4) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(5) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY
(7) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED
(8) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(9) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(10) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(11) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(12) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY
(13) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_BUSY
	cmd_seq	M_PERCENT_SATN_RES_SS_BUSY

(14) SIM_TOOLKIT_RES

	stk_cmd	SAT_RES_SS_BUSY

History: 01.09.99 AK Initial

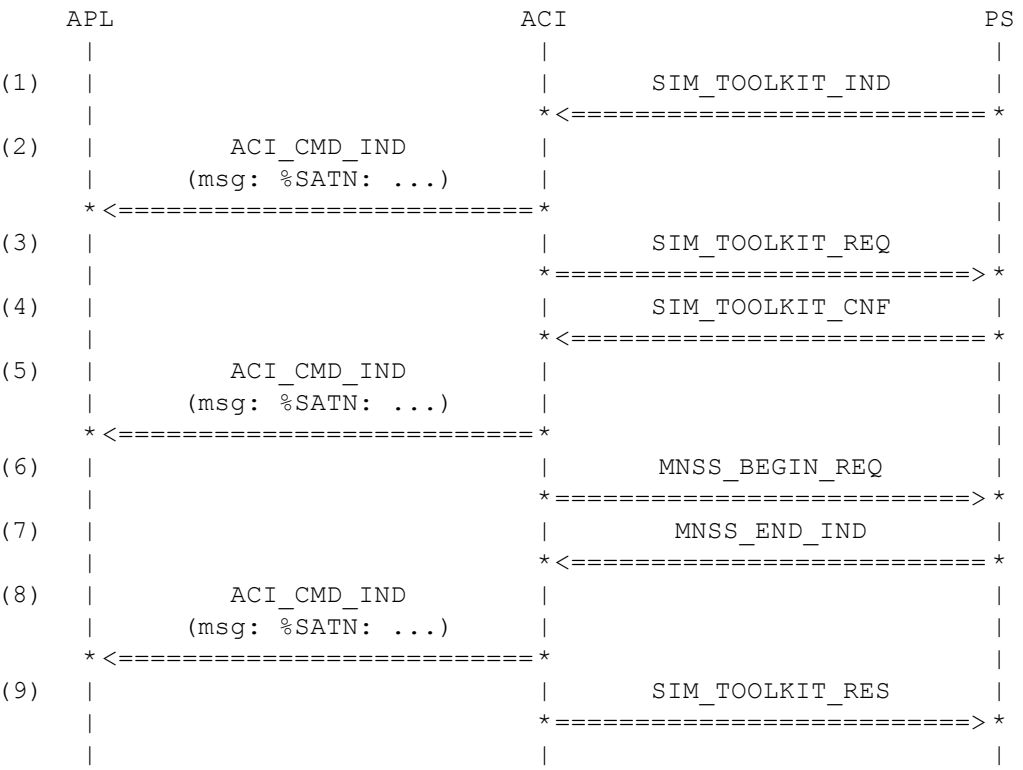
3.5.9 ACISAT108: Send SS, CC check by SIM, no modification but error result.

Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is not modified. The SS transaction is started and completed with an error. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS

(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY
(6) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED
(7) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_ALLCB_PWD_ERR
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_ERR
	cmd_seq	M_PERCENT_SATN_RES_SS_ERR
(7) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_ERR

History: 01.09.99 AK Initial

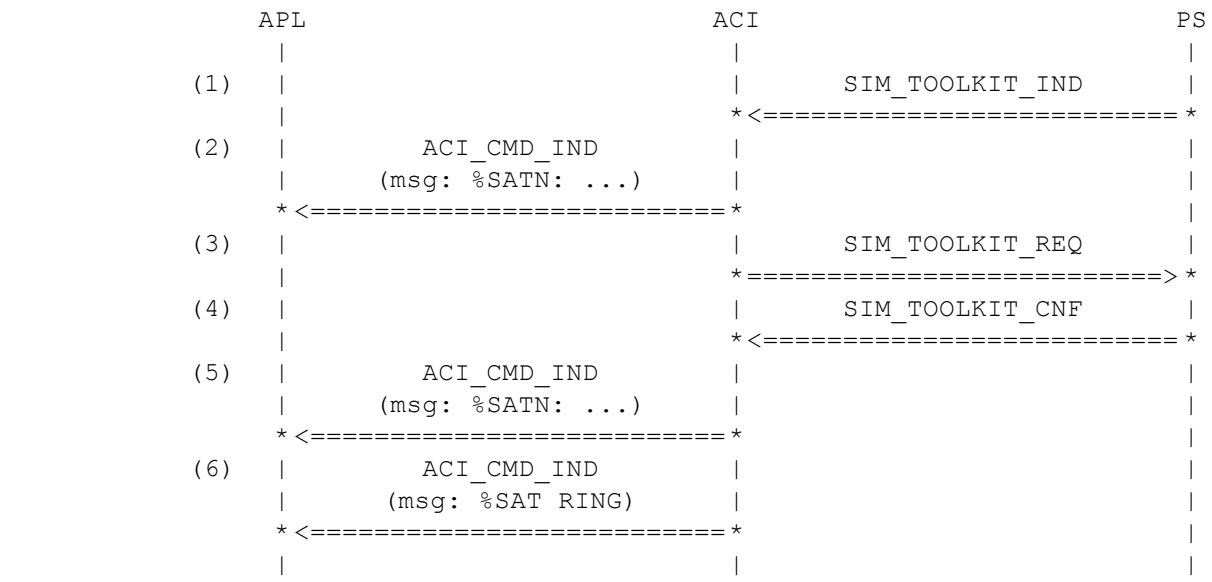
3.5.10 ACISAT109: Send SS, CC check by SIM, modification to voice call.

Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is modified to a voice call. User is alerted for a pending SAT call.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_MDFY_CAL
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_MDFY_CAL
	cmd_seq	M_PERCENT_SATN_RES_SS_MDFY_CAL
(6) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History: 01.09.99 AK Initial

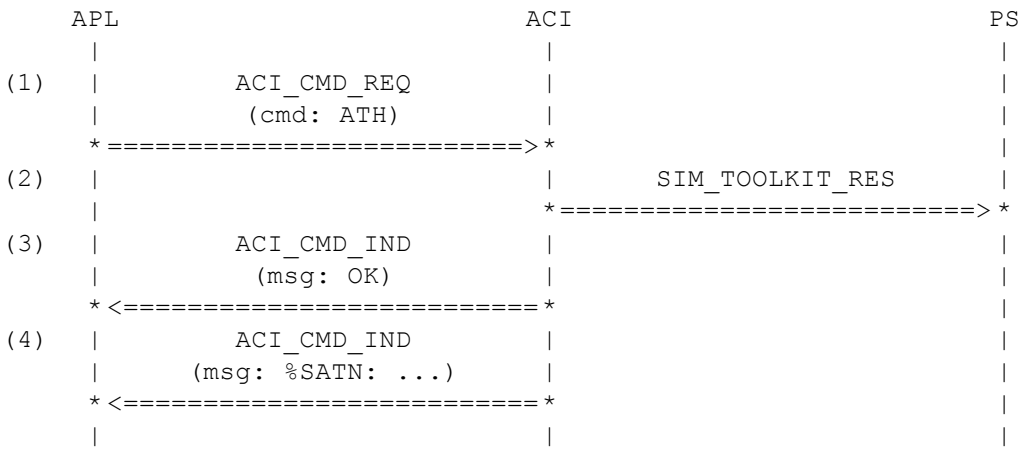
3.5.11 ACISAT110: Reject Modified SAT Call.

Description:

User rejects the modified call offered by SAT. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT109



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_H
		cmd_seq	C_H
(2)	SIM_TOOLKIT_RES		
		stk_cmd	SAT_RES_REJ_MDFY_CALL
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(4)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_REJ_MDFY_CALL
		cmd_seq	M_PERCENT_SATN_RES_REJ_MDFY_CALL

History: 03.09.99 AK Initial

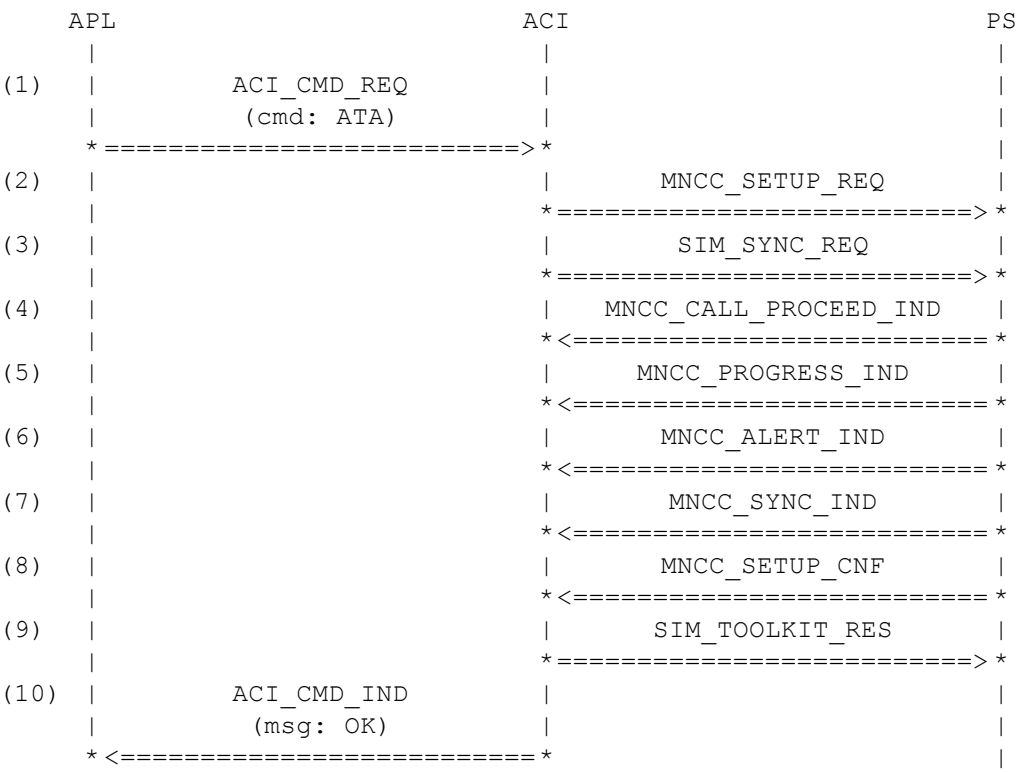
3.5.12 ACISAT111: Accept Modified SAT Call, connected successfully.

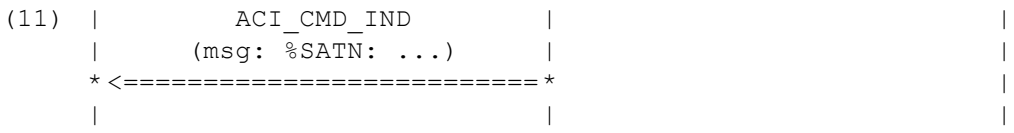
Description:

User accepts the modified call offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT109





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(8) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(9) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_MDFY_CALL
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_CALL
cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_CALL

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	09.11.2000	CLB	error in A_SAT_RES_OK_MDFY_CALL. A tag was wrong
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

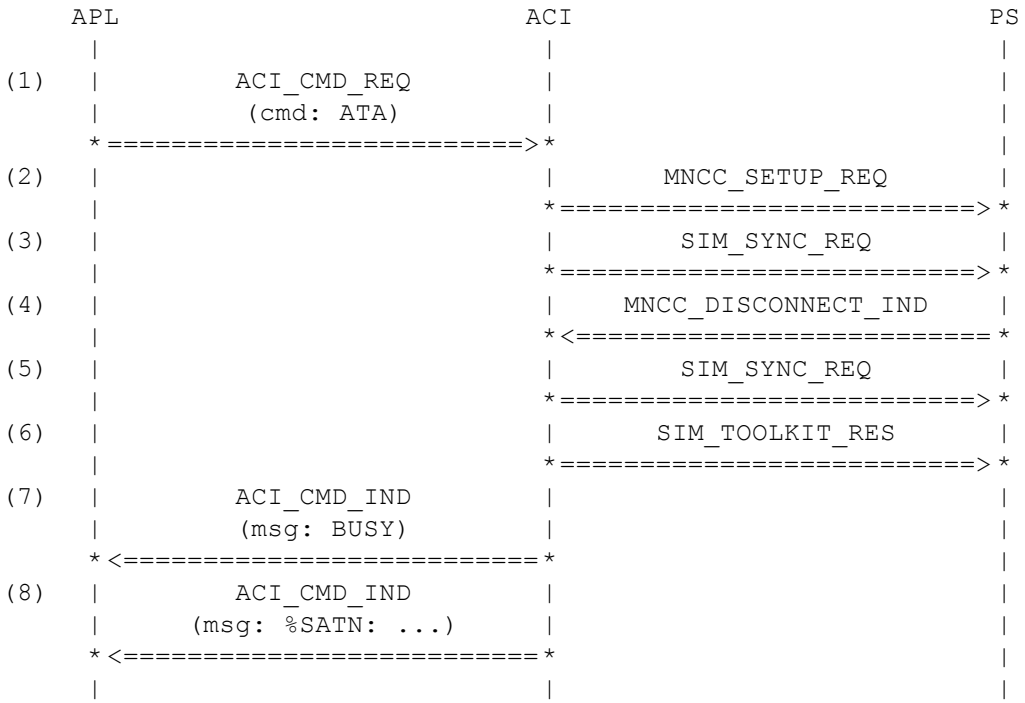
3.5.13 ACISAT112: Accept Modified SAT Call, network reject.

Description:

User accepts the modified call offered by SAT. The call is rejected by the network. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT109



Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_A
cmd_seq	C_A

(2) 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_MDFY
called_party_sub	S_CLD_PARTY_SUB_MDFY
clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED

(3) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(4) MNCC_DISCONNECT_IND

ti	NUM_0
cause	MNCC_CAUSE_USER_BUSY
diagnostic	NOT_USED
progress_desc	PROG_NOT_PRES

(5) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(6) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_MDFY_CALL_NTW_ERR

(7) ACI_CMD_IND

cmd_len	LM_BUSY
cmd_seq	M_BUSY

(8) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR
cmd_seq	M_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR

History: 22.07.99 AK Initial

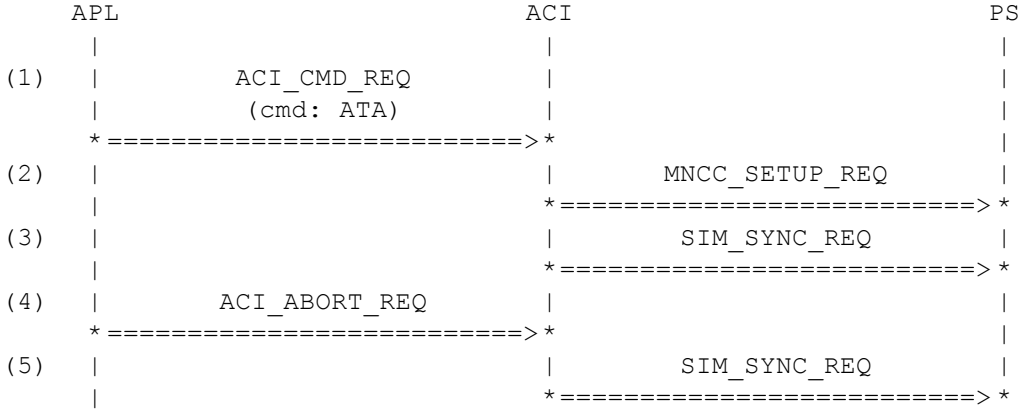
3.5.14 ACISAT113: Accept Modified SAT Call, user abort.

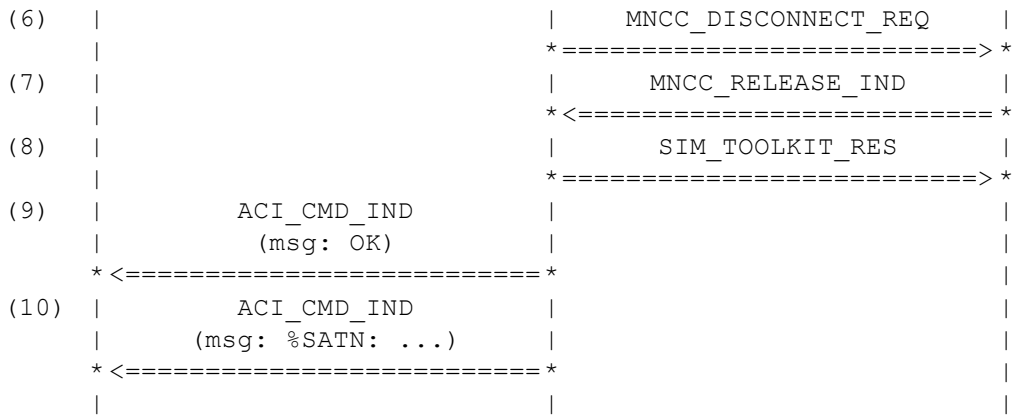
Description:

User accepts the modified call offered by SAT. The call establishment is aborted by the user. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT109





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) ACI_ABORT_REQ		
	cmd_src	CMD_SRC_EXT
	cause	ABT_ABORT_CMD
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(7) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(8) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_MDFY_CALL_USR_ABT
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(10) ACI_CMD_IND

	cmd_len	LM_PERCENT_SATN_RES_MDFY_CALL_USR_ABT
	cmd_seq	M_PERCENT_SATN_RES_MDFY_CALL_USR_ABT

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

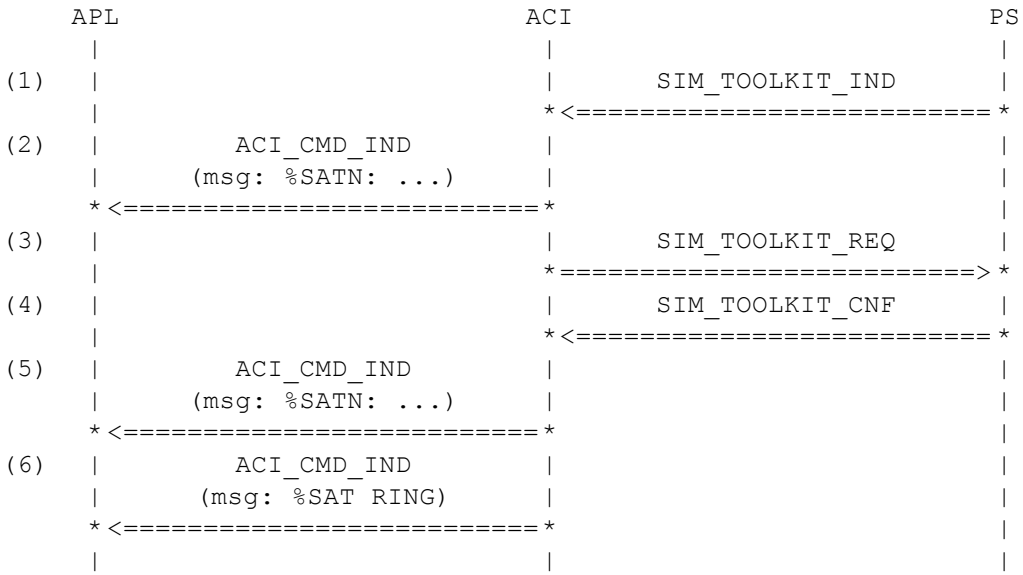
3.5.15 ACISAT114: Send SS, CC check by SIM, modification to voice call with DTMF.

Description:

SAT invokes a SS send command. Call control by SIM is allocated and activated, request is modified to a voice call with trailing DTMF digits. User is alerted for a pending SAT call.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SS_PWD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SS_PWD
	cmd_seq	M_PERCENT_SATN_CMD_SS_PWD
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_MDFY_CAL_DTMF

(5) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_SS_MDFY_CAL_DTMF
cmd_seq	M_PERCENT_SATN_RES_SS_MDFY_CAL_DTMF

(6) ACI_CMD_IND

cmd_len	LM_SATA
cmd_seq	M_SATA

History: 04.11.99 AK Initial

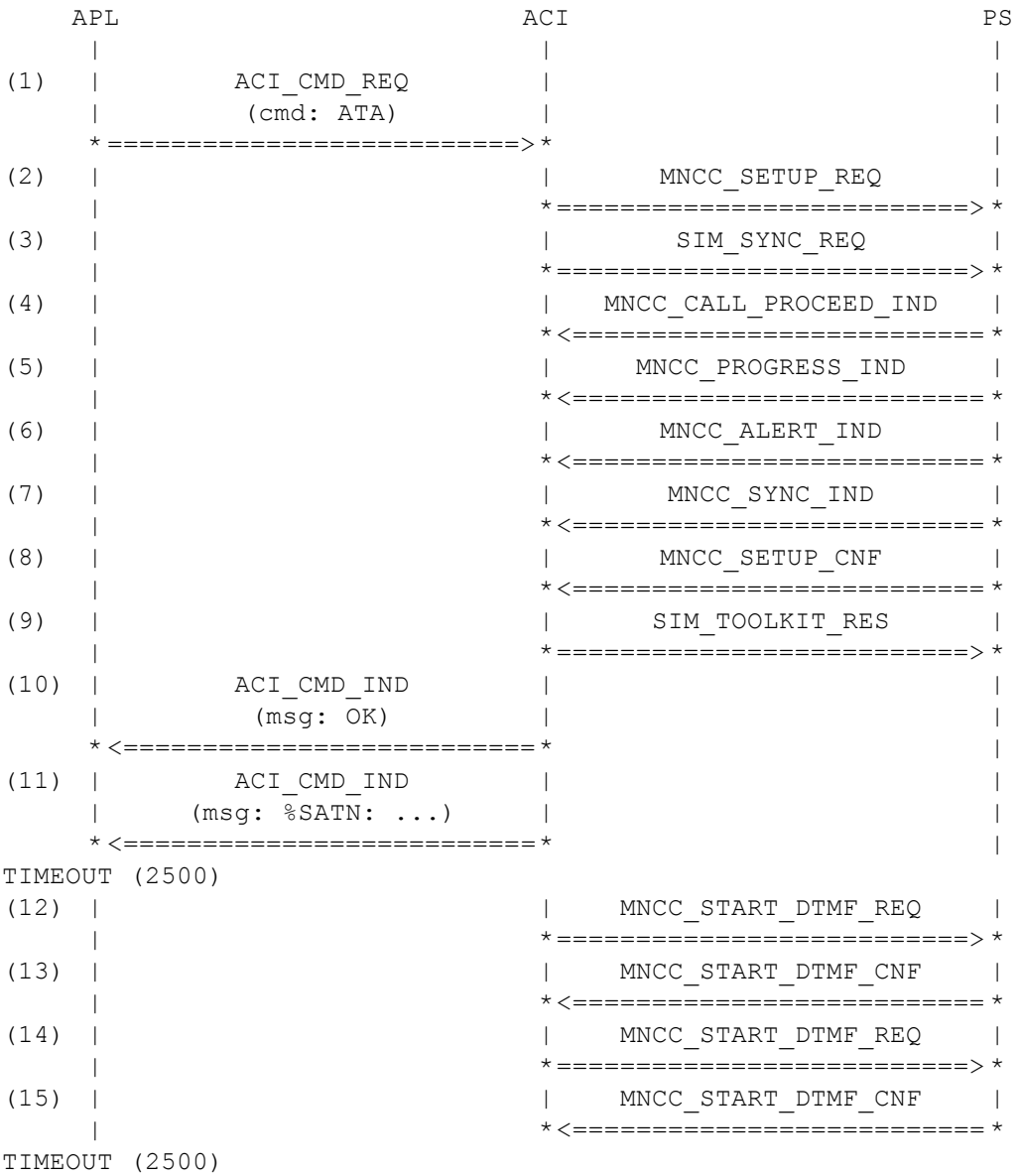
3.5.16 ACISAT115: Accept Modified SAT Call with DTMF, connected successfully.

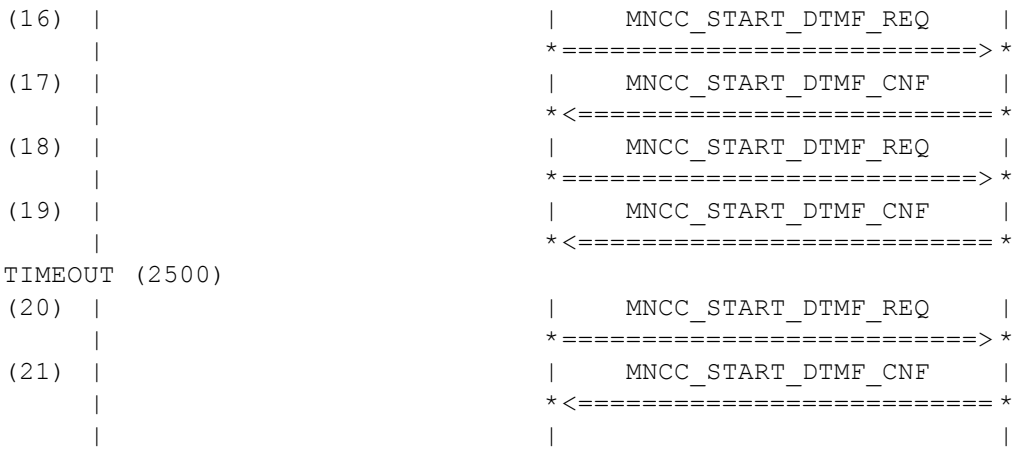
Description:

User accepts the modified call offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT114





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH

(8) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(9) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_MDFY_CALL_DTMF

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len
LM_PERCENT_SATN_RES_OK_MDFY_CALL_DTMF
cmd_seq
M_PERCENT_SATN_RES_OK_MDFY_CALL_DTMF

(12) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_0
dtmf_mod	DTMF_MOD_AUTO

(13) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_0
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

(14) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_9
dtmf_mod	DTMF_MOD_AUTO

(15) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_9
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

(16) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_STAR
dtmf_mod	DTMF_MOD_AUTO

(17) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_STAR
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

(18) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_HASH
dtmf_mod	DTMF_MOD_AUTO

(19)	MNCC_START_DTMF_CNF		
		ti	NUM_0
		key	KEY_HASH
		cause	NOT_PRESENT_8BIT
		dtmf_mod	DTMF_MOD_AUTO
(20)	MNCC_START_DTMF_REQ		
		ti	NUM_0
		key	KEY_6
		dtmf_mod	DTMF_MOD_AUTO
(21)	MNCC_START_DTMF_CNF		
		ti	NUM_0
		key	KEY_6
		cause	NOT_PRESENT_8BIT
		dtmf_mod	DTMF_MOD_AUTO

History:	04.11.1999	AK	Initial
	26.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

3.6 SAT Setup Call (ACISAT150-ACISAT199)

3.6.1 ACISAT150: Setup Call, no CC check by SIM, alert user.

Description:

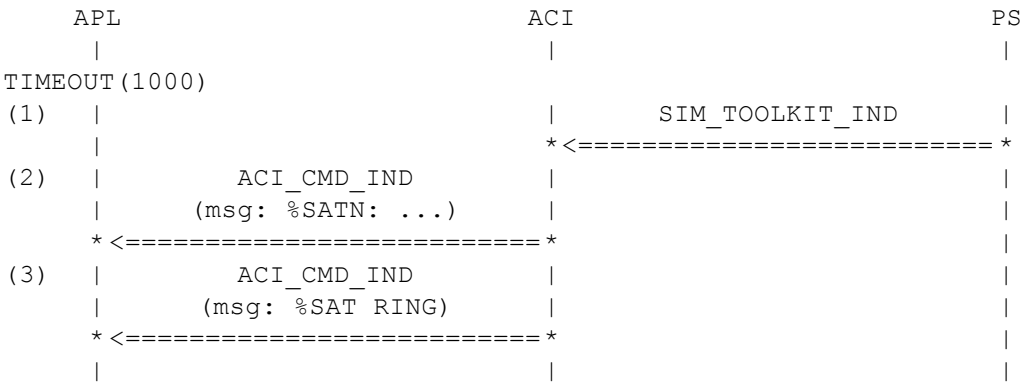
SAT invokes a setup call command. Call control by SIM is not allocated and activated. The user is alerted about a pending SAT call. Variant D, E are similar to variant A but with missing CR-Flags, variant F includes an icon identifier without CR flags, all these variant's have to be processed successfully.

Variants**:**

<A>....<F>

Preamble:

ACISAT011



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_IDLE
<B>	stk_cmd	SAT_CMD_CALL_HOLD
<C>	stk_cmd	SAT_CMD_CALL_DISC
<D>	stk_cmd	SAT_CMD_CALL_IDLE_CR1
<E>	stk_cmd	SAT_CMD_CALL_IDLE_CR2
<F>	stk_cmd	SAT_CMD_CALL_IDLE_ICON
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
<D>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<E>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<F>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE_ICON
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
<D>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE_CR1
<E>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE_CR2
<F>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE_ICON
(3) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History:			
	06.09.99	AK	Initial
	22.09.2000	FK	additional variants to evaluate CR problem

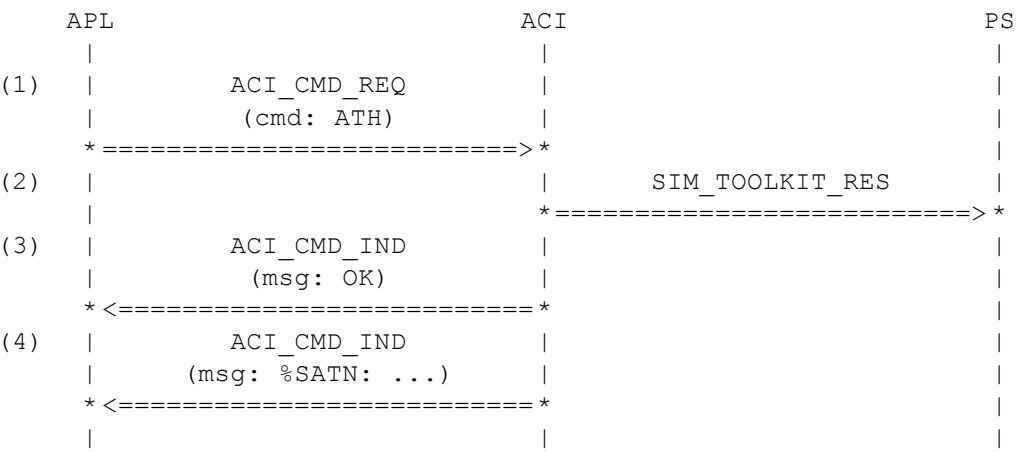
3.6.2 ACISAT151: Reject SAT Call Setup.

Description:

User rejects the call setup offered by SAT. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT150A



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_H
		cmd_seq	C_H
(2)	SIM_TOOLKIT_RES		
		stk_cmd	SAT_RES_REJ_UNMDFY_CALL
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(4)	ACI_CMD_IND		
		cmd_len	
		LM_PERCENT_SATN_RES_REJ_UNMDFY_CALL	
		cmd_seq	
		M_PERCENT_SATN_RES_REJ_UNMDFY_CALL	

History: 07.09.99 AK Initial

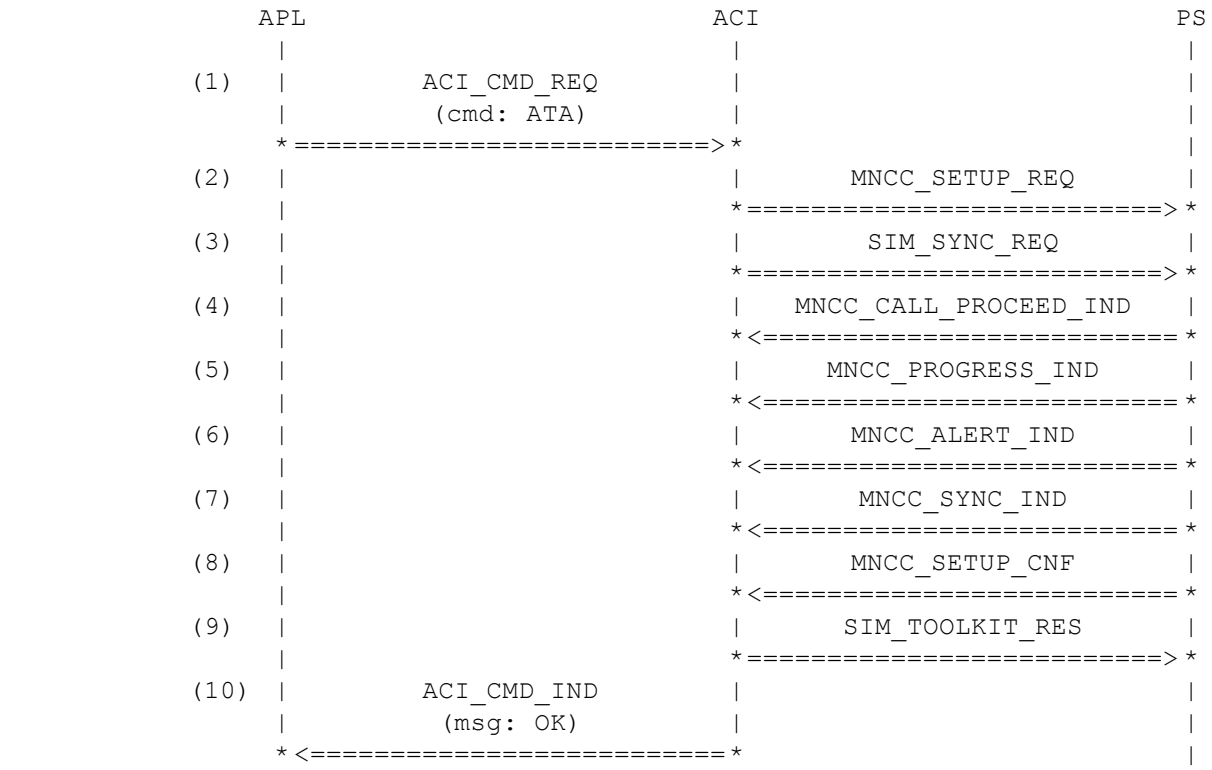
3.6.3 ACISAT152: Accept SAT Call Setup, connected successfully.

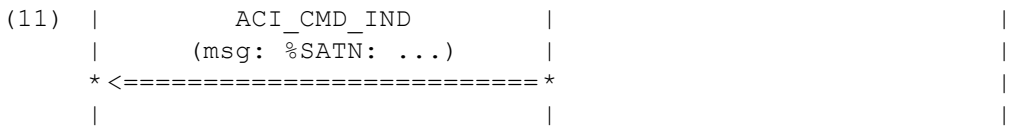
Description:

User accepts the call setup offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT150A





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(8) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(9) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_UNMDFY_CALL
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_UNMDFY_CALL
cmd_seq	M_PERCENT_SATN_RES_OK_UNMDFY_CALL

History:			
	07.09.99	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

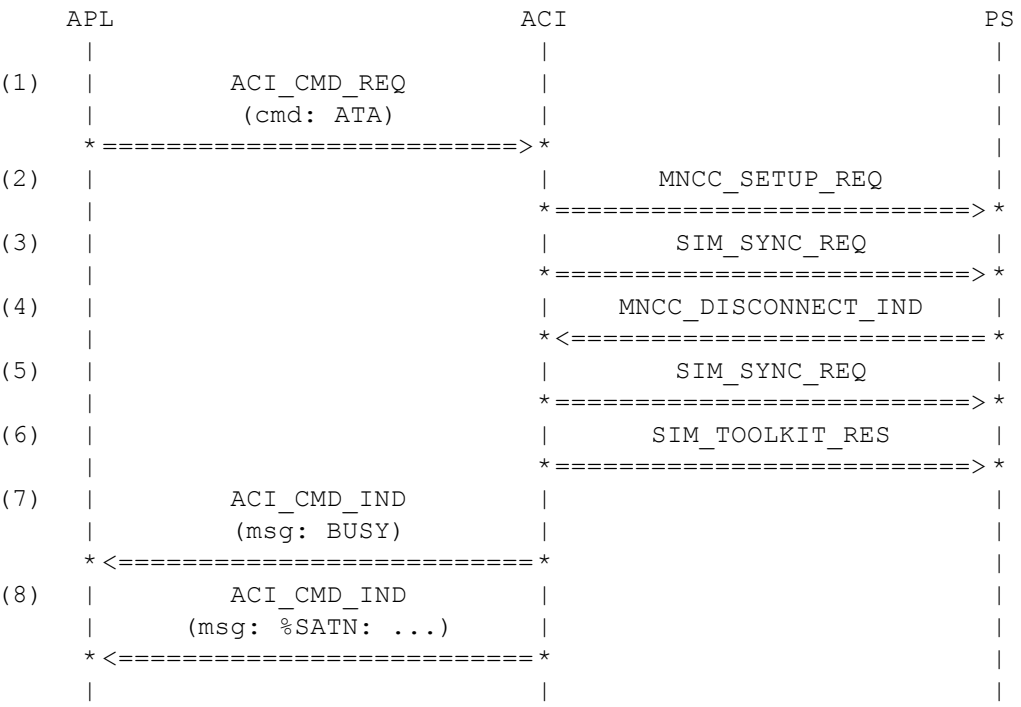
3.6.4 ACISAT153: Accept SAT Call Setup, network reject.

Description:

User accepts the call setup offered by SAT. The call is rejected by the network. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT150A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A

(2) 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

(3) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(4) MNCC_DISCONNECT_IND

ti	NUM_0
cause	MNCC_CAUSE_USER_BUSY
diagnostic	NOT_USED
progress_desc	PROG_NOT_PRES

(5) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(6) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_UNMDFY_CALL_NTW_ERR

(7) ACI_CMD_IND

cmd_len	LM_BUSY
cmd_seq	M_BUSY

(8) ACI_CMD_IND

cmd_len	
LM_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR	
cmd_seq	
M_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR	

History: 07.09.99 AK Initial

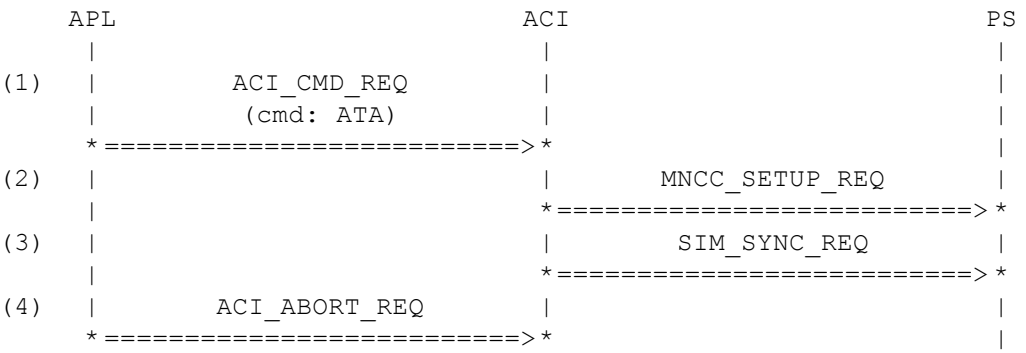
3.6.5 ACISAT154: Accept SAT Call Setup, user abort.

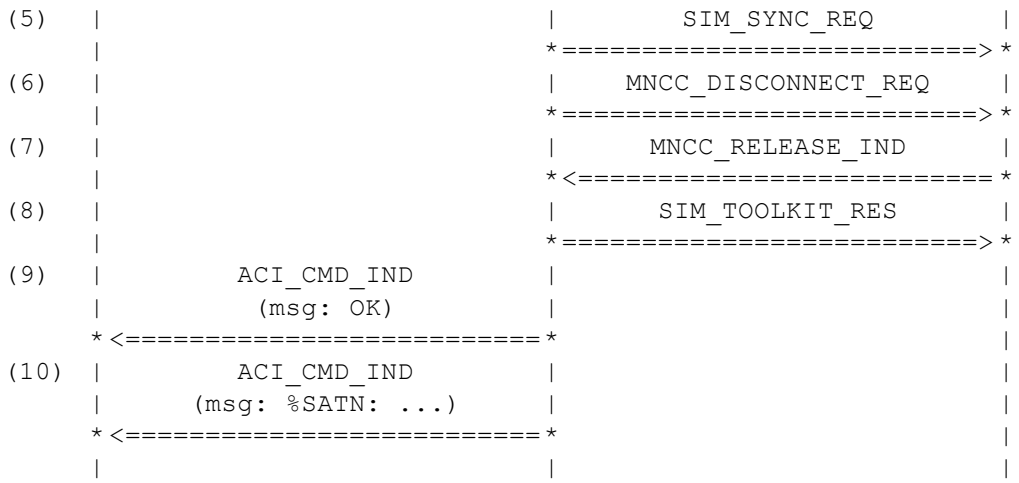
Description:

User accepts the call setup offered by SAT. The call establishment is aborted by the user. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT150A





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) ACI_ABORT_REQ		
	cmd_src	CMD_SRC_EXT
	cause	ABT_ABORT_CMD
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(7) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(8) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_UNMDFY_CALL_USR_ABT

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(10) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT
cmd_seq	M_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT

History:			
	07.09.99	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed))
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

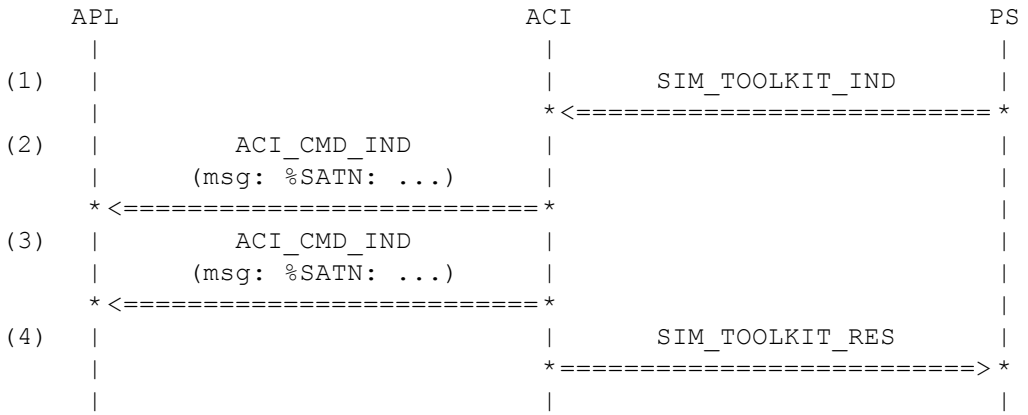
3.6.6 ACISAT155: Setup Call, no CC check by SIM, not in idle mode.

Description:

SAT invokes a setup call command. Call control by SIM is not allocated and activated. The command qualifier insists that the ME is in idle mode. Another call is active, SAT is informed about the unsuccessful operation.

Preamble:

ACISAT152



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(3) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_ME_NOT_IDLE
	cmd_seq	M_PERCENT_SATN_RES_ME_NOT_IDLE
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_ME_NOT_IDLE

History:			
	06.09.99	AK	Initial

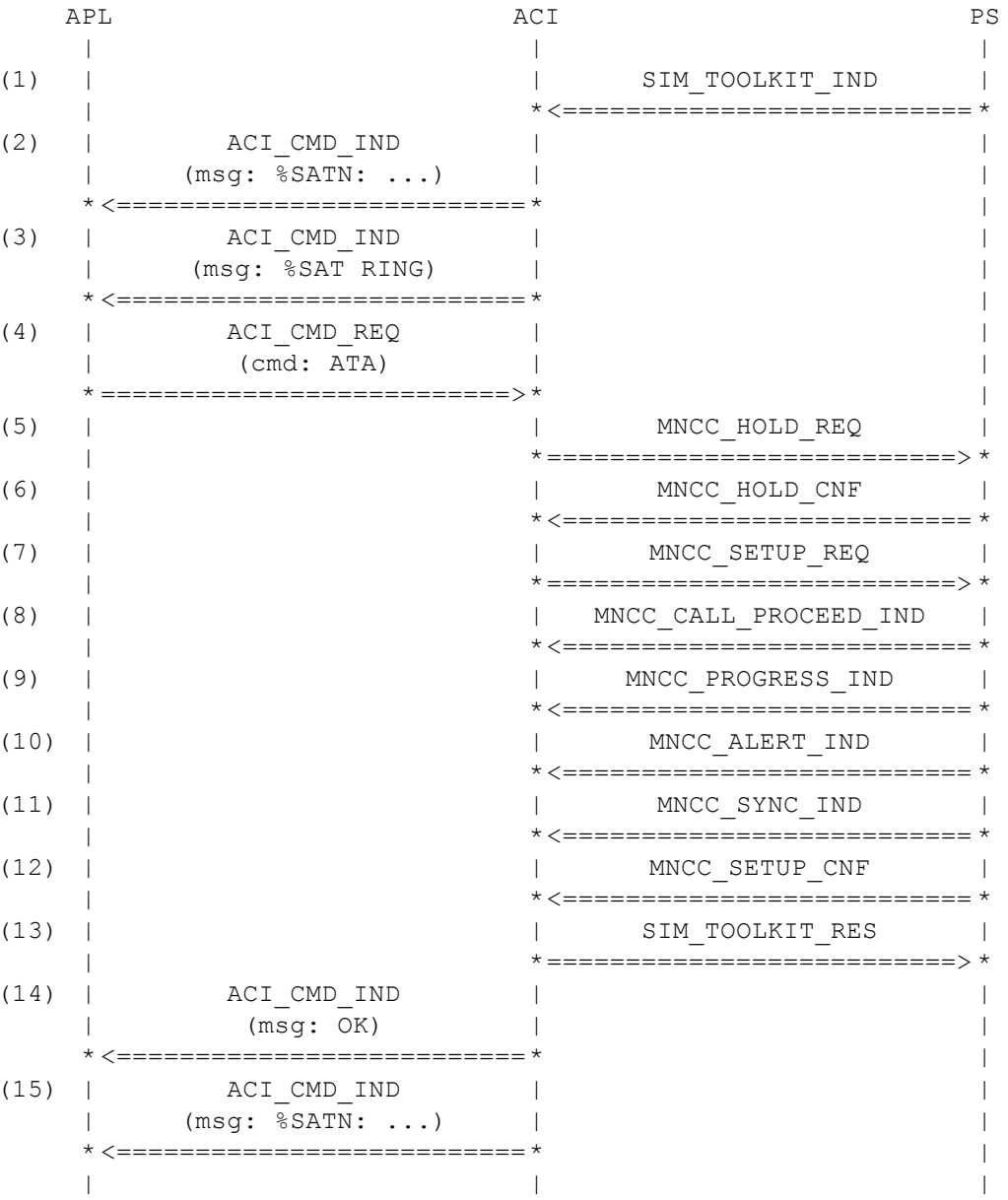
3.6.7 ACISAT156: Second SAT Call Setup, no CC check by SIM, connected successfully.

Description:

A second call setup is requested by SAT. User accepts the call setup offered by SAT. The first call is put on hold and the second call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT152



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_HOLD

(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
(3) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(5) MNCC_HOLD_REQ		
	ti	NUM_0
(6) MNCC_HOLD_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(7) 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	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(8) 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
(9) MNCC_PROGRESS_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(11) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(12) 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
(13) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_UNMDFY_CALL_HOLD

(14) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(15) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD
cmd_seq	M_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD

History:			
	07.09.1999	AK	Initial
	26.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

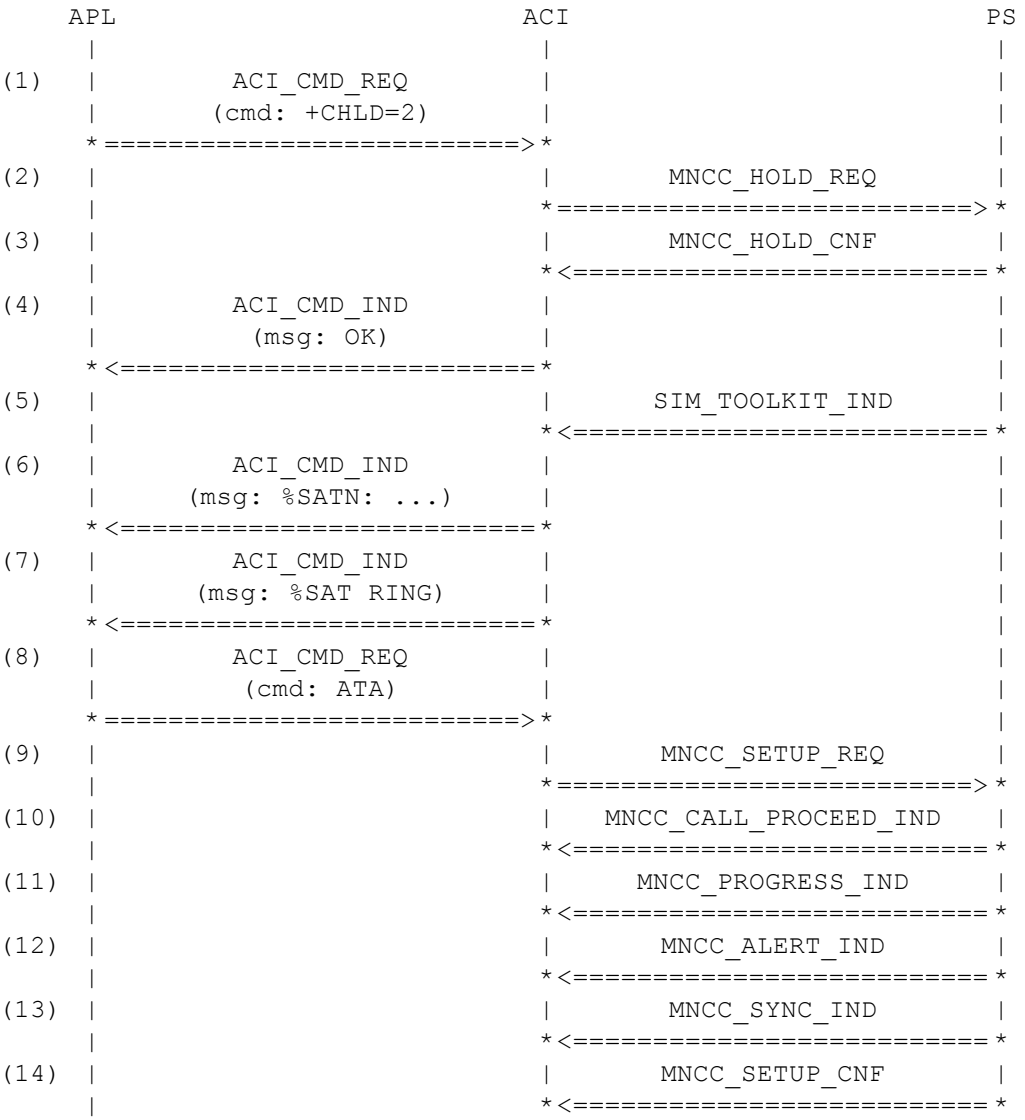
3.6.8 ACISAT157: Second SAT Call Setup first call already on hold, no CC check by SIM, connected suc.

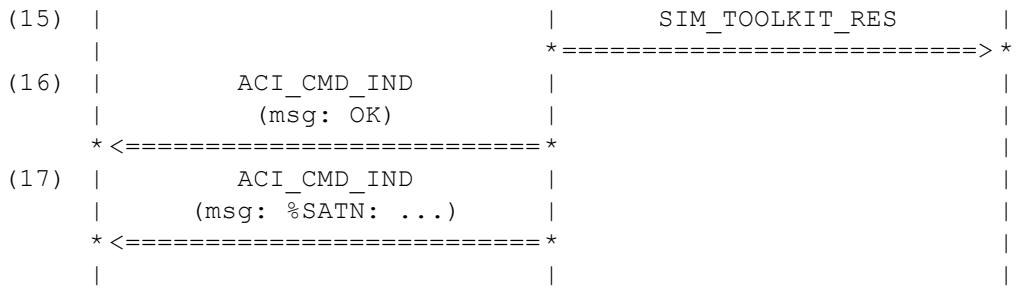
Description:

The first call is put on hold by the user. A second call setup is requested by SAT. User accepts the call setup offered by SAT. The second call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT152





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ		
	ti	NUM_0
(3) MNCC_HOLD_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_HOLD
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
(7) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(9) 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	NOT_PRESENT_8BIT
	fac_inf	NOT_USED

(10) 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

(11) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(12) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(13) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(14) 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

(15) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_UNMDFY_CALL_HOLD

(16) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(17) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD
cmd_seq	M_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD

History:			
	07.09.1999	AK	Initial
	26.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

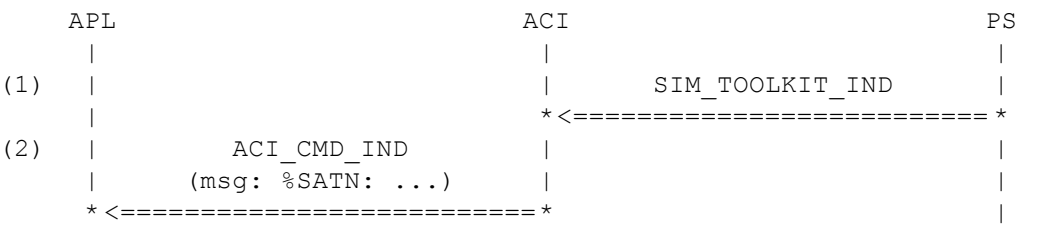
3.6.9 ACISAT158: Third SAT Call Setup first call already on hold, second call active, no CC check by SIM, beyond ME capability.

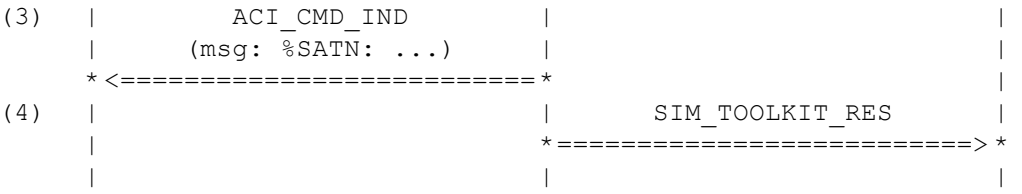
Description:

The first on hold, the second call is active. A third call is requested by SAT. The third call cannot be established because of ME capabilites. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT156





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_HOLD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
(3) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_UNMDFY_CALL_ME_CAP_HOLD
	cmd_seq	M_PERCENT_SATN_RES_UNMDFY_CALL_ME_CAP_HOLD
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_UNMDFY_CALL_ME_CAP_HOLD

History: 07.09.99 AK Initial

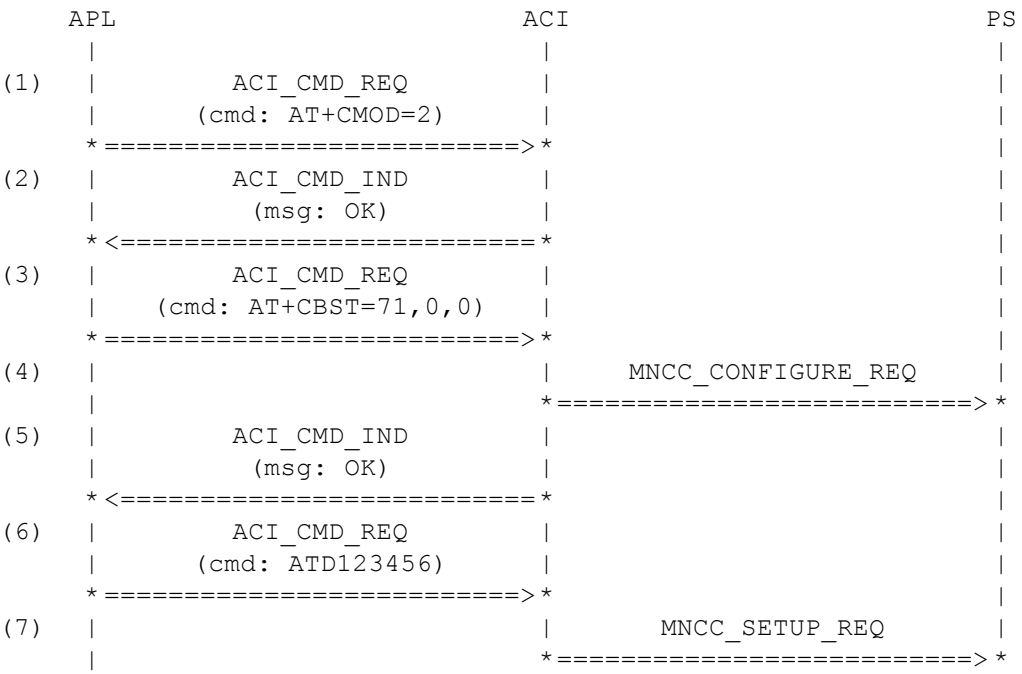
3.6.10 ACISAT159: SAT Call Setup with hold option, during an active data call, no CC check by SIM, beyond ME capability.

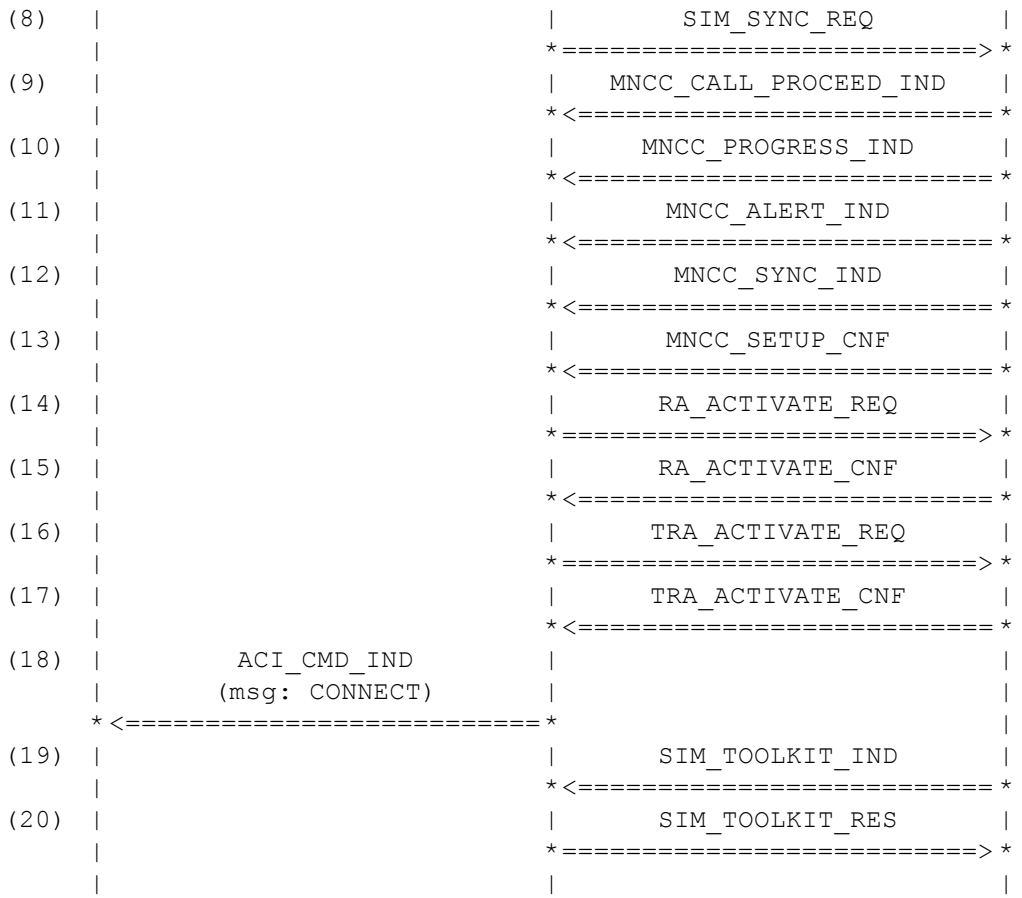
Description:

An active data call is in progress. A call setup is requested by SAT with the hold option. The SAT call cannot be established because of ME capabilites. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT001





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMOD_ALT_DAT
	cmd_seq	C_PLUS_CMOD_ALT_DAT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CBST_9600_ASY_TRA
	cmd_seq	C_PLUS_CBST_9600_ASY_TRA
(4) MNCC_CONFIGURE_REQ		
	called_party_sub	NOT_USED
	bcpara	NOT_USED
	sns_mode	NOT_USED
	ctm_ena	NOT_USED
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_DAT
	cmd_seq	C_D_DAT
(7) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_CIRCULAR
	bcpara	S_BS_DAT_9600_ASY_TRA
	bcpara2	S_BS_VOICE
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(8) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(9) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_CIRCULAR
	bcpara	S_BS_DAT_9600_ASY_TRA
	bcpara2	S_BS_VOICE
(10) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(12) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_FULL_9600
(13) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(14) RA_ACTIVATE_REQ		
	model	RA_MODEL_TRANS
	tra_rate	TRA_FULLRATE_9600
	user_rate	URA_9600
	ndb	NUM_8
	nsb	NUM_1
(15) RA_ACTIVATE_CNF		
	ack_flg	RA_ACK
(16) TRA_ACTIVATE_REQ		
(17) TRA_ACTIVATE_CNF		
	ack_flg	TRA_ACK

(18) ACI_CMD_IND			
	cmd_len		LM_CONNECT
	cmd_seq		M_CONNECT
(19) SIM_TOOLKIT_IND			
	stk_cmd		SAT_CMD_CALL_HOLD
(20) SIM_TOOLKIT_RES			
	stk_cmd		SAT_RES_UNMDFY_CALL_ME_CAP_HOLD

History:	07.09.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

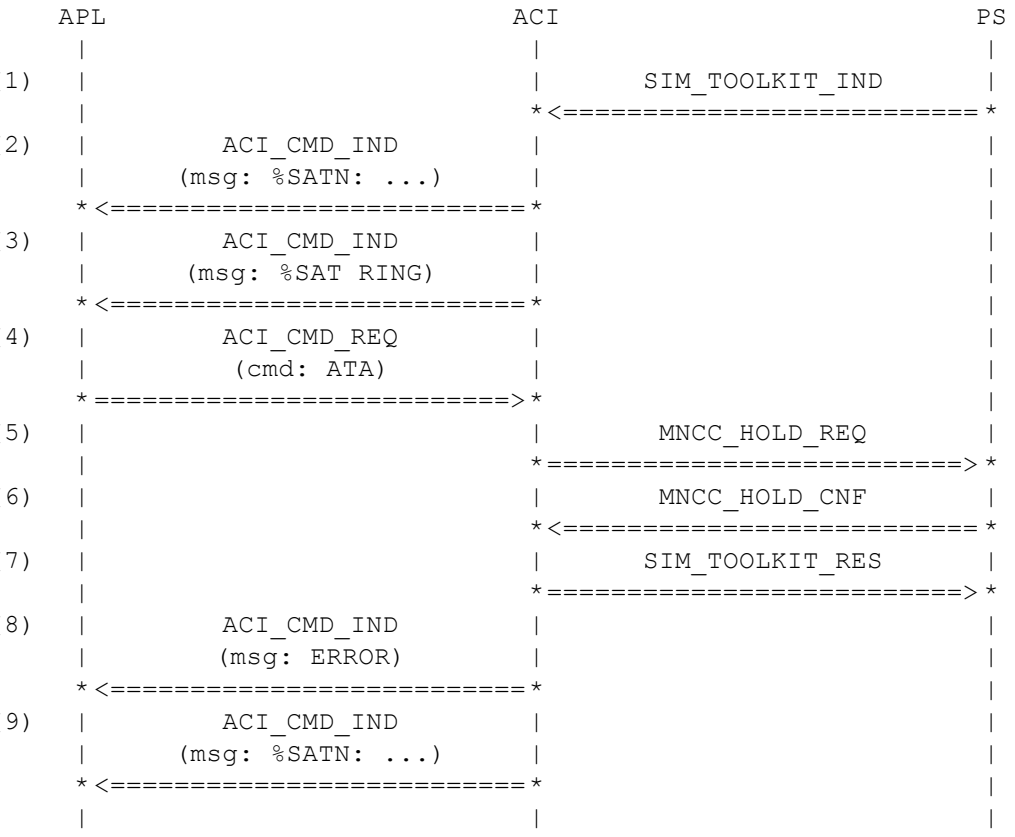
3.6.11 ACISAT160: Second SAT Call Setup, no CC check by SIM, call hold of first call not supported.

Description:

A second call setup is requested by SAT. User accepts the call setup offered by SAT. The attempt to put the first call on hold fails. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT152



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_HOLD

(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
(3) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(5) MNCC_HOLD_REQ		
	ti	NUM_0
(6) MNCC_HOLD_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_FACILITY_REJECT
(7) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN
(8) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(9) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN
	cmd_seq	M_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN

History: 07.09.99 AK Initial

3.6.12 ACISAT161: Third SAT Call Setup disconnect other calls, no CC check by SIM, connected successfully.

Description:

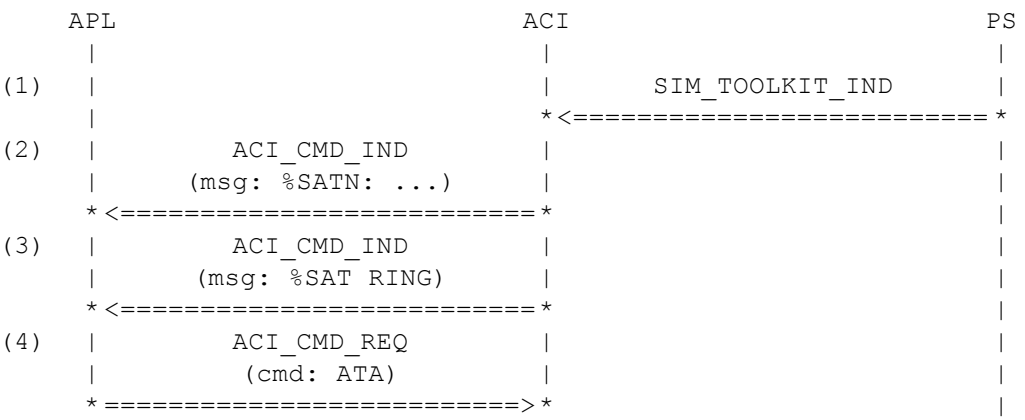
A third call setup is requested by SAT. User accepts the call setup offered by SAT. The other calls are disconnected before the third call is connected successfully. SAT is informed about the successful operation.

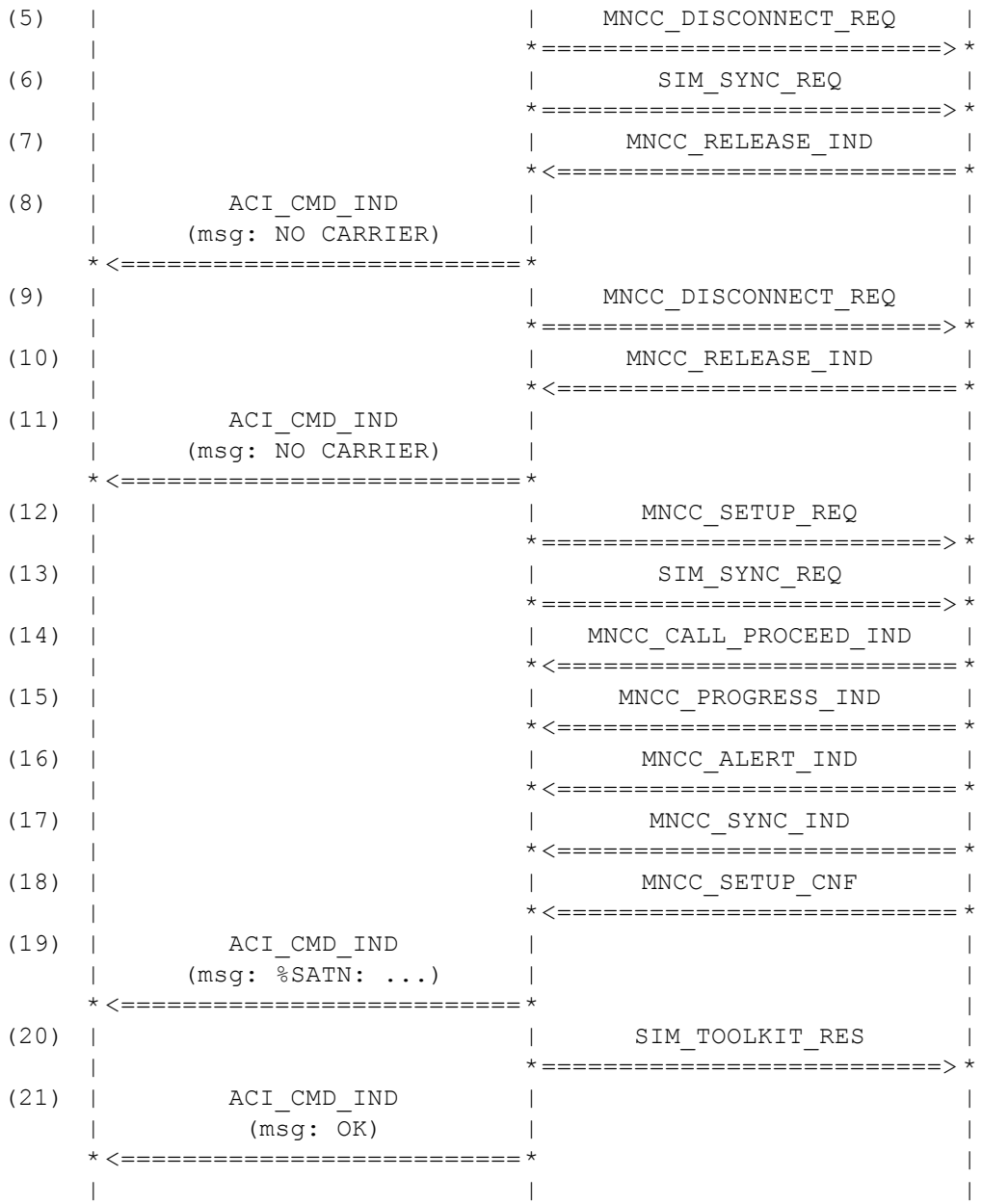
Variants**:**

<A>....<C>

Preamble:

ACISAT157





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_DISC
<B>	stk_cmd	SAT_CMD_CALL_DISC2
<C>	stk_cmd	SAT_CMD_CALL_DISC3
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC2
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC3
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC2
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC3

(3)	ACI_CMD_IND		
		cmd_len	LM_SATA
		cmd_seq	M_SATA
(4)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_A
		cmd_seq	C_A
(5)	MNCC_DISCONNECT_REQ		
		ti	NUM_0
		cause	MNCC_CAUSE_CALL_CLEAR
		fac_inf	FACILITY_NONE
		ss_version	SS_VER_NOT_PRES
(6)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL
(7)	MNCC_RELEASE_IND		
		ti	NUM_1
		cause	MNCC_CAUSE_CALL_CLEAR
(8)	ACI_CMD_IND		
		cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER
(9)	MNCC_DISCONNECT_REQ		
		ti	NUM_1
		cause	MNCC_CAUSE_CALL_CLEAR
		fac_inf	FACILITY_NONE
		ss_version	SS_VER_NOT_PRES
(10)	MNCC_RELEASE_IND		
		ti	NUM_0
		cause	MNCC_CAUSE_CALL_CLEAR
(11)	ACI_CMD_IND		
		cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER
(12)	MNCC_SETUP_REQ		
		ti	NUM_0
		prio	PRIO_NORM_CALL
		ri	RI_NOT_PRES
		bcpara	S_BS_VOICE
		bcpara2	S_BS_NOT_PRESENT
<A>		called_party	S_CLD_PARTY
<B>		called_party	S_CLD_PARTY_INT3
<C>		called_party	S_CLD_PARTY_INT3
		called_party_sub	NOT_USED
		clir_sup	NOT_PRESENT_8BIT
		fac_inf	NOT_USED
(13)	SIM_SYNC_REQ		
		synccs	SYNC_START_CALL

(14) 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

(15) MNCC_PROGRESS_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(16) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(17) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(18) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(19) ACI_CMD_IND

cmd_len
LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC
cmd_seq
M_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC

(20) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_UNMDFY_CALL_DISC

(21) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:			
	07.09.1999	AK	Initial
	26.10.2000	FK	MMI_SPEECH_MODE_REQ added (Routing for PL changed))
	28.08.2002	RM	MNCC_DISCONNECT_REQ new parameter,

MMI_SPEECH_MODE_REQ deleted, third call ti changed

3.6.13 ACISAT162: Setup Call, CC check by SIM, no modification.

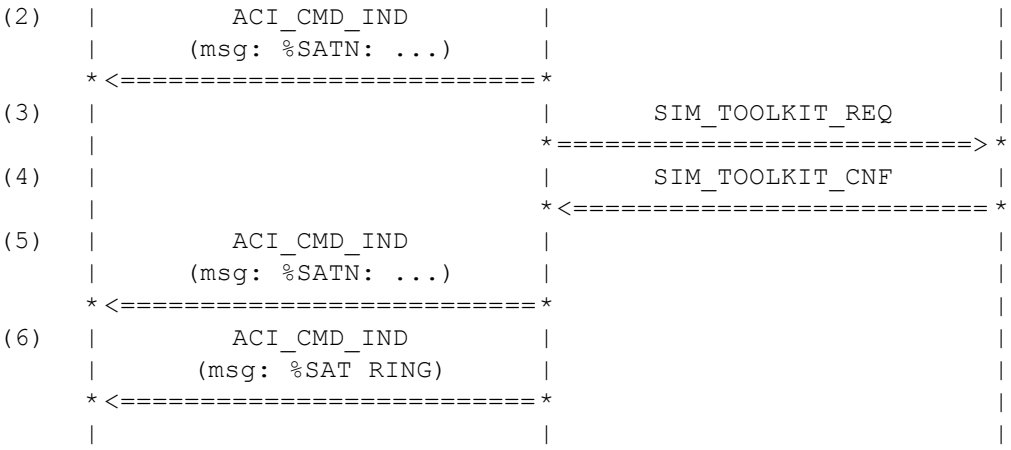
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is not modified. The user is alerted about a pending SAT call.

Preamble:

ACISAT014

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



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_IDLE
<B>	stk_cmd	SAT_CMD_CALL_HOLD
<C>	stk_cmd	SAT_CMD_CALL_DISC
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
(6) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History: 07.09.99 AK Initial

3.6.14 ACISAT163: Setup Call, CC check by SIM, not allowed.

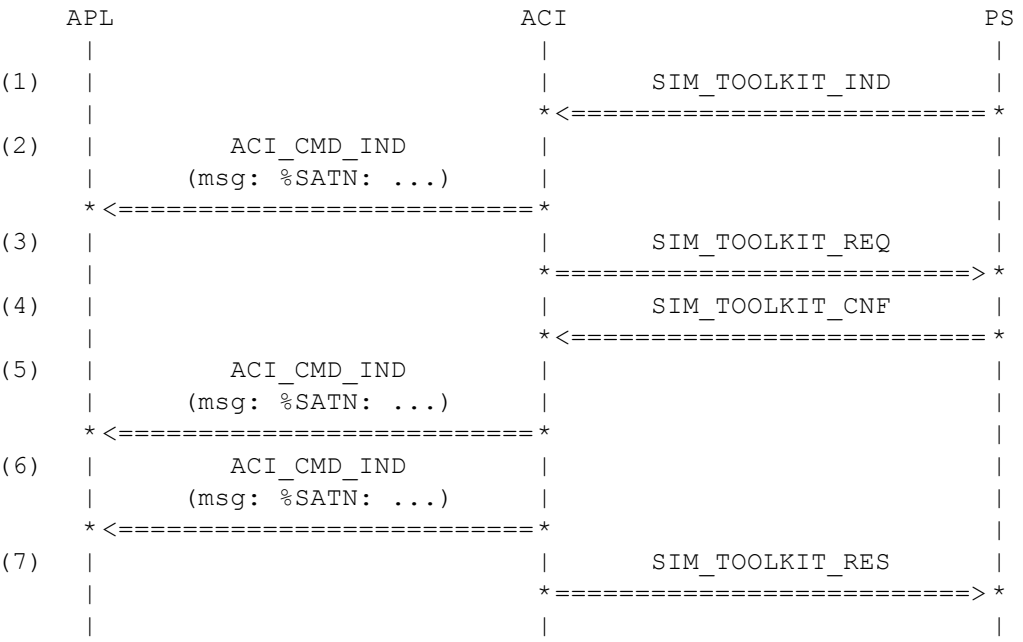
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is not allowed. SAT is informed about unsuccessful operation.

Preamble:

ACISAT014

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



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_IDLE
<B>	stk_cmd	SAT_CMD_CALL_HOLD
<C>	stk_cmd	SAT_CMD_CALL_DISC
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NOT_ALLW

(5) ACI_CMD_IND

	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW
	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW

(6) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE
<B>	cmd_len	LM_PERCENT_SATN_RES_CALL_NOT_ALLW_HOLD
<C>	cmd_len	LM_PERCENT_SATN_RES_CALL_NOT_ALLW_DISC
<A>	cmd_seq	M_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE
<B>	cmd_seq	M_PERCENT_SATN_RES_CALL_NOT_ALLW_HOLD
<C>	cmd_seq	M_PERCENT_SATN_RES_CALL_NOT_ALLW_DISC

(7) SIM_TOOLKIT_RES

<A>	stk_cmd	SAT_RES_CALL_NOT_ALLW_IDLE
<B>	stk_cmd	SAT_RES_CALL_NOT_ALLW_HOLD
<C>	stk_cmd	SAT_RES_CALL_NOT_ALLW_DISC

History: 07.09.99 AK Initial

3.6.15 ACISAT164: Setup Call, CC check by SIM, modified call.

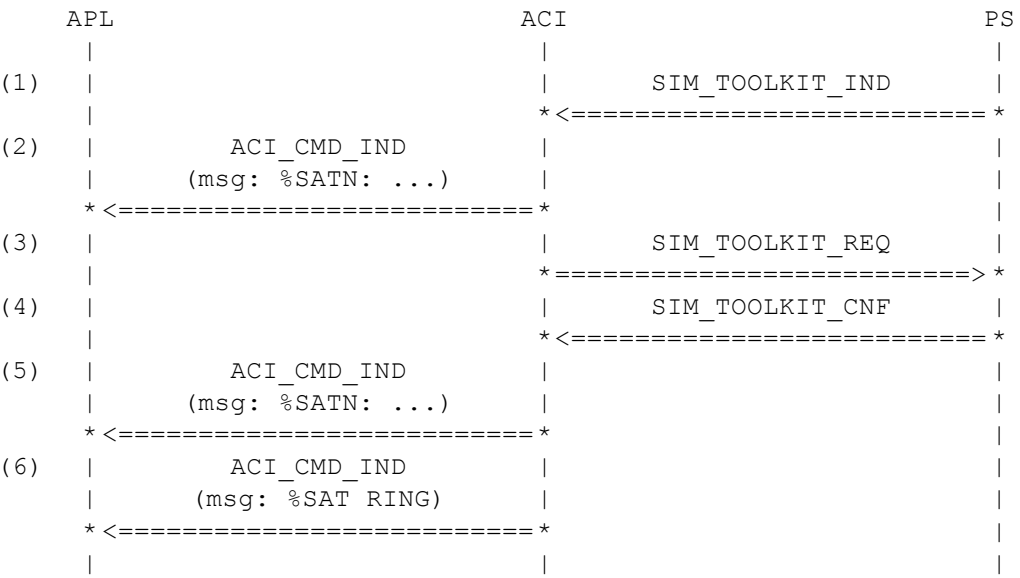
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup parameter are modified. The user is alerted about a pending SAT call.

Preamble:

ACISAT014

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



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_IDLE
<B>	stk_cmd	SAT_CMD_CALL_HOLD
<C>	stk_cmd	SAT_CMD_CALL_DISC

(2)	ACI_CMD_IND		
	<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
	<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
	<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
	<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
	<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
(3)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	SRQ_ACI
		stk_cmd	ENV_CMD_CC_VOICE
(4)	SIM_TOOLKIT_CNF		
		cause	SIM_NO_ERROR
		req_id	SRQ_ACI
		stk_cmd	ENV_RES_CC_MDFY_CAL
(5)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_CAL
		cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_CAL
(6)	ACI_CMD_IND		
		cmd_len	LM_SATA
		cmd_seq	M_SATA

History: 09.09.99 AK Initial

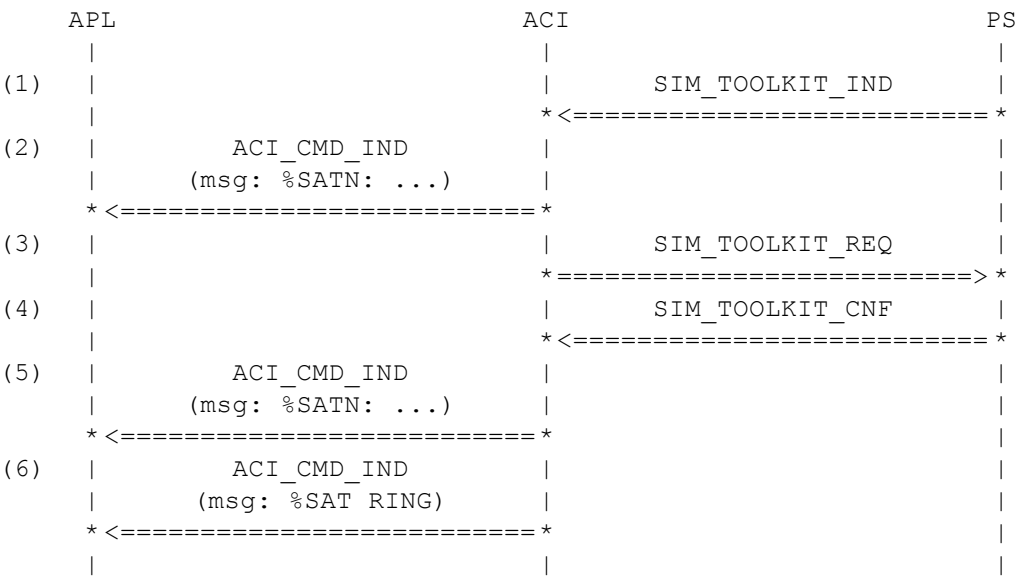
3.6.16 ACISAT165: Setup Call, CC check by SIM, modified emergency call.

Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup parameter are modified to a emergency call. The user is alerted about a pending SAT call.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_MDFY_ECC
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_ECC
	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_ECC
(6) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History: 09.09.99 AK Initial

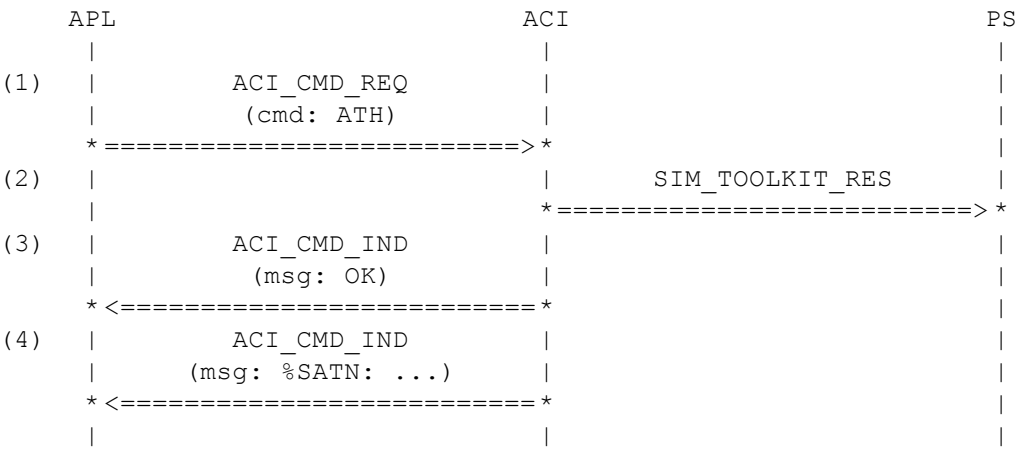
3.6.17 ACISAT170: Reject Unmodified SAT Call.

Description:

User rejects the modified call offered by SAT. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT162A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_H
	cmd_seq	C_H
(2) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_REJ_UNMDFY_CALL
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_REJ_UNMDFY_CALL
	cmd_seq	M_PERCENT_SATN_RES_REJ_UNMDFY_CALL

History: 03.09.99 AK Initial

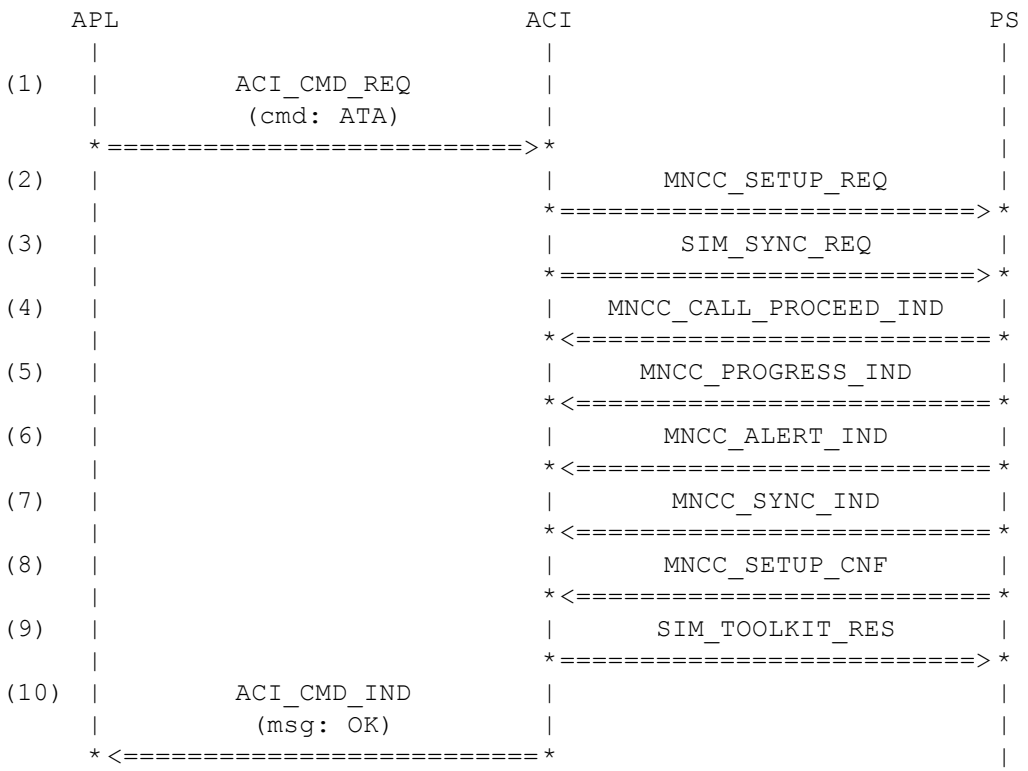
3.6.18 ACISAT171: Accept Unmodified SAT Call, connected successfully.

Description:

User accepts the unmodified call offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT162A



```
(11)  |         ACI_CMD_IND         |                              |
      |      (msg: %SATN: ...)      |                              |
      *<==========================*                                |
      |                             |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(8) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(9) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_UNMDFY_CALL
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_UNMDFY_CALL
cmd_seq	M_PERCENT_SATN_RES_OK_UNMDFY_CALL

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

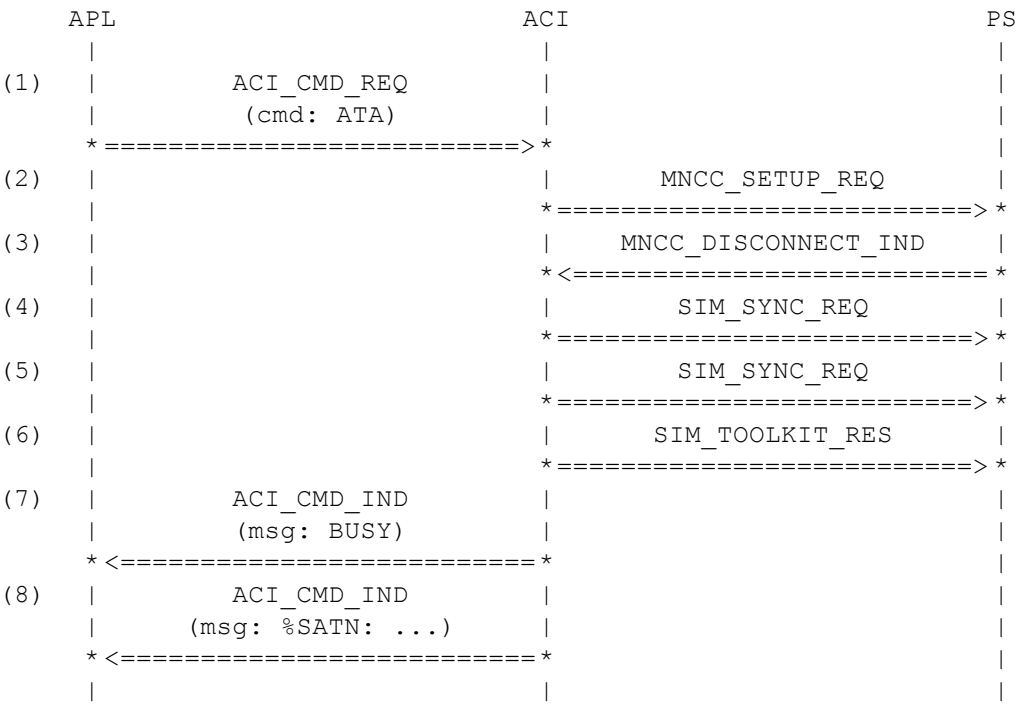
3.6.19 ACISAT172: Accept Unmodified SAT Call, network reject.

Description:

User accepts the modified call offered by SAT. The call is rejected by the network. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT162A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A

(2) 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

(3) MNCC_DISCONNECT_IND

ti	NUM_0
cause	MNCC_CAUSE_USER_BUSY
diagnostic	NOT_USED
progress_desc	PROG_NOT_PRES

(4) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(5) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(6) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_UNMDFY_CALL_NTW_ERR

(7) ACI_CMD_IND

cmd_len	LM_BUSY
cmd_seq	M_BUSY

(8) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR
cmd_seq	M_PERCENT_SATN_RES_UNMDFY_CALL_NTW_ERR

History: 22.07.99 AK Initial

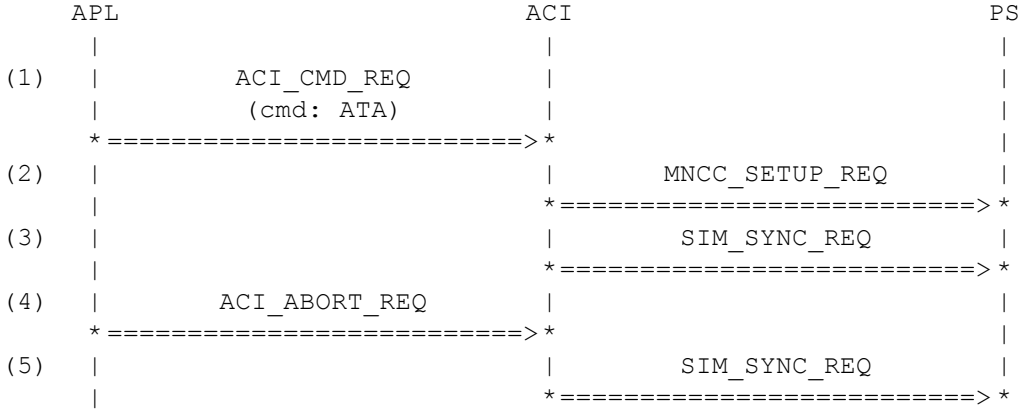
3.6.20 ACISAT173: Accept Unmodified SAT Call, user abort.

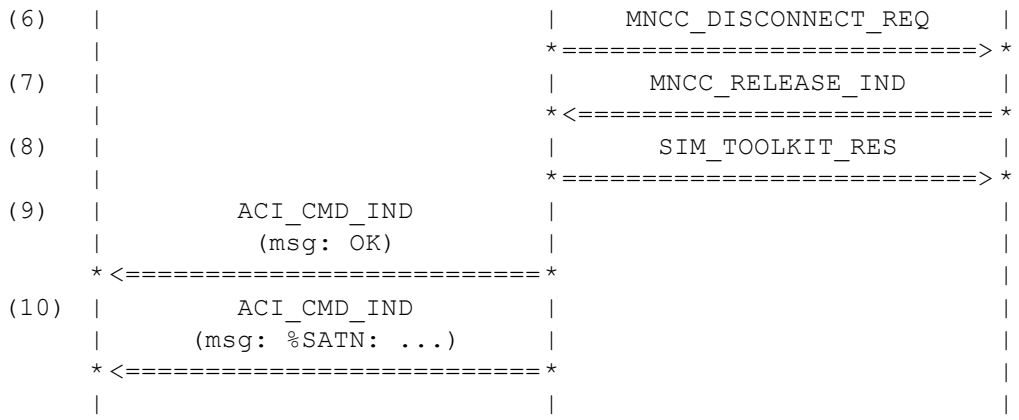
Description:

User accepts the modified call offered by SAT. The call establishment is aborted by the user. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT162A





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) ACI_ABORT_REQ		
	cmd_src	CMD_SRC_EXT
	cause	ABT_ABORT_CMD
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(7) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(8) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_UNMDFY_CALL_USR_ABT
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(10) ACI_CMD_IND

cmd_len	
LM_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT	
cmd_seq	
M_PERCENT_SATN_RES_UNMDFY_CALL_USR_ABT	

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed))
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

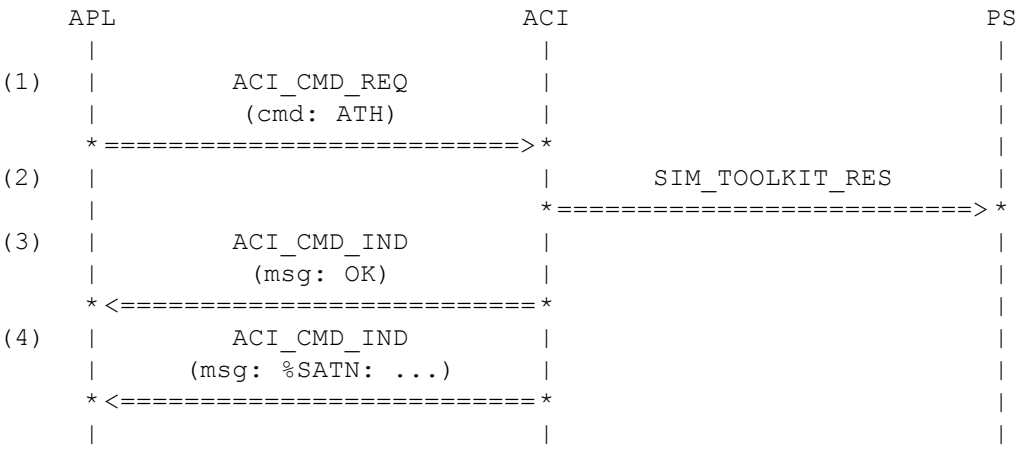
3.6.21 ACISAT174: Reject Modified SAT Call.

Description:

User rejects the modified call offered by SAT. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT164A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_H
	cmd_seq	C_H
(2) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_REJ_MDFY_CALL_IDLE
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_REJ_MDFY_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_RES_REJ_MDFY_CALL_IDLE

History:			
	09.09.1999	AK	Initial

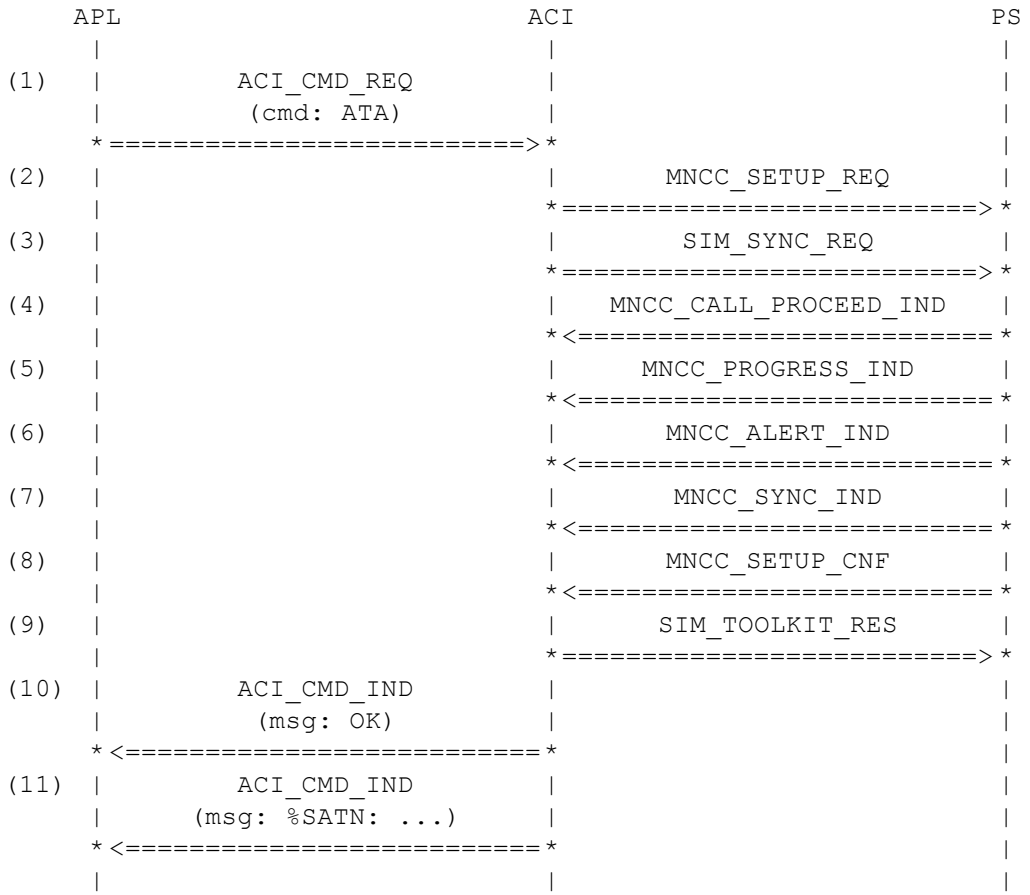
3.6.22 ACISAT175: Accept Modified SAT Call, connected successfully.

Description:

User accepts the modified call offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT164A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED

(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(8) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(9) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_MDFY_CALL_IDLE
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(11) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_CALL_IDLE

History:	22.07.99	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

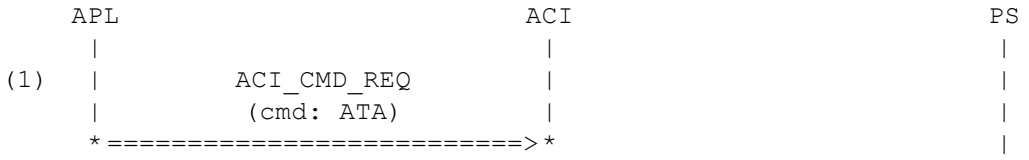
3.6.23 ACISAT176: Accept Modified SAT Call, network reject.

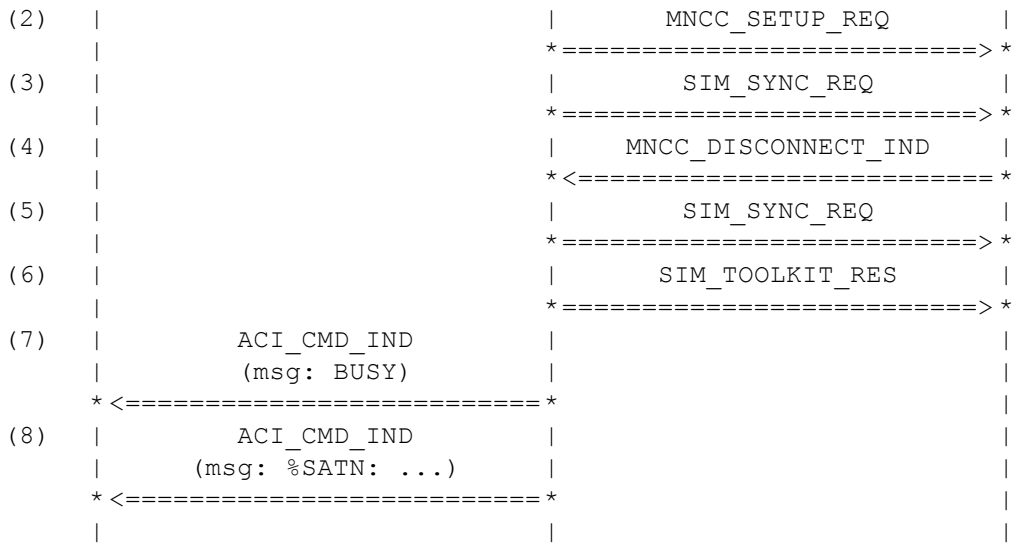
Description:

User accepts the modified call offered by SAT. The call is rejected by the network. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT164A





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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_MDFY
	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	NOT_USED
	progress_desc	PROG_NOT_PRES
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_MDFY_CALL_NTW_ERR_IDLE
(7) ACI_CMD_IND		
	cmd_len	LM_BUSY
	cmd_seq	M_BUSY

(8) ACI_CMD_IND

cmd_len	
LM_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR_IDLE	
cmd_seq	
M_PERCENT_SATN_RES_MDFY_CALL_NTW_ERR_IDLE	

History: 22.07.99 AK Initial

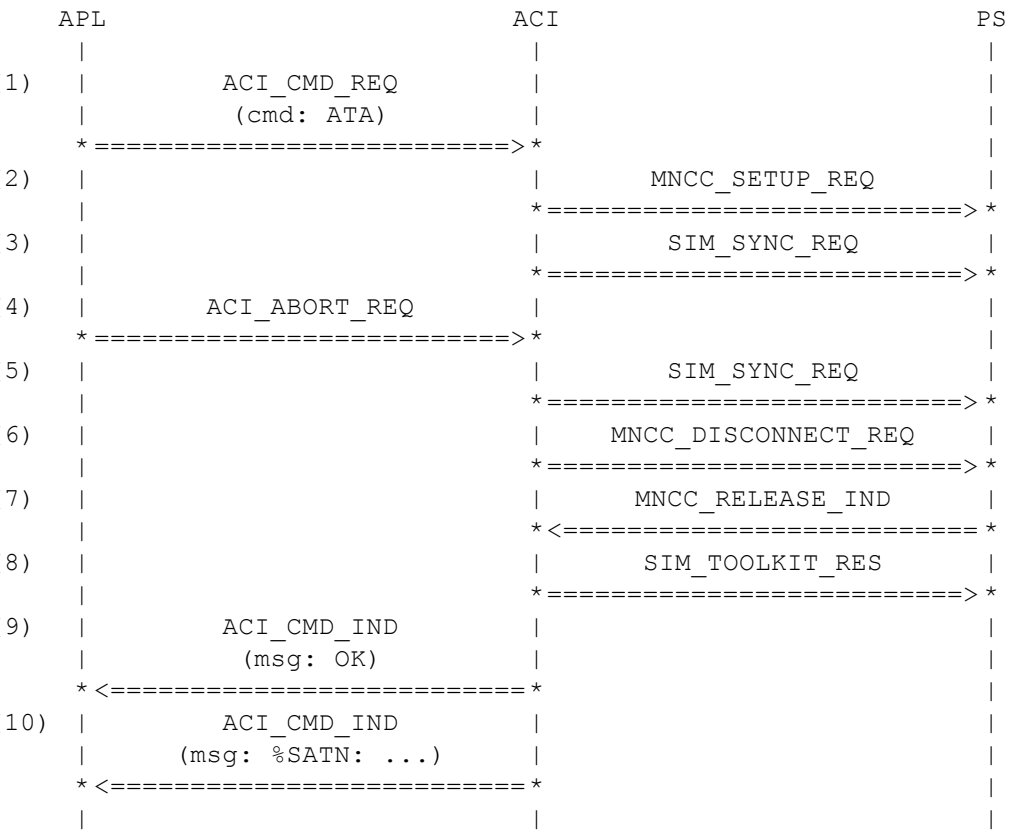
3.6.24 ACISAT177: Accept Modified SAT Call, user abort.

Description:

User accepts the modified call offered by SAT. The call establishment is aborted by the user. SAT is informed about the unsuccessful operation.

Preamble:

ACISAT164A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A

(2) 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_MDFY
called_party_sub	S_CLD_PARTY_SUB_MDFY
clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED

(3) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(4) ACI_ABORT_REQ

cmd_src	CMD_SRC_EXT
cause	ABT_ABORT_CMD

(5) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(6) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	FACILITY_NONE
ss_version	SS_VER_NOT_PRES

(7) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

(8) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_MDFY_CALL_USR_ABT_IDLE

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(10) ACI_CMD_IND

cmd_len	
LM_PERCENT_SATN_RES_MDFY_CALL_USR_ABT_IDLE	
cmd_seq	M_PERCENT_SATN_RES_MDFY_CALL_USR_ABT_IDLE

History:			
	22.07.1999	AK	Initial
	25.10.2000	FK	MMI_SPEECH_MODE_REQ added (Routing for PL changed))
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

3.6.25 ACISAT178: Accept Modified SAT Emergency Call, connected successfully.

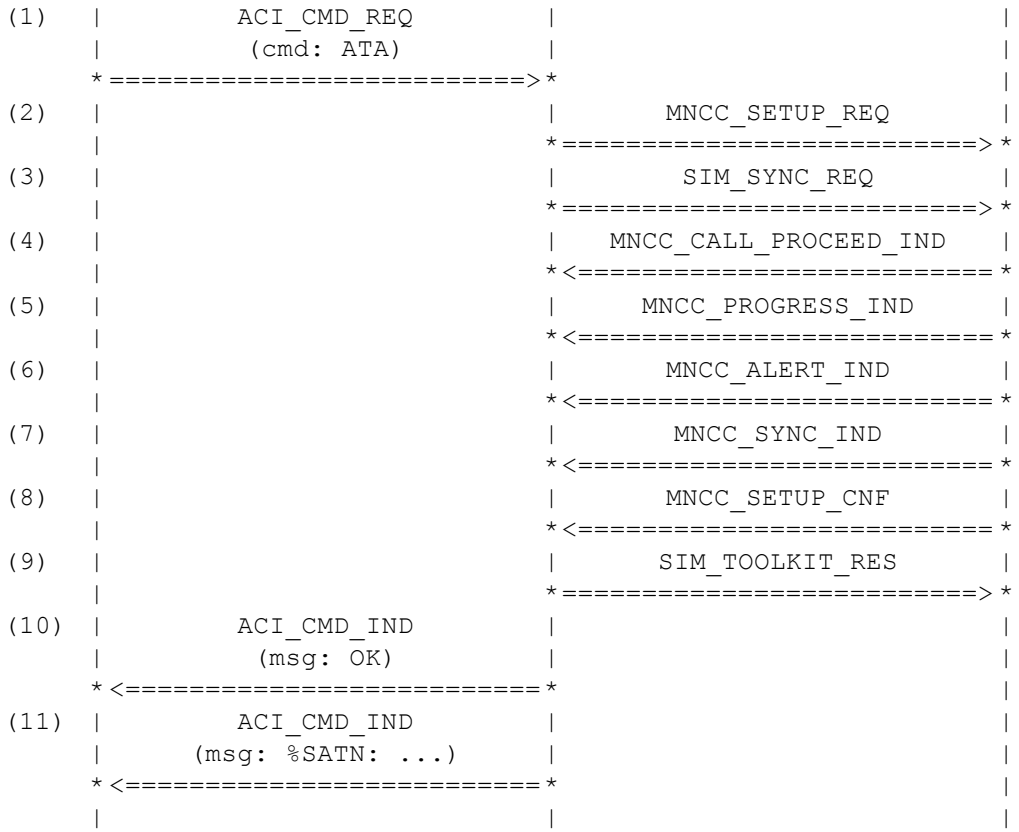
Description:

User accepts the modified emergency call offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT165

```
APL                    ACI                    PS
 |                      |                      |
```



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_EMERG_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY_ECC
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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

(5) MNCC_PROGRESS_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(6) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(7) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(8) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(9) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_MDFY_CALL_ECC

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_CALL_ECC
cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_CALL_ECC

History:			
	22.07.99	AK	Initial
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

3.6.26 ACISAT180: Setup Call, CC check by SIM, modification to SS string.

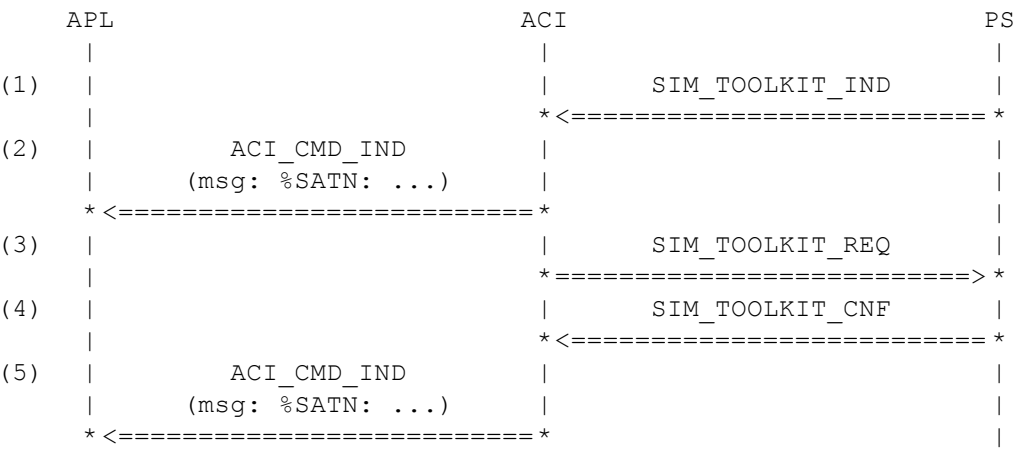
Description:

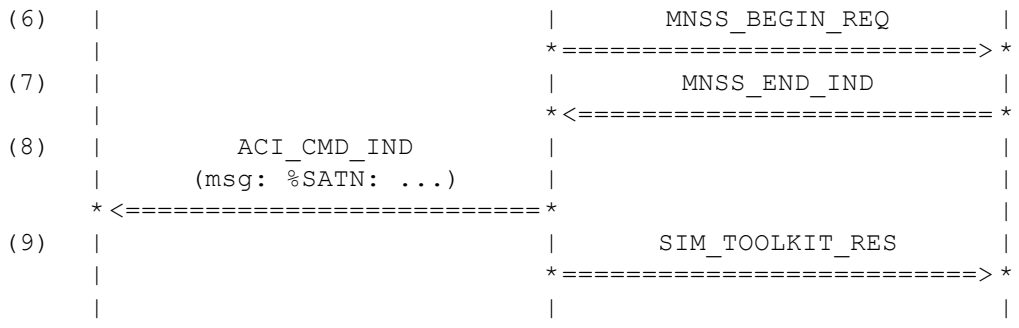
SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is modified to a SS string. The SS transaction is started and completed successfully. SAT is informed about the successful operation

Preamble:

ACISAT014

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





Parametrization:

Primitive	Parameter	Value
(12) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_IDLE
<B>	stk_cmd	SAT_CMD_CALL_HOLD
<C>	stk_cmd	SAT_CMD_CALL_DISC
(13) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
(14) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(15) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_MDFY_SS
(16) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS
	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS
(8) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLOUT_DEACT
	ss_ver	NOT_USED
(9) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_ALLOUT_DEACT_RES
(17) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_SS_IDLE
<B>	cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_SS_HOLD
<C>	cmd_len	LM_PERCENT_SATN_RES_OK_MDFY_SS_DISC
<A>	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE
<B>	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_SS_HOLD
<C>	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_SS_DISC

(10) SIM_TOOLKIT_RES

<A>	stk_cmd	SAT_RES_OK_MDFY_SS_IDLE
<B>	stk_cmd	SAT_RES_OK_MDFY_SS_HOLD
<C>	stk_cmd	SAT_RES_OK_MDFY_SS_DISC

History: 07.09.99 AK Initial

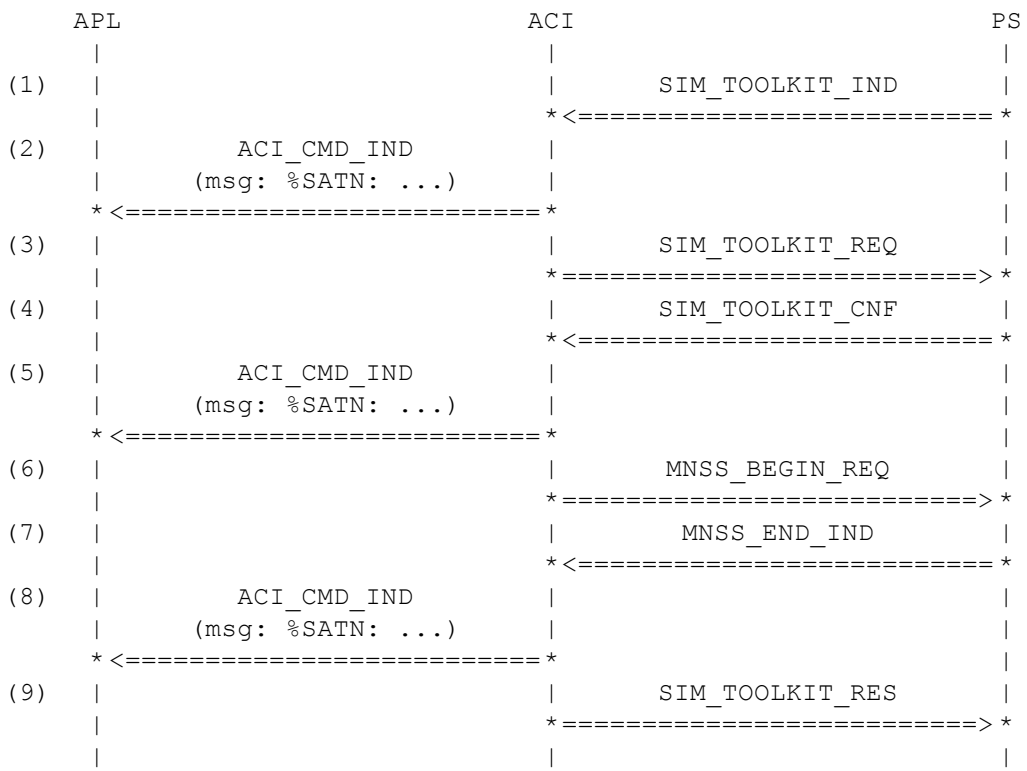
3.6.27 ACISAT181: Setup Call, CC check by SIM, modification to SS string, error result.

Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is modified to a SS string. The SS transaction is started and completed with an error result. SAT is informed about the unsuccessful operation

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE

(4) SIM_TOOLKIT_CNF

cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_CC_MDFY_SS

(5) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS
cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS

(11) MNSS_BEGIN_REQ

ti	NUM_0
fac_inf	FAC_KSD_ALLOUT_DEACT
ss_ver	NOT_USED

(12) MNSS_END_IND

ti	NUM_0
cause	SS_NO_ERROR
fac_inf	FAC_KSD_ALLOUT_DEACT_ERR

(6) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_MDFY_SS_ERR_IDLE
cmd_seq	M_PERCENT_SATN_RES_MDFY_SS_ERR_IDLE

(13) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_MDFY_SS_ERR_IDLE

History: 08.09.99 AK Initial

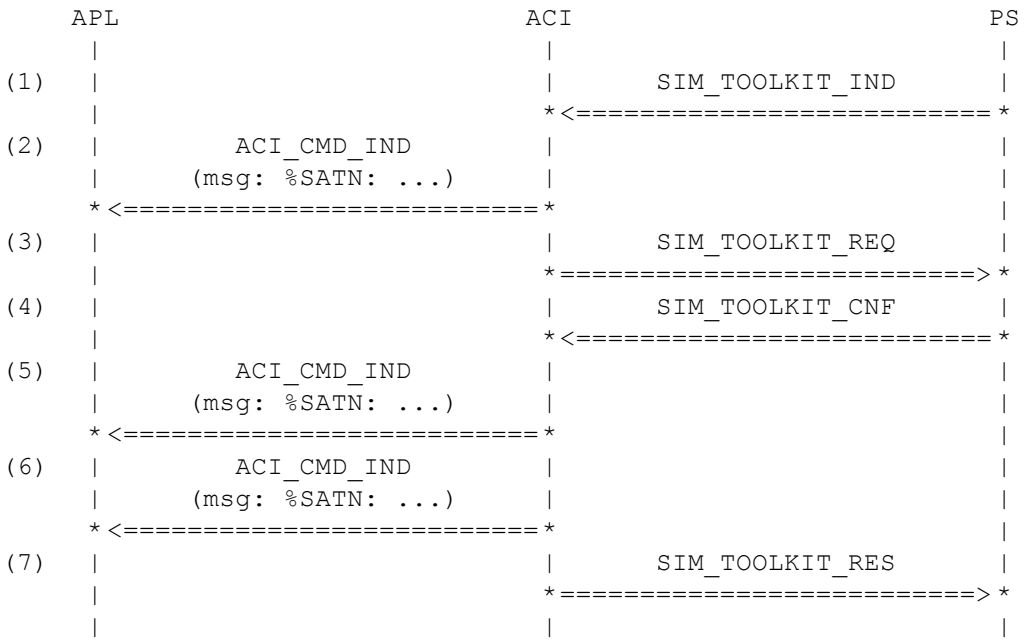
3.6.28 ACISAT182: Setup Call, CC check by SIM, modification to SS string, ME capability.

Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is modified to a SS string. The SS string is unknown to the ME. SAT is informed about the unsuccessful operation

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(7) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(8) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(9) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(10) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_MDFY_SS_UNKNOWN
(11) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS_UNKNOWN
	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS_UNKNOWN
(12) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_MDFY_SS_ME_CAP_IDLE
	cmd_seq	M_PERCENT_SATN_RES_MDFY_SS_ME_CAP_IDLE
(14) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_MDFY_SS_ME_CAP_IDLE

History:			
	08.09.99	AK	Initial
	09.11.2000	CLB	changes in M_PERCENT_SATN_RES_MDFY_SS_ME_CAP_IDLE: tag 0x05 to 0x85

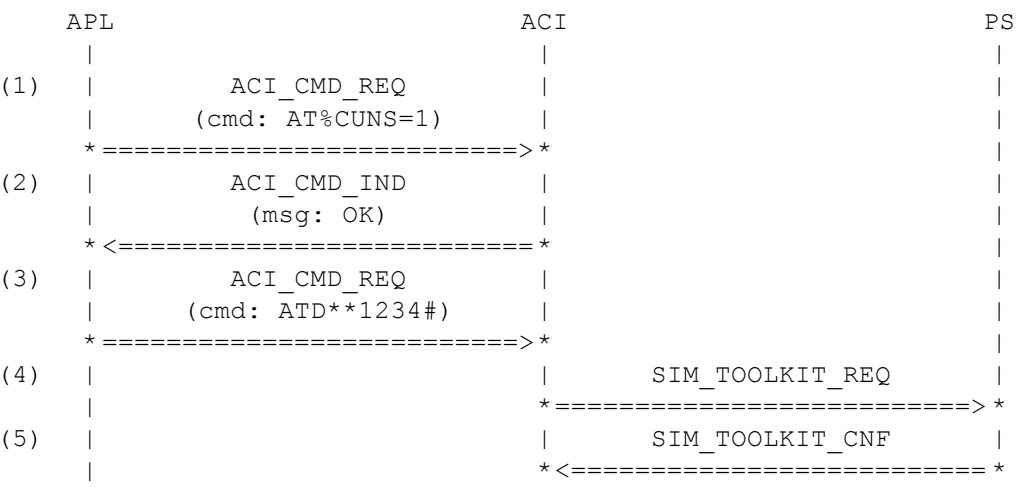
3.6.29 ACISAT183: Setup Call, CC check by SIM, modification to SS string, SS busy.

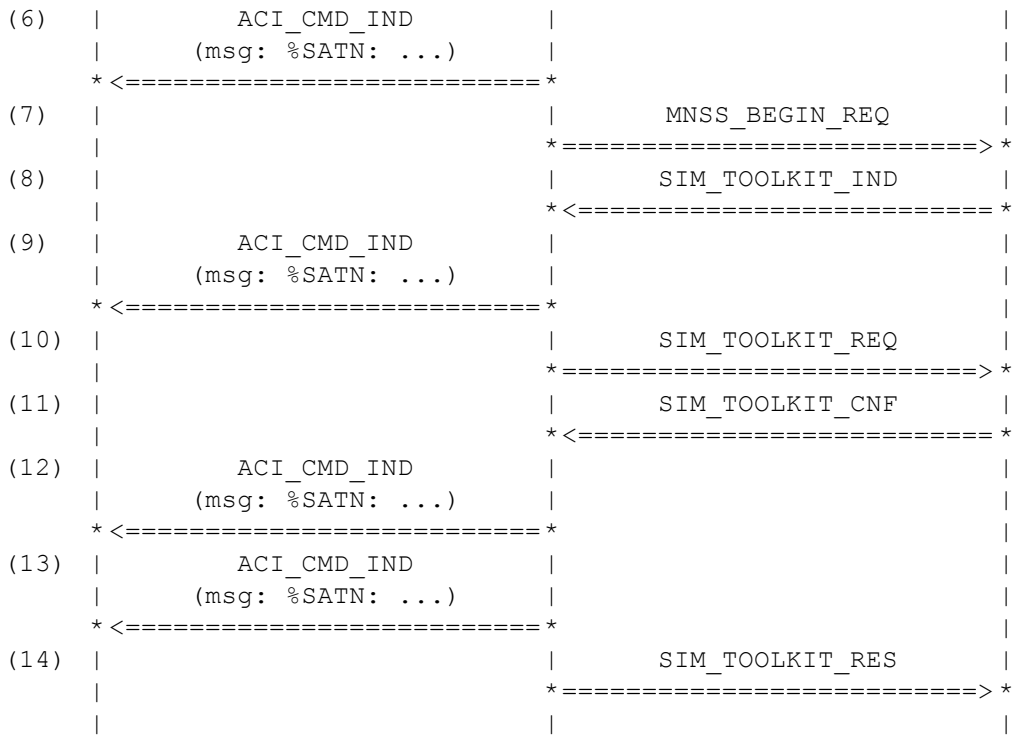
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is modified to a SS string. The SS operation is rejected due to busy SS. SAT is informed about the unsuccessful operation

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CUNS0
	cmd_seq	C_CUNS0
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(4) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SS
(5) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_SS_NO_MDFY
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_SS_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_SS_NO_MDFY
(7) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED

(8) SIM_TOOLKIT_IND

stk_cmd	SAT_CMD_CALL_IDLE

(9) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE

(10) SIM_TOOLKIT_REQ

source	SRC_MMI
req_id	SRQ_ACI
stk_cmd	ENV_CMD_CC_VOICE

(11) SIM_TOOLKIT_CNF

cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_CC_MDFY_SS

(12) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS
cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS

(13) ACI_CMD_IND

cmd_len	
LM_PERCENT_SATN_RES_MDFY_SS_BUSY_IDLE	
cmd_seq	
M_PERCENT_SATN_RES_MDFY_SS_BUSY_IDLE	

(14) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_MDFY_SS_BUSY_IDLE

History:			
	01.09.99	AK	Initial
	09.11.2000	CLB	error in M_PERCENT_SATN_RES_MDFY_SS_BUSY_IDLE. tag was 0x05 i.o 0x85

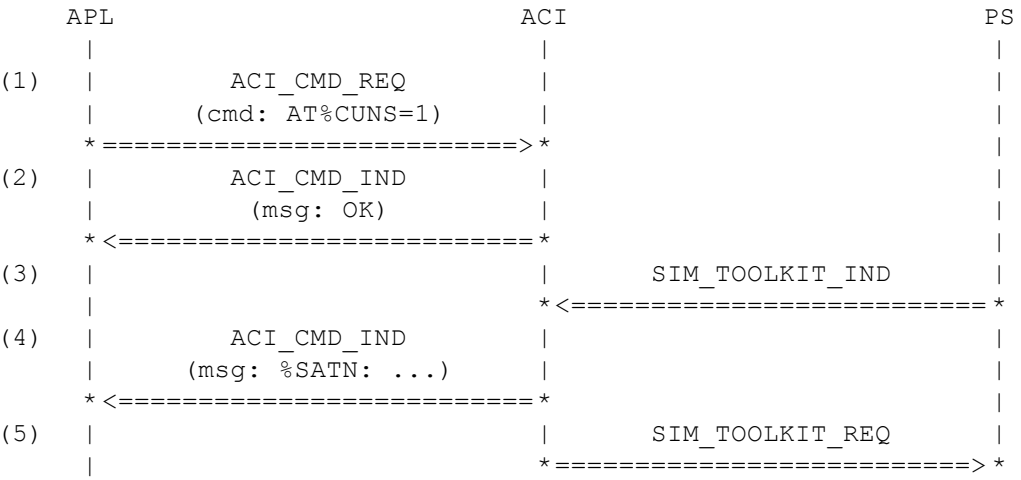
3.6.30 ACISAT184: Setup Call, CC check by SIM, modification to SS string, test long length coding.

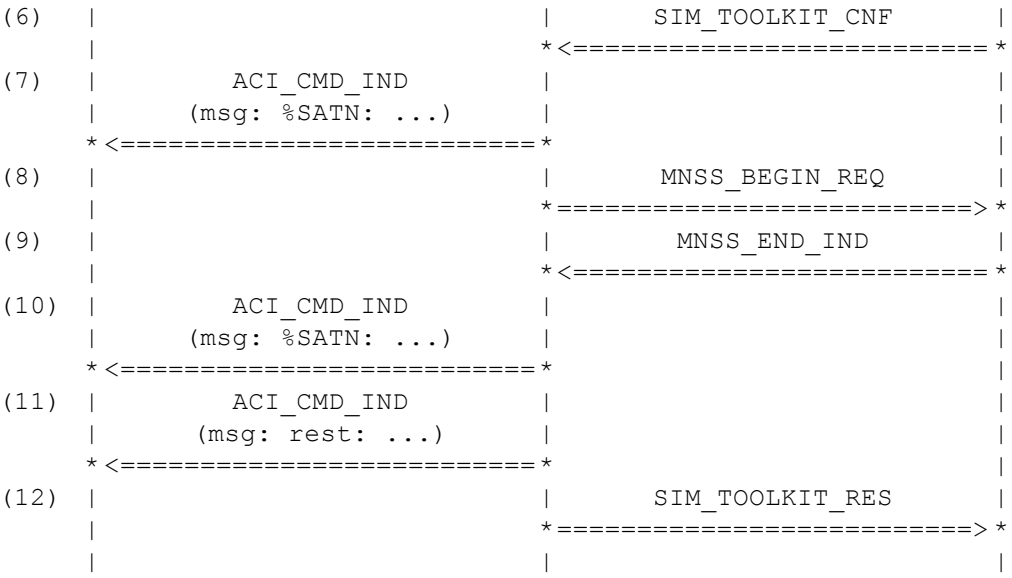
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup is modified to a SS string. The SS transaction is started and completed successfully. SAT is informed about the successful operation. This tests the long length coding of CCD.

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CUNS0
	cmd_seq	C_CUNS0
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE_LONG
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE_LONG
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE_LONG
(5) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(6) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_MDFY_SS_CF
(7) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SS_CF
	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SS_CF
(8) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_CF_ACT_V
	ss_ver	NOT_USED

(9) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_KSD_CF_ACT_RES
(10) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE_LONG)
	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE_LONG
(11) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE_LONG_REST)
	cmd_seq	M_PERCENT_SATN_RES_OK_MDFY_SS_IDLE_LONG_REST
(12) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OK_MDFY_SS_IDLE_LONG

History: 10.09.99 AK Initial

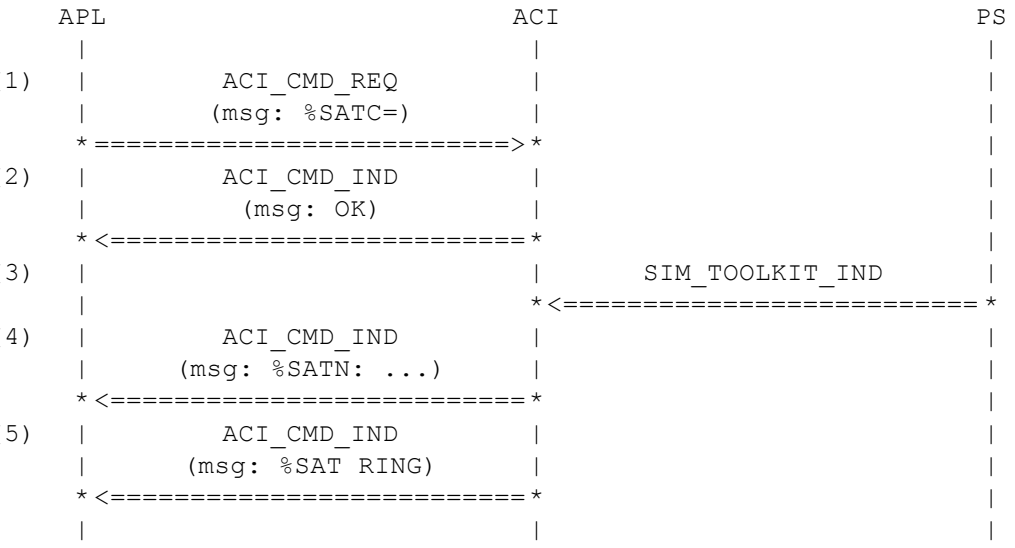
3.6.31 ACISAT185: Setup Call with DTMF tones, no CC check by SIM, alert user.

Description:

SAT invokes a setup call command with DTMF digits. Call control by SIM is not allocated and activated. The user is alerted about a pending SAT call.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_ENA
	cmd_seq	C_PERCENT_SATC_ENA

(2) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(3) SIM_TOOLKIT_IND

stk_cmd	SAT_CMD_CALL_IDLE_DTMF

(4) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE_DTMF
cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE_DTMF

(5) ACI_CMD_IND

cmd_len	LM_SATA
cmd_seq	M_SATA

History: 06.09.99 AK Initial

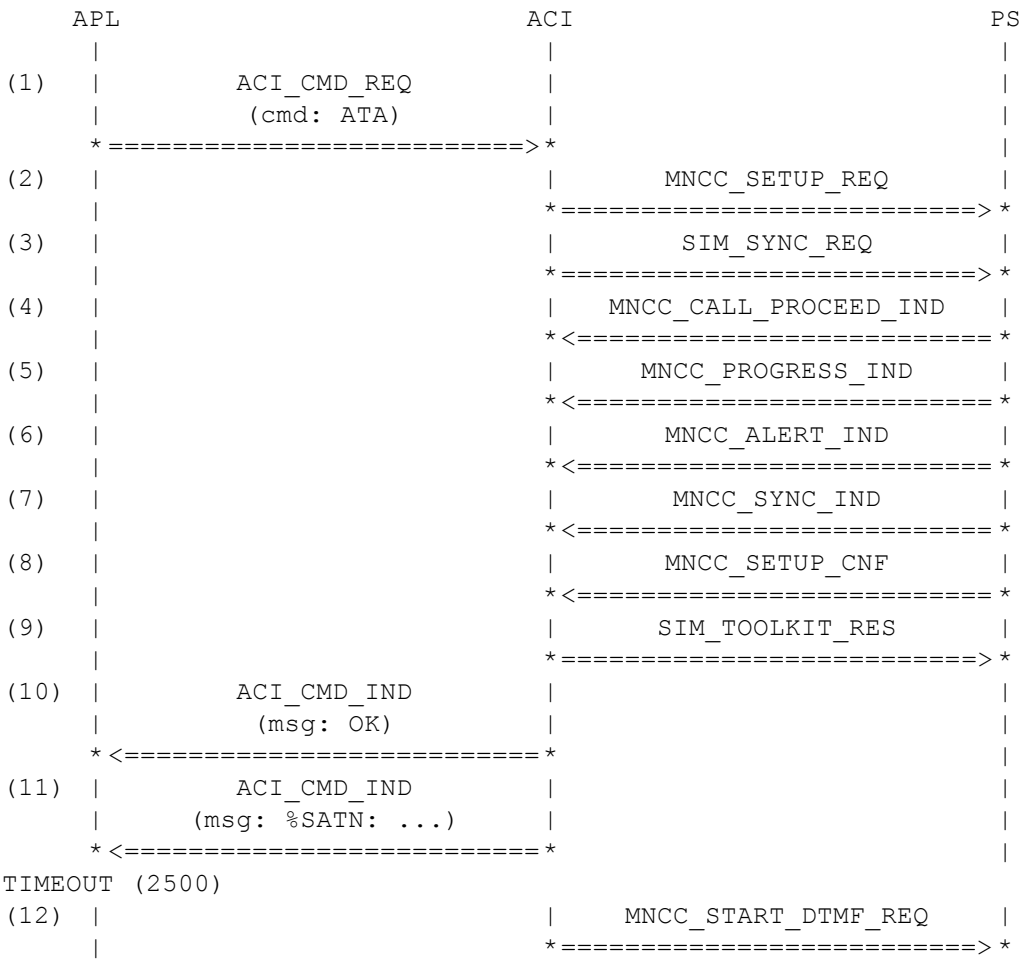
3.6.32 ACISAT186: Accept SAT Call Setup with DTMF tones, connected successfully.

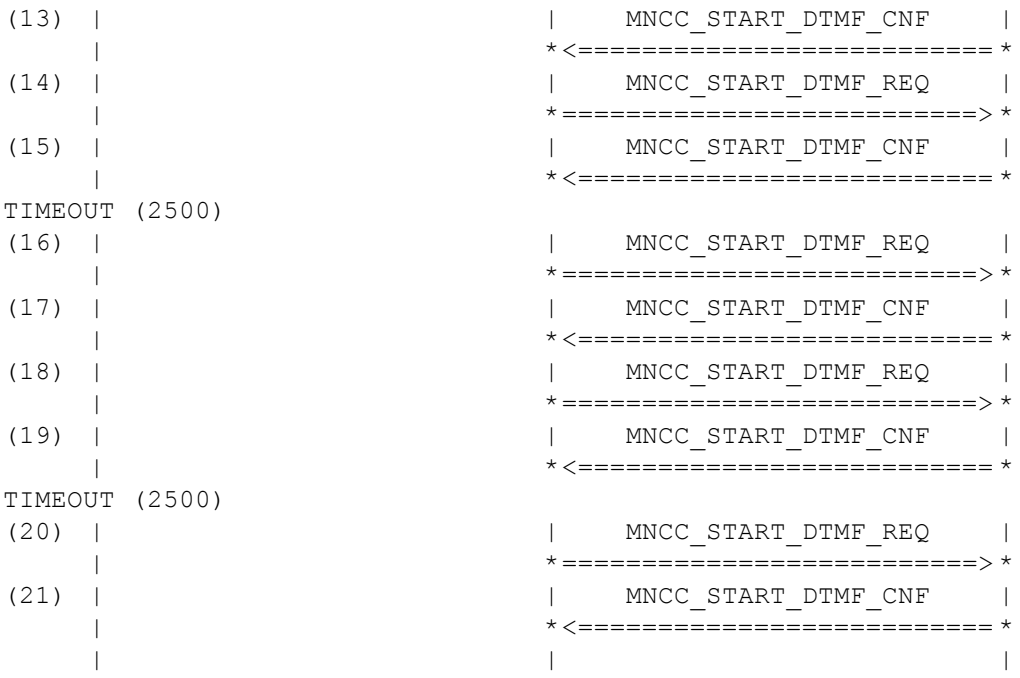
Description:

User accepts the call setup offered by SAT. The call is connected successfully. SAT is informed about the successful operation.

Preamble:

ACISAT185





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) 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
(5) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(6) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES

(7) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(8) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(9) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_UNMDFY_CALL

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(11) ACI_CMD_IND

cmd_len
LM_PERCENT_SATN_RES_OK_UNMDFY_CALL
cmd_seq
M_PERCENT_SATN_RES_OK_UNMDFY_CALL

(12) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_0
dtmf_mod	DTMF_MOD_AUTO

(13) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_0
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

(14) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_9
dtmf_mod	DTMF_MOD_AUTO

(15) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_9
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

(16) MNCC_START_DTMF_REQ

ti	NUM_0
key	KEY_STAR
dtmf_mod	DTMF_MOD_AUTO

(17) MNCC_START_DTMF_CNF

ti	NUM_0
key	KEY_STAR
cause	NOT_PRESENT_8BIT
dtmf_mod	DTMF_MOD_AUTO

© (Condat AG 1998 - 2002)

(18)	MNCC_START_DTMF_REQ		
		ti	NUM_0
		key	KEY_HASH
		dtmf_mod	DTMF_MOD_AUTO
(19)	MNCC_START_DTMF_CNF		
		ti	NUM_0
		key	KEY_HASH
		cause	NOT_PRESENT_8BIT
		dtmf_mod	DTMF_MOD_AUTO
(20)	MNCC_START_DTMF_REQ		
		ti	NUM_0
		key	KEY_6
		dtmf_mod	DTMF_MOD_AUTO
(21)	MNCC_START_DTMF_CNF		
		ti	NUM_0
		key	KEY_6
		cause	NOT_PRESENT_8BIT
		dtmf_mod	DTMF_MOD_AUTO

History:	07.09.1999	AK	Initial
	25.10.2000	FK	MMI_SPEEC_MODE_REQ added (Routing for PL changed)
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

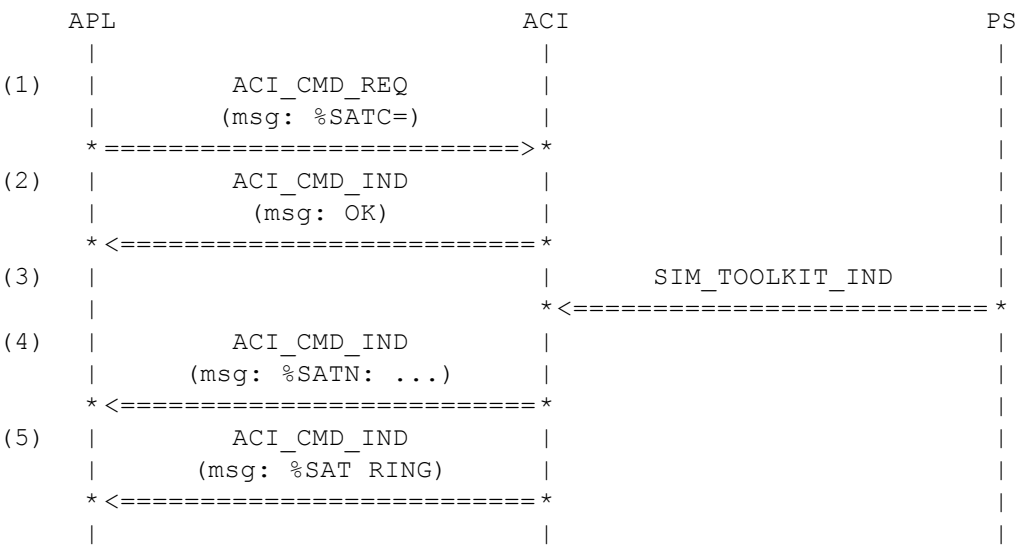
3.6.33 ACISAT187: Setup Call with Redial, no CC check by SIM, alert user.

Description:

SAT invokes a setup call command. Call control by SIM is not allocated and activated. The user is alerted about a pending SAT call.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_ENA
	cmd_seq	C_PERCENT_SATC_ENA
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE_RDL
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CALL_IDLE_RDL
	cmd_seq	M_PERCENT_SATN_CALL_IDLE_RDL
(5) ACI_CMD_IND		
	cmd_len	LM_SATA_RDL
	cmd_seq	M_SATA_RDL

History: 06.09.99 AK Initial

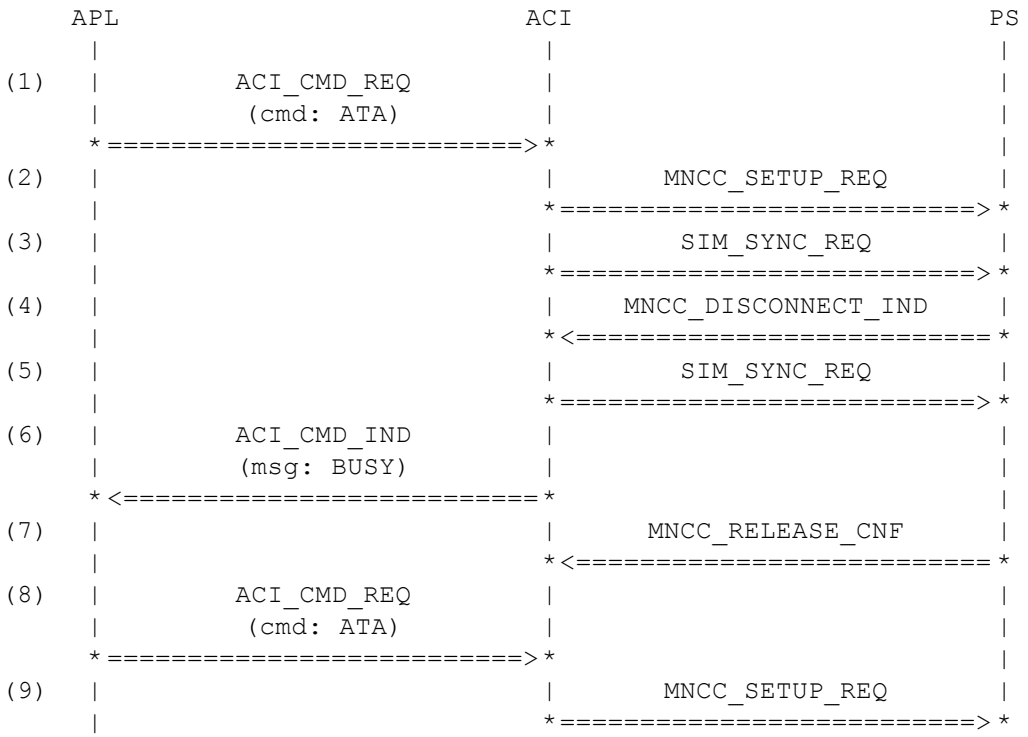
3.6.34 ACISAT188: Accept SAT Call Setup with redialling, network reject.

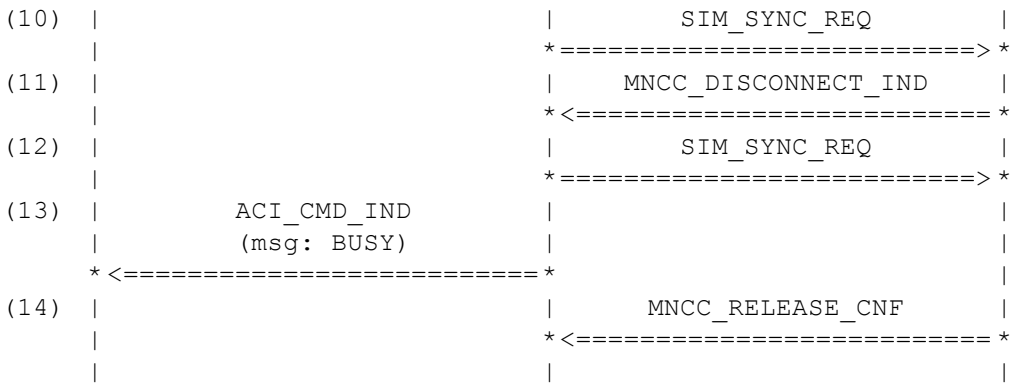
Description:

User accepts the call setup offered by SAT. The call is rejected by the network. MMI redials the call.

Preamble:

ACISAT187





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(2) 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
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	NOT_USED
	progress_desc	PROG_NOT_PRES
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) ACI_CMD_IND		
	cmd_len	LM_BUSY
	cmd_seq	M_BUSY
(7) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A

(9)	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
(10)	SIM_SYNC_REQ		
		synccs	SYNC_START_CALL
(11)	MNCC_DISCONNECT_IND		
		ti	NUM_0
		cause	MNCC_CAUSE_USER_BUSY
		diagnostic	NOT_USED
		progress_desc	PROG_NOT_PRES
(12)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL
(13)	ACI_CMD_IND		
		cmd_len	LM_BUSY
		cmd_seq	M_BUSY
(14)	MNCC_RELEASE_CNF		
		ti	NUM_0
		cause	MNCC_CAUSE_USER_BUSY

History: 07.09.99 AK Initial

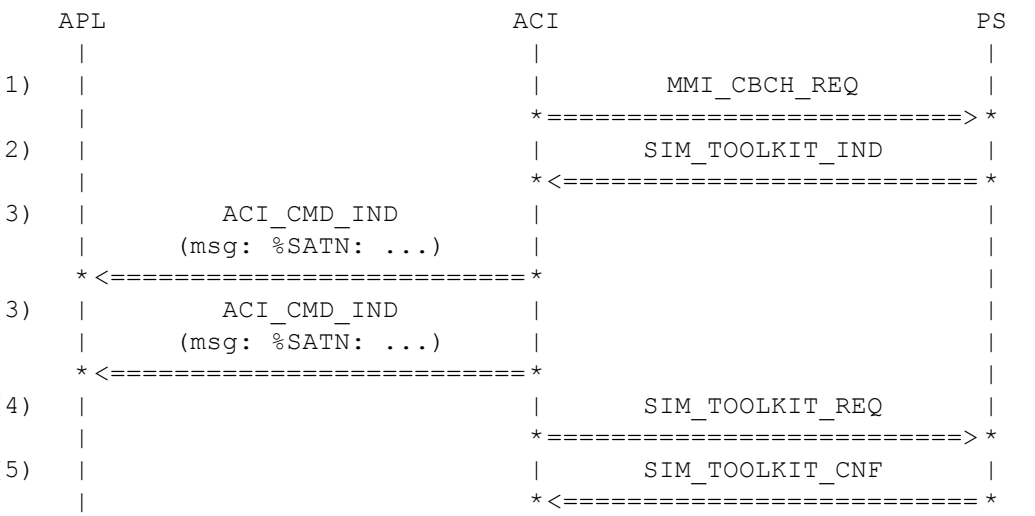
3.6.35 ACISAT191: Setup Call, only if not currently busy on another call with redial.

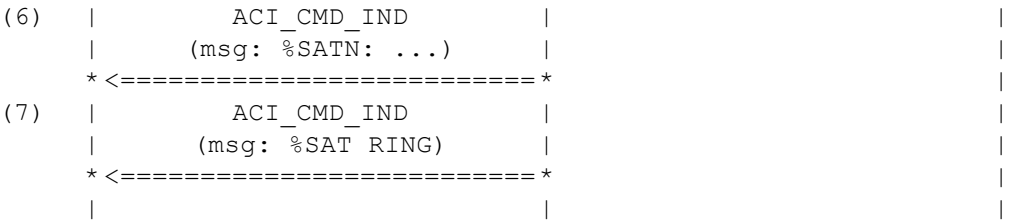
Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup only if not currently busy on another call with redial.

Preamble:

ACISAT014





Parametrization:

Primitive	Parameter	Value
(1) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(2) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_NBSYRD3
(3) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_SATN_CMD_CALL_NBSYRD3)
	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSYRD3
(4) ACI_CMD_IND		
	cmd_len	NUM_ELEMENTS(M_PERCENT_SATN_CMD_CALL_NBSYRD3_REST)
	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSYRD3_REST
(5) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_NBSYRD_1
(6) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(7) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
(8) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History: 10.09.02 RM Initial: share 198

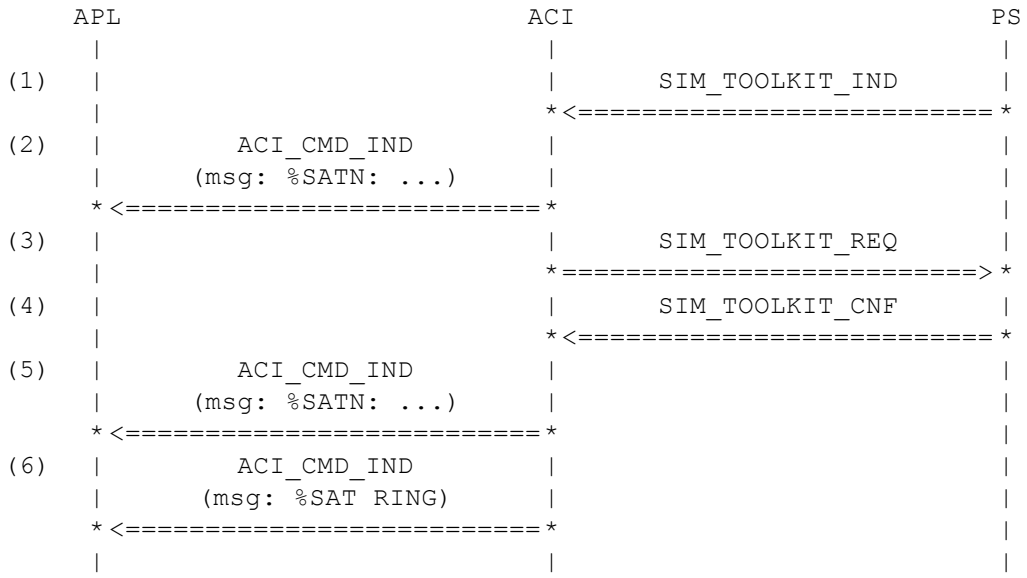
3.6.36 ACISAT192: Setup Call, CC check by SIM, respond with '90 00'.

Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated. SIM responds to call control with '90 00' this is interpreted as setup is not modified. The user is alerted about a pending SAT call.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_EMPTY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
(6) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History:			
	07.09.1999	AK	Initial
	26.10.2000	FK	Variant B removed

3.6.37 ACISAT193: Setup Call, CC check by SIM, respond with '93 00' or different error.

Description:

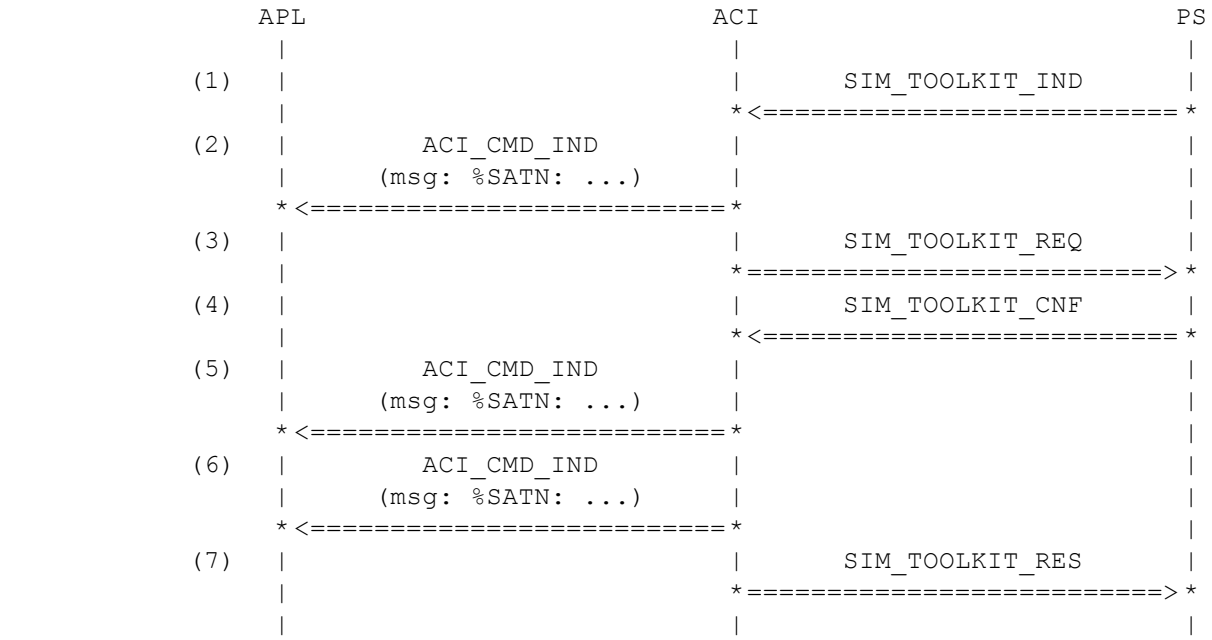
SAT invokes a call setup command. Call control by SIM is allocated and activated. SIM responds with '93 00' or an other error, this is interpreted as setup is not allowed. SAT is informed about unsuccessful operation.

Variants:

<A>....<B>

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_IDLE
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_IDLE
	cmd_seq	M_PERCENT_SATN_CMD_CALL_IDLE
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(4) SIM_TOOLKIT_CNF		
<A>	cause	SIM_CAUSE_SAT_BUSY
<B>	cause	SIM_CAUSE_OTHER_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_EMPTY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY
	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW_EMPTY

(6) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE
cmd_seq	M_PERCENT_SATN_RES_CALL_NOT_ALLW_IDLE

(7) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_CALL_NOT_ALLW_IDLE

History:			
	07.09.1999	AK	Initial
	26.10.2000	FK	Variant B removed

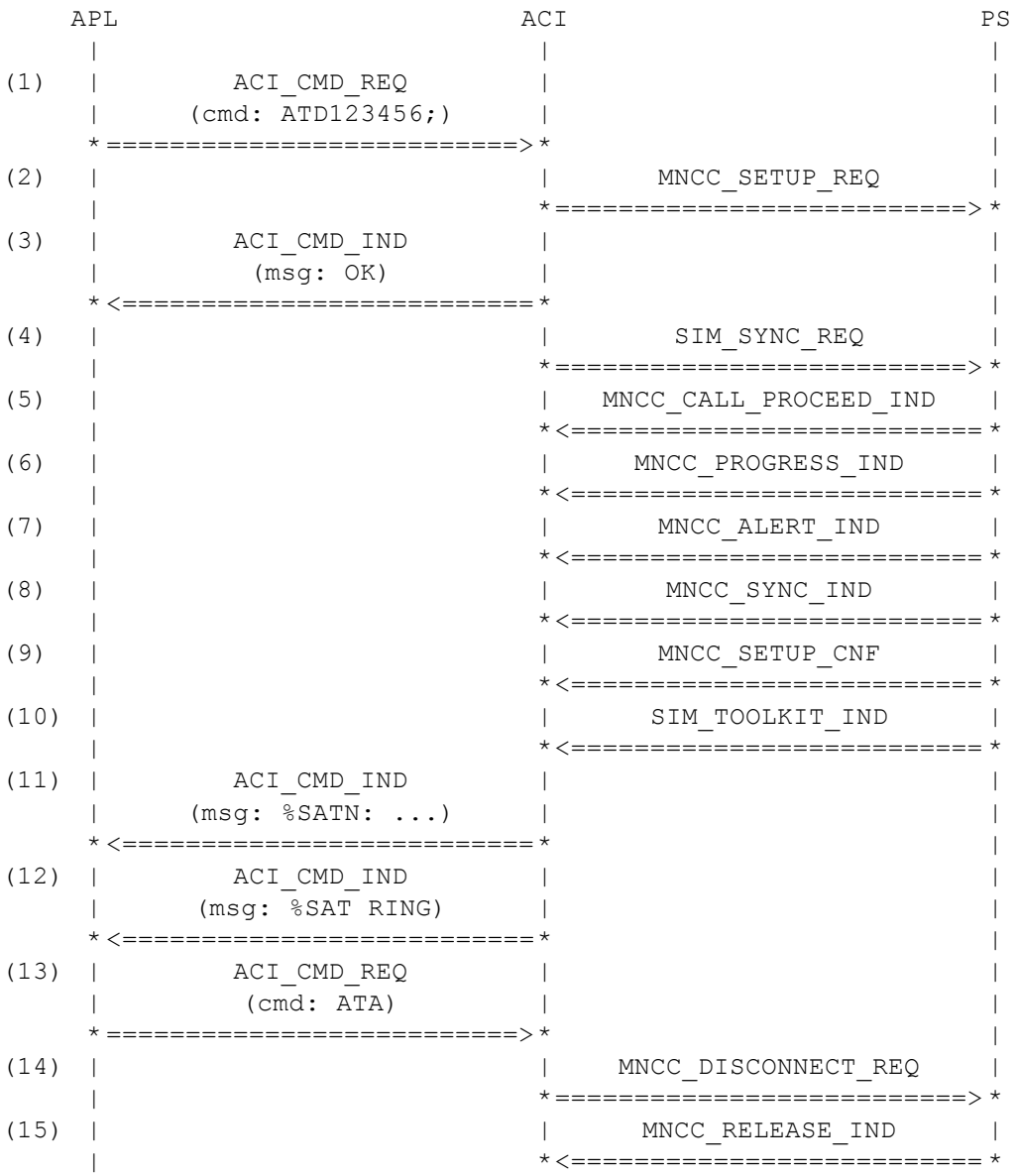
3.6.38 ACISAT194: Accept SAT Call Setup, disconnect previous call.

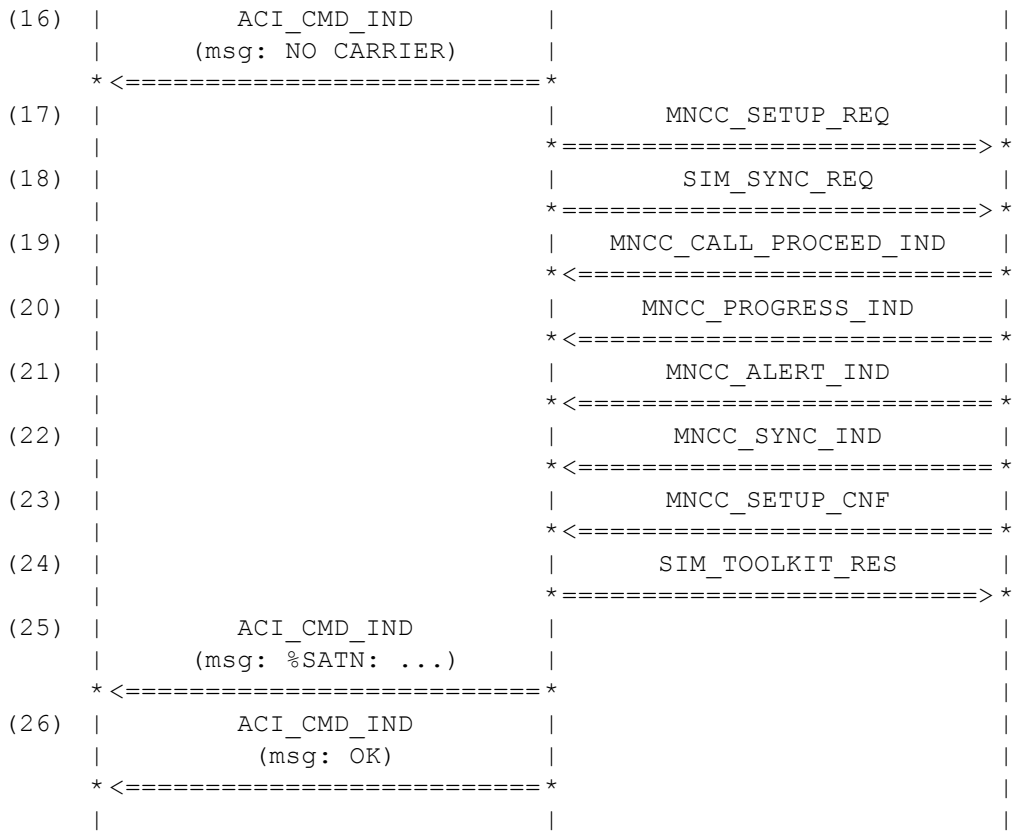
Description:

A normal voice has been setup. SAT sends a call setup proactive command with qualifier disconnect all previous calls. User accepts the call setup offered by SAT.

Preamble:

ACISAT011





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) 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
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(5) 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
(6) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(7) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(9) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(10) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_DISC
(11) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_DISC
	cmd_seq	M_PERCENT_SATN_CMD_CALL_DISC
(12) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(14) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(15) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(16) ACI_CMD_IND		
	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER
(17) 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

(18) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(19) 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

(20) MNCC_PROGRESS_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(21) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(22) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE chm S_CHN_SPEECH

(23) MNCC_SETUP_CNF

ti	NUM_0
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(24) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_UNMDFY_CALL_DISC

(25) ACI_CMD_IND

cmd_len
LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC
cmd_seq
M_PERCENT_SATN_RES_OK_UNMDFY_CALL_DISC

(26) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:			
	21.02.02	CLB	Initial)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted, second call ti changed

3.6.39 ACISAT195: Second SAT Call Setup, set first call on hold.

Description:

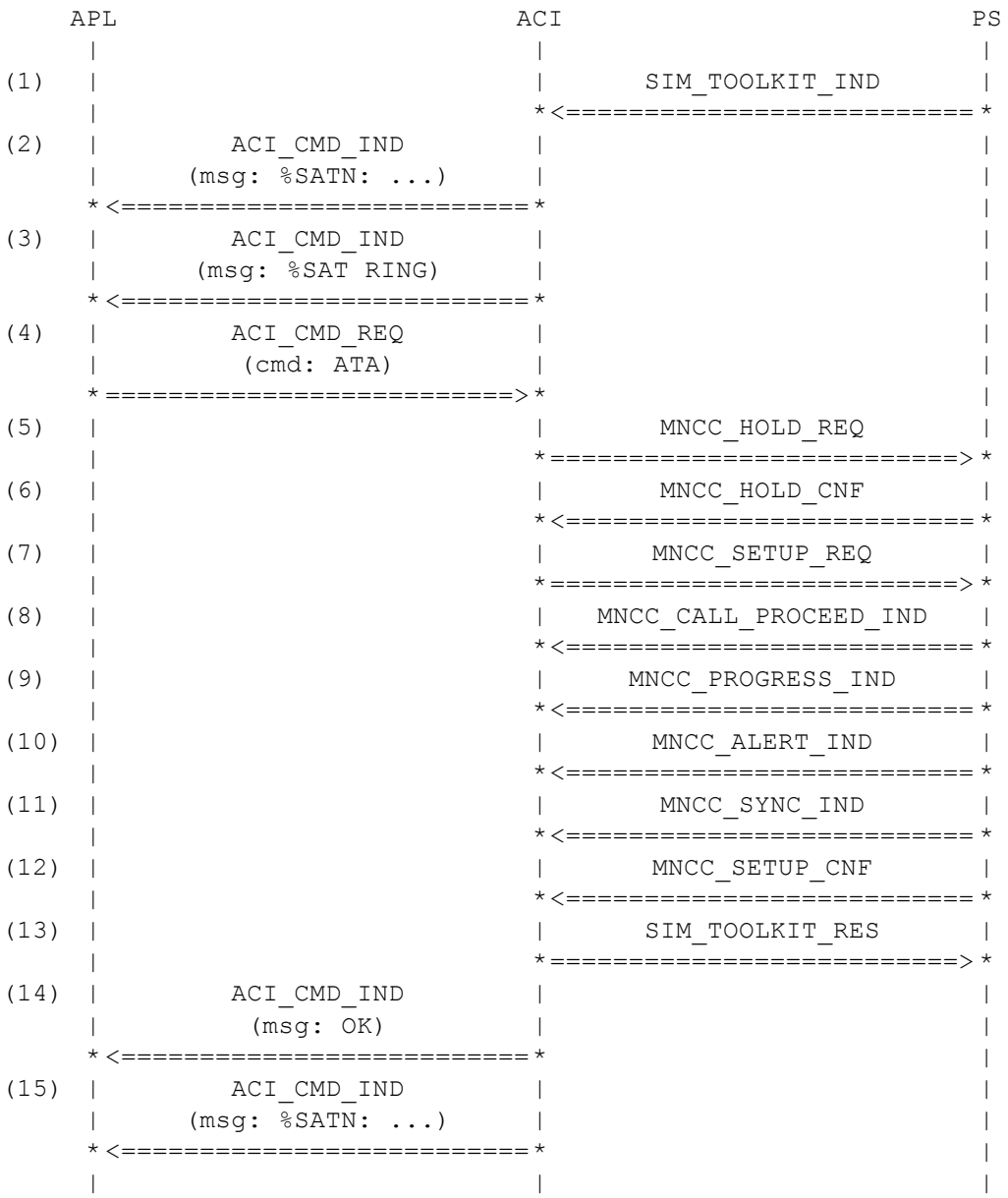
A second call setup is requested by SAT. User accepts the call setup offered by SAT. The first call will be set on hold..

Variants**:**

<A>....<E>

Preamble:

ACISAT152



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_HOLD
<B>	stk_cmd	SAT_CMD_CALL_HOLD2
<C>	stk_cmd	SAT_CMD_CALL_HOLD3
<D>	stk_cmd	SAT_CMD_CALL_HOLD4
<E>	stk_cmd	SAT_CMD_CALL_HOLD5
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD2
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD3
<D>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD4
<E>	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD5
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD2
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD3
<D>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD4
<E>	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD5
(3) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(5) MNCC_HOLD_REQ		
	ti	NUM_0
(6) MNCC_HOLD_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_HOLD_SUCCESS
(7) MNCC_SETUP_REQ		
	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
<A>	called_party	S_CLD_PARTY
<B>	called_party	S_CLD_PARTY_INT2
<C>	called_party	S_CLD_PARTY_SS
<D>	called_party	S_CLD_PARTY_INT2
<E>	called_party	S_CLD_PARTY_SS
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(8) 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

(9) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(10) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(11) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	MNCC_CAUSE_NO_MS_CAUSE
chm	S_CHN_SPEECH

(12) 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

(13) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OK_UNMDFY_CALL_HOLD

(14) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(15) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD
cmd_seq	M_PERCENT_SATN_RES_OK_UNMDFY_CALL_HOLD

History:			
	25.03.02	KGT	Initial
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

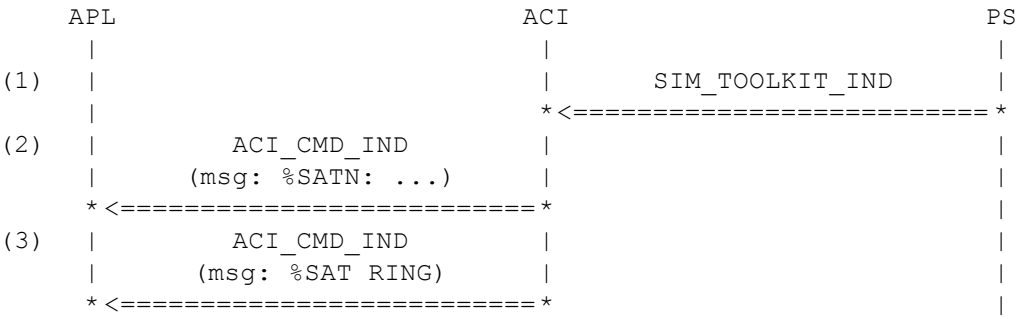
3.6.40 ACISAT196: Second SAT Call Setup, set first call on hold failed.

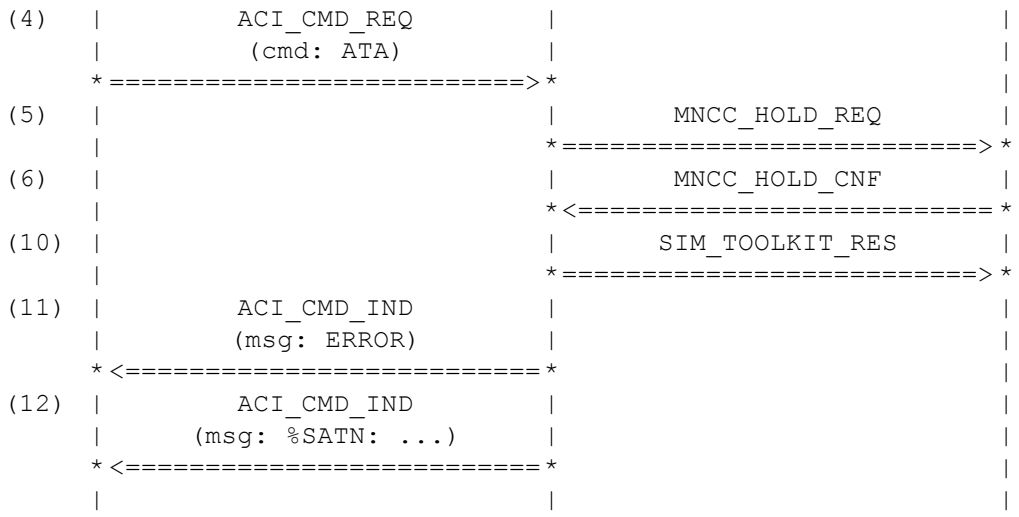
Description:

A second call setup is requested by SAT. User accepts the call setup offered by SAT. The first call cannot be set on hold..

Preamble:

ACISAT152





Parametrization:

Primitive	Parameter	Value
(16) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CALL_HOLD2
(17) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CALL_HOLD2
	cmd_seq	M_PERCENT_SATN_CMD_CALL_HOLD2
(18) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA
(19) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(20) MNCC_HOLD_REQ		
	ti	NUM_0
(21) MNCC_HOLD_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_FACILITY_REJECT
(22) SIM_TOOLKIT_RES		
	stk_cmd	
	SAT_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN	
(23) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(24) ACI_CMD_IND		
	cmd_len	
	LM_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN	
	cmd_seq	
	M_PERCENT_SATN_RES_UNMDFY_CALL_HOLD_NTW_UNKNWN	

History: 25.03.02 KGT Initial

3.6.41 ACISAT197: Setup Call, only if not currently busy on another call.

Description:

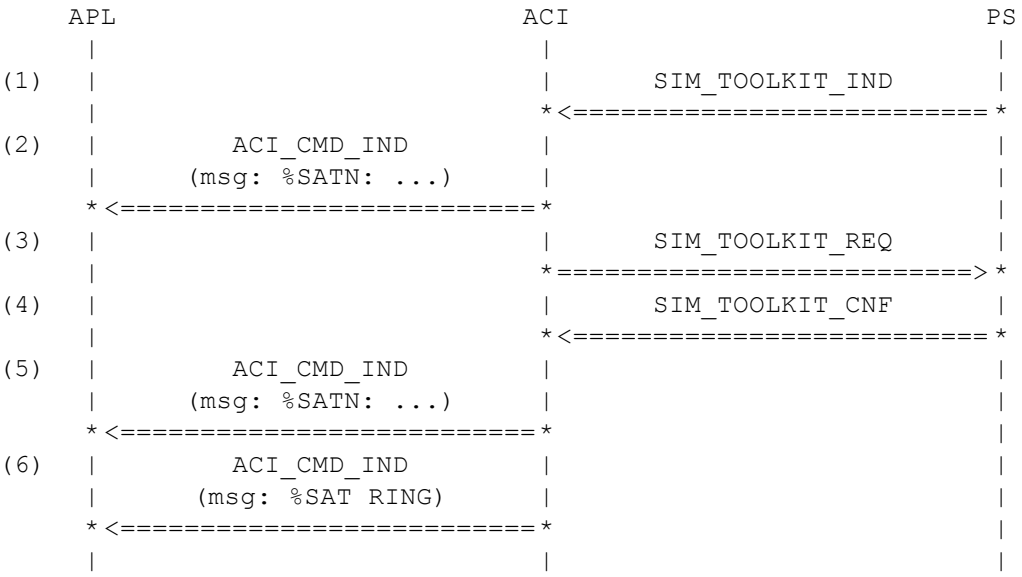
SAT invokes a call setup command. Call control by SIM is allocated and activated, setup only if not currently busy on another call.

Variants**:**

<A>....<K>

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_NBSY
<B>	stk_cmd	SAT_CMD_CALL_NBSY2
<C>	stk_cmd	SAT_CMD_CALL_NBSY3
<D>	stk_cmd	SAT_CMD_CALL_NBSY4
<E>	stk_cmd	SAT_CMD_CALL_NBSY5
<F>	stk_cmd	SAT_CMD_CALL_NBSY6
<G>	stk_cmd	SAT_CMD_CALL_NBSY7
<H>	stk_cmd	SAT_CMD_CALL_NBSY8
<I>	stk_cmd	SAT_CMD_CALL_NBSY9
<J>	stk_cmd	SAT_CMD_CALL_NBSY10
<K>	stk_cmd	SAT_CMD_CALL_NBSY11

(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY2
<C>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY3
<D>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY4
<E>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY5
<F>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY6
<G>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY7
<H>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY8
<I>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY9
<J>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY10
<K>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSY11
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY2
<C>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY3
<D>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY4
<E>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY5
<F>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY6
<G>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY7
<H>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY8
<I>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY9
<J>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY10
<K>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSY11
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_CMD_CC_NBSY
<B>	stk_cmd	ENV_CMD_CC_NBSY
<C>	stk_cmd	ENV_CMD_CC_NBSY3
<D>	stk_cmd	ENV_CMD_CC_NBSY
<E>	stk_cmd	ENV_CMD_CC_NBSY
<F>	stk_cmd	ENV_CMD_CC_NBSY
<G>	stk_cmd	ENV_CMD_CC_NBSY7
<H>	stk_cmd	ENV_CMD_CC_NBSY
<I>	stk_cmd	ENV_CMD_CC_NBSY
<J>	stk_cmd	ENV_CMD_CC_NBSY10
<K>	stk_cmd	ENV_CMD_CC_NBSY
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
(6) ACI_CMD_IND		
	cmd_len	LM_SATA
	cmd_seq	M_SATA

History: 09.04.02 KGT Initial

3.6.42 ACISAT198: Setup Call, only if not currently busy on another call with redial.

Description:

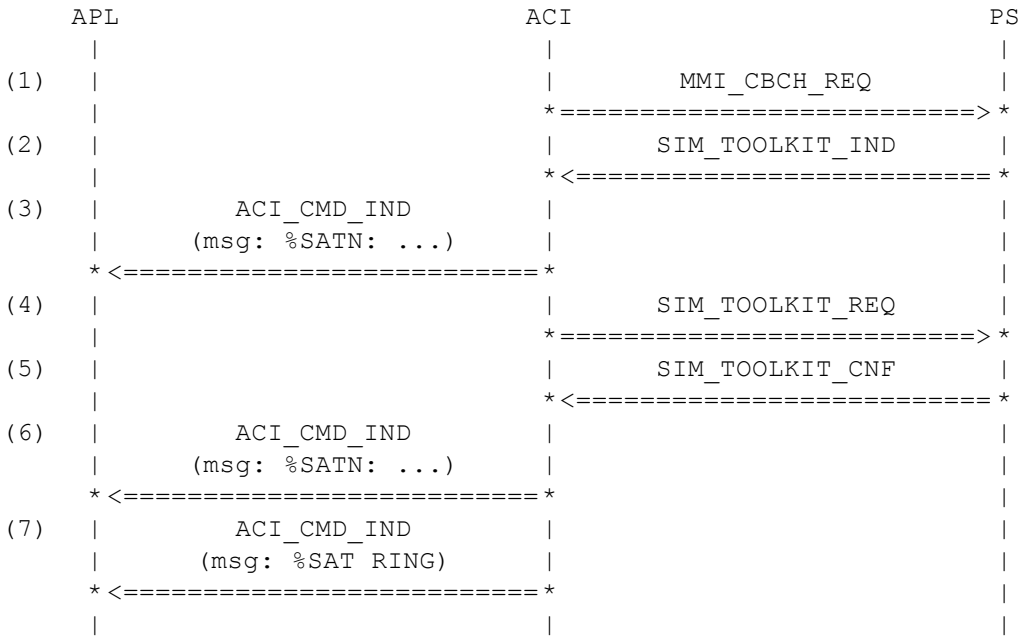
SAT invokes a call setup command. Call control by SIM is allocated and activated, setup only if not currently busy on another call with redial.

Variants**:**

<A>....<B>

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(1) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(2) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_CALL_NBSYRD
<B>	stk_cmd	SAT_CMD_CALL_NBSYRD2
(3) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSYRD
<B>	cmd_len	LM_PERCENT_SATN_CMD_CALL_NBSYRD2
<A>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSYRD
<B>	cmd_seq	M_PERCENT_SATN_CMD_CALL_NBSYRD2
(4) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_NBSYRD

(5) SIM_TOOLKIT_CNF

cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_CC_NO_MDFY

(6) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

(7) ACI_CMD_IND

cmd_len	LM_SATA
cmd_seq	M_SATA

History: 09.04.02 KGT Initial
10.09.02 RM Part C in 191

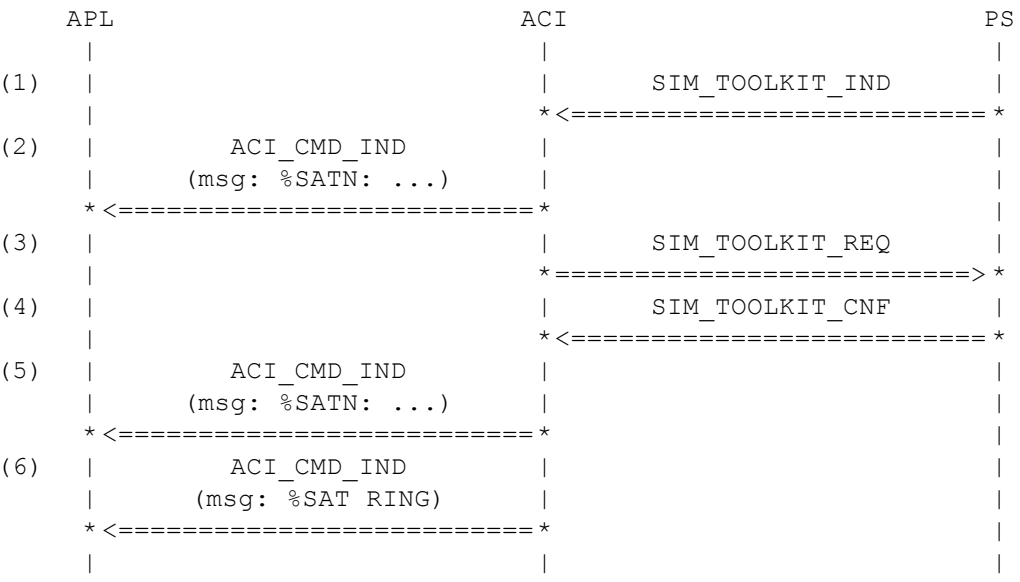
3.6.43 ACISAT199: Setup Call, only if not currently busy on another call with redial.

Description:

SAT invokes a call setup command. Call control by SIM is allocated and activated, setup only if not currently busy on another call with redial.

Preamble:

ACISAT014



Parametrization:

Primitive	Parameter	Value
(8) SIM_TOOLKIT_IND		
stk_cmd		SAT_CMD_CALL_NBSYRD
(9) ACI_CMD_IND		
cmd_len		LM_PERCENT_SATN_CMD_CALL_NBSYRD
cmd_seq		M_PERCENT_SATN_CMD_CALL_NBSYRD

(10)	SIM_TOOLKIT_REQ
source	SRC_MMI
req_id	SRQ_ACI
stk_cmd	ENV_CMD_CC_NBSYRD
(11)	SIM_TOOLKIT_CNF
cause	SIM_NO_ERROR
req_id	SRQ_ACI
stk_cmd	ENV_RES_CC_NO_MDFY
(12)	ACI_CMD_IND
cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
(13)	ACI_CMD_IND
cmd_len	LM_SATA
cmd_seq	M_SATA

History: 09.04.02 KGT Initial

3.7 SAT abnormal cases (ACISAT200-ACISAT249)

3.7.1 ACISAT200: SAT command with unknown tag, comprehension not required.

Description:

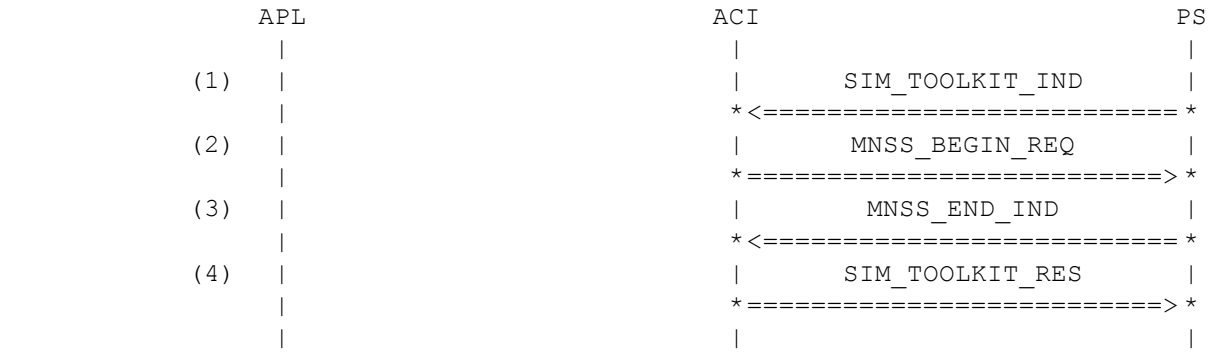
SAT invokes a SS send command. Call control by SIM is not allocated and activated. An unknown tag was detected by CCD, but comprehension is not required. The SS transaction is started and completed successfully. SAT is informed about the successful termination of the operation with partial comprehension. To check that no interference with the Comprehension Required specification of GSM 04.07 exists, various unknown tag values are checked.

Variants**:**

<A>....<C>

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SS_NCR
<B>	stk_cmd	SAT_CMD_SS_NCR_0F
<C>	stk_cmd	SAT_CMD_SS_NCR_10

(2) MNSS_BEGIN_REQ

ti	NUM_0
fac_inf	FAC_KSD_ALLOUT_DEACT
ss_ver	NOT_USED

(3) MNSS_END_IND

ti	NUM_0
cause	SS_NO_ERROR
fac_inf	FAC_KSD_ALLOUT_DEACT_RES

(4) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_SS_SUCC_PC

History:	01.09.99	AK	Initial
	06.03.2001	FK	Variants for different unknown tag values

3.7.2 ACISAT201: SAT command with unknown tag, comprehension required.

Description:

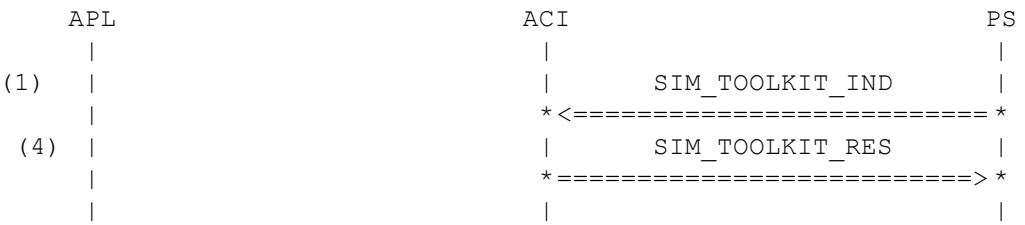
SAT invokes a SS send command. Call control by SIM is not allocated and activated. An unknown tag was detected by CCD and comprehension is required. The command is rejected by ME. SAT is informed about the unsuccessful termination of the operation.

Variants**:**

<A>....<C>

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SS_CR
<B>	stk_cmd	SAT_CMD_SS_CR_0F
<C>	stk_cmd	SAT_CMD_SS_CR_10
(2) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_CMD_UNKNOWN

History:	01.09.99	AK	Initial
	06.03.2001	FK	Variants for different unknown tag values

3.8 SAT remote user interface (ACISAT250-ACISAT299)

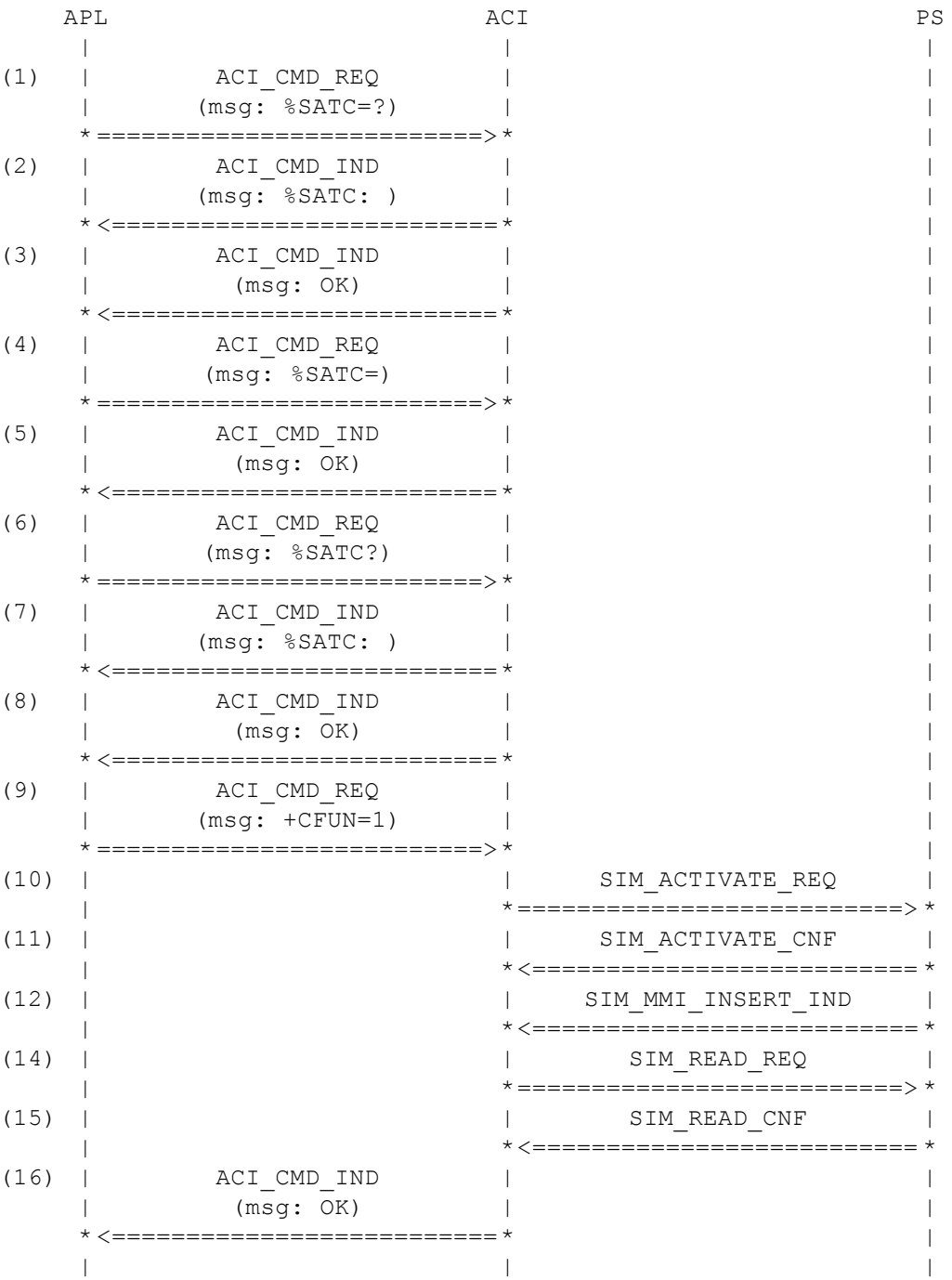
3.8.1 ACISAT250: SAT configuration.

Description:

The user configures the SAT profile, and the behaviour of unsolicited reporting.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_TST
	cmd_seq	C_PERCENT_SATC_TST
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATC_TST
	cmd_seq	M_PERCENT_SATC_TST
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_ENA
	cmd_seq	C_PERCENT_SATC_ENA
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_QUE
	cmd_seq	C_PERCENT_SATC_QUE
(7) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATC_QUE
	cmd_seq	M_PERCENT_SATC_QUE
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(10) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	F_STK_PRF
(11) 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

(12)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	NOT_USED
		imsi_field	NOT_USED
		pref_plmn	NOT_USED
		phase	PHASE_2PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(13)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_ECC
		length	NOT_PRESENT_8BIT
		max_length	NUM_0
(14)	SIM_READ_CNF		
		datafield	SIM_ECC
		cause	SIM_NO_ERROR
		length	NUM_12
		trans_data	A_ECC_FIELD
(15)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	19.01.2000	AK	Initial
	20.10.2000	FK	Read EF(ECC) added

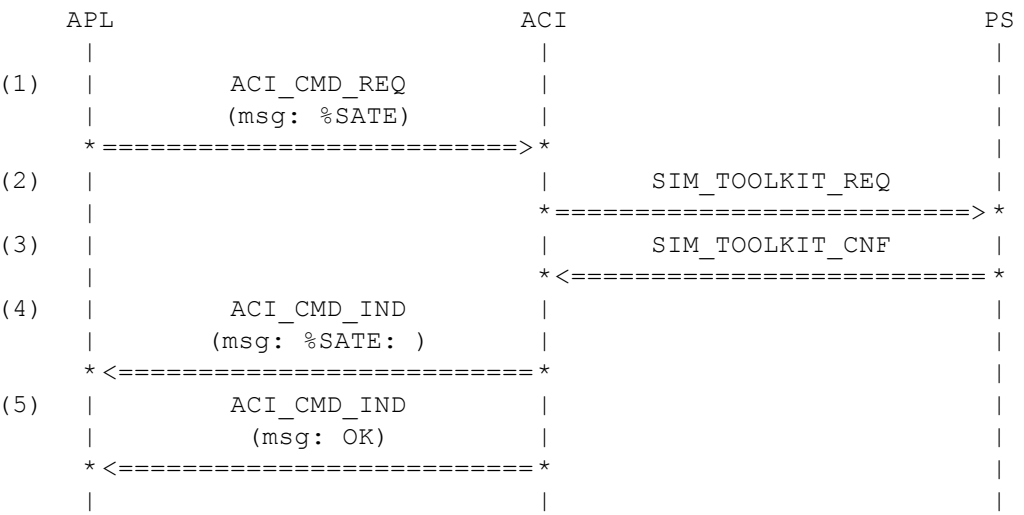
3.8.2 ACISAT251: Envelope command by user.

Description:

The user invokes an envelope command. The command string is passed transparently to the SIM. If a response to the command was received from the SIM, an indication is send to the user.

Preamble:

ACISAT250



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PERCENT_SATE_1
		cmd_seq	C_PERCENT_SATE_1
(2)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	SRQ_MMI
		stk_cmd	ENV_CMD_USER_1
(3)	SIM_TOOLKIT_CNF		
		cause	SIM_NO_ERROR
		req_id	SRQ_MMI
		stk_cmd	ENV_RES_USER_1
(4)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATE_1
		cmd_seq	M_PERCENT_SATE_1
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 18.01.00 AK Initial

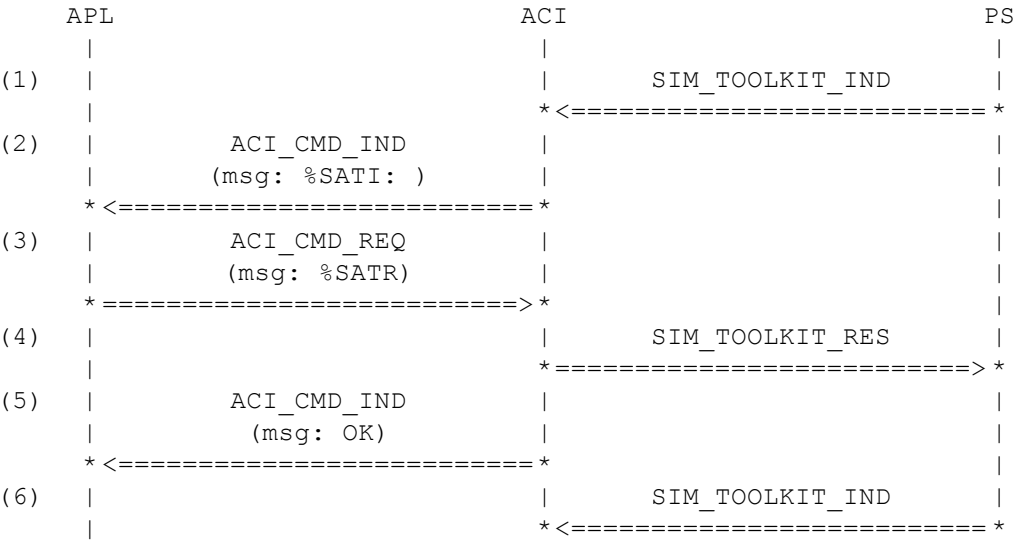
3.8.3 ACISAT252: User response to SAT command.

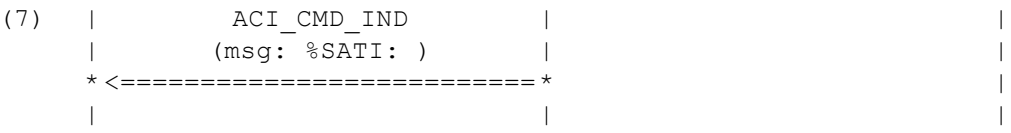
Description:

SIM invokes a SAT command. The command string is passed transparently to the user. The user response to the command is passed transparently to the SIM.

Preamble:

ACISAT250





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USER_1
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATI_1
	cmd_seq	M_PERCENT_SATI_1
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATR_1
	cmd_seq	C_PERCENT_SATR_1
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_USER_1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SESS_TERM
(7) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATI_EMPTY
	cmd_seq	M_PERCENT_SATI_EMPTY

History: 18.01.00 AK Initial

3.8.4 ACISAT253: User terminates session or command.

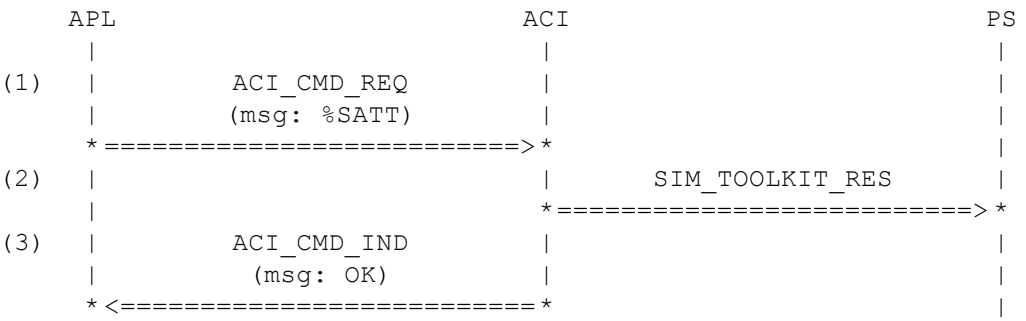
Description:

The user terminates a session or command. The command cause is sent to SIM using a terminal response.

Preamble:

ACISAT188

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



```
(4)   |         ACI_CMD_IND         |                              |
      |      (msg: %SATN: ...)      |                              |
      *<=========================*                                  |
      |                             |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PERCENT_SATT_RDL_STOP
<B>	cmd_len	LC_PERCENT_SATT_END_RDL
<C>	cmd_len	LC_PERCENT_SATT_END_SESS
<A>	cmd_seq	C_PERCENT_SATT_RDL_STOP
<B>	cmd_seq	C_PERCENT_SATT_END_RDL
<C>	cmd_seq	C_PERCENT_SATT_END_SESS
(2) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_RDL_STOP
<B>	stk_cmd	SAT_RES_END_RDL
<C>	stk_cmd	SAT_RES_END_SESS
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_RDL_STOP
<B>	cmd_len	LM_PERCENT_SATN_RES_END_RDL
<C>	cmd_len	LM_PERCENT_SATN_RES_END_SESS
<A>	cmd_seq	M_PERCENT_SATN_RES_RDL_STOP
<B>	cmd_seq	M_PERCENT_SATN_RES_END_RDL
<C>	cmd_seq	M_PERCENT_SATN_RES_END_SESS

History: 18.01.00 AK Initial

3.9 SAT Proactive Command REFRESH (ACISAT300-ACISAT329)

3.9.1 ACISAT301: SIM Reset: Check Signal

Description:

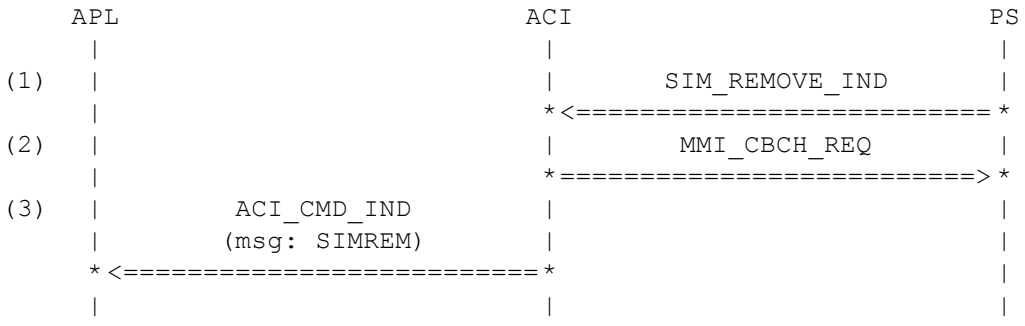
After power-on and SIM activation a primitive SIM_REMOVE_IND is received. If the error code is SIM_NO_ERROR, then it is a SAT command REFRESH (SIM Reset). The result simulated with an unsolicited AT response.

Variants**:**

<A>....<F>

Preamble:

<A>	ACISAT014
<B>	ACISAT014
<C>	ACISAT014
<D>	ACISAT015A
<E>	ACISAT015A
<F>	ACISAT015A



Parametrization:

Primitive	Parameter	Value
(1) SIM_REMOVE_IND		
<A>	cause	SIM_NO_ERROR
<B>	cause	SIM_CAUSE_OTHER_ERROR
<C>	cause	SIM_CAUSE_DRV_CARDREJ
<D>	cause	SIM_NO_ERROR
<E>	cause	SIM_CAUSE_OTHER_ERROR
<F>	cause	SIM_CAUSE_DRV_CARDREJ
(2) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(3) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SIMREM
<A>	cmd_seq	M_PERCENT_SIMREM_SAT
<B>	cmd_seq	M_PERCENT_SIMREM_OTHER
<C>	cmd_seq	M_PERCENT_SIMREM_OTHER
<D>	cmd_seq	M_PERCENT_SIMREM_SAT
<E>	cmd_seq	M_PERCENT_SIMREM_OTHER
<F>	cmd_seq	M_PERCENT_SIMREM_OTHER

History: 19.09.2000 FK Initial

3.9.2 ACISAT302: SIM Activation after REFRESH: Check Signal

Description:

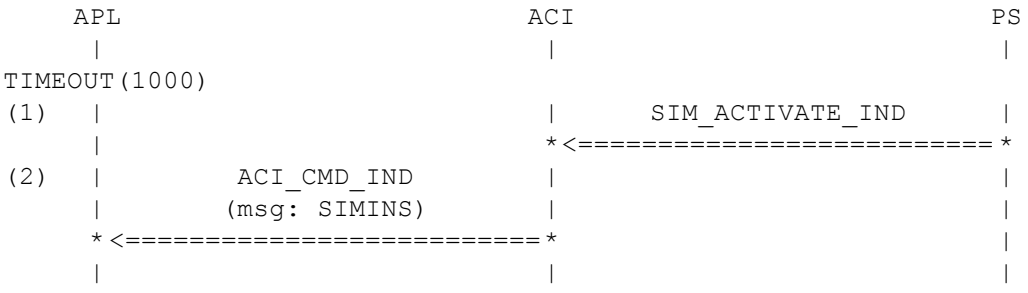
After a SAT command REFRESH (SIM Reset) issued by the preamble a primitive SIM_ACTIVATE_IND is received. The error code is evaluated. The result is simulated with an unsolicited AT response.

Variants**:**

<A>....<F>

Preamble:

<A>	ACISAT301A
<B>	ACISAT301A
<C>	ACISAT301A
<D>	ACISAT301D
<E>	ACISAT301D
<F>	ACISAT301D



Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_IND		
<A>	cause	SIM_NO_ERROR
<B>	cause	SIM_CAUSE_PIN1_EXPECT
<C>	cause	SIM_CAUSE_PUK1_EXPECT
<D>	cause	SIM_NO_ERROR
<E>	cause	SIM_CAUSE_PIN1_EXPECT
<F>	cause	SIM_CAUSE_PUK1_EXPECT
<A>	pin_cnt	NUM_3
<B>	pin_cnt	NUM_3
<C>	pin_cnt	NUM_0
<D>	pin_cnt	NUM_3
<E>	pin_cnt	NUM_3
<F>	pin_cnt	NUM_0
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SIMINS
<A>	cmd_seq	M_PERCENT_SIMINS_NO_PIN
<B>	cmd_seq	M_PERCENT_SIMINS_PIN_REQU
<C>	cmd_seq	M_PERCENT_SIMINS_PUK_REQU
<D>	cmd_seq	M_PERCENT_SIMINS_NO_PIN
<E>	cmd_seq	M_PERCENT_SIMINS_PIN_REQU
<F>	cmd_seq	M_PERCENT_SIMINS_PUK_REQU

History:	19.09.2000	FK	Initial

3.9.3 ACISAT311: Unsolicited Reception of SIM_MMI_INSERT_IND

Description:

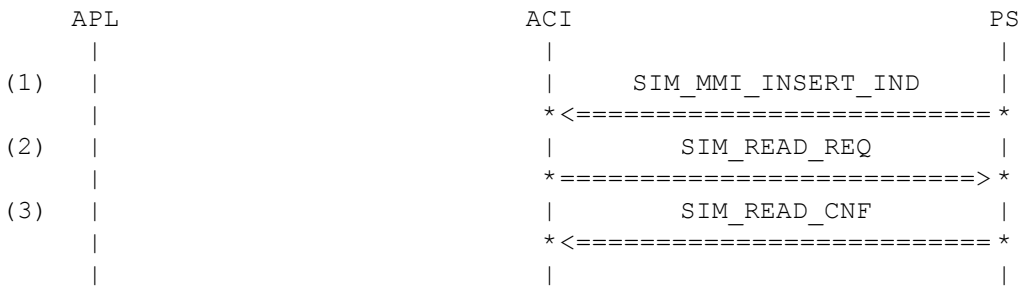
This primitive can be the outcome of a SAT command REFRESH (SIM Reset) or (SIM Initialisation). In both cases, the services indicated by the SIM Service Table have to be processed accordingly.

Variants**:**

<A>....<L>

Preamble:

<A>	ACISAT014
<B>	ACISAT302A
<C>	ACISAT015A
<D>	ACISAT302D
<E>	ACISAT014
<F>	ACISAT302A
<G>	ACISAT015A
<H>	ACISAT302D
<I>	ACISAT014
<J>	ACISAT302A
<K>	ACISAT015A
<L>	ACISAT302D



Parametrization:

Primitive	Parameter	Value
(1) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
<A>	sim_serv	F_SIM_SRV
<B>	sim_serv	F_SIM_SRV
<C>	sim_serv	F_SIM_SRV
<D>	sim_serv	F_SIM_SRV
<E>	sim_serv	F_SIM_SRV_SMS
<F>	sim_serv	F_SIM_SRV_SMS
<G>	sim_serv	F_SIM_SRV_SMS
<H>	sim_serv	F_SIM_SRV_SMS
<I>	sim_serv	F_SIM_SRV_PHB
<J>	sim_serv	F_SIM_SRV_PHB
<K>	sim_serv	F_SIM_SRV_PHB
<L>	sim_serv	F_SIM_SRV_PHB
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(2) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(3) SIM_READ_CNF		
	datafield	SIM_ECC
	cause	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD

History:			
19.09.2000	FK	Initial	
20.10.2000	FK	Read EF(ECC) added	

3.9.4 ACISAT312: Initialisation Ready without Additional SIM Data read

Description:

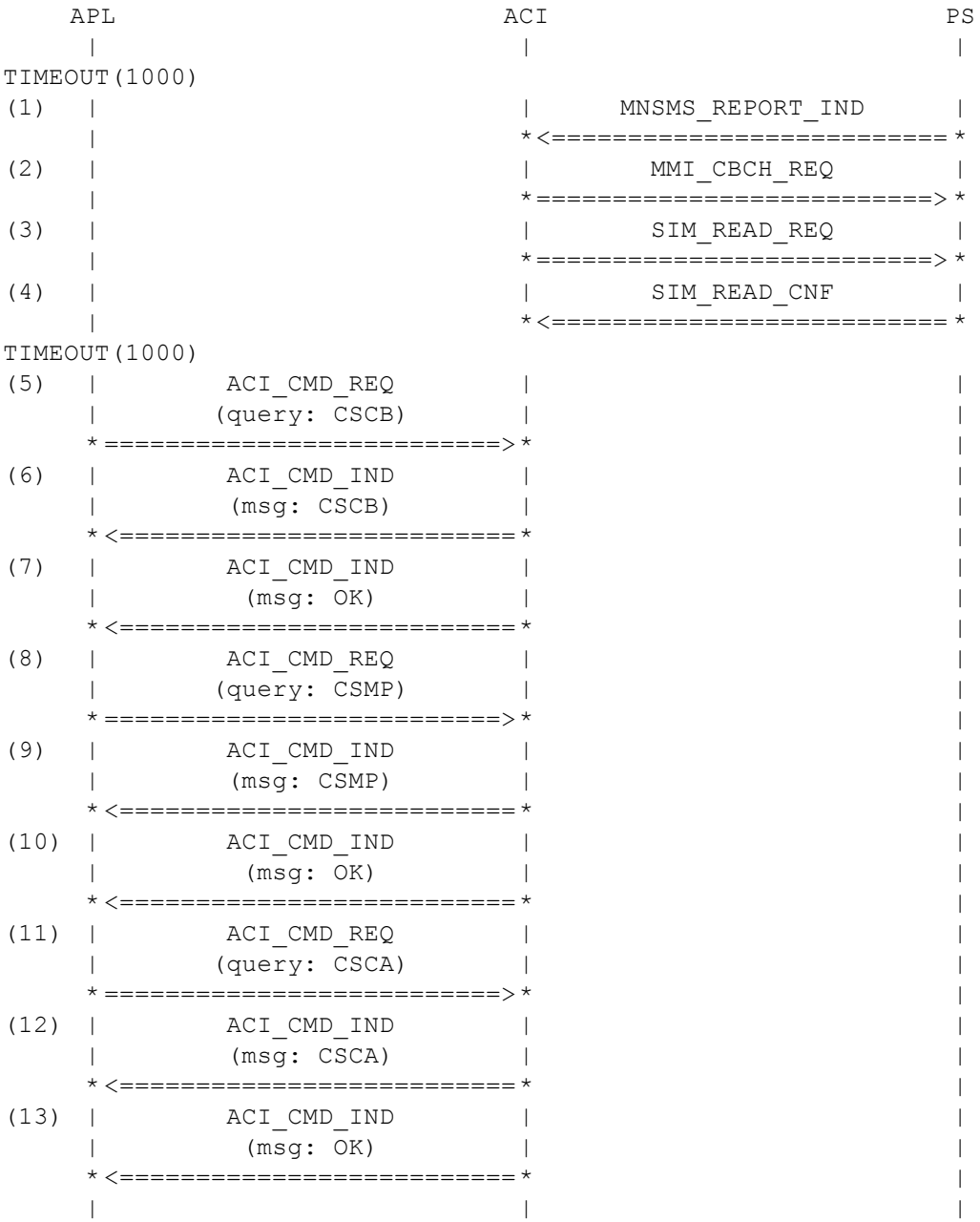
ACI receives the message MNSMS_REPORT_IND with parameter CS_SMS_READY. The SIM Service Table previously received indicates that no additional data must be read from the SIM card. Variant A is the situation after power-on, Variant B the situation after SIM Re-Initialisation.

Variants**:**

<A>....<D>

Preamble:

<A>	ACISAT311A
<B>	ACISAT311B
<C>	ACISAT311C
<D>	ACISAT311D



Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(2) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP

(3)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NOT_USED
		datafield	SIM_AD
		length	NOT_PRESENT_8BIT
		max_length	NOT_USED
(4)	SIM_READ_CNF		
		datafield	SIM_AD
		cause	SIM_NO_ERROR
		length	NOT_USED
		trans_data	NOT_USED
(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_QUERY
		cmd_seq	C_CSCB_QUERY
(6)	ACI_CMD_IND		
		cmd_len	LM_CSCB_QUERY_DEF
		cmd_seq	M_CSCB_QUERY_DEF
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(8)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMP_QUERY
		cmd_seq	C_CSMP_QUERY
(9)	ACI_CMD_IND		
		cmd_len	LM_CSMP_QUERY_DEF
		cmd_seq	M_CSMP_QUERY_DEF
(10)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(11)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(12)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY_DEF
		cmd_seq	M_CSCA_QUERY_DEF
(13)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 20.09.2000 FK Initial

3.9.5 ACISAT313: Initialisation Ready with SMS Parameters read from SIM

Description:

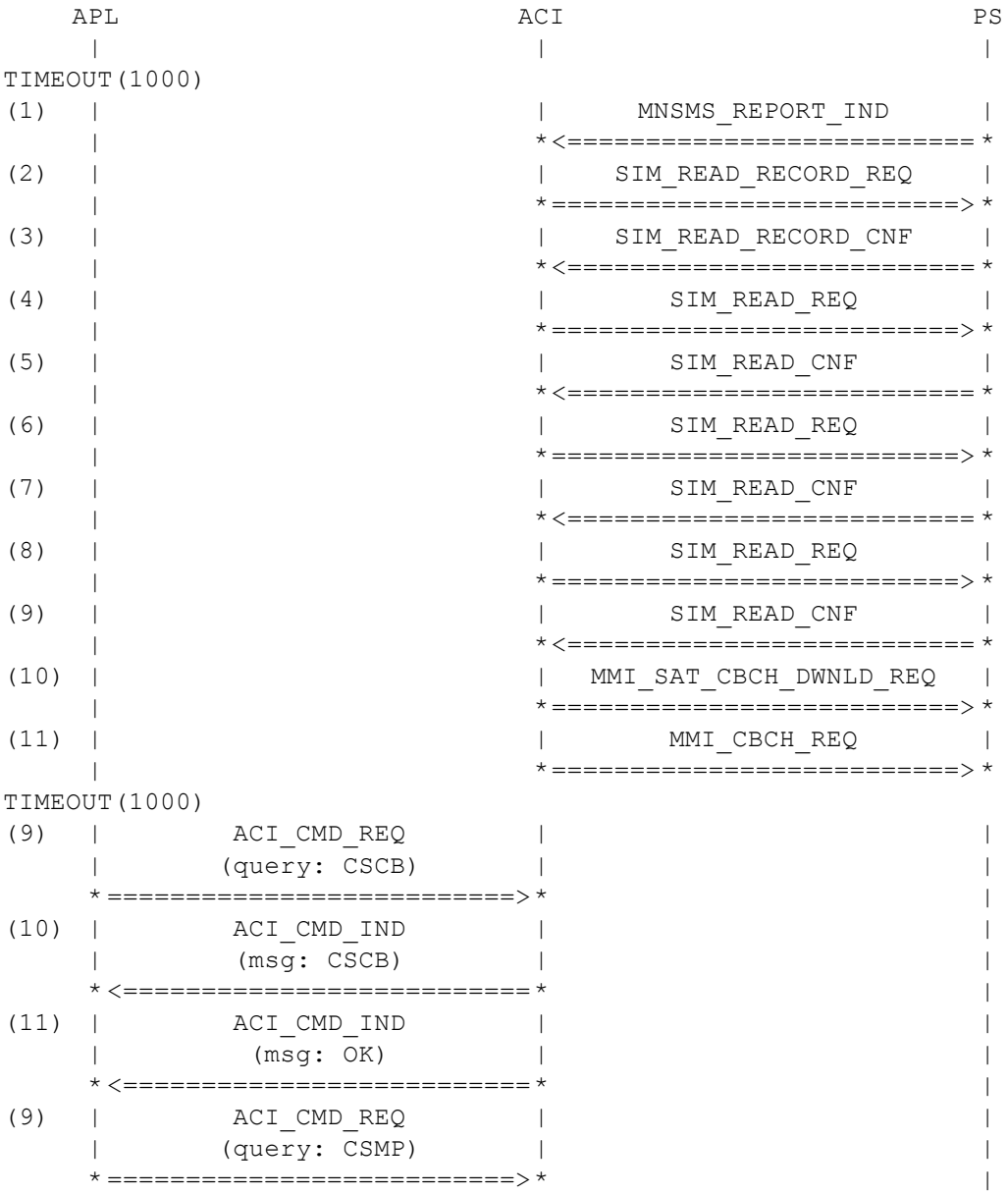
ACI receives the message MNSMS_REPORT_IND with parameter CS_SMS_READY. The SIM Service Table previously received indicates that SMS is available and the relevant parameters have to be read from the SIM card. Variant C is the situation after power-on, Variant D the situation after SIM Re-Initialisation.

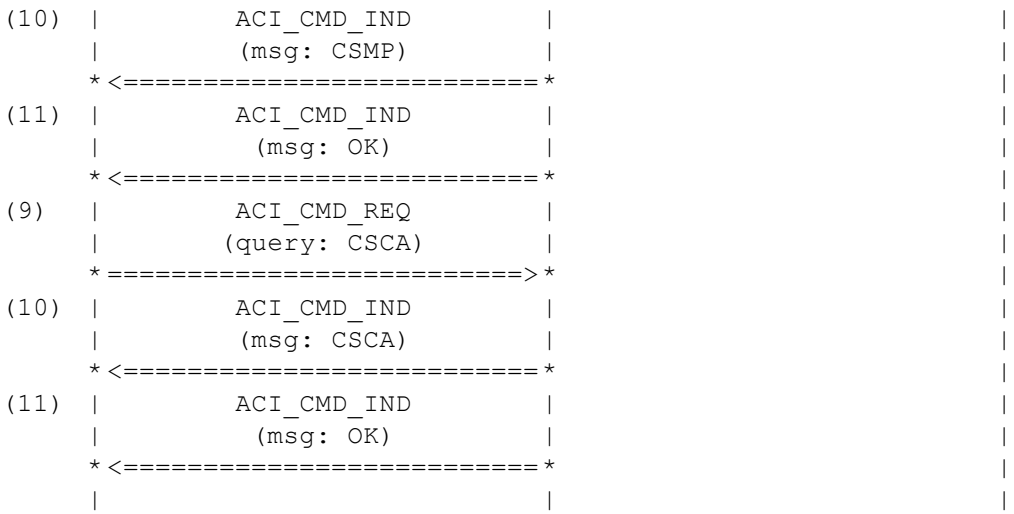
Variants**:**

<A>....<D>

Preamble:

<A>	ACISAT311E
<B>	ACISAT311F
<C>	ACISAT311G
<D>	ACISAT311H





Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(2) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(3) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
	length	L_SMSP_ALPHA_ID
	linear_data	SMSP_CMPL_ALPHA_ID
(4) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(5) SIM_READ_CNF		
	datafield	SIM_CBMIR
	cause	SIM_NO_ERROR
	length	L_CBMIR_5
	trans_data	CBMIR_5E_5R
(6) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	NOT_PRESENT_8BIT
	max_length	NUM_255

(7) SIM_READ_CNF

datafield	SIM_CBMI
cause	SIM_NO_ERROR
length	L_CBMI_10
trans_data	CBMI_10E_2V3

(8) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_CBMID
length	NOT_PRESENT_8BIT
max_length	NUM_255

(9) SIM_READ_CNF

datafield	SIM_CBMID
cause	SIM_NO_ERROR
length	L_CBMID_10
trans_data	CBMID_10E_2V

(10) MMI_SAT_CBCH_DWNLD_REQ

count	NUM_0002
msg_id	CBM_MID_SAT_2V

(11) MMI_CBCH_REQ

msg_id	CBM_MID_DEF
dcs_id	CBM_DCS_DEF
modus	MMI_CBCH_STOP

(12) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_QUERY
cmd_seq	C_CSCB_QUERY

(13) ACI_CMD_IND

cmd_len	LM_CSCB_QUERY_5R_2V
cmd_seq	M_CSCB_QUERY_5R_2V

(14) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(15) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSMP_QUERY
cmd_seq	C_CSMP_QUERY

(16) ACI_CMD_IND

cmd_len	LM_CSMP_QUERY_SMSP_CMPL
cmd_seq	M_CSMP_QUERY_SMSP_CMPL

(17) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(18) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCA_QUERY
cmd_seq	C_CSCA_QUERY

(19) ACI_CMD_IND

cmd_len	LM_CSCA_QUERY1_SMSP
cmd_seq	M_CSCA_QUERY1_SMSP

(20) ACI_CMD_IND			
	cmd_len		LM_OK
	cmd_seq		M_OK

History: 20.09.2000 FK Initial

3.9.6 ACISAT321: SAT File Change Notification: no Update Required

Description:

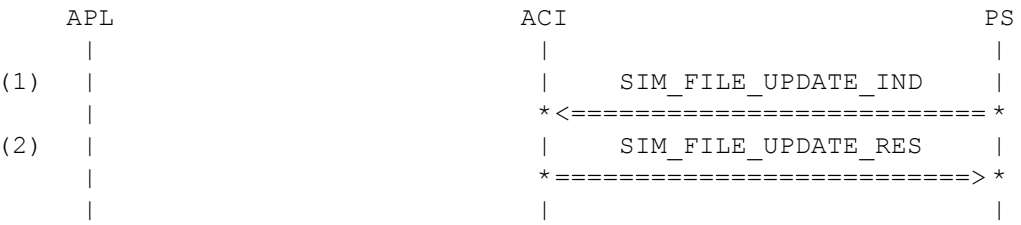
ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. None of the EFs is buffered by the ACI, therefore the result primitive SIM_FILE_UPDATE_RESPONSE is returned without doing anything.

Variants**:**

<A>....<C>

Preamble:

ACISAT012F



Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND		
<A>	val_nr	NUM_1
<B>	val_nr	NUM_2
<C>	val_nr	NUM_3
<A>	file_id	SAT_FU_IND_EF_KC
<B>	file_id	SAT_FU_IND_EF_KC_BCCH
<C>	file_id	SAT_FU_IND_EF_ACC_KC_BCCH
(2) SIM_FILE_UPDATE_RES		
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS

History: 04.09.2000 FK Initial

3.9.7 ACISAT322: SAT File Change Notification: Update Required for SMS/CBCH Parameters

Description:

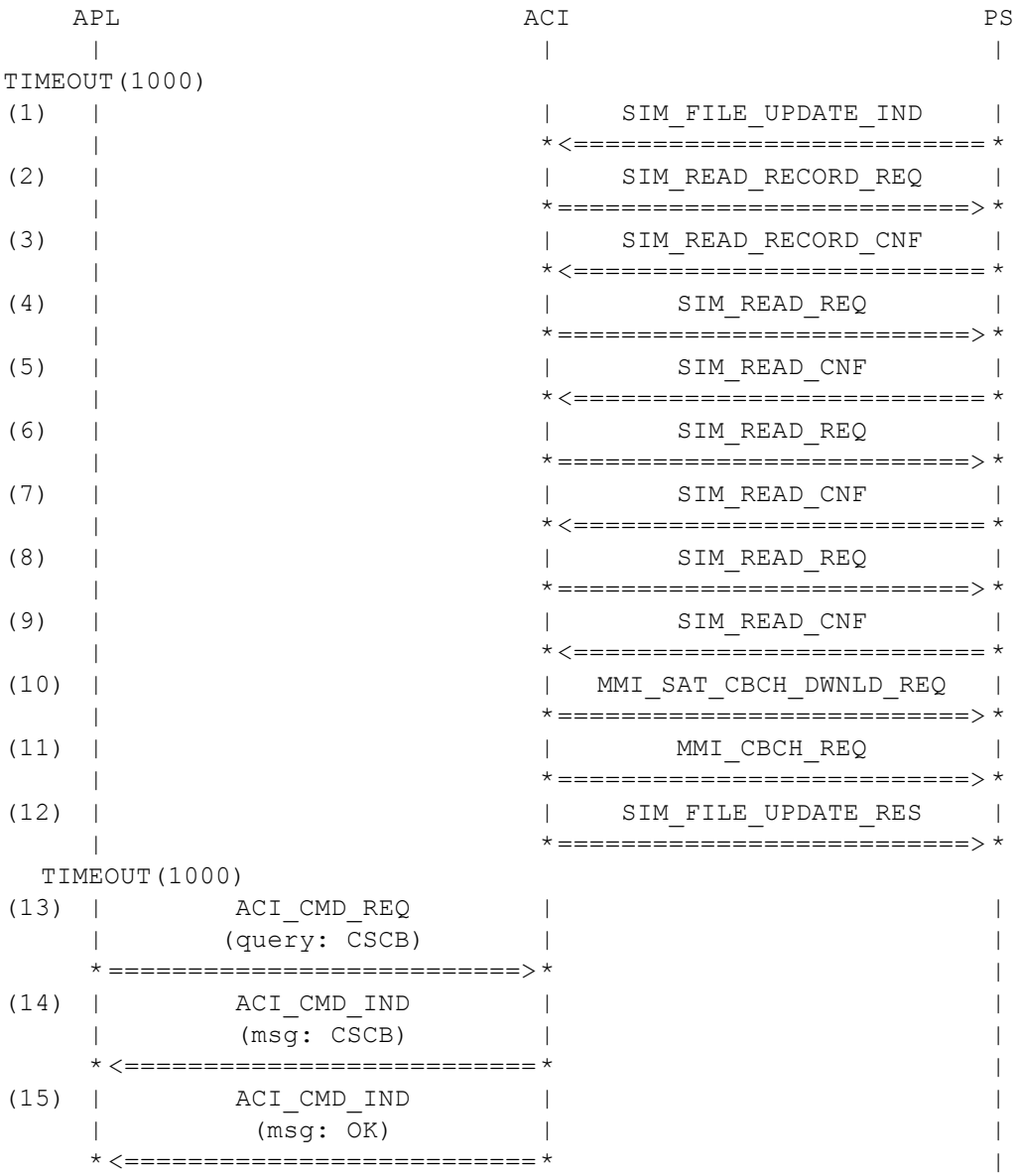
After Initialisation a MNSMS_REPORT_IND starts the SMS service and the SMS/CBCH parameters are read from SIM. Then ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SMSP), EF(CBMI) or EF(CBMIR) in the list triggers rereading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

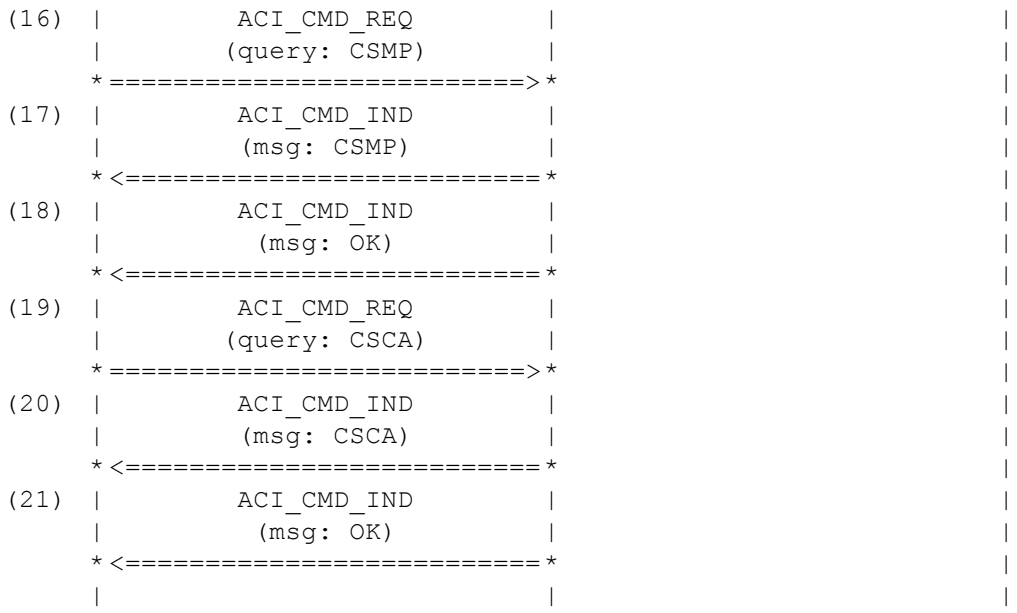
Variants**:**

<A>....<E>

Preamble:

<A>	ACISAT015A
<B>	ACISAT015C
<C>	ACISAT015A
<D>	ACISAT015B
<E>	ACISAT015C





Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND		
<A>	val_nr	NUM_2
<B>	val_nr	NUM_3
<C>	val_nr	NUM_3
<D>	val_nr	NUM_4
<E>	val_nr	NUM_2
<A>	file_id	SAT_FU_IND_EF_ACC_SMSP
<B>	file_id	SAT_FU_IND_EF_ACC_SMSP_CBMI
<C>	file_id	SAT_FU_IND_EF_SMSP_ACC_CBMIR
<D>	file_id	SAT_FU_IND_EF_SMSP_ACC_CBMIR_CBMI
<E>	file_id	SAT_FU_IND_EF_CBMIR_ACC
(2) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(3) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
	length	L_SMSP_ALPHA_ID
	linear_data	SMSP_CMPL_ALPHA_ID
(4) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255

(5)	SIM_READ_CNF		
		datafield	SIM_CBMIR
		cause	SIM_NO_ERROR
		length	L_CBMIR_5
		trans_data	CBMIR_5E_5R
(6)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMI
		length	NOT_PRESENT_8BIT
		max_length	NUM_255
(7)	SIM_READ_CNF		
		datafield	SIM_CBMI
		cause	SIM_NO_ERROR
		length	L_CBMI_10
		trans_data	CBMI_10E_2V3
(8)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMID
		length	NOT_PRESENT_8BIT
		max_length	NUM_255
(9)	SIM_READ_CNF		
		datafield	SIM_CBMID
		cause	SIM_NO_ERROR
<A>		length	L_CBMID_10
<B>		length	L_CBMID_10
<C>		length	L_CBMID_10
<D>		length	L_CBMID_5
<E>		length	L_CBMID_5
<A>		trans_data	CBMID_10E_2V
<B>		trans_data	CBMID_10E_2V
<C>		trans_data	CBMID_10E_2V2
<D>		trans_data	CBMID_5E_1V
<E>		trans_data	CBMID_5E_1V
(10)	MMI_SAT_CBCH_DWNLD_REQ		
<A>		count	NUM_0002
<B>		count	NUM_0002
<C>		count	NUM_0002
<D>		count	NUM_0001
<E>		count	NUM_0001
<A>		msg_id	CBM_MID_SAT_2V
<B>		msg_id	CBM_MID_SAT_2V
<C>		msg_id	CBM_MID_SAT_2V
<D>		msg_id	CBM_MID_SAT_1V
<E>		msg_id	CBM_MID_SAT_1V
(11)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	MMI_CBCH_STOP

(12) SIM_FILE_UPDATE_RES		
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(14) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_5R_2V
	cmd_seq	M_CSCB_QUERY_5R_2V
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(16) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(17) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(18) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(19) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(20) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY1_SMSP
	cmd_seq	M_CSCA_QUERY1_SMSP
(21) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.09.2000 FK Initial

3.9.8 ACISAT323: SAT File Change Notification: Update Required for LP, AD and Phonebook Parameters

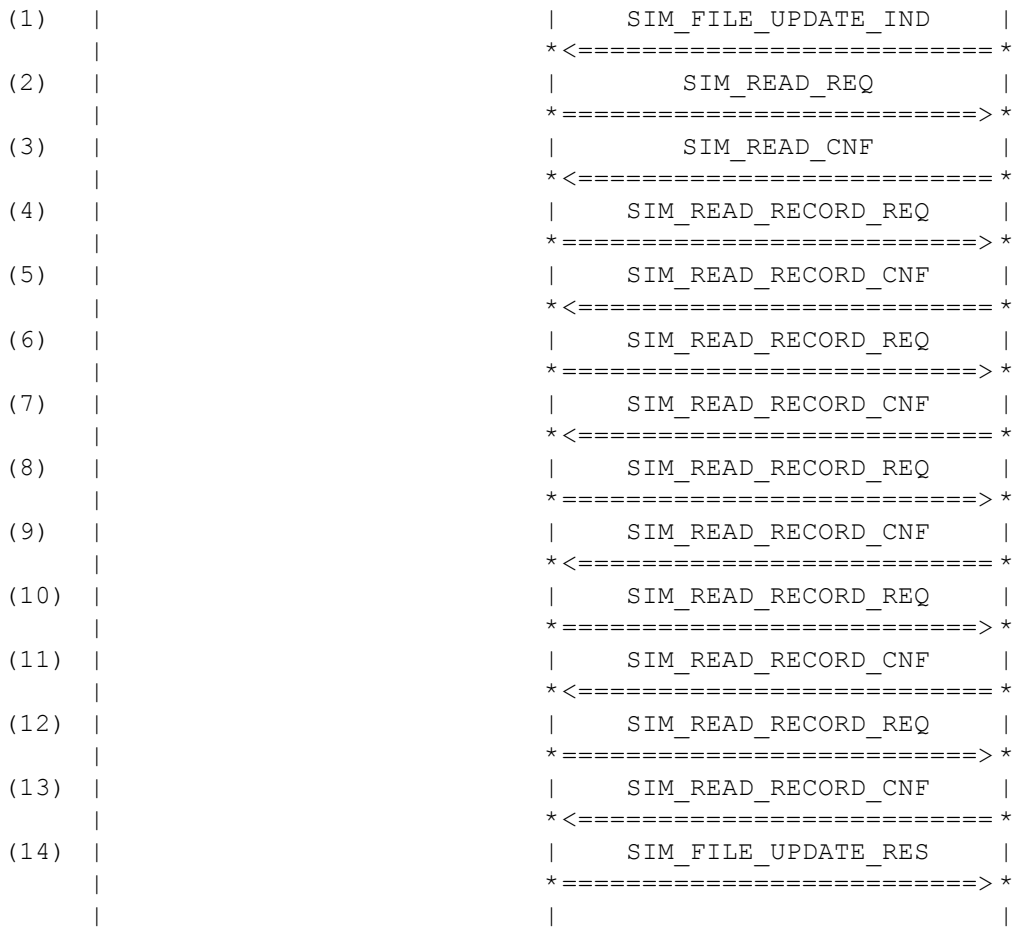
Description:

SIM Service Table has ADN, FDN and MSISDN allocated and activated. Then ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(AD) or EF(MSISDN) in the list triggers rereading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

ACISAT013C

```
    APL                         ACI                         PS
     |                           |                          |
TIMEOUT(1000)
```



Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND		
	val_nr	NUM_4
	file_id	SAT_FU_IND_EF_AD_MSISDN_ACM
(2) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(3) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	L_AD_01
	trans_data	AD_01
(4) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_1
	length	NOT_PRESENT_8BIT

(5) SIM_READ_RECORD_CNF

datafield	SIM_ADN
cause	SIM_NO_ERROR
record	NUM_1
max_record	NUM_2
length	L_ADN_01
linear_data	ADN_01

(6) SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_ADN
record	NUM_2
length	L_ADN_01

(7) SIM_READ_RECORD_CNF

datafield	SIM_ADN
cause	SIM_NO_ERROR
record	NUM_2
max_record	NUM_2
length	L_ADN_02
linear_data	ADN_02

(8) SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_FDN
record	NUM_1
length	NOT_PRESENT_8BIT

(9) SIM_READ_RECORD_CNF

datafield	SIM_FDN
cause	SIM_NO_ERROR
record	NUM_1
max_record	NUM_1
length	L_FDN_01
linear_data	FDN_01

(10)SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_MSISDN
record	NUM_1
length	NOT_PRESENT_8BIT

(11)SIM_READ_RECORD_CNF

datafield	SIM_MSISDN
cause	SIM_NO_ERROR
record	NUM_1
max_record	NUM_1
length	L_MSISDN_01
linear_data	MSISDN_01

(12)SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_LND
record	NUM_1
length	NOT_PRESENT_8BIT

(13)SIM_READ_RECORD_CNF

datafield	SIM_LND
cause	SIM_NO_ERROR
record	NUM_1
max_record	NUM_1
length	L_LND_01
linear_data	LND_01

(14) SIM_FILE_UPDATE_RES

source	SRC_MMI
fu_rsc	SIM_FU_SUCC_ADD

History:	26.03.2002	TLU	Initial
	13.05.2003	TLU	LND added

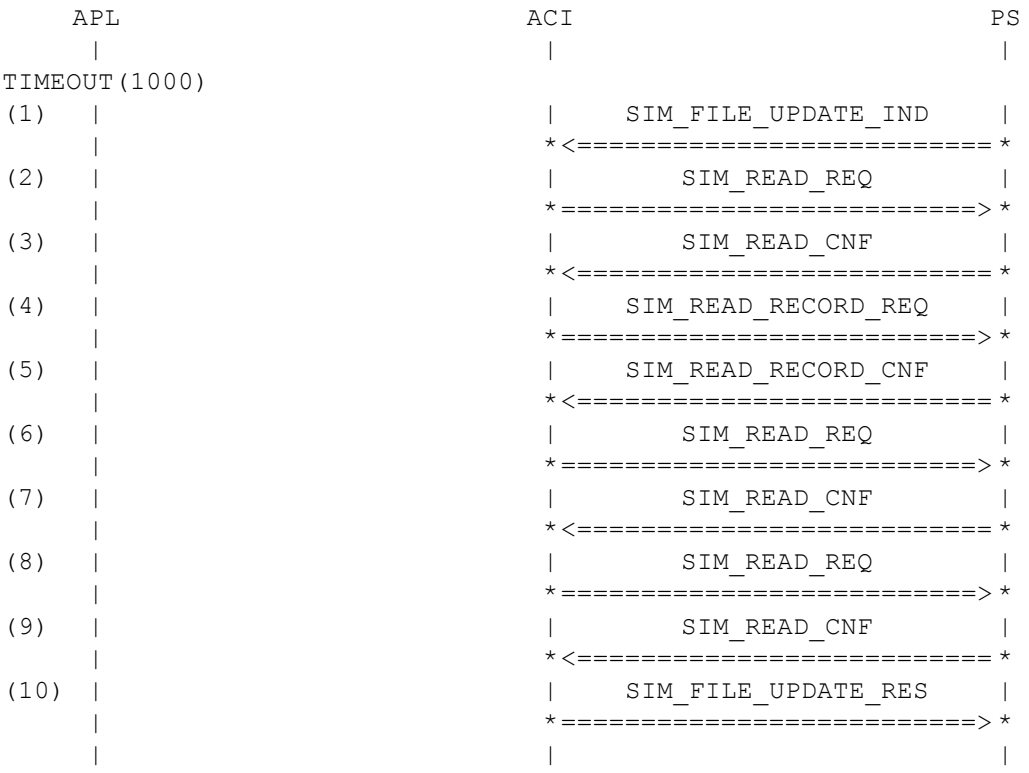
3.9.9 ACISAT324: SAT File Change Notification: Update Required for AD and ACM Parameters

Description:

SIM Service Table has AOC allocated and activated. Then ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(AD) or EF(ACM) in the list triggers rereading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

ACISAT013D



Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND		
	val_nr	NUM_4
	file_id	SAT_FU_IND_EF_AD_MSISDN_ACM

(2) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(3) SIM_READ_CNF		
	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	L_AD_01
	trans_data	AD_01
(4) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ACM
	record	NUM_1
	length	NUM_3
(5) SIM_READ_RECORD_CNF		
	datafield	SIM_ACM
	cause	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	L_ACM_01
	linear_data	ACM_01
(6) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ACMMAX
	length	NUM_3
	max_length	NUM_3
(7) SIM_READ_CNF		
	datafield	SIM_ACMMAX
	cause	SIM_NO_ERROR
	length	L_ACMMAX_01
	trans_data	ACMMAX_01
(8) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PUCT
	length	NUM_5
	max_length	NUM_5
(9) SIM_READ_CNF		
	datafield	SIM_PUCT
	cause	SIM_NO_ERROR
	length	L_PUCT_01
	trans_data	PUCT_01
(10)SIM_FILE_UPDATE_RES		
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD

History: 26.03.2002 TLU Initial

3.10 CB Data Download

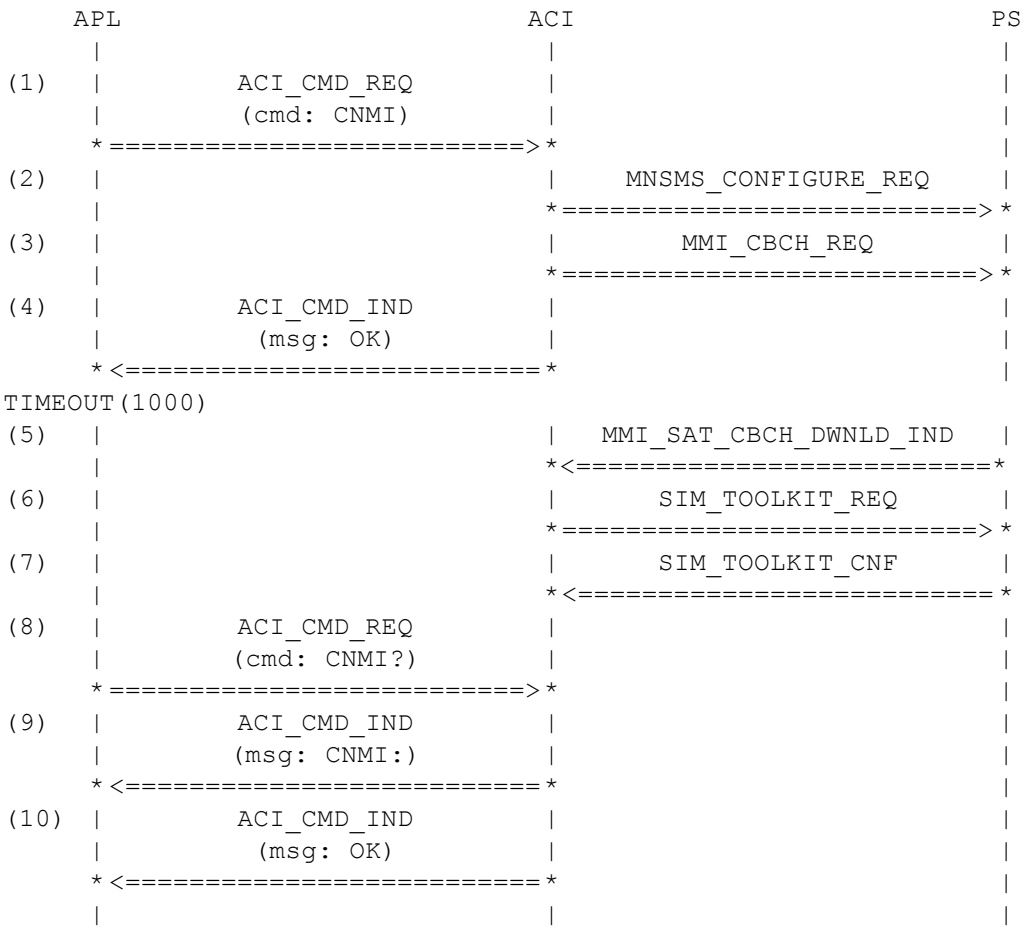
3.10.1 ACISAT331: CB Message received: Mess Id found in EF(CBMID): Transfer to SIM

Description:

ACI receives indication of a successful SMS initialization..

Preamble:

ACISAT015A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED

(3)	MMI_CBCH_REQ		
		msg_id	CBM_MID_2R_2V
		dcs_id	CBM_DCS_DEF
		modus	CBCH_ACCEPT
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(5)	MMI_SAT_CBCH_DWNLD_IND		
		cbch_msg	CBCH_MSG_3
		cbch_len	CBCH_MSG_LEN
(6)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_CBCH_MSG_3
(7)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(8)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_QUERY
		cmd_seq	C_CNMI_QUERY
(9)	ACI_CMD_IND		
		cmd_len	LM_CNMI_QUERY
		cmd_seq	M_CNMI_QUERY
(10)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	02.10.2000	CLB	Initial
	23.10.2000	FK	Updated

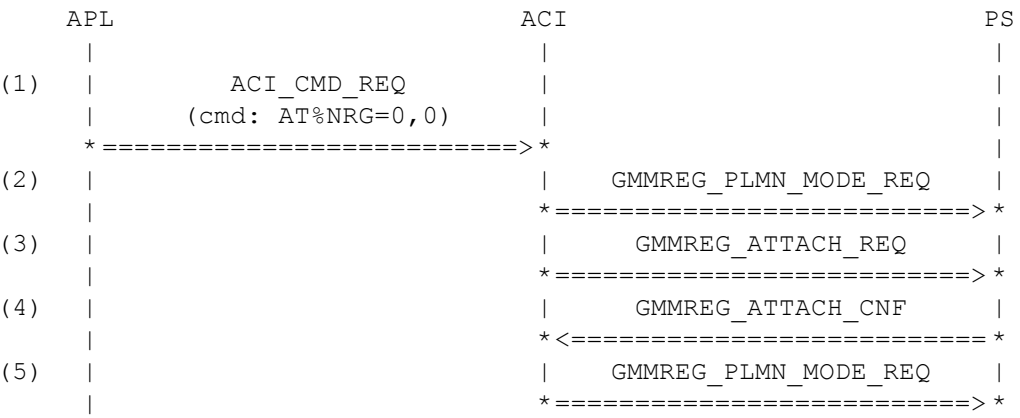
3.10.2 ACISAT332: CB Message received: Mess ID not found in EF(CBMID): No Transfer to SIM

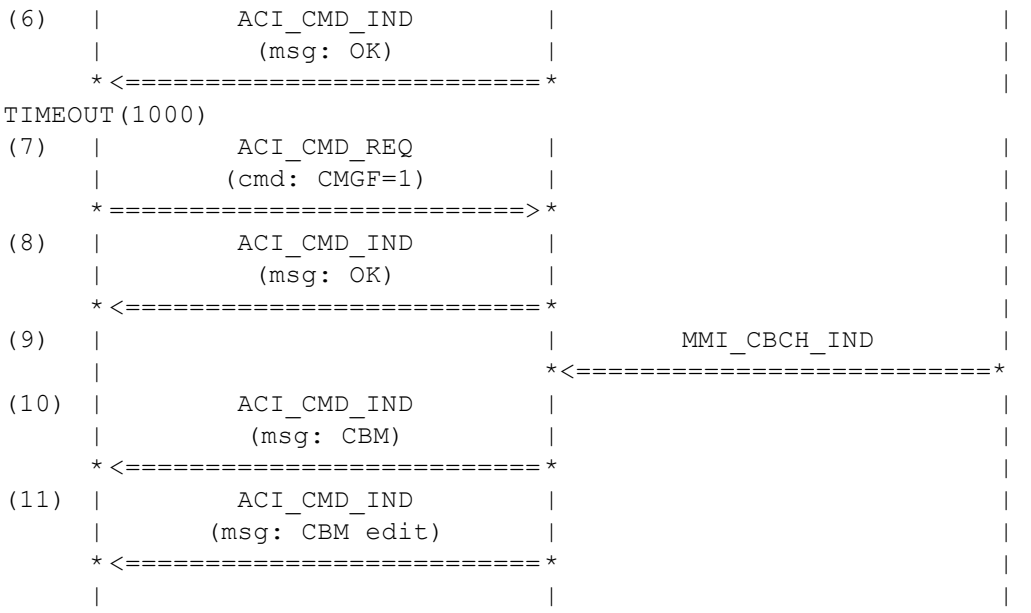
Description:

ACI receives a Cell Broadcast Message which has to be presented to the MMI.

Preamble:

ACISAT331





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_NRG_FULL_AUTO
	cmd_seq	C_PLUS_NRG_FULL_AUTO
(2) GMMREG_PLMN_MODE_REQ		
	net_selection_mode	GMMREG_NET_SEL_MODE_AUTO
(3) GMMREG_ATTACH_REQ		
	mobile_class	GMMREG_CLASS_BG
	attach_type	GMMREG_AT_IMSI
	service_mode	SERVICE_MODE_FULL
	t3314_ready_val	VAL_T3314
	t3312_standby_rau_val	VAL_T3312
(4) GMMREG_ATTACH_CNF		
	attach_type	GMMREG_AT_IMSI
	plmn	NOT_USED
	lac	NUM_1
	rac	NUM_1
	cid	NUM_1
	gprs_indicator	GMM_GPRS_SUPP_YES
	search_running	GMMREG_SEARCH_NOT_RUNNING
(5) GMMREG_PLMN_MODE_REQ		
	net_selection_mode	GMMREG_NET_SEL_MODE_AUTO
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_SET_TXT
	cmd_seq	C_CMGF_SET_TXT

(8) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(9) MMI_CBCH_IND

cbch_msg	CBCH_MSG_2
cbch_len	CBCH_MSG_LEN

(10) ACI_CMD_IND

cmd_len	LM_CBM_MSG_2
cmd_seq	M_CBM_MSG_2

(11) ACI_CMD_IND

cmd_len	LM_CBM_MSG_2_TEXT
cmd_seq	M_CBM_MSG_2_TEXT

History:	02.10.2000	CLB	Initial
	23.10.2000	FK	Revised
	04.09.2002	RM	Updated
	13.05.2003	TLU	Adapted to GPRS stack

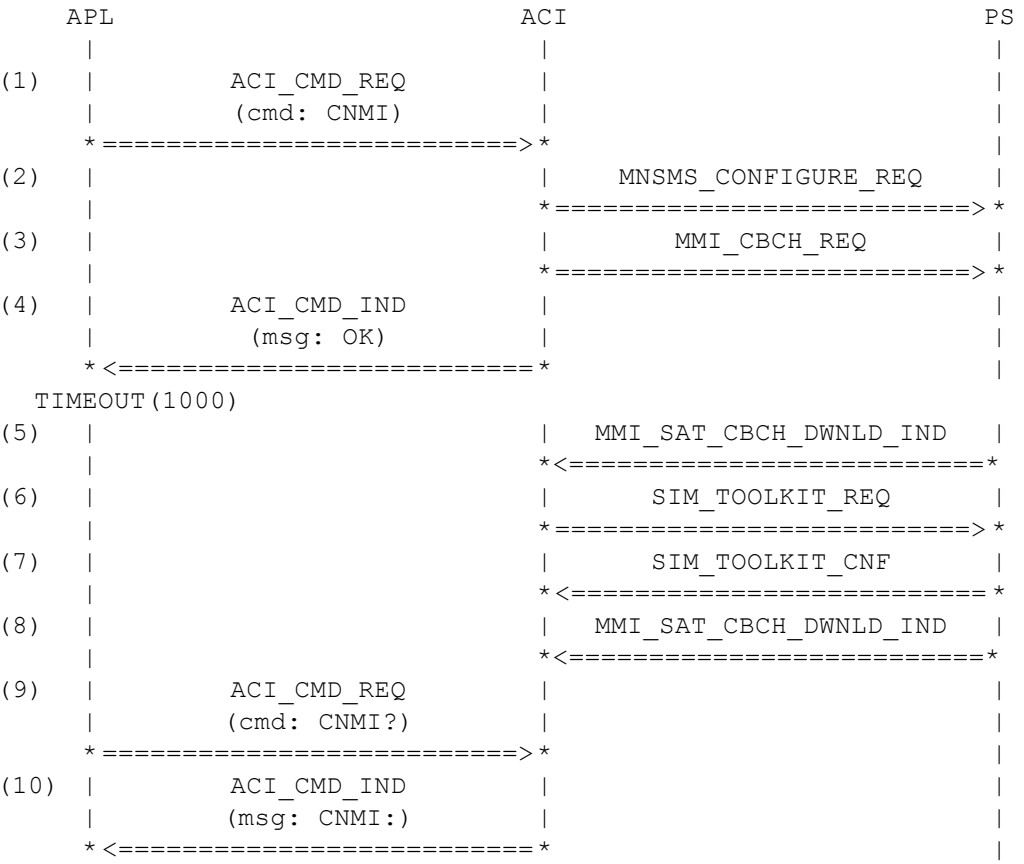
3.10.3 ACISAT333: CB Message received: Mess Id found in EF(CBMID): same CBM page

Description:

ACI receives 2 CBM pages. 2. Page is the same as the first and will not be send to SIM.

Preamble:

ACISAT015A



```
(11)  |          ACI_CMD_IND          |                              |
      |           (msg: OK)           |                              |
      |<==============================|                              |
      |                               |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED
(3) MMI_CBCH_REQ		
	msg_id	CBM_MID_2R_2V
	dcs_id	CBM_DCS_DEF
	modus	CBCH_ACCEPT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_3
	cbch_len	CBCH_MSG_LEN
(6) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_3
(7) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(8) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_3
	cbch_len	CBCH_MSG_LEN
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_QUERY
	cmd_seq	C_CNMI_QUERY
(10) ACI_CMD_IND		
	cmd_len	LM_CNMI_QUERY
	cmd_seq	M_CNMI_QUERY
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.04.2002 KGT Initial

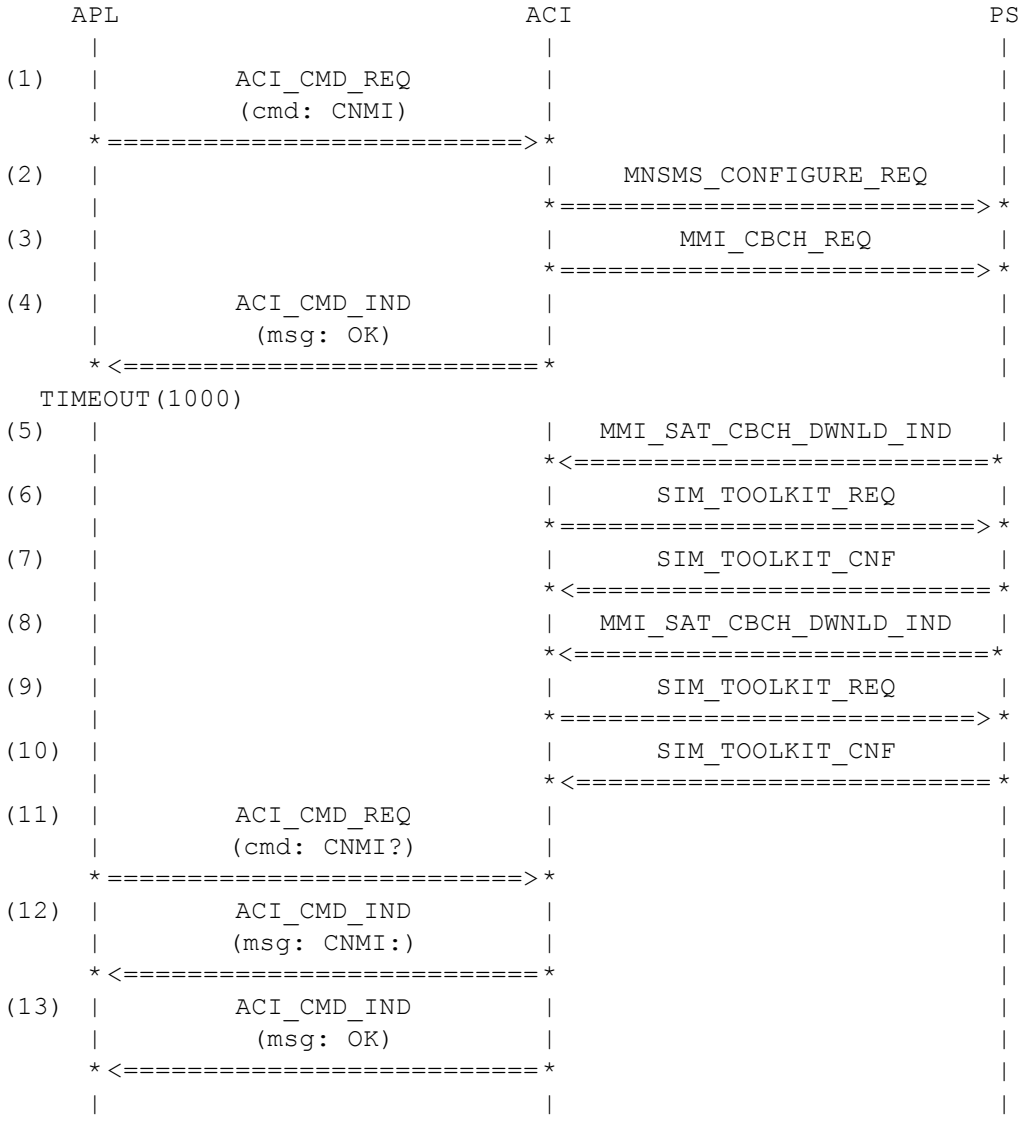
3.10.4 ACISAT334: CB Message received: Mess Id found in EF(CBMID): other CBM page

Description:

ACI receives 2 CBM pages. 2. Page is an other page than the first and will be send to SIM.

Preamble:

ACISAT015A



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM

(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED
(3) MMI_CBCH_REQ		
	msg_id	CBM_MID_2R_2V
	dcs_id	CBM_DCS_DEF
	modus	CBCH_ACCEPT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_3
	cbch_len	CBCH_MSG_LEN
(6) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_3
(7) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(8) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_3b
	cbch_len	CBCH_MSG_LEN
(9) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_3b
(10) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(11) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_QUERY
	cmd_seq	C_CNMI_QUERY
(12) ACI_CMD_IND		
	cmd_len	LM_CNMI_QUERY
	cmd_seq	M_CNMI_QUERY
(13) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.04.2002 KGT Initial

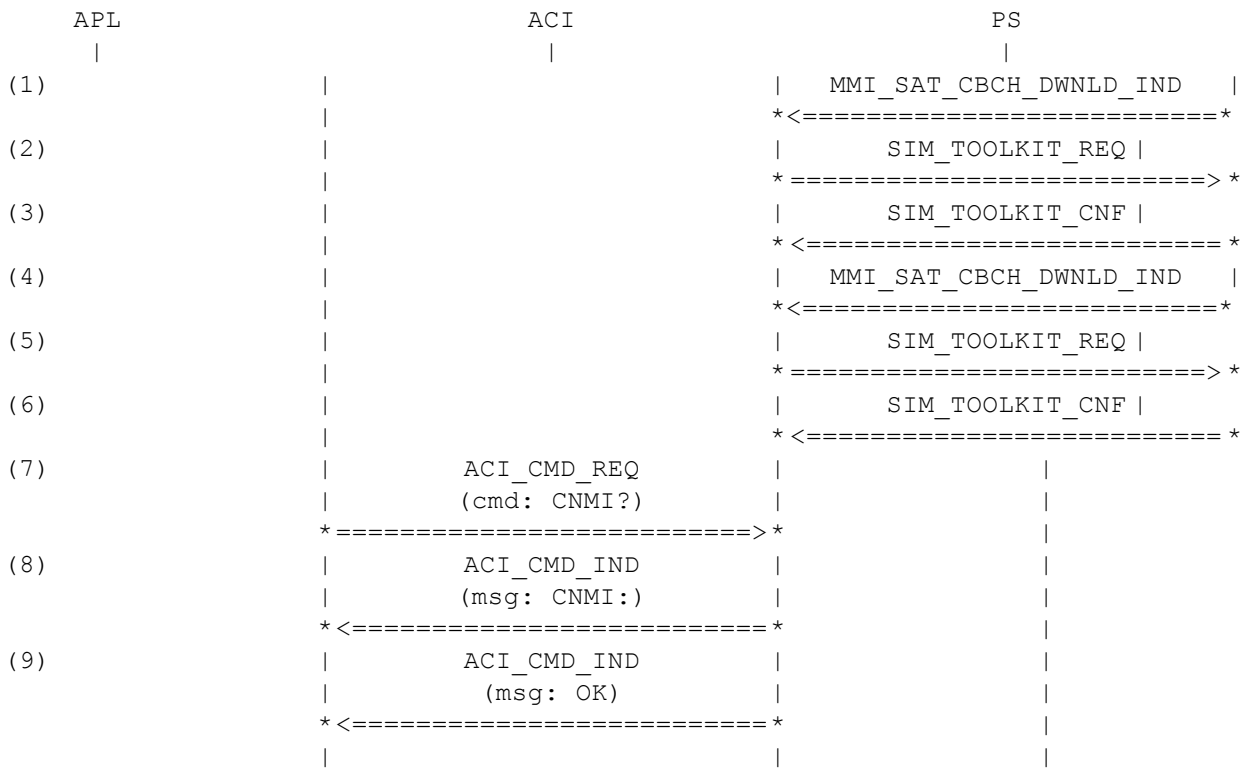
3.10.5 ACISAT335: CB Message received: Mess Id found in EF(CBMID): a 3rd and 4th different CBM page

Description:

ACI receives another 2 CBM pages.

Preamble:

ACISAT334



Parametrization:

Primitive	Parameter	Value
(1) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_4
	cbch_len	CBCH_MSG_LEN
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_4
(3) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(4) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_5
	cbch_len	CBCH_MSG_LEN
(5) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_5

(6)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(7)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_QUERY
		cmd_seq	C_CNMI_QUERY
(8)	ACI_CMD_IND		
		cmd_len	LM_CNMI_QUERY
		cmd_seq	M_CNMI_QUERY
(9)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 19.06.2002 KGT Initial

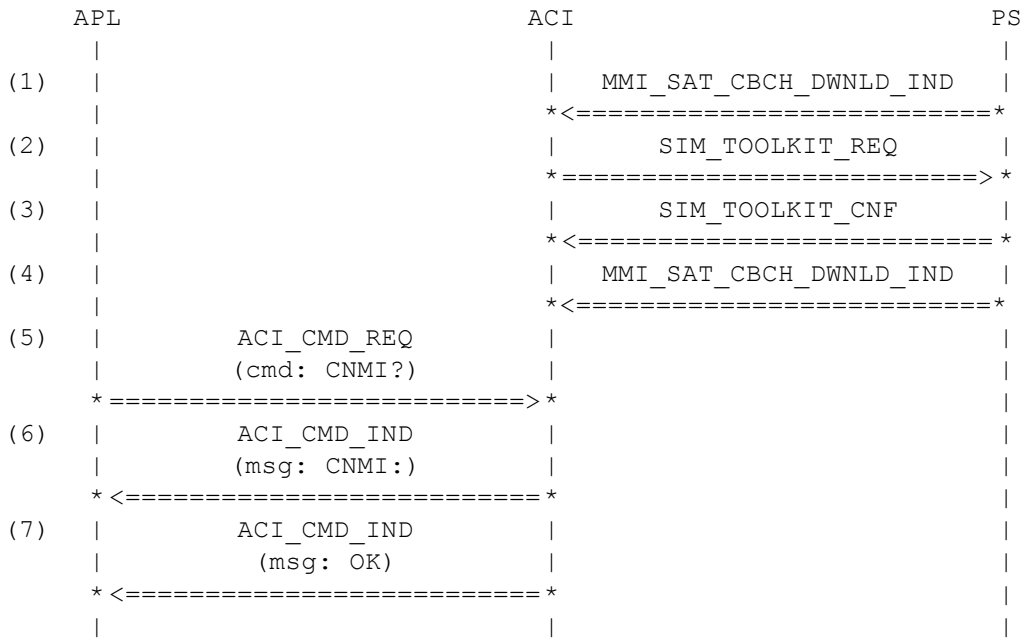
3.10.6 ACISAT336: CB Message received: MessId found in EF(CBMID): same identifiers, but other page number

Description:

ACI receives a CBM with same identifiers, but other page number.

Preamble:

ACISAT335



Parametrization:

Primitive	Parameter	Value
(1) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_4b
	cbch_len	CBCH_MSG_LEN

(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_4b
(3) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(4) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_4
	cbch_len	CBCH_MSG_LEN
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_QUERY
	cmd_seq	C_CNMI_QUERY
(6) ACI_CMD_IND		
	cmd_len	LM_CNMI_QUERY
	cmd_seq	M_CNMI_QUERY
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

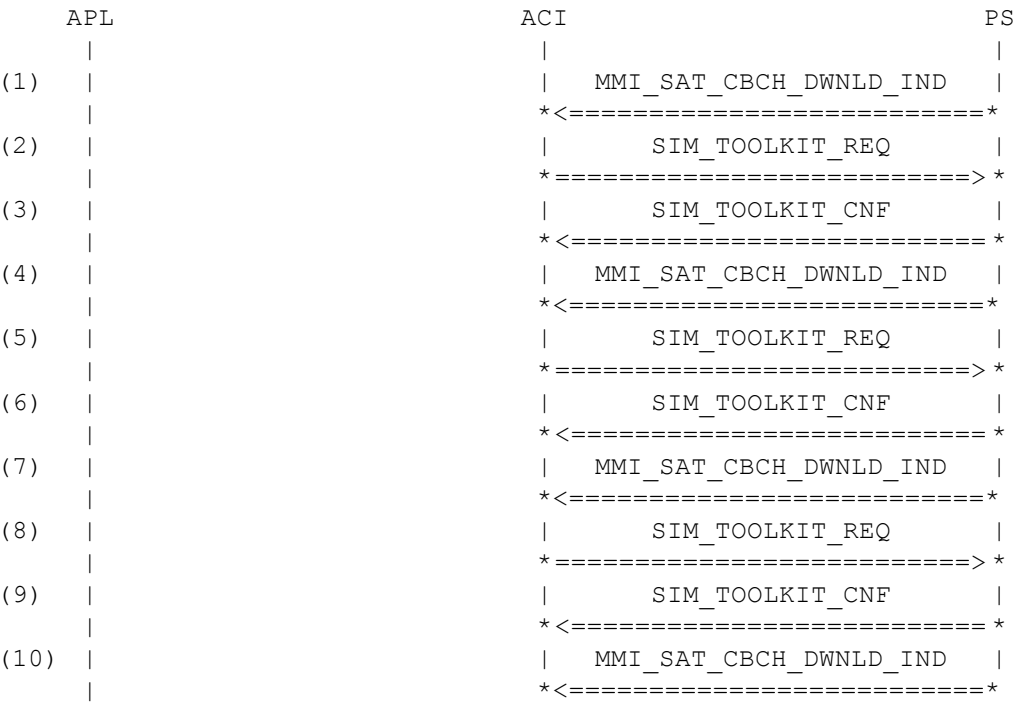
History: 20.06.2002 KGT Initial

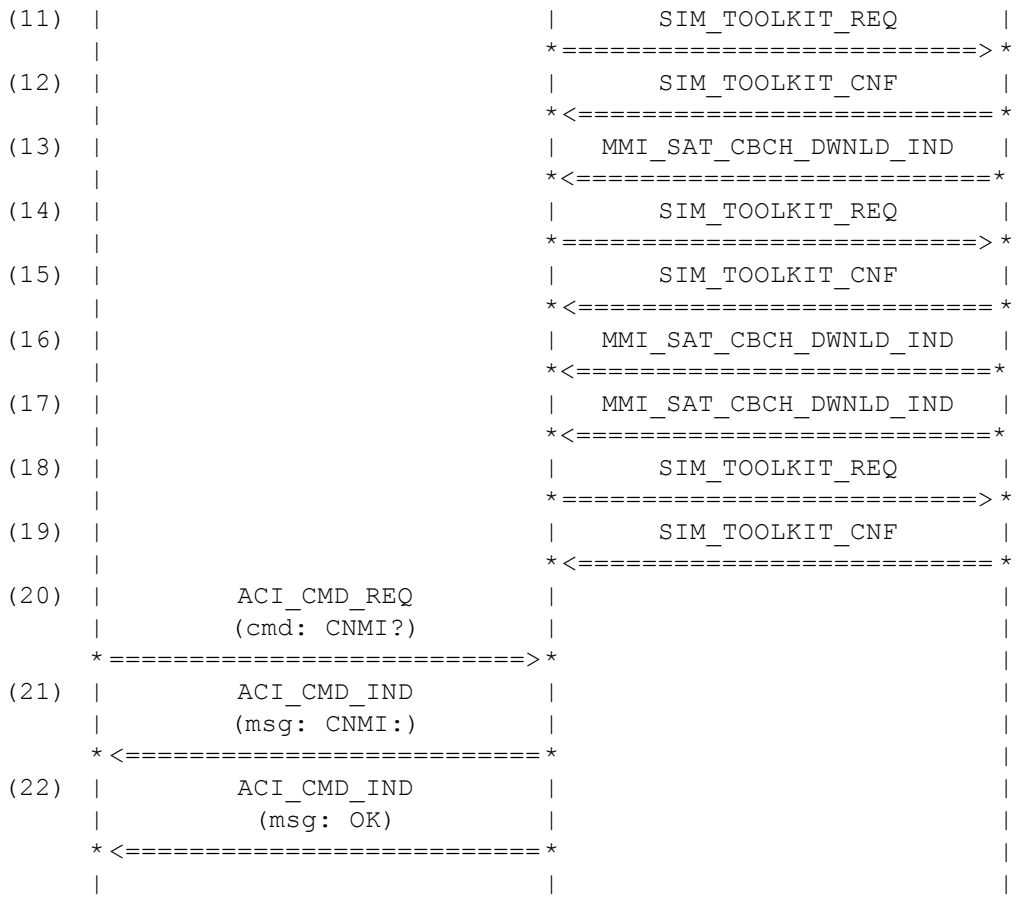
3.10.7 ACISAT337: CB Message received: more CBM downloaded than can be saved in list

Description:

Preamble:

ACISAT336





Parametrization:

	Primitive	Parameter	Value
(1)	MMI_SAT_CBCH_DWNLD_IND		
		cbch_msg	CBCH_MSG_6
		cbch_len	CBCH_MSG_LEN
(2)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_CBCH_MSG_6
(3)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(4)	MMI_SAT_CBCH_DWNLD_IND		
		cbch_msg	CBCH_MSG_7
		cbch_len	CBCH_MSG_LEN
(5)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_CBCH_MSG_7

(6) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(7) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_8
	cbch_len	CBCH_MSG_LEN
(8) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_8
(9) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(10) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_9
	cbch_len	CBCH_MSG_LEN
(11) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_9
(12) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(13) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_10
	cbch_len	CBCH_MSG_LEN
(14) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_10
(15) SIM_TOOLKIT_CNF		
	cause	SIM_CAUSE_SAT_BUSY
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_RES_CC_EMPTY
(16) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_10
	cbch_len	CBCH_MSG_LEN
(17) MMI_SAT_CBCH_DWNLD_IND		
	cbch_msg	CBCH_MSG_11
	cbch_len	CBCH_MSG_LEN
(18) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	NO_VALID_SRQ
	stk_cmd	ENV_CBCH_MSG_11

(19)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(20)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_QUERY
		cmd_seq	C_CNMI_QUERY
(21)	ACI_CMD_IND		
		cmd_len	LM_CNMI_QUERY
		cmd_seq	M_CNMI_QUERY
(22)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

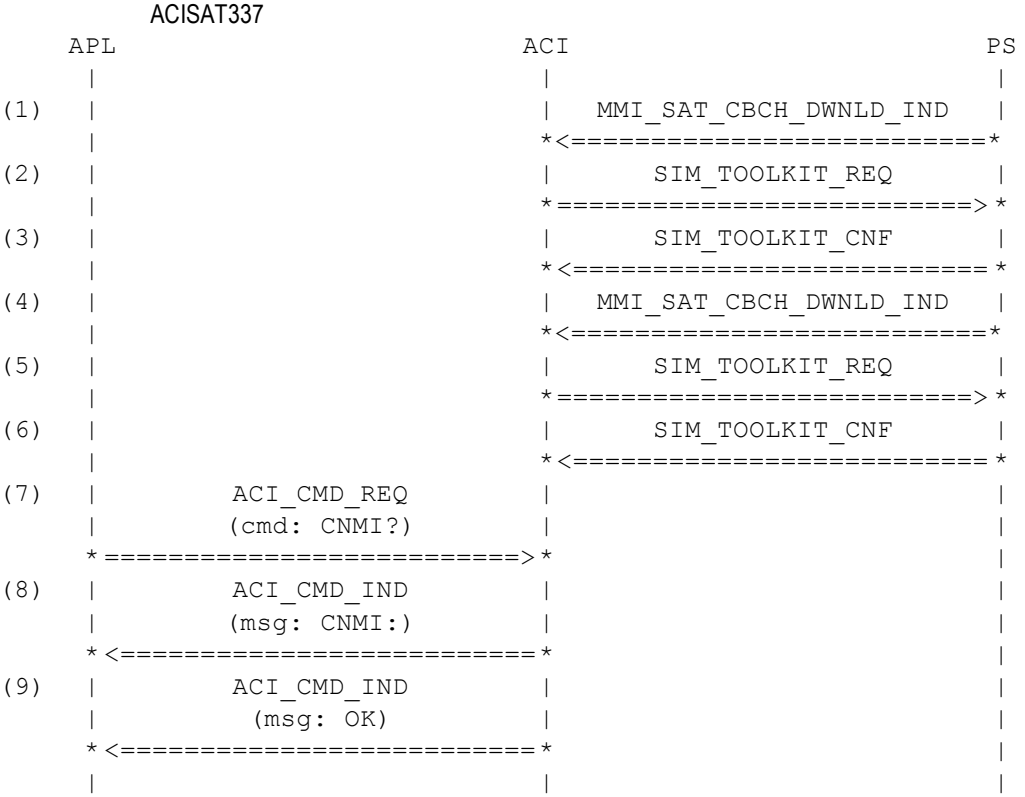
History: 25.06.2002 KGT Initial

3.10.8 ACISAT338: CB Message received: more CBM downloaded than can be saved in list and update some

Description:

Preamble:

ACISAT337



Parametrization:

	Primitive	Parameter	Value
(1)	MMI_SAT_CBCH_DWNLD_IND		
		cbch_msg	CBCH_MSG_11b
		cbch_len	CBCH_MSG_LEN
(2)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_CBCH_MSG_11b
(3)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(4)	MMI_SAT_CBCH_DWNLD_IND		
		cbch_msg	CBCH_MSG_11c
		cbch_len	CBCH_MSG_LEN
(5)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_CBCH_MSG_11c
(6)	SIM_TOOLKIT_CNF		
		cause	SIM_CAUSE_SAT_BUSY
		req_id	NO_VALID_SRQ
		stk_cmd	ENV_RES_CC_EMPTY
(7)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_QUERY
		cmd_seq	C_CNMI_QUERY
(8)	ACI_CMD_IND		
		cmd_len	LM_CNMI_QUERY
		cmd_seq	M_CNMI_QUERY
(9)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 25.06.2002 KGT Initial

3.11 SAT Proactive Command SEND SHORT MESSAGE

3.11.1 ACISAT341: SAT Request for SEND SM

Description:

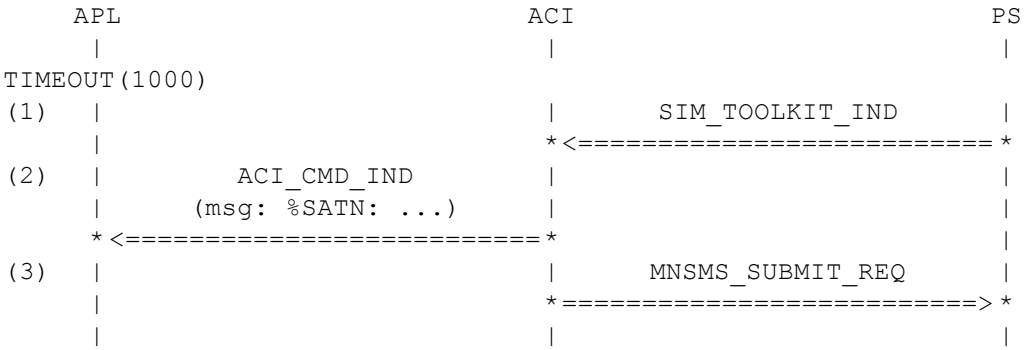
SAT indicates sending a Short Message.

Variants**:**

<A>....<E>

Preamble:

ACISAT015A



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SSM_1
<B>	stk_cmd	SAT_CMD_SSM_2
<C>	stk_cmd	SAT_CMD_SSM_2A
<D>	stk_cmd	SAT_CMD_SSM_3
<E>	stk_cmd	SAT_CMD_SSM_UCS2
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_SSM_1
<B>	cmd_len	LM_PERCENT_SATN_CMD_SSM_2
<C>	cmd_len	LM_PERCENT_SATN_CMD_SSM_2A
<D>	cmd_len	LM_PERCENT_SATN_CMD_SSM_3
<E>	cmd_len	LM_PERCENT_SATN_CMD_SSM_UCS2
<A>	cmd_seq	M_PERCENT_SATN_CMD_SSM_1
<B>	cmd_seq	M_PERCENT_SATN_CMD_SSM_2
<C>	cmd_seq	M_PERCENT_SATN_CMD_SSM_2A
<D>	cmd_seq	M_PERCENT_SATN_CMD_SSM_3
<E>	cmd_seq	M_PERCENT_SATN_CMD_SSM_UCS2

(3) MNSMS_SUBMIT_REQ

	mem_type	NOT_USED
	rec_num	SMS_RECORD_NOT_EXIST
	condx	NOT_USED
	modify	NOT_USED
<A>	sms_sdu	SMS_SDU_SSM_1
<B>	sms_sdu	SMS_SDU_SSM_2
<C>	sms_sdu	SMS_SDU_SSM_2
<D>	sms_sdu	SMS_SDU_SSM_3
<E>	sms_sdu	SMS_SDU_SSM_UCS2

History:	06.10.2000	FK	Initial
	11.12.2001	FK	Additional variants derived from GSM 11.10-4

3.11.2 ACISAT342: SAT Request for SEND SM (Long Message)

Description:

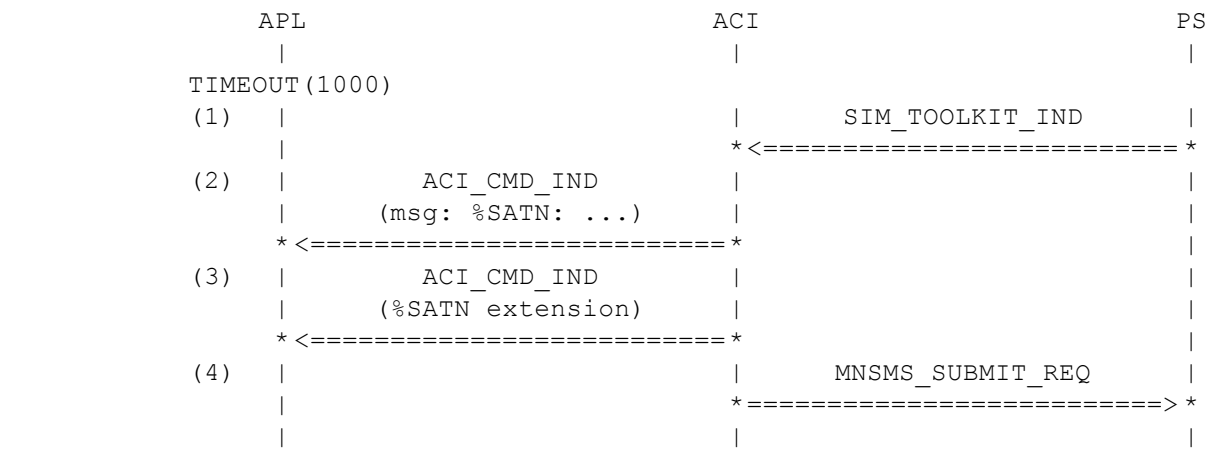
SAT indicates sending a Short Message. Due to the longness of the Proactive Command the SAT notification is given with 2 primitives ACI_CMD_IND.

Variants**:**

<A>....<D>

Preamble:

ACISAT015A



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SSM_4
<B>	stk_cmd	SAT_CMD_SSM_4A
<C>	stk_cmd	SAT_CMD_SSM_5
<D>	stk_cmd	SAT_CMD_SSM_6

(2) ACI_CMD_IND

<A>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_4_1)	
<B>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_4A_1)	
<C>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_5_1)	
<D>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_6_1)	
<A>	cmd_seq	M_PERCENT_SATN_CMD_SSM_4_1
<B>	cmd_seq	M_PERCENT_SATN_CMD_SSM_4A_1
<C>	cmd_seq	M_PERCENT_SATN_CMD_SSM_5_1
<D>	cmd_seq	M_PERCENT_SATN_CMD_SSM_6_1

(3) ACI_CMD_IND

<A>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_4_2)	
<B>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_4A_2)	
<C>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_5_2)	
<D>	cmd_len NUM_ELEMENTS(M_PERCENT_SATN_CMD_SSM_6_2)	
<A>	cmd_seq	M_PERCENT_SATN_CMD_SSM_4_2
<B>	cmd_seq	M_PERCENT_SATN_CMD_SSM_4A_2
<C>	cmd_seq	M_PERCENT_SATN_CMD_SSM_5_2
<D>	cmd_seq	M_PERCENT_SATN_CMD_SSM_6_2

(4) MNSMS_SUBMIT_REQ

	mem_type	NOT_USED
	rec_num	SMS_RECORD_NOT_EXIST
	condx	NOT_USED
	modify	NOT_USED
<A>	sms_sdu	SMS_SDU_SSM_45
<B>	sms_sdu	SMS_SDU_SSM_45
<C>	sms_sdu	SMS_SDU_SSM_45
<D>	sms_sdu	SMS_SDU_SSM_6

History: 13.12.2001 FK Initial

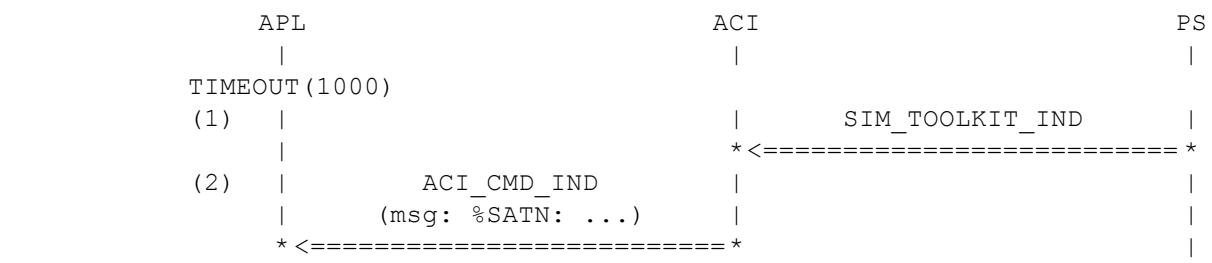
3.11.3 ACISAT343: SAT Request for SEND SM

Description:

SAT indicates sending a Short Message (Issue ACI-SPR-5709).

Preamble:

ACISAT015A



```
(3)   |                              |      MNSMS_SUBMIT_REQ      |
      |                              *============================>*
      |                              |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SSM_REM
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SSM_REM
		cmd_seq	M_PERCENT_SATN_CMD_SSM_REM
(3)	MNSMS_SUBMIT_REQ		
		mem_type	NOT_USED
		rec_num	SMS_RECORD_NOT_EXIST
		condx	NOT_USED
		modify	NOT_USED
		sms_sdu	SMS_SDU_SSM_REM

History: 13.05.2002 TLU Initial

3.12 SAT Proactive Command SETUP EVENT LIST

3.12.1 ACISAT350: SAT Request for SETUP EVENT LIST

Description:

SAT indicates sending a SETUP EVENT LIST.

Variants:

<A>...<B>

Preamble:

<A>ACISAT011
<B>ACISAT448A

```
     APL                          ACI                          PS
      |                            |                            |
TIMEOUT(1000)
(1)   |                            |      SIM_TOOLKIT_IND       |
      |                            *<============================*
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: %SATI: ...)     |                            |
      *<============================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (msg: %SATR)       |                            |
      *============================>*                            |
(4)   |                            |      SIM_TOOLKIT_RES       |
      |                            *============================>*
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<============================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SEV_1
<B>	stk_cmd	SAT_CMD_SEV_2
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATI_CMD_SEV_1
<B>	cmd_len	LM_PERCENT_SATI_CMD_SEV_2
<A>	cmd_seq	M_PERCENT_SATI_CMD_SEV_1
<B>	cmd_seq	M_PERCENT_SATI_CMD_SEV_2
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATR_2
	cmd_seq	C_PERCENT_SATR_2
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_USER_2
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 03.11.2000 CLB Initial

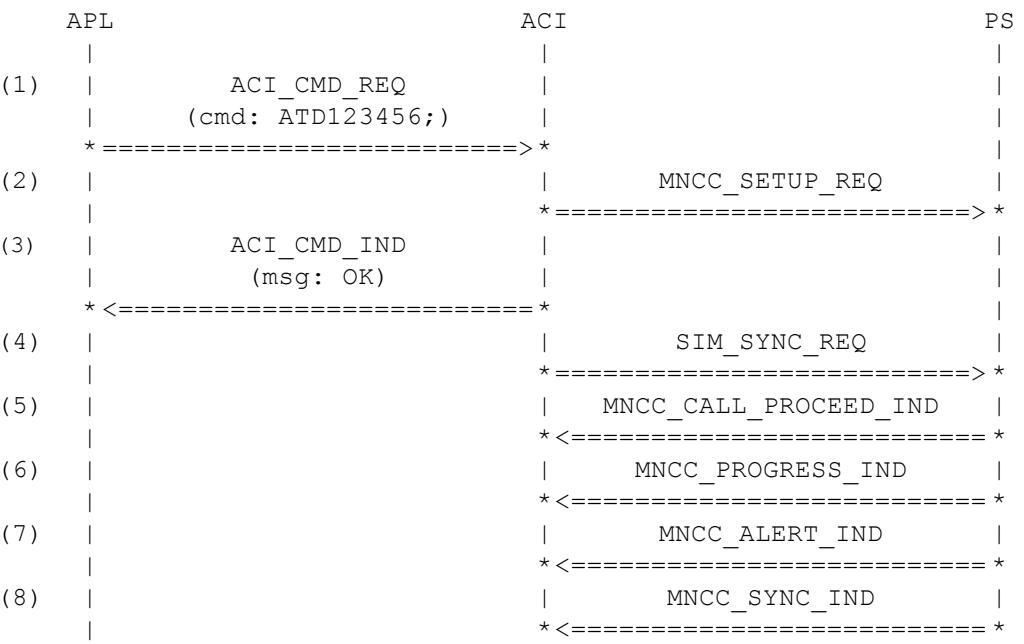
3.12.2 ACISAT351: MO single voice call with event monitored

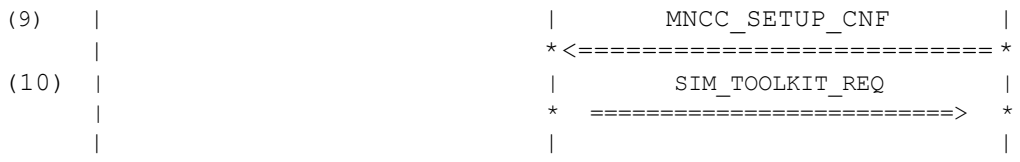
Description:

Event Download MO call establishment sent to SIM.

Preamble:

ACISAT350A





Parametrization:

Primitive	Parameter	Value
(2) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(3) 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_USED
	fac_inf	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(6) 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
(7) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(8) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(9) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(10)		MNCC_SETUP_CNF
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB

(11)		SIM_TOOLKIT_REQ
source		SRC_MMI
req_id		SRQ_NONE
stk_cmd		ENV_CMD_EVENT_CONN

History:	03.11.2000	CLB	initial
	27.08.2002	RM	MMI_SPEECH_MODE_REQ deleted

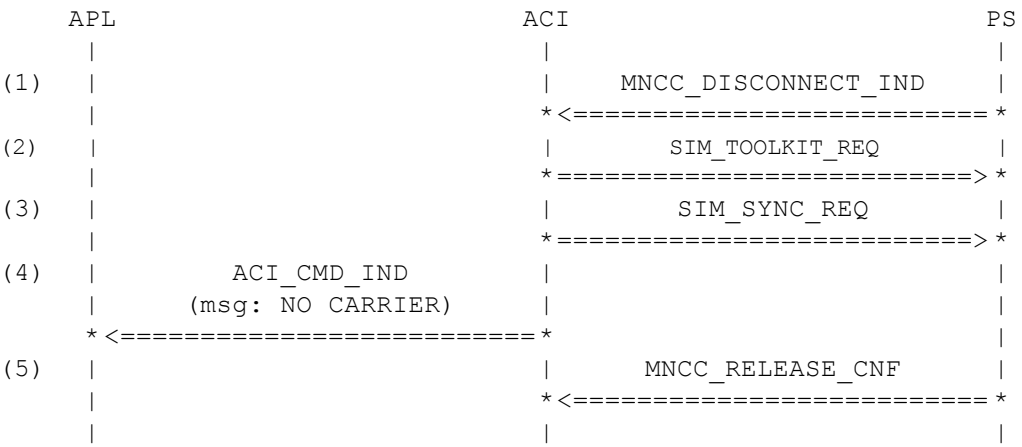
3.12.3 ACISAT352: Disconnect single voice call with event monitored

Description:

Event Download call disconnected sent to SIM.

Preamble:

ACISAT351



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
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_NONE
	stk_cmd	ENV_CMD_EVENT_DISC
(3) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(4) ACI_CMD_IND		
	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER
(5) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_NO_MS_CAUSE

History: 29.04.99 AK Initial

3.13 MO SMS Control from SIM

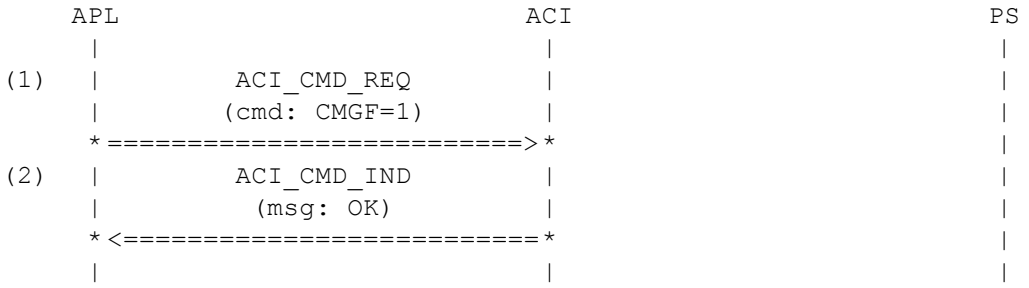
3.13.1 ACISAT360: Set Text Mode Format

Description:

The message format is queried with the preamble (PDU Mode). Then it is changed to Text mode and requested again. The preamble is only correct, if the target is compiled with SMS_PDU_SUPPORT.

Preamble:

ACISAT015D



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_SET_TXT
	cmd_seq	C_CMGF_SET_TXT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 03.11.2000 CLB Initial

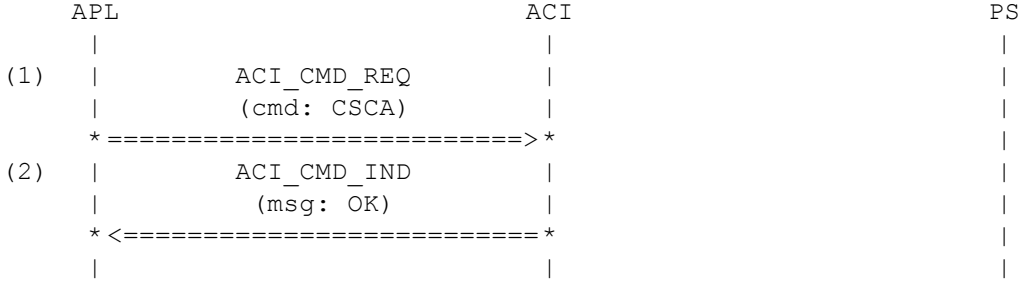
3.13.2 ACISAT361: Select Service Center Address

Description:

The service center address will be selected successfully.

Preamble:

ACISAT360



Parametrization:

	Primitive	Parameter	Value
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_BOTH_CORRECT
		cmd_seq	C_CSCA_BOTH_CORRECT
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 11.12.98 SAB Initial

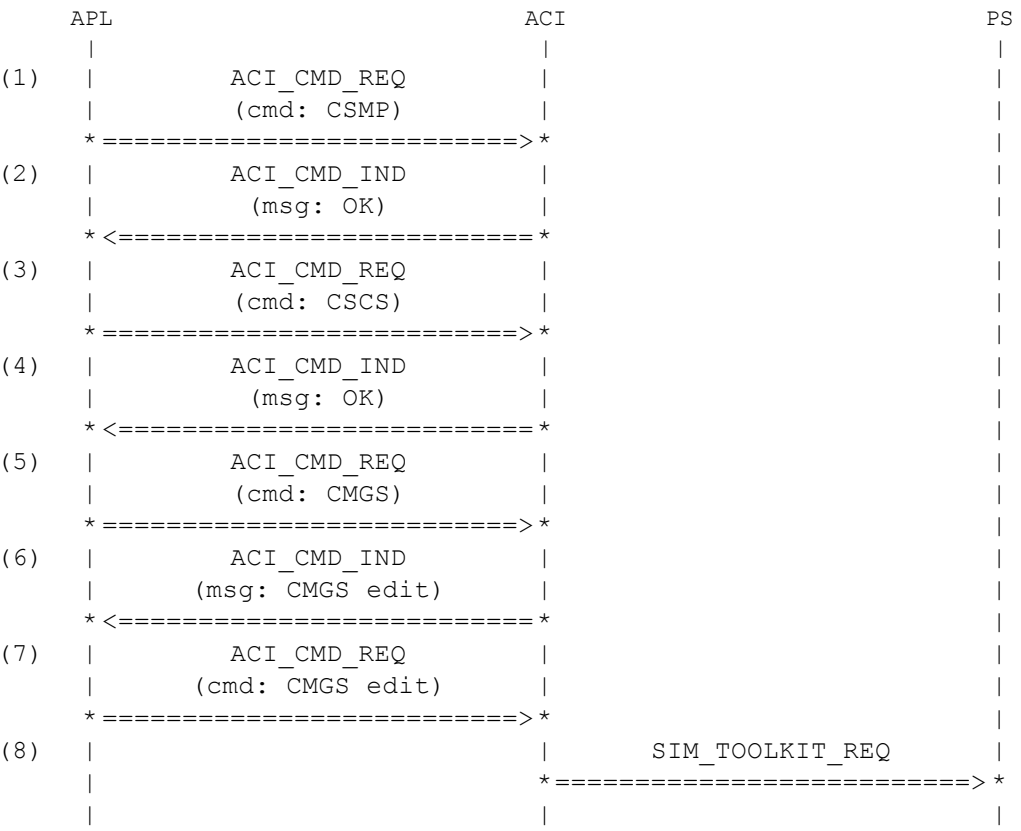
3.13.3 ACISAT362: Send Short Message with SIM Control (Part 1)

Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ACISAT361



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMP_ALL_CORRECT2
		cmd_seq	C_CSMP_ALL_CORRECT2

(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCS_PCCP437
		cmd_seq	C_CSCS_PCCP437
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_SENDING
		cmd_seq	C_CMGS_SENDING
(6)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(7)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_SPECIAL_SIGNS
		cmd_seq	C_CMGS_SPECIAL_SIGNS
(8)	SIM_TOOLKIT_REQ		
		source	SRC_MMI
		req_id	SRQ_ACI
		stk_cmd	ENV_CMD_SMS

History:	03.11.00	CLB	Initial

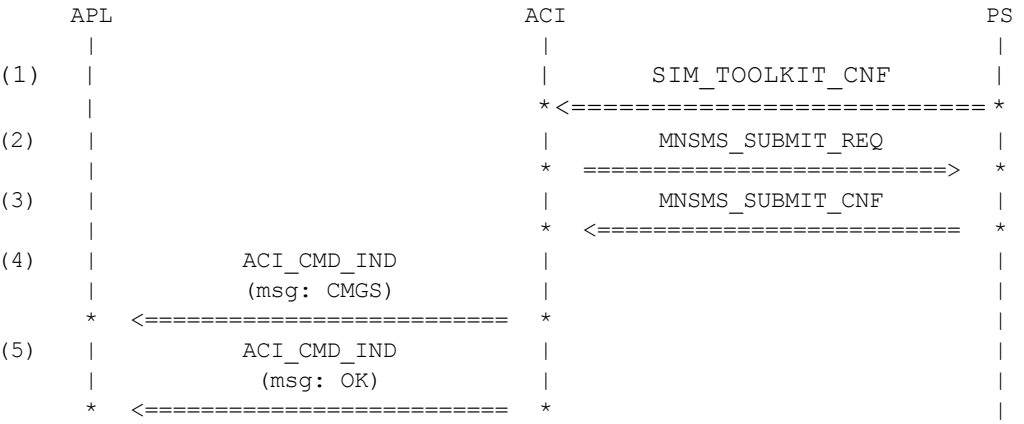
3.13.4 ACISAT363: Send Short Message with MO-SM Control by SIM: allowed

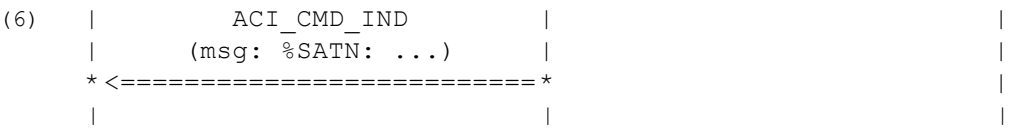
Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ACISAT362





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(2) MNSMS_SUBMIT_REQ		
	mem_type	NOT_USED
	rec_num	SMS_RECORD_NOT_EXIST
	condx	NOT_USED
	modify	NOT_USED
	sms_sdu	SMS_SDU_SM7_SPECIAL_SIGNS
(3) MNSMS_SUBMIT_CNF		
	mem_type	NOT_PRESENT_8BIT
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SMS_SDU_EMPTY
(4) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

History: 03.11.00 CLB Initial

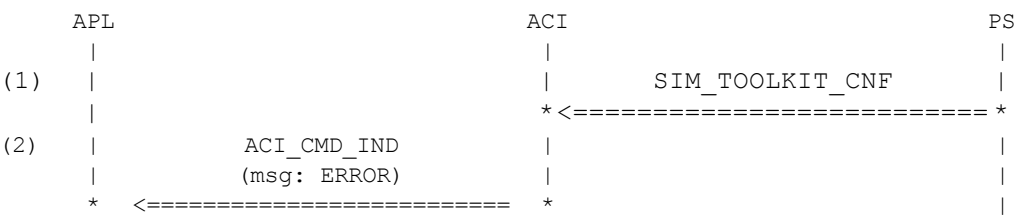
3.13.5 ACISAT364: Send Short Message with MO-SM Control by SIM: not allowed

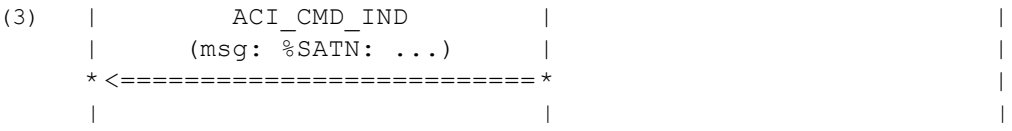
Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ACISAT362





Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_CNF		
		cause	SIM_NO_ERROR
		req_id	SRQ_ACI
		stk_cmd	ENV_RES_CC_NOT_ALLW
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR
(3)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW
		cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW

History: 03.11.00 CLB Initial

3.13.6 ACISAT365: Send Message From Memory

Description:

A short message from memory is sent successfully.

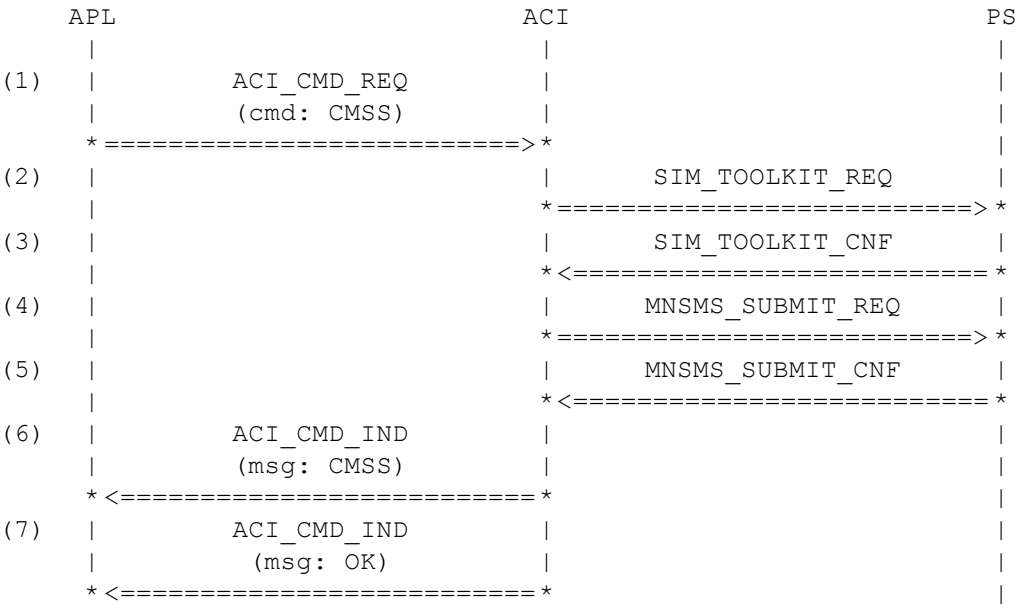
- Variant A : MT msg read and converted to MT msg, no modification from SAT
- Variant B : MT msg read and converted to MT msg, SCA and DA are modified by SAT

Variants**:**

<A>....<B>

Preamble:

ACISAT360



```
(8)   |         ACI_CMD_IND         |                              |
      |      (msg: %SATN: ...)       |                              |
      *<==========================*                              |
      |                              |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMSS_SIM_2_654321
	cmd_seq	C_CMSS_SIM_2_654321
(2) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SMS2
(3) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_NO_MDFY
<B>	stk_cmd	ENV_RES_CC_MDFY_SCA_DA
(4) MNSMS_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	condx	SMS_CONDX_OVR_ANY
	modify	SMS_MODIFY_TPOA_SCA
<A>	sms_sdu	SMS_SDU_MO_CHANGE2
<B>	sms_sdu	SMS_SDU_MO_CHANGE3
(5) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SMS_SDU_EMPTY
(6) ACI_CMD_IND		
	cmd_len	LM_CMSS_MSG_REF_2
	cmd_seq	M_CMSS_MSG_REF_2
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_SCA_DA
<A>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_SCA_DA

History:			
	16.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change

3.13.7 ACISAT366: Send Message From Memory (with READ_REQ/CNF)

Description:

A short message from memory is sent successfully (MO). without modification from SAT. No destination address is given with the AT command "AT+CMSS", so MNSMS_READ_REQ must be sent.

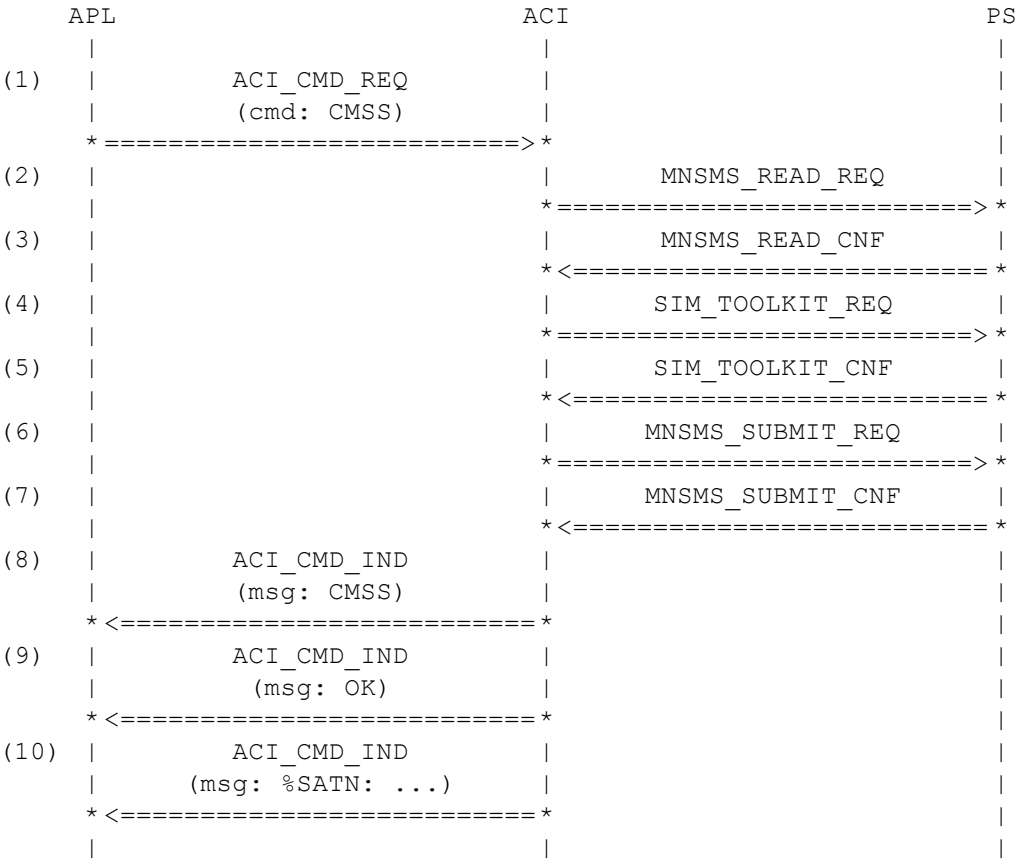
- Variant A : MO msg read, no modification from SAT
- Variant B : MT msg read and converted to MT msg, no modification from SAT

Variants:

<A>....<B>

Preamble:

ACISAT360



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMSS_SIM_2
	cmd_seq	C_CMSS_SIM_2
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	read_mode	READ_PREVIEW
	status	NOT_PRESENT_8BIT

(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	NUM_3
	cause	SIM_NO_ERROR
	rec_status	SMS_RECORD_NOT_EXIST
<A>	status	SMS_RECORD_STO_UNSENT
<B>	status	SMS_RECORD_REC_UNREAD
<A>	sms_sdu	SMS_SDU_MO_CONTENT
<B>	sms_sdu	SMS_SDU_MT_CONTENT
(4) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_CMD_SMS2
<B>	stk_cmd	ENV_CMD_SMS3
(5) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(6) MNSMS_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	condx	SMS_CONDX_OVR_ANY
<A>	modify	SMS_MODIFY_SCA
<B>	modify	SMS_MODIFY_ALL
<A>	sms_sdu	SMS_SDU_MO_CHANGE2
<B>	sms_sdu	SMS_SDU_MO_CHANGE4
(7) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SMS_SDU_EMPTY
(8) ACI_CMD_IND		
	cmd_len	LM_CMSS_MSG_REF_2
	cmd_seq	M_CMSS_MSG_REF_2
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(10) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

History:			
	03.11.00	CLB	Initial

3.13.8 ACISAT367: SAT Request for SEND SM with MO-SM Control by SIM

Description:

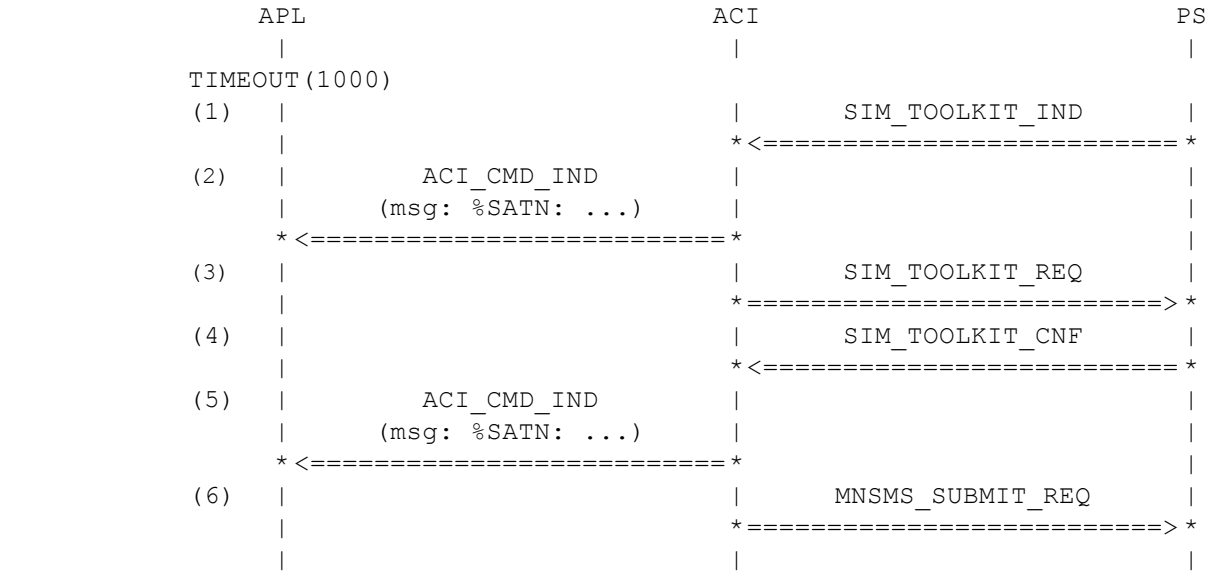
SAT indicates sending a Short Message.

Variants**:**

<A>....<B>

Preamble:

ACISAT015D



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
<A>	stk_cmd	SAT_CMD_SSM_1
<B>	stk_cmd	SAT_CMD_SSM_2
(2) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_CMD_SSM_1
<B>	cmd_len	LM_PERCENT_SATN_CMD_SSM_2
<A>	cmd_seq	M_PERCENT_SATN_CMD_SSM_1
<B>	cmd_seq	M_PERCENT_SATN_CMD_SSM_2
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_SMSSAT
(4) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
	stk_cmd	ENV_RES_CC_NO_MDFY
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY

(6) MNSMS_SUBMIT_REQ			
		mem_type	NOT_USED
		rec_num	SMS_RECORD_NOT_EXIST
		condx	NOT_USED
		modify	NOT_USED
<A>		sms_sdu	SMS_SDU_SSM_1
<B>		sms_sdu	SMS_SDU_SSM_2

History: 03.11.00 CLB Initial
11.02.2002 FK New SAP MNSMS

3.14 SAT Send USSD (ACISAT370-ACISAT)

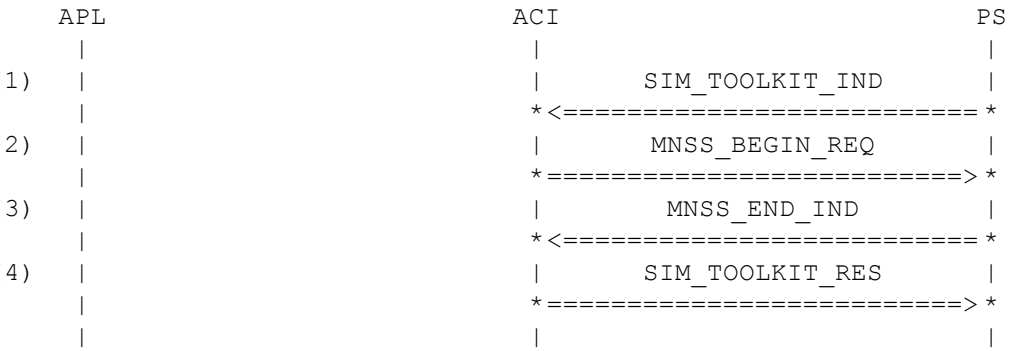
3.14.1 ACISAT370: Send USSD, no CC check by SIM, successful.

Description:

SAT invokes a USSD send command. Call control by SIM is not allocated and activated. The SS transaction is started and completed successfully. SAT is informed about the successful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USSD
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_USSD
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_USSD_PROC_RES
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_SS_SUCC2

History: 13.12.00 CLB Initial

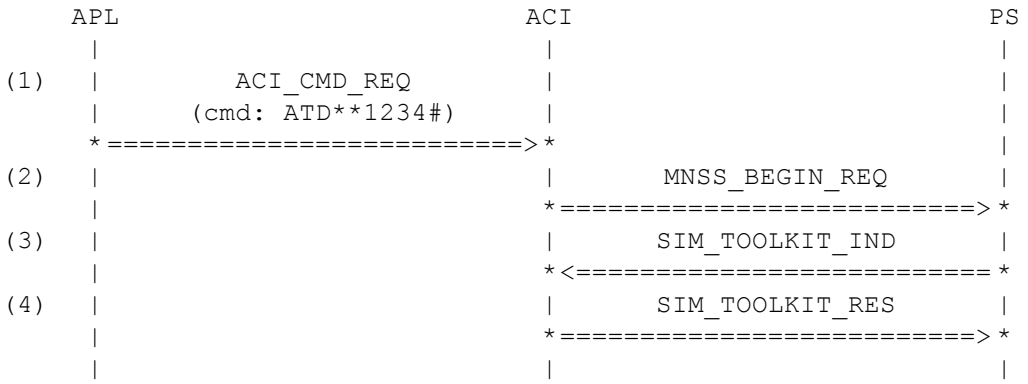
3.14.2 ACISAT371: Send USSD, no CC check by SIM, ME is busy on SS.

Description:

SAT invokes a USSD send command. Call control by SIM is not allocated and activated. The USSD transaction is rejected by ME because of busy SS. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_SS
	cmd_seq	C_D_SS
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_KSD_ALLCB_PWD
	ss_ver	NOT_USED
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USSD
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_USSD_BUSY_ON_SS

History: 13.12.00 CLB Initial

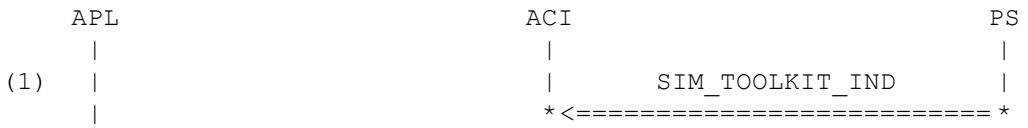
3.14.3 ACISAT372: Send USSD, no CC check by SIM, error result.

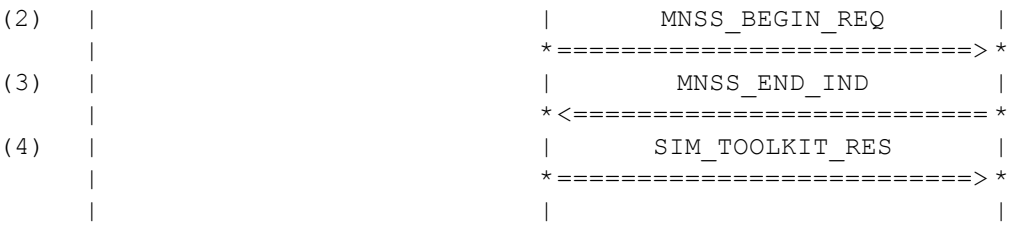
Description:

SAT invokes a USSD send command. Call control by SIM is not allocated and activated. The USSD transaction is started and completed with an error. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USSD
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	FAC_USSD
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cause	SS_NO_ERROR
	fac_inf	FAC_USSD_PROC_RES_ERR
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_USSD_ERR

History: 13.12.00 CLB Initial

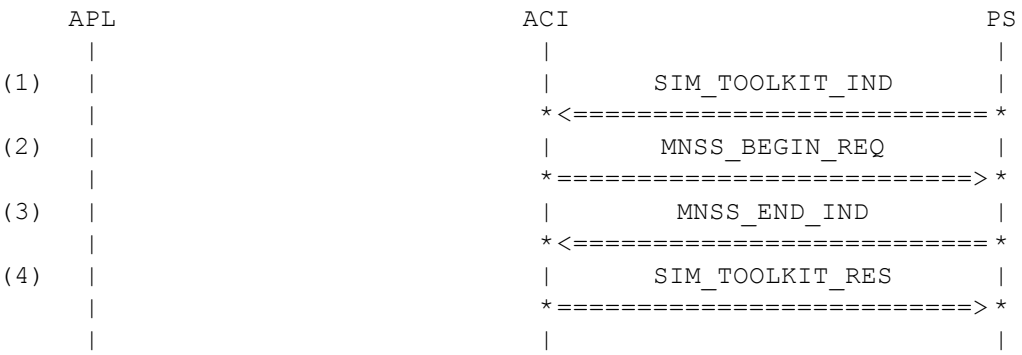
3.14.4 ACISAT373: Send USSD, no CC check by SIM, reject result.

Description:

SAT invokes a USSD send command. Call control by SIM is not allocated and activated. The USSD transaction is started and completed with a reject. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USSD

(2) MNSS_BEGIN_REQ

ti	NUM_0
fac_inf	FAC_USSD
ss_ver	NOT_USED

(3) MNSS_END_IND

ti	NUM_0
cause	SS_NO_ERROR
fac_inf	FAC_USSD_PROC_RES_REJ

(4) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_USSD_REJ

History: 13.12.00 CLB Initial

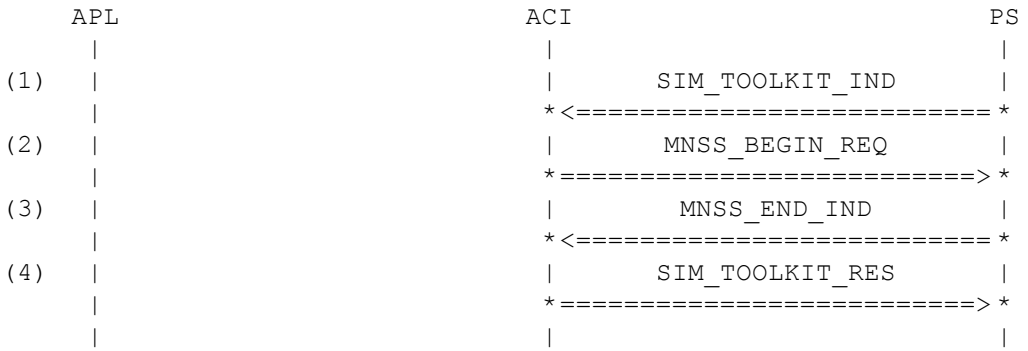
3.14.5 ACISAT374: Send USSD, no CC check by SIM, received fac_inf is empty.

Description:

SAT invokes a USSD send command. Call control by SIM is not allocated and activated. The USSD transaction is started and the received facility information element is empty. SAT is informed about the unsuccessful termination of the operation.

Preamble:

ACISAT001



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_USSD
(2) MNSS_BEGIN_REQ		
ti	NUM_0	
fac_inf	FAC_USSD	
ss_ver	NOT_USED	
(3) MNSS_END_IND		
ti	NUM_0	
cause	SS_NO_ERROR	
fac_inf	FAC_USSD_EMPTY	
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_USSD_REJ

History: 08.05.02 TLU Initial

3.15 SAT Send DTMF (ACISAT380-ACISAT)

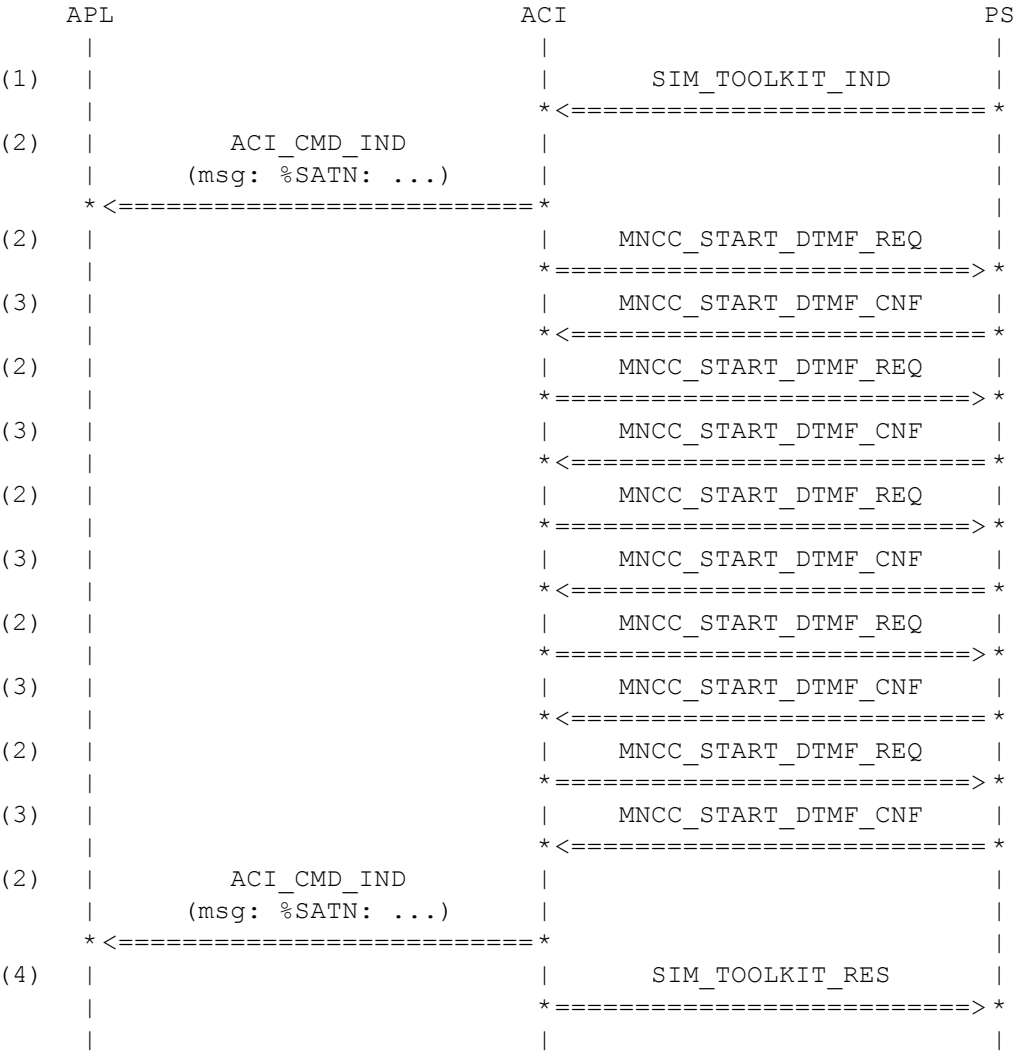
3.15.1 ACISAT380: Send DTMF.

Description:

SAT invokes a DTMF send command (after a call has already been succesfully set up). SAT is informed about the successful termination of the operation.

Preamble:

ACISAT152



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_DTMF
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_DTMF
	cmd_seq	M_PERCENT_SATN_DTMF

(3) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_1
	dtmf_mod	DTMF_MOD_AUTO
(4) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_1
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(5) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_2
	dtmf_mod	DTMF_MOD_AUTO
(6) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_2
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(7) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_3
	dtmf_mod	DTMF_MOD_AUTO
(8) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_3
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(9) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_4
	dtmf_mod	DTMF_MOD_AUTO
(10) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_4
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(11) MNCC_START_DTMF_REQ		
	ti	NUM_0
	key	KEY_5
	dtmf_mod	DTMF_MOD_AUTO
(12) MNCC_START_DTMF_CNF		
	ti	NUM_0
	key	KEY_5
	cause	MNCC_CAUSE_NO_MS_CAUSE
	dtmf_mod	DTMF_MOD_AUTO
(12)	ACI_CMD_IND	
cmd_len	LM_PERCENT_SATN_DTMF_END	
cmd_seq	M_PERCENT_SATN_DTMF_END	
(13)	SIM_TOOLKIT_RES	
stk_cmd	SAT_RES_SS_DTMF	

History: 13.12.2000 CLB Initial

3.16 SAT Run AT command (ACISAT390)

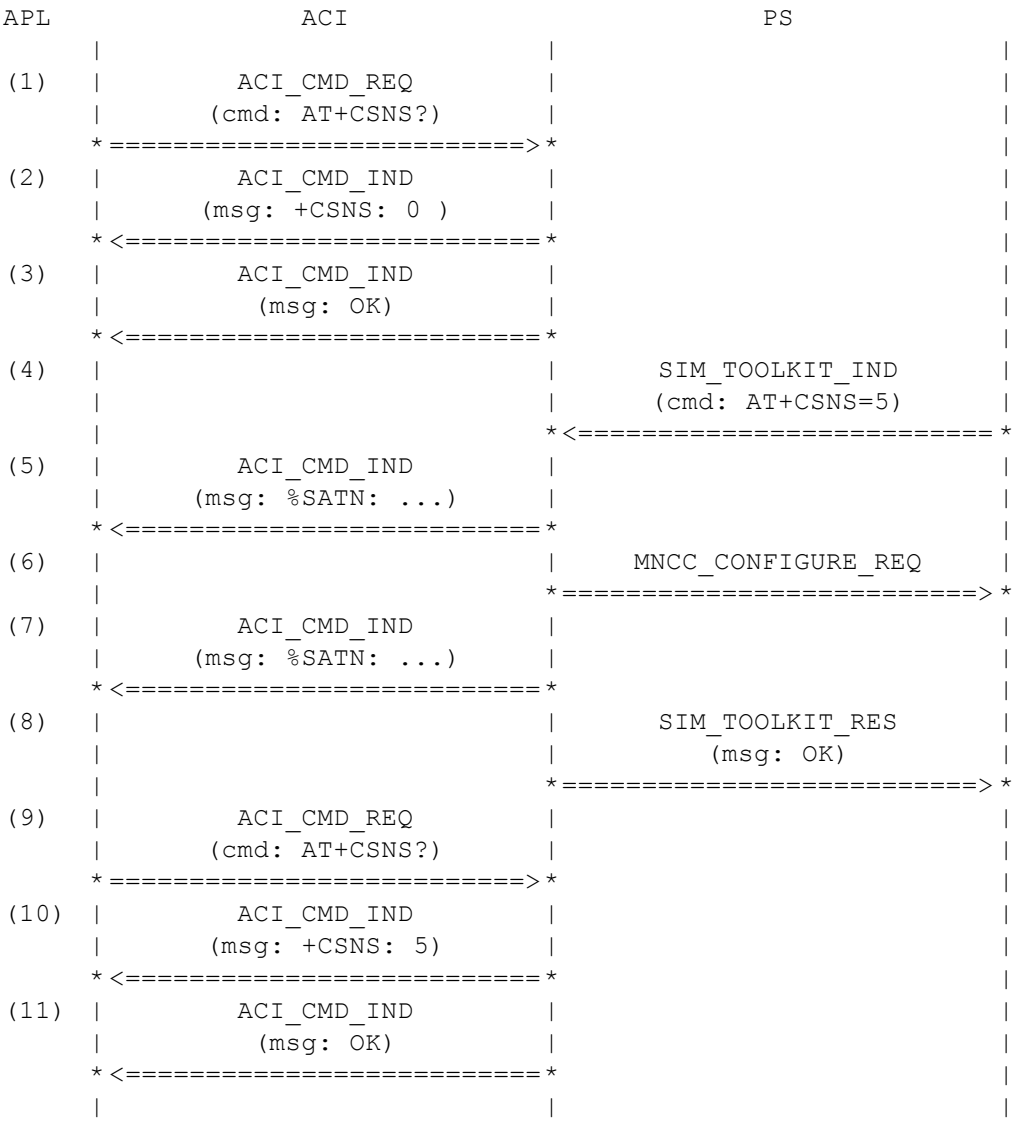
3.16.1 ACISAT390: Run at., AT+CSNS

Description:

SAT invokes a run at command. SAT is informed about the successful termination of the operation.

Preamble:

ACISAT011



Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CSNS_QUERY
		cmd_seq	C_PLUS_CSNS_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_PLUS_CSNS_0
		cmd_seq	M_PLUS_CSNS_0
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(4)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_RUN_AT_CSNS
(5)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RUN_CSNS
		cmd_seq	M_PERCENT_SATN_RUN_CSNS
(6)	MNCC_CONFIGURE_REQ		
		called_party_sub	NOT_USED
		bcpara	S_BS_DEF
		sns_mode	SNS_MODE_VAF_FAX
		ctm_ena	NOT_USED
(7)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_RUN_CSNS
		cmd_seq	M_PERCENT_SATN_RES_RUN_CSNS
(8)	SIM_TOOLKIT_RES		
		stk_cmd	SAT_RES_RUN_CSNS
(9)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CSNS_QUERY
		cmd_seq	C_PLUS_CSNS_QUERY
(10)	ACI_CMD_IND		
		cmd_len	LM_PLUS_CSNS_5
		cmd_seq	M_PLUS_CSNS_5
(11)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 06.11.2001 CLB Initial

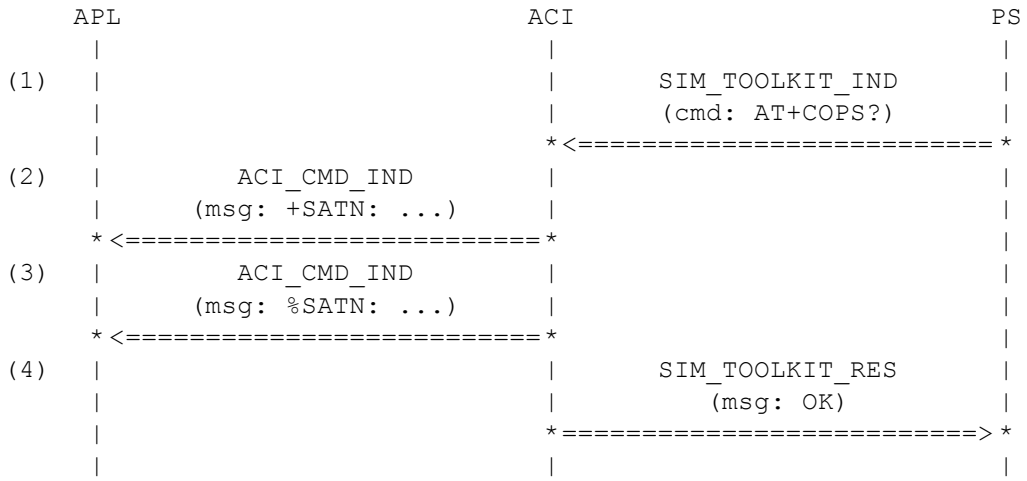
3.16.2 ACISAT391: Run at, AT+COPS?, buffered responses.

Description:

SAT invokes a run at command. SAT is informed about the successful termination of the operation.

Preamble:

ACISAT011



Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_RUN_AT_COPS
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RUN_COPS
		cmd_seq	M_PERCENT_SATN_RUN_COPS
(3)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_RUN_COPS_OK
		cmd_seq	M_PERCENT_SATN_RES_RUN_COPS_OK
(4)	SIM_TOOLKIT_RES		
		stk_cmd	SAT_RES_RUN_COPS_OK

History: 15.03.2002 KGT Initial

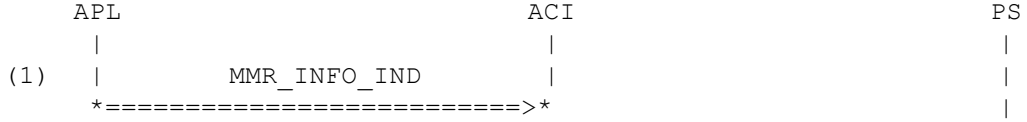
3.17 SAT Provide Local Information (ACISAT400)

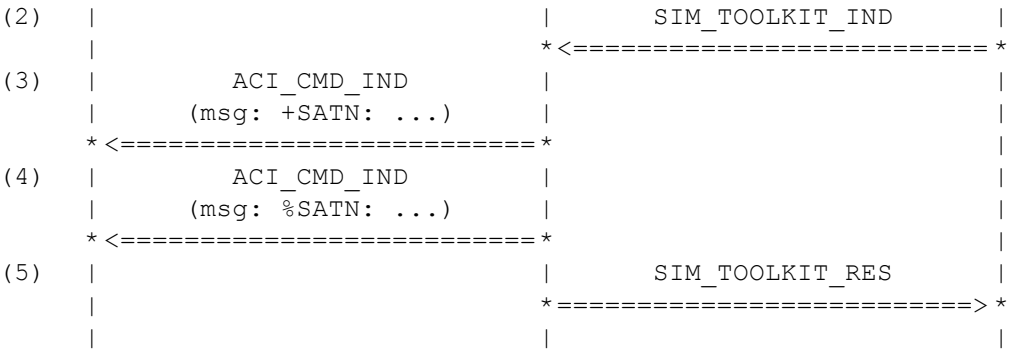
3.17.1 ACISAT400: Provide Local Information, date-time and time zone

Description: SAT invokes a provide local information command. SAT is informed about the successful termination of the operation. The network time zone is obtained from MMR_INFO_IND.

Preamble:

ACISAT011





Parametrization:

Primitive	Parameter	Value
(1) MMR_INFO_IND		
	plmn	NOT_USED
	full_name	NOT_USED
	short_name	NOT_USED
	ntz	NTZ_PLS_1HR
	time	NOT_USED
(2) SIM_TOOLKIT_IND		
	stk_cmd	SAT_PLOI_DTT
(3) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_PLOI
	cmd_seq	M_PERCENT_SATN_PLOI
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_PLOI_OK
	cmd_seq	M_PERCENT_SATN_RES_PLOI_OK
(5) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_PLOI_OK

History: 23.05.2002 TLU Initial

3.18 SAT Launch Browser (ACISAT401)

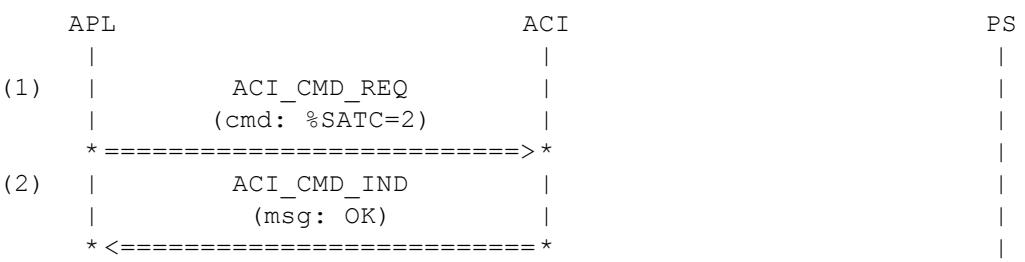
3.18.1 ACISAT401: LAUNCH BROWSER command received from SAT

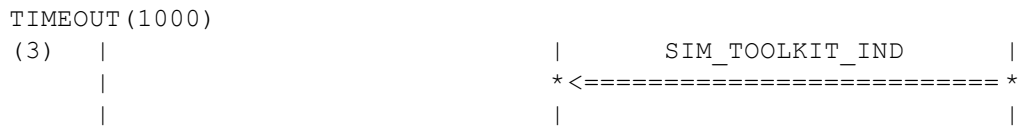
Description:

SAT sends an launch browser command to start the establishment of wap connection

Preamble:

ACISAT011





Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PERCENT_SATC_ENA_CL_E
		cmd_seq	C_PERCENT_SATC_ENA_CL_E
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_LAUNCH_BROW_A

History: 30.10.2002 RM Initial

3.19 SAT Receive Data command (ACISAT405-)

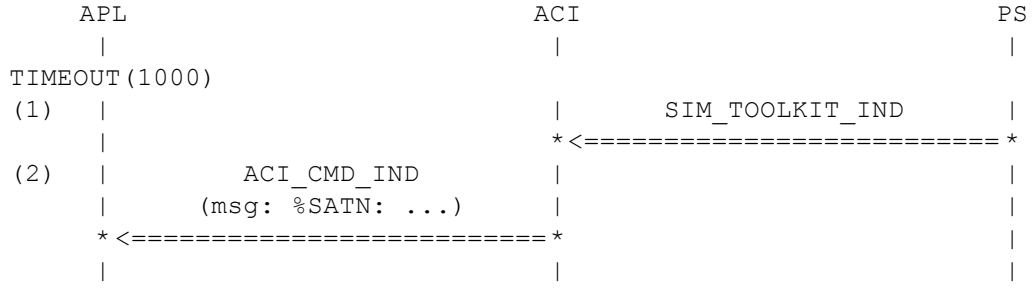
3.19.1 ACISAT405: RECEIVE DATA, notification to APL

Description:

SAT indicates sending a RECEIVE DATA.

Preamble:

ACISAT448A



Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_RCVD
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_RCVD
		cmd_seq	M_PERCENT_SATN_CMD_RCVD

History: 25.03.2002 RM Initial

3.20 SAT Send Data command (ACISAT410-)

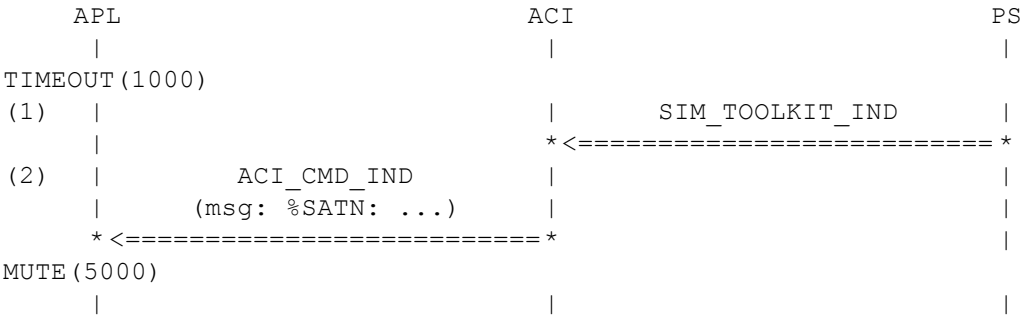
3.20.1 ACISAT410: SEND DATA, on-demand, notification to APL

Description:

SAT sends a SEND DATA command with on-demand channel establishment. No reaction by, only user notification

Preamble:

ACISAT011



Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_OD
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD

History: 25.03.2002 RM Initial

3.20.2 ACISAT411: SEND DATA, immediate, notification to APL

Description:

SAT sends a SEND DATA command with on-demand channel establishment. No reaction by ACI, only user notification. The second SEND DATA command has the immediate flag set. After user notification a channel should be established. (This is only the preamble for on-demand channel setup)

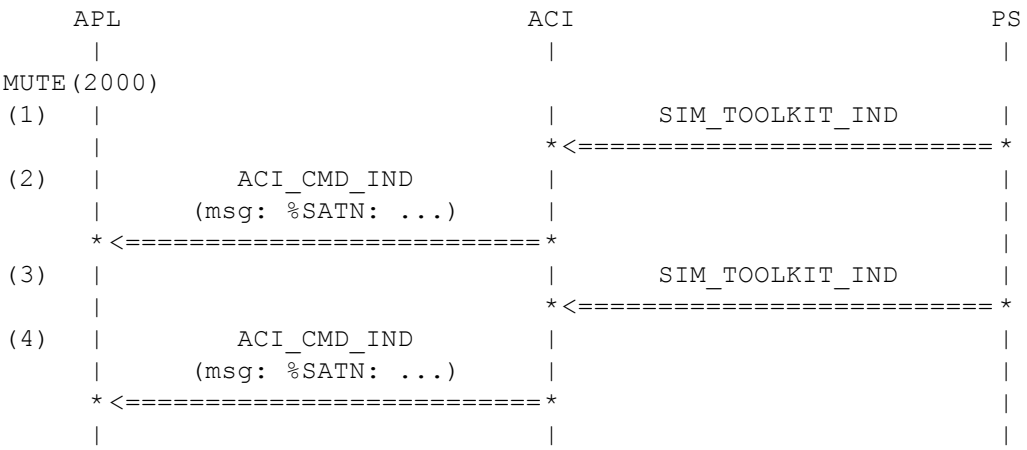
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, transparent, on demand
<C> CSD channel, full parameter set, non-transparent, on demand
<D> CSD channel, default parameters, on demand
<E> GPRS channel, full parameter set, UDP, on demand
<F> GPRS channel, full parameter set, SNDCP, on demand
<G> GPRS channel, default parameters, on demand
<H> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>...<H>

Preamble:

<A>ACISAT435A
<B>ACISAT435C
<C>ACISAT435D
<D>ACISAT435E
<E>ACISAT435F
<F>ACISAT435G
<G>ACISAT435H
<H>ACISAT435B



Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_OD
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD
(3)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_IM
(4)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_IM
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_IM

History: 25.03.2002 RM Initial

3.20.3 ACISAT412: SEND DATA establishment, CSD, rejected by network

Description:

Call establishment failed, due to busy subscriber

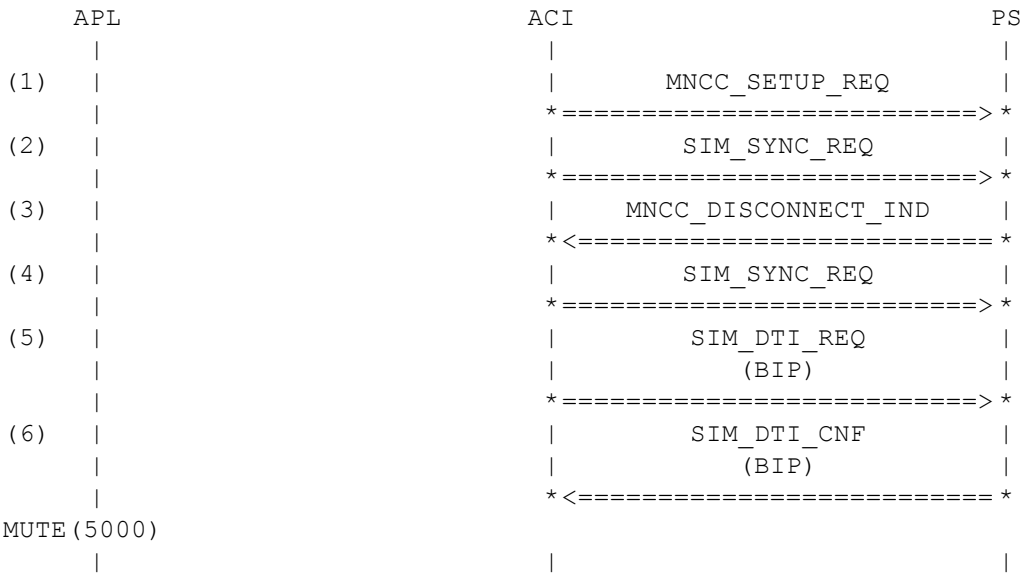
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, transparent, on demand
<C> CSD channel, full parameter set, non-transparent, on demand
<D> CSD channel, default parameters, on demand
<E> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>....<E>

Preamble:

<A>ACISAT411A
<B>ACISAT411B
<C>ACISAT411C
<D>ACISAT411D
<E>ACISAT411H



Parametrization:

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
<A>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
<B>	bcpara	S_BS_DAT_9600_ASY_TRA
<C>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
<D>	bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<E>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
	bcpara2	S_BS_NOT_PRESENT
<A>	called_party	S_CLD_PARTY
<B>	called_party	S_CLD_PARTY
<C>	called_party	S_CLD_PARTY
<D>	called_party	S_CLD_PARTY
<E>	called_party	S_CLD_PARTY_MDFY
<A>	called_party_sub	S_CLD_PARTY_SUB
<B>	called_party_sub	S_CLD_PARTY_SUB
<C>	called_party_sub	S_CLD_PARTY_SUB
<D>	called_party_sub	S_CLD_PARTY_SUB
<E>	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(3) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	NOT_USED
	progress_desc	PROG_NOT_PRES
(4) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(5) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_NTW_UNAB_PROC
	add_info_result	SAT_NTW_CS_BUSY
	release_time	SIM_DTI_REQ_NOT_VALID
(6) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1

History:	15.05.2002	AK	Initial
	21.05.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs and new DTI manager

3.20.4 ACISAT413: SEND DATA establishment, CSD, PPP_TERMINATE_IND received before PPP_ESTABLISH_CNF

Description:

PPP_TERMINATE_IND received before (or instead of) PPP_ESTABLISH_CNF during setup CSD channel

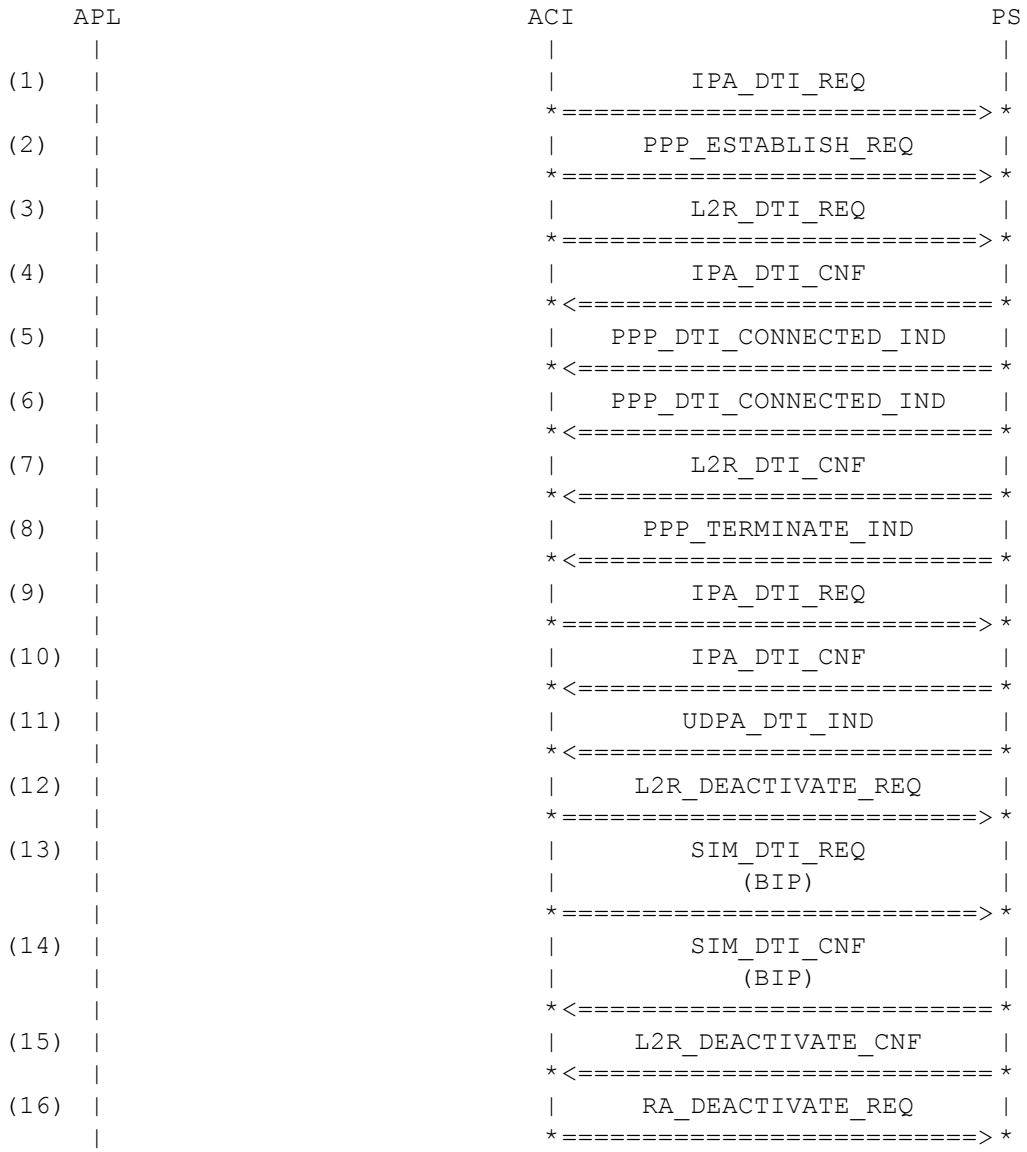
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

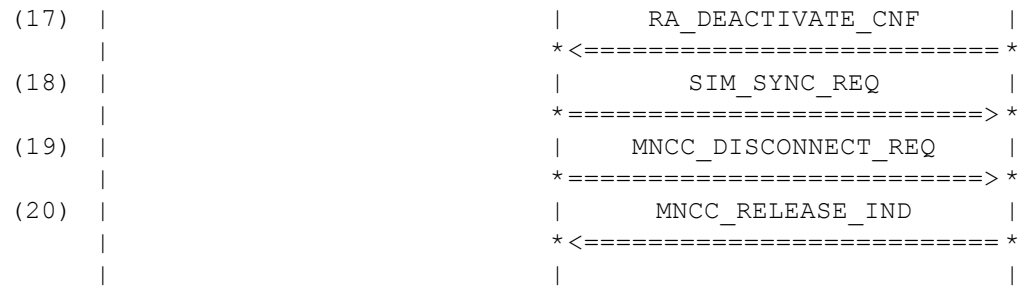
Variants:

<A>....<B>

Preamble:

<A>ACISAT443E
<B>ACISAT443H





Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	IP_PPP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_HIGHER_LAYER
	prot_direction	TO_LOWER_LAYER
	peer_link_id	IP_PPP_LINK_ID
	prot_link_id	PPP_L2R_LINK_ID
(3) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	PPP_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(4) IPA_DTI_CNF		
	dti_conn	IPA_CONNECT_DTI
	link_id	UDP_IP_LINK_ID
(5) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(6) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT

(7) L2R_DTI_CNF		
	dti_conn	L2R_CONNECT_DTI
	link_id	PPP_L2R_LINK_ID
(8) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_NO_CHANNEL
(9) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(11) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(12) L2R_DEACTIVATE_REQ		
(13) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_ME_UNAB_PROC
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_DTI_REQ_NOT_VALID
(14) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) RA_DEACTIVATE_CNF		
(18) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(19) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(20) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History:	21.05.2002	Ak	Initial
	31.05.2002	RM	Update
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.20.5 ACISAT414: SEND DATA establishment, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF

Description:

L2R_DISC_IND received before L2R_CONNECT_CNF during setup CSD channel

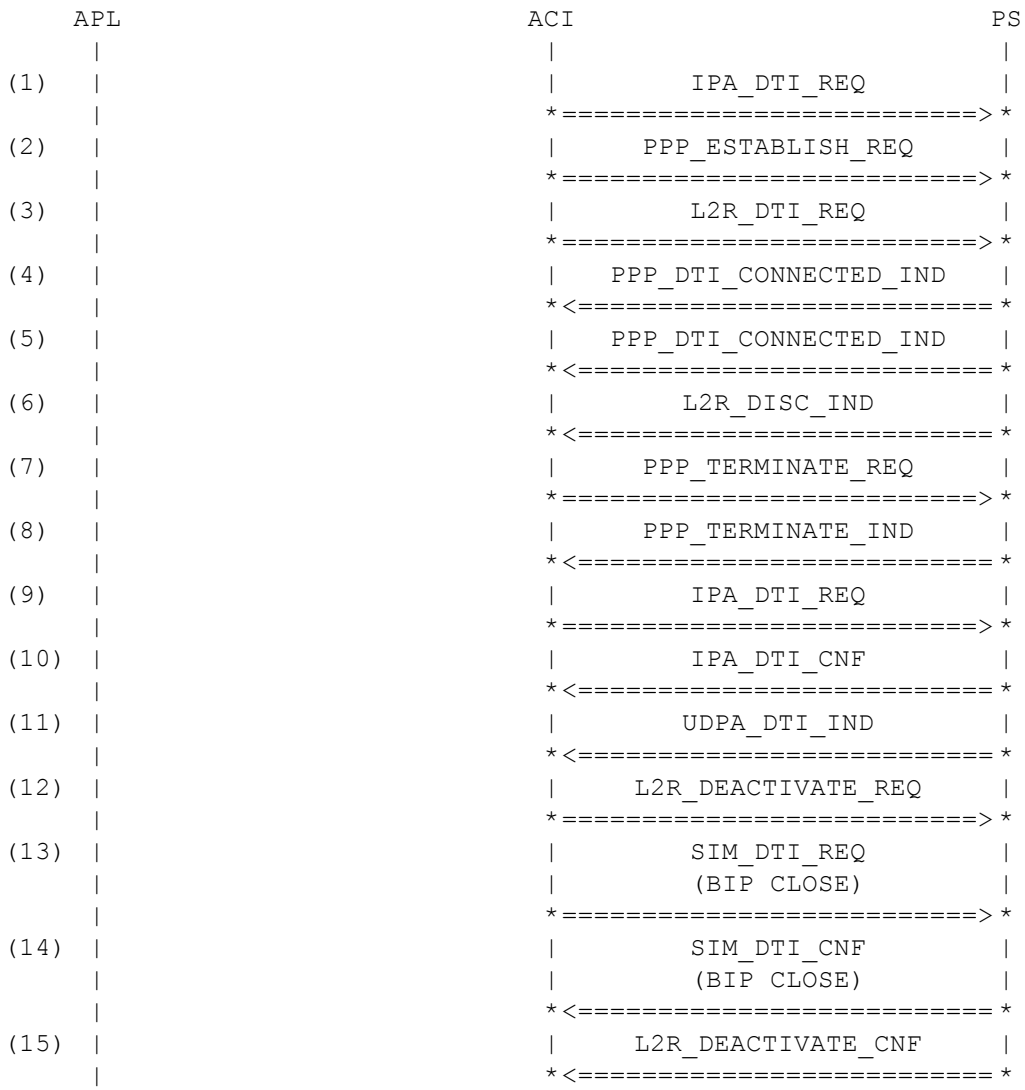
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

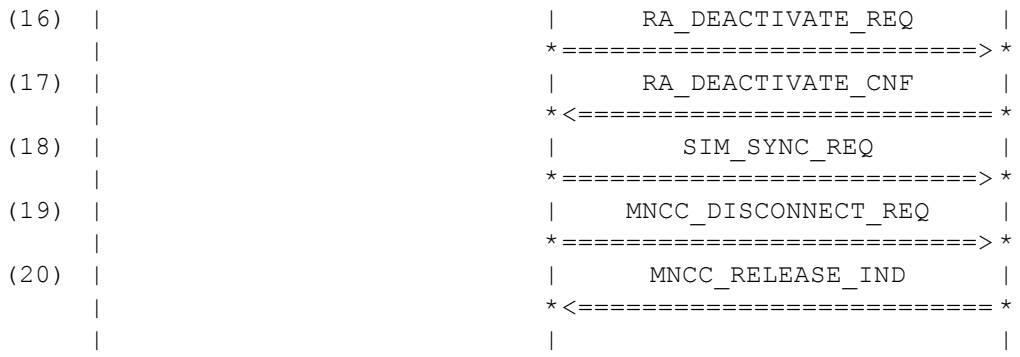
Variants:

<A>....<B>

Preamble:

<A>ACISAT443E
<B>ACISAT443H





Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	IP_PPP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_HIGHER_LAYER
	prot_direction	TO_LOWER_LAYER
	peer_link_id	IP_PPP_LINK_ID
	prot_link_id	PPP_L2R_LINK_ID
(3) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	PPP_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(4) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(5) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(6) L2R_DISC_IND		
(7) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_DOWN

(8) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_MMI
(9) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(11) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(12) L2R_DEACTIVATE_REQ		
(13) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_ME_UNAB_PROC
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_DTI_REQ_NOT_VALID
(14) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) RA_DEACTIVATE_CNF		
(18) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(19) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(20) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	13.06.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.20.6 ACISAT415: SEND DATA establishment, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF FAIL

Description:

L2R_DISC_IND received before L2R_CONNECT_CNF during setup CSD channel

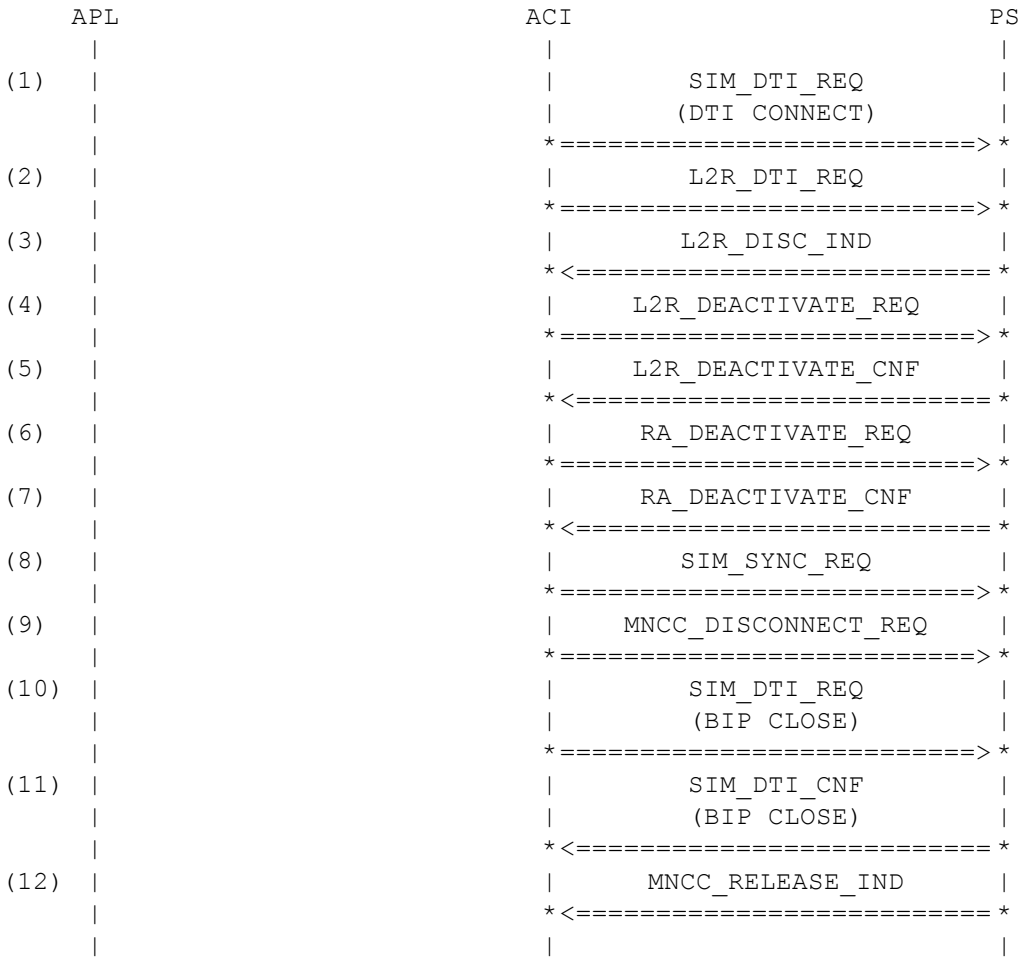
<A> CSD channel, full parameter set, non-transparent, on demand
<B> CSD channel, default parameters, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT443F
<B>ACISAT443G



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	TIME_10SEC
(2) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	SIM_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(3) L2R_DISC_IND		
(4) L2R_DEACTIVATE_REQ		
(5) L2R_DEACTIVATE_CNF		
(6) RA_DEACTIVATE_REQ		
(7) RA_DEACTIVATE_CNF		
(8) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(9) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(10) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_NTW_UNAB_PROC
	add_info_result	SAT_NTW_CS_BUSY
	release_time	SIM_DTI_REQ_NOT_VALID
(11) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1

(12) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	05.06.2002	RM	Update
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new SAPs

3.20.7 ACISAT416: SEND DATA establishment, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF

Description:

L2R_ERROR_IND received before L2R_CONNECT_CNF during setup CSD channel

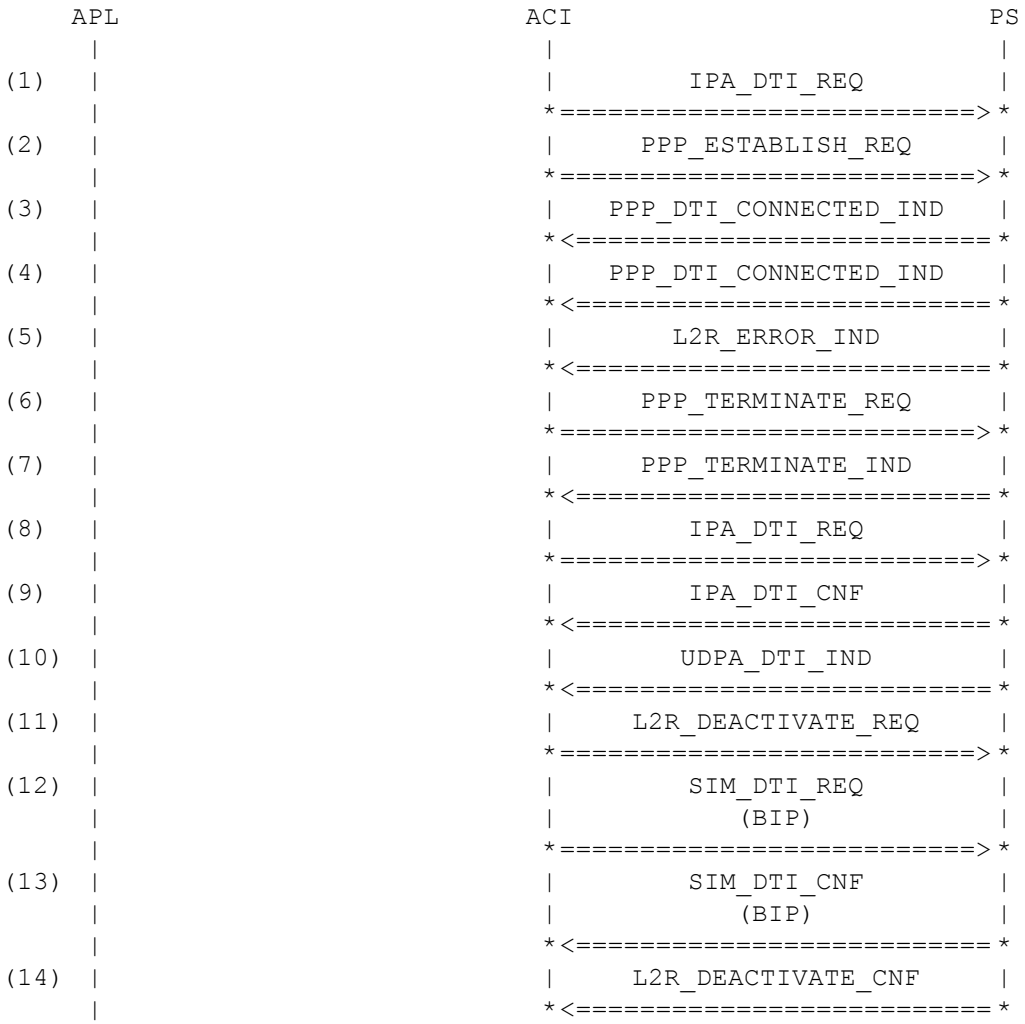
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

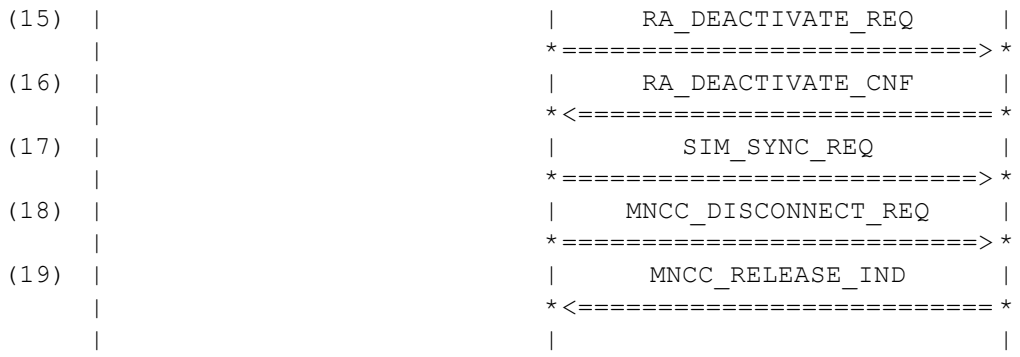
Variants:

<A>....<B>

Preamble:

<A>ACISAT443E
<B>ACISAT443H





Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	IP_PPP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_HIGHER_LAYER
	prot_direction	TO_LOWER_LAYER
	peer_link_id	IP_PPP_LINK_ID
	prot_link_id	PPP_L2R_LINK_ID
(3) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(4) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(5) L2R_ERROR_IND		
	cause	NOT_USED
(6) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_DOWN
(7) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_MMI

(8) IPA_DTI_REQ

dti_conn	IPA_DISCONNECT_DTI
entity_name	NOT_USED
link_id	UDP_IP_LINK_ID
dti_direction	NOT_USED

(9) IPA_DTI_CNF

dti_conn	IPA_DISCONNECT_DTI
link_id	UDP_IP_LINK_ID

(10) UDPA_DTI_IND

link_id	UDP_IP_LINK_ID

(11) L2R_DEACTIVATE_REQ

(12) SIM_DTI_REQ

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	SIM_DTI_REQ_NOT_VALID
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_ME_UNAB_PROC
add_info_result	ADD_NO_CAUSE
release_time	SIM_DTI_REQ_NOT_VALID

(13) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1

(14) L2R_DEACTIVATE_CNF

(15) RA_DEACTIVATE_REQ

(16) RA_DEACTIVATE_CNF

(17) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(18) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	FACILITY_NONE
ss_version	SS_VER_NOT_PRES

(19) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	31.05.2002	RM	Update
	23.08.2002	RM	Update, changed L2R SAP)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.02.2003	TLU	Adaptation to new SAPs

3.20.8 ACISAT417: SEND DATA establishment, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF FAIL

Description:

L2R_ERROR_IND received before L2R_CONNECT_CNF during setup CSD channel

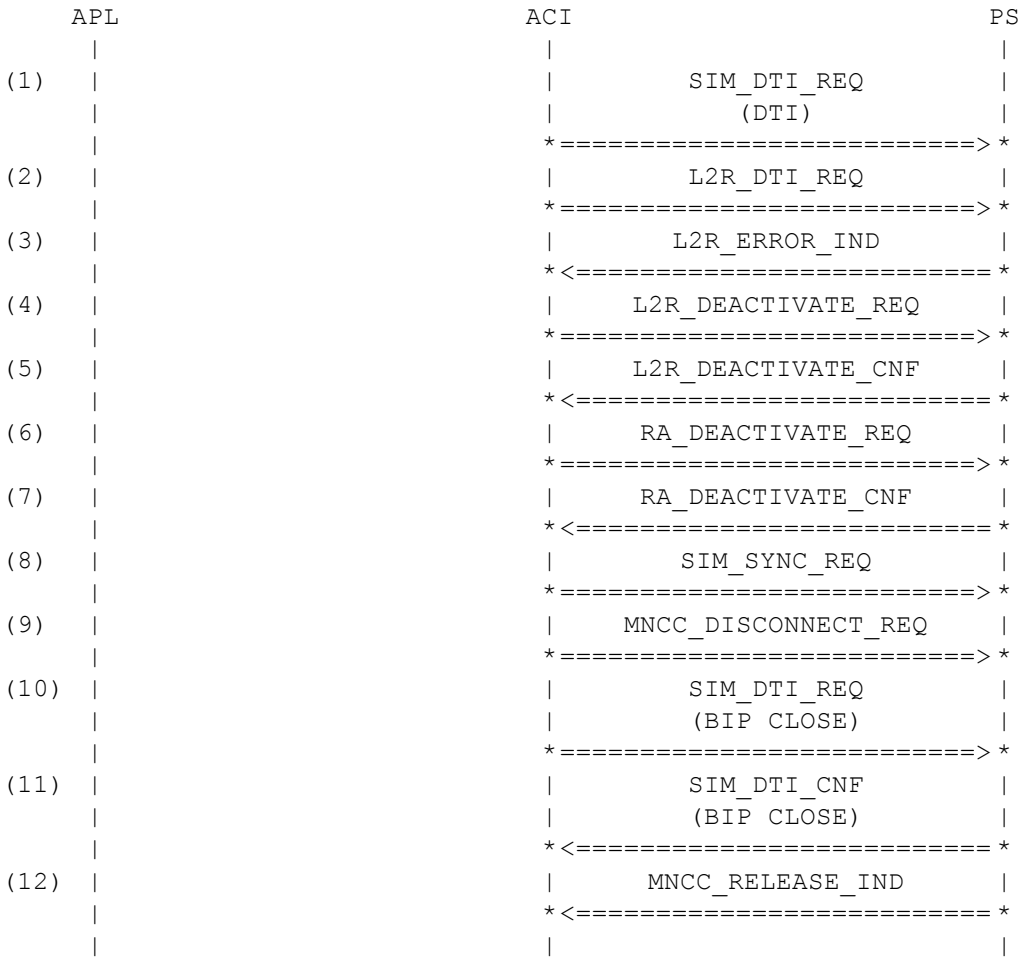
<A> CSD channel, full parameter set, non-transparent, on demand
<B> CSD channel, default parameters, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT443F
<B>ACISAT443G



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	TIME_10SEC
(2) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	SIM_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(3) L2R_ERROR_IND		
	cause	NOT_USED
(4) L2R_DEACTIVATE_REQ		
(5) L2R_DEACTIVATE_CNF		
(6) RA_DEACTIVATE_REQ		
(7) RA_DEACTIVATE_CNF		
(8) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(9) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(10) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_NTW_UNAB_PROC
	add_info_result	SAT_NTW_CS_BUSY
	release_time	SIM_DTI_REQ_NOT_VALID

(11) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1

(12) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	05.06.2002	RM	Update
	23.08.2002	RM	Update, changed L2R SAP)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new SAPs

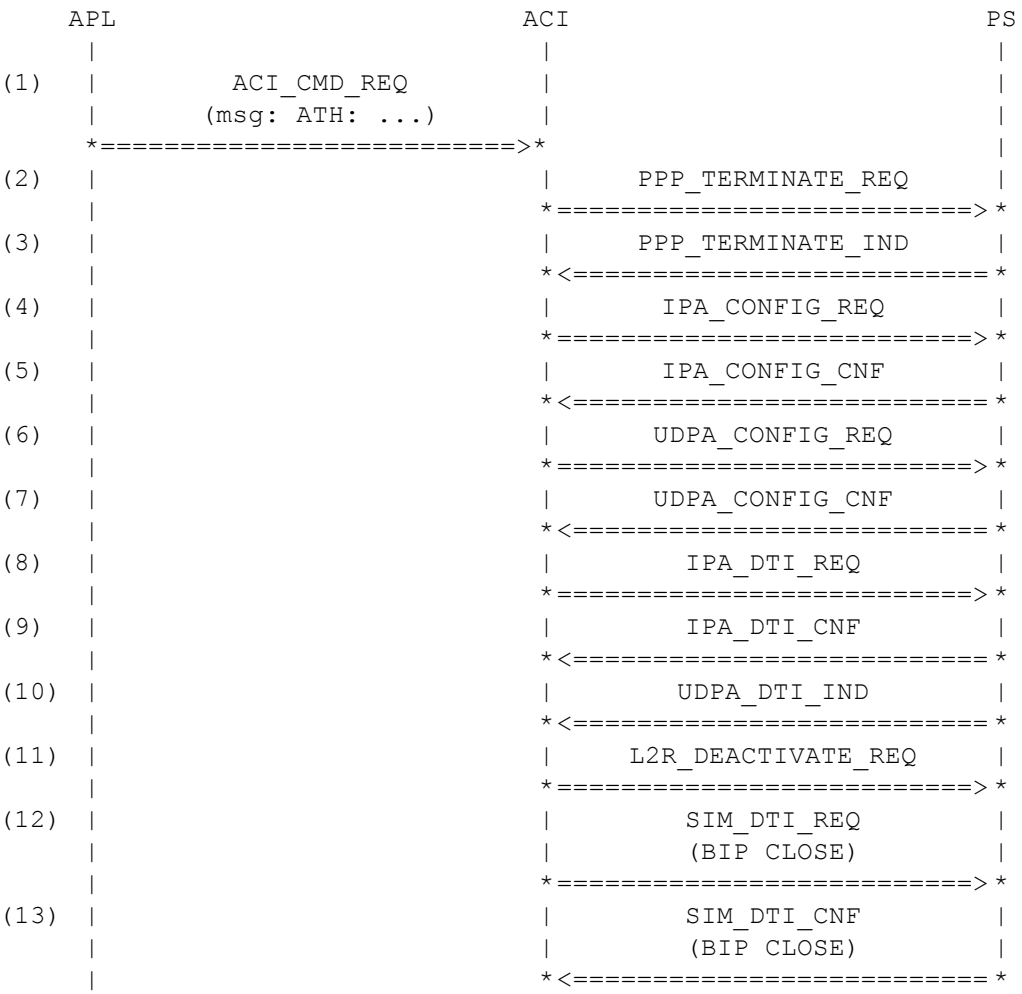
3.20.9 ACISAT418: SEND DATA, User clears down CSD establishment, UDP

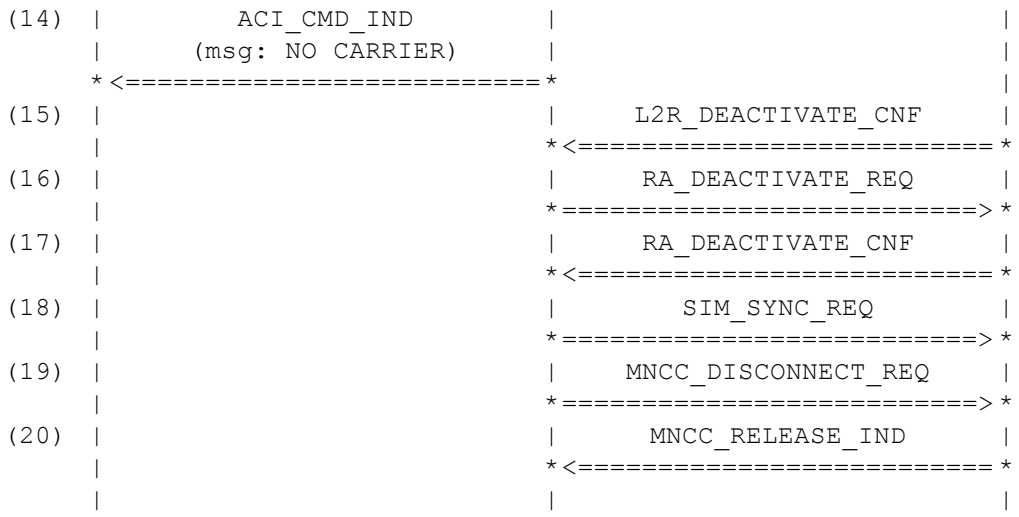
Description:

The user clears down an SEND DATA attempt to establish a CSD channel.

Preamble:

ACISAT445C





Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_H
	cmd_seq	C_H
(2) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_PEER
(4) IPA_CONFIG_REQ		
	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF		
	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(9) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(10) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(11) L2R_DEACTIVATE_REQ		

(12) SIM_DTI_REQ

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	SIM_DTI_REQ_NOT_VALID
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_USR_CLR_DWN
add_info_result	ADD_NO_CAUSE
release_time	SIM_DTI_REQ_NOT_VALID

(13) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1

(14) ACI_CMD_IND

cmd_len	LM_NO_CARRIER
cmd_seq	M_NO_CARRIER

(15) L2R_DEACTIVATE_CNF

(16) RA_DEACTIVATE_REQ

(17) RA_DEACTIVATE_CNF

(18) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(19) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	FACILITY_NONE
ss_version	SS_VER_NOT_PRES

(20) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:	24.04.2002	AK	Initial
	31.05.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.03.2003	TLU	Adaptation to new SAPs

3.20.10 ACISAT419: SEND DATA establishment, GPRS, rejected by network FAIL

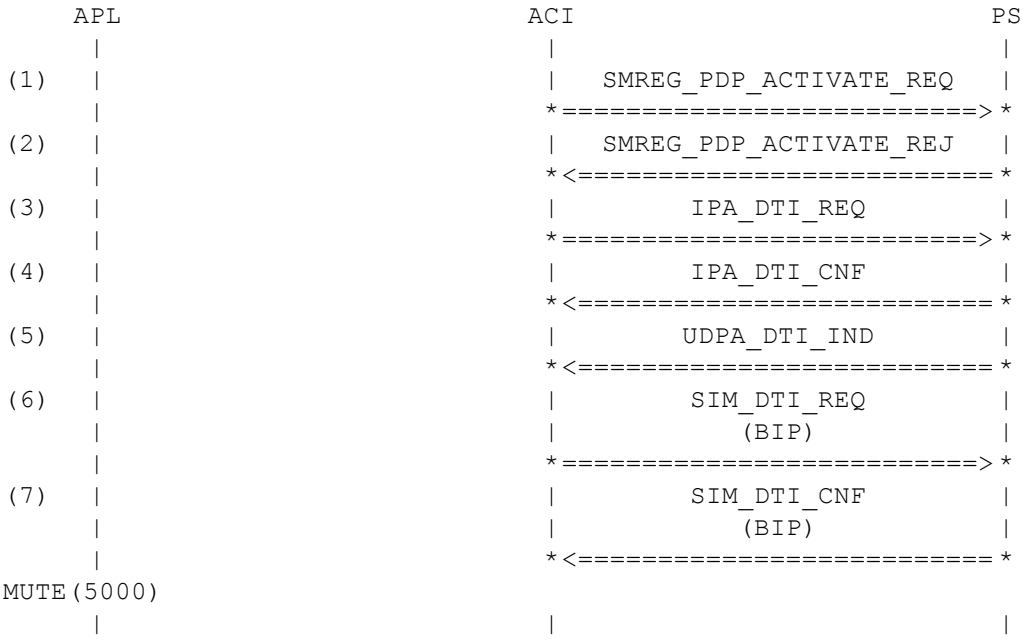
Description:

Context activation failed, due to

GPRS channel, full parameter set, UDP, immediate

Preamble:

ACISAT441F



Parametrization:

Primitive	Parameter	Value
(1) SMREG_PDP_ACTIVATE_REQ		
	direc	DIREC_MO
	ppp_hc	PPP_HC_OFF
	msid	MSID_NULL
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
	smreg_qos	SMREG_QOS_1
	smreg_min_qos	SMREG_QOS_DEF
	smreg_nsapi	SMREG_NSAPI_5
	smreg_ti	NUM_FF
	pdp_address	PDP_ADDRESS_DYN
	smreg_apn	SMREG_APN_1
	dti_linkid	IP_SNDCP_LINK_ID
	dti_neighbor	NOT_USED
	dti_direction	SMREG_NEIGHBOR
	sdu	NOT_USED
(2) SMREG_PDP_ACTIVATE_REJ		
	smreg_cause	SMREG_RC_NETWORK_FAILURE
	smreg_nsapi	SMREG_NSAPI_5

(3) IPA_DTI_REQ

dti_conn	IPA_DISCONNECT_DTI
entity_name	NOT_USED
link_id	UDP_IP_LINK_ID
dti_direction	NOT_USED

(4) IPA_DTI_CNF

dti_conn	IPA_DISCONNECT_DTI
link_id	UDP_IP_LINK_ID

(5) UDPA_DTI_IND

link_id	UDP_IP_LINK_ID

(6) SIM_DTI_REQ

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	SIM_DTI_REQ_NOT_VALID
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_NTW_UNAB_PROC
add_info_result	SAT_NTW_CS_NETWORK_FAILURE
release_time	SIM_DTI_REQ_NOT_VALID

(7) SIM_DTI_CNF

dti_conn	SIM_BIP_CLOSE_CHANNEL
link_id	NOT_USED
bip_ch_id	CHANNEL_SRC_ID1

History:			
	29.05.2002	AK	Initial
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.20.11 ACISAT420: SEND DATA establishment, CSD/GPRS, SIM disconnect after SIM failure D and E FAIL

Description:

After a connection failure has been reported by SIM, the SIM channel will be closed

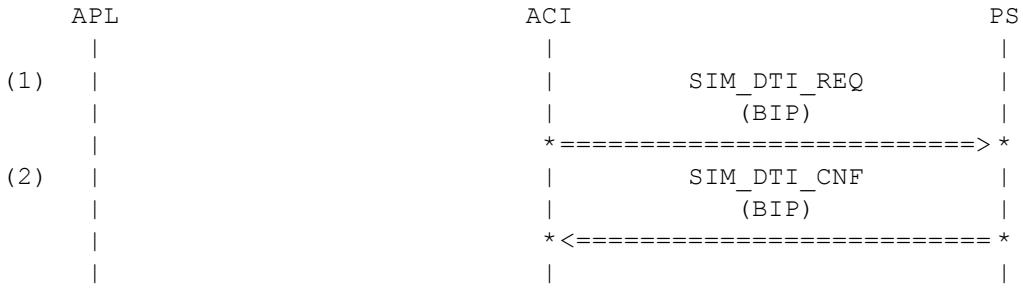
<A> CSD channel, full parameter set, UDP, on demand
<B> GPRS channel, full parameter set, UDP, on demand
<C> GPRS channel, full parameter set, SNDCP, on demand
<D> CSD channel, full parameter set, UDP, immediate
<E> GPRS channel, full parameter set, UDP, immediate
<F> GPRS channel, full parameter set, SNDCP, immediate

Variants:

<A>....<F>

Preamble:

<A>ACISAT447S
<B>ACISAT447W
<C>ACISAT459F
<D>ACISAT480A
<E>ACISAT480D
<F>ACISAT480E



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	NOT_USED
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_BIP_NO_CHAN_AVAIL
	release_time	SIM_DTI_REQ_NOT_VALID
(2) SIM_DTI_CNF		
	link_id	NUM_0
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1

History:			
	6.06.2002	AK	Initial
	14.06.2002	RM	Update

3.21 SAT Get Channel Status command (ACISAT425-)

3.21.1 ACISAT425: GET CHANNEL STATUS request by SIM, notification to APL, response to SIM

Description:

SAT indicates sending a GET CHANNEL STATUS. ACI responds with the current status of the requested channel

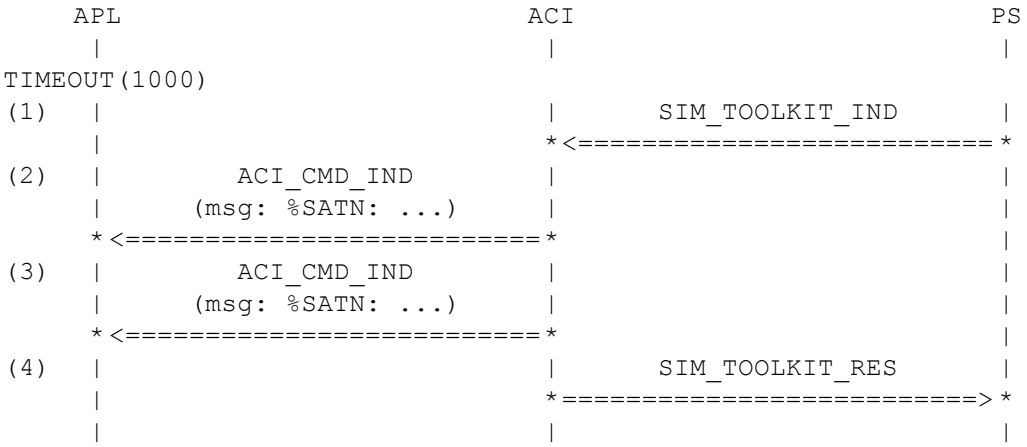
<A> No channel active
<B> CSD channel active
<C> GPRS channel active

Variants:

<A>...<C>

Preamble:

<A>ACISAT011
<B>ACISAT448A
<C>ACISAT448F



Parametrization:

Primitive		Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_GETCS
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_GETCHS
		cmd_seq	M_PERCENT_SATN_CMD_GETCHS
(3)	ACI_CMD_IND		
<A>		cmd_len	LM_PERCENT_SATN_RES_GETCHS_DEACT
<B>		cmd_len	LM_PERCENT_SATN_RES_GETCHS_DEACT
<C>		cmd_len	LM_PERCENT_SATN_RES_GETCHS_ACT
<A>		cmd_seq	M_PERCENT_SATN_RES_GETCHS_DEACT
<B>		cmd_seq	M_PERCENT_SATN_RES_GETCHS_ACT
<C>		cmd_seq	M_PERCENT_SATN_RES_GETCHS_ACT

(4) SIM_TOOLKIT_RES

<A>	stk_cmd	SAT_RES_GETCS_DEACT
<B>	stk_cmd	SAT_RES_GETCS_ACT
<C>	stk_cmd	SAT_RES_GETCS_ACT

History: 25.03.2002 RM Initial xxx open status

3.22 SAT Open Channel command (ACISAT430-4)

3.22.1 ACISAT430: OPEN CHANNEL command received from SAT

Description:

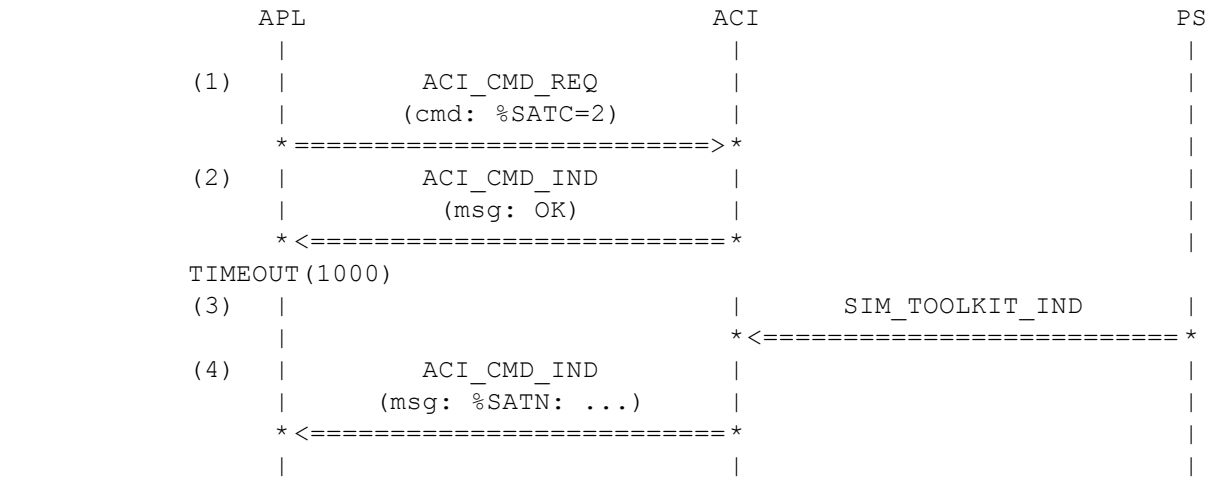
SAT sends an OPEN CHANNEL command to start the establishment of a data connection

<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, full parameter set, non-transparent, immediate
<D> CSD channel, default parameters, immediate
<E> CSD channel, full parameter set, UDP, on demand
<F> CSD channel, full parameter set, transparent, on demand
<G> CSD channel, full parameter set, non-transparent, on demand
<H> CSD channel, default parameters, on demand
<I> CSD channel, illegal parameters
<J> GPRS channel, full parameter set, UDP, immediate
<K> GPRS channel, full parameter set, SNDCP, immediate
<L> GPRS channel, default parameters, immediate
<M> GPRS channel, full parameter set, UDP, on demand
<N> GPRS channel, full parameter set, SNDCP, on demand
<O> GPRS channel, default parameters, on demand
<P> GPRS channel, illegal parameters
<Q> GPRS channel, full parameter set, UDP, immediate, CS connection is active

Variants:
<A>....<Q>

Preamble:

<A>ACISAT012A
<B>ACISAT011
<C>ACISAT011
<D>ACISAT011
<E>ACISAT012A
<F>ACISAT011
<G>ACISAT011
<H>ACISAT011
<I>ACISAT011
<J>ACISAT011
<K>ACISAT011
<L>ACISAT011
<M>ACISAT011
<N>ACISAT011
<O>ACISAT011
<P>ACISAT011
<Q>ACISAT448C



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_SATC_ENA_CL_E
	cmd_seq	C_PERCENT_SATC_ENA_CL_E
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) SIM_TOOLKIT_IND

<A>	stk_cmd	SAT_CMD_OPCH_CSD_A
<B>	stk_cmd	SAT_CMD_OPCH_CSD_B
<C>	stk_cmd	SAT_CMD_OPCH_CSD_C
<D>	stk_cmd	SAT_CMD_OPCH_CSD_D
<E>	stk_cmd	SAT_CMD_OPCH_CSD_E
<F>	stk_cmd	SAT_CMD_OPCH_CSD_F
<G>	stk_cmd	SAT_CMD_OPCH_CSD_G
<H>	stk_cmd	SAT_CMD_OPCH_CSD_H
<I>	stk_cmd	SAT_CMD_OPCH_CSD_I
<J>	stk_cmd	SAT_CMD_OPCH_GPRS_J
<K>	stk_cmd	SAT_CMD_OPCH_GPRS_K
<L>	stk_cmd	SAT_CMD_OPCH_GPRS_L
<M>	stk_cmd	SAT_CMD_OPCH_GPRS_M
<N>	stk_cmd	SAT_CMD_OPCH_GPRS_N
<O>	stk_cmd	SAT_CMD_OPCH_GPRS_O
<P>	stk_cmd	SAT_CMD_OPCH_GPRS_P
<Q>	stk_cmd	SAT_CMD_OPCH_GPRS_J

(4) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_A
<B>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_B
<C>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_C
<D>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_D
<E>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_E
<F>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_F
<G>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_G
<H>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_H
<I>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_CSD_I
<J>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_J
<K>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_K
<L>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_L
<M>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_M
<N>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_N
<O>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_O
<P>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_P
<Q>	cmd_len	LM_PERCENT_SATN_CMD_OPCH_GPRS_J
<A>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_A
<B>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_B
<C>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_C
<D>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_D
<E>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_E
<F>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_F
<G>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_G
<H>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_H
<I>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_CSD_I
<J>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_J
<K>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_K
<L>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_L
<M>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_M
<N>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_N
<O>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_O
<P>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_P
<Q>	cmd_seq	M_PERCENT_SATN_CMD_OPCH_GPRS_J

History: 23.04.2002 AK Initial

3.22.2 ACISAT431: OPEN CHANNEL CSD with call control by SIM

Description:

An open channel CSD request has to be checked by SAT.

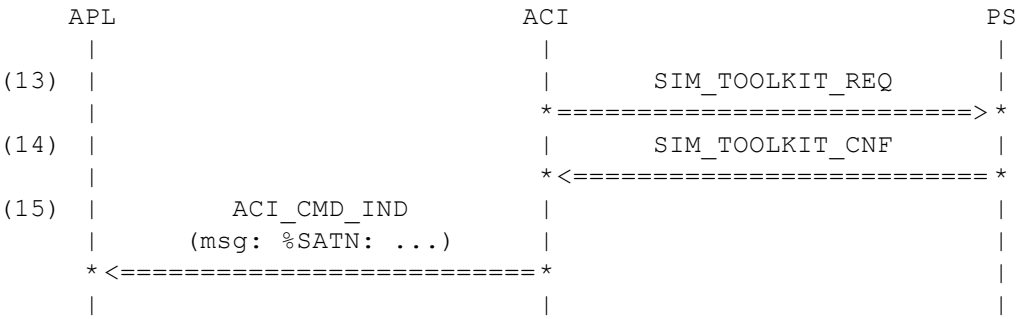
<A> CSD channel, full parameter set, UDP, immediate, no modification
<B> CSD channel, full parameter set, UDP, on demand, no modification
<C> CSD channel, full parameter set, UDP, immediate, modified
<D> CSD channel, full parameter set, UDP, on demand, modified
<E> CSD channel, full parameter set, UDP, immediate, not allowed

Variants**:**

<A>....<E>

Preamble:

<A>ACISAT430A
<B>ACISAT430E
<C>ACISAT430A
<D>ACISAT430E
<E>ACISAT430A



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_ACI
	stk_cmd	ENV_CMD_CC_VOICE
(2) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	SRQ_ACI
<A>	stk_cmd	ENV_RES_CC_EMPTY
<B>	stk_cmd	ENV_RES_CC_NO_MDFY
<C>	stk_cmd	ENV_RES_CC_MDFY_CAL
<D>	stk_cmd	ENV_RES_CC_MDFY_CAL
<E>	stk_cmd	ENV_RES_CC_NOT_ALLW

(3) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_len	LM_PERCENT_SATN_RES_CC_NO_MDFY
<C>	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_CAL
<D>	cmd_len	LM_PERCENT_SATN_RES_CC_MDFY_CAL
<E>	cmd_len	LM_PERCENT_SATN_RES_CC_NOT_ALLW
<A>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
<B>	cmd_seq	M_PERCENT_SATN_RES_CC_NO_MDFY
<C>	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_CAL
<D>	cmd_seq	M_PERCENT_SATN_RES_CC_MDFY_CAL
<E>	cmd_seq	M_PERCENT_SATN_RES_CC_NOT_ALLW

History: 24.04.02 AK Initial

3.22.3 ACISAT432: User accepts OPEN CHANNEL command

Description:

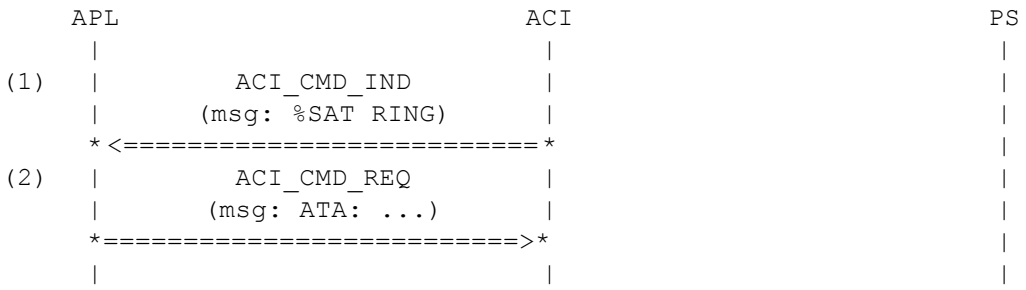
ACI requests for user confirmation of the open channel command. User accepts channel establishment and confirms with ATA.

<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, full parameter set, non-transparent, immediate
<D> CSD channel, default parameters, immediate
<E> CSD channel, full parameter set, UDP, on demand
<F> CSD channel, full parameter set, transparent, on demand
<G> CSD channel, full parameter set, non-transparent, on demand
<H> CSD channel, default parameters, on demand
<I> GPRS channel, full parameter set, UDP, immediate
<J> GPRS channel, full parameter set, SNDCP, immediate
<K> GPRS channel, default parameters, immediate
<L> GPRS channel, full parameter set, UDP, on demand
<M> GPRS channel, full parameter set, SNDCP, on demand
<N> GPRS channel, default parameters, on demand
<O> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<P> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<Q> GPRS channel, full parameter set, UDP, immediate, CS connection is active

Variants:
<A>....<Q>

Preamble:

<A>ACISAT431A
<B>ACISAT430B
<C>ACISAT430C
<D>ACISAT430D
<E>ACISAT431B
<F>ACISAT430F
<G>ACISAT430G
<H>ACISAT430H
<I>ACISAT430J
<J>ACISAT430K
<K>ACISAT430L
<L>ACISAT430M
<M>ACISAT430N
<N>ACISAT430O
<O>ACISAT431C
<P>ACISAT431D
<Q>ACISAT430Q



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_IND		
<A>	cmd_len	LM_SATA_CSD_IM
<B>	cmd_len	LM_SATA_CSD_IM
<C>	cmd_len	LM_SATA_CSD_IM_RDL
<D>	cmd_len	LM_SATA_CSD_IM
<E>	cmd_len	LM_SATA_CSD_OD
<F>	cmd_len	LM_SATA_CSD_OD
<G>	cmd_len	LM_SATA_CSD_OD
<H>	cmd_len	LM_SATA_CSD_OD
<I>	cmd_len	LM_SATA_GPRS_IM
<J>	cmd_len	LM_SATA_GPRS_IM
<K>	cmd_len	LM_SATA_GPRS_IM
<L>	cmd_len	LM_SATA_GPRS_OD
<M>	cmd_len	LM_SATA_GPRS_OD
<N>	cmd_len	LM_SATA_GPRS_OD
<O>	cmd_len	LM_SATA_CSD_IM
<P>	cmd_len	LM_SATA_CSD_OD
<Q>	cmd_len	LM_SATA_GPRS_IM
<A>	cmd_seq	M_SATA_CSD_IM
<B>	cmd_seq	M_SATA_CSD_IM
<C>	cmd_seq	M_SATA_CSD_IM_RDL
<D>	cmd_seq	M_SATA_CSD_IM
<E>	cmd_seq	M_SATA_CSD_OD
<F>	cmd_seq	M_SATA_CSD_OD
<G>	cmd_seq	M_SATA_CSD_OD
<H>	cmd_seq	M_SATA_CSD_OD
<I>	cmd_seq	M_SATA_GPRS_IM
<J>	cmd_seq	M_SATA_GPRS_IM
<K>	cmd_seq	M_SATA_GPRS_IM
<L>	cmd_seq	M_SATA_GPRS_OD
<M>	cmd_seq	M_SATA_GPRS_OD
<N>	cmd_seq	M_SATA_GPRS_OD
<O>	cmd_seq	M_SATA_CSD_IM
<P>	cmd_seq	M_SATA_CSD_OD
<Q>	cmd_seq	M_SATA_GPRS_IM
(2) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A

History: 23.04.2002 AK Initial

3.22.4 ACISAT433: User rejects OPEN CHANNEL command

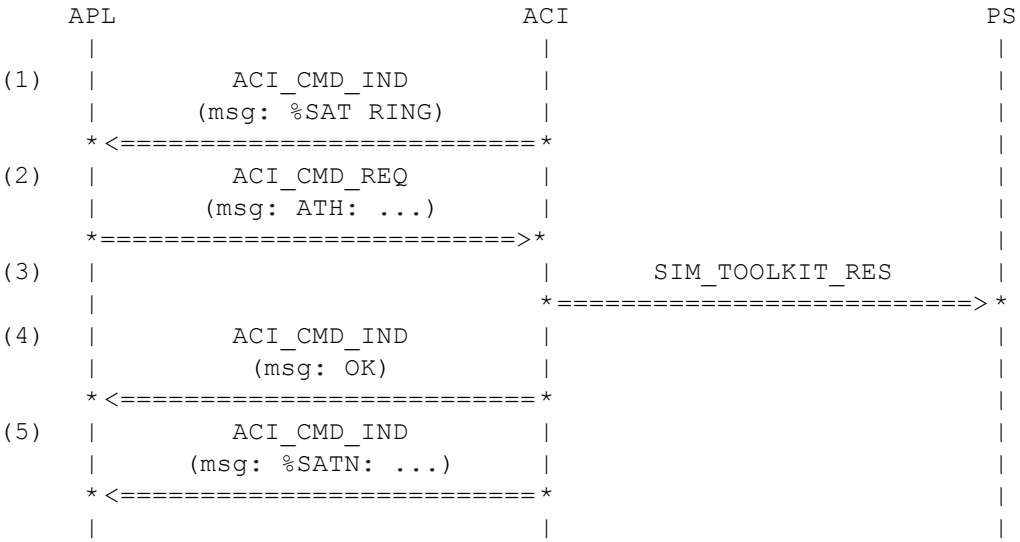
Description:

ACI requests for user confirmation of the open channel command. User rejects channel establishment and confirms with ATH or AT+CHUP.

<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, non-transparent, on demand
<C> GPRS channel, full parameter set, UDP, immediate
<D> GPRS channel, full parameter set, UDP, on demand

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

Preamble:
<A>ACISAT431A
<B>ACISAT430G
<C>ACISAT430J
<D>ACISAT430M



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_IND		
<A>	cmd_len	LM_SATA_CSD_IM
<B>	cmd_len	LM_SATA_CSD_OD
<C>	cmd_len	LM_SATA_GPRS_IM
<D>	cmd_len	LM_SATA_GPRS_OD
<A>	cmd_seq	M_SATA_CSD_IM
<B>	cmd_seq	M_SATA_CSD_OD
<C>	cmd_seq	M_SATA_GPRS_IM
<D>	cmd_seq	M_SATA_GPRS_OD

(2)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
	<A>	cmd_len	LC_H
	<B>	cmd_len	LC_PLUS_CHUP
	<C>	cmd_len	LC_H
	<D>	cmd_len	LC_PLUS_CHUP
	<A>	cmd_seq	C_H
	<B>	cmd_seq	C_PLUS_CHUP
	<C>	cmd_seq	C_H
	<D>	cmd_seq	C_PLUS_CHUP
(3)	SIM_TOOLKIT_RES		
	<A>	stk_cmd	SAT_RES_REJ_OPEN_CHAN_BY_USR
	<B>	stk_cmd	SAT_RES_REJ_OPEN_CHAN_BY_USR_OD
	<C>	stk_cmd	SAT_RES_REJ_OPEN_CHAN_BY_USR
	<D>	stk_cmd	SAT_RES_REJ_OPEN_CHAN_BY_USR_OD
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

(1) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR
<B>	cmd_len	LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD
<C>	cmd_len	LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR
<D>	cmd_len	LM_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD
<A>	cmd_seq	M_PERCENT_SATN_RES_REJ_OPCH_BY_USR
<B>	cmd_seq	M_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD
<C>	cmd_seq	M_PERCENT_SATN_RES_REJ_OPCH_BY_USR
<D>	cmd_seq	M_PERCENT_SATN_RES_REJ_OPCH_BY_USR_OD

History: 24.04.2002 AK Initial

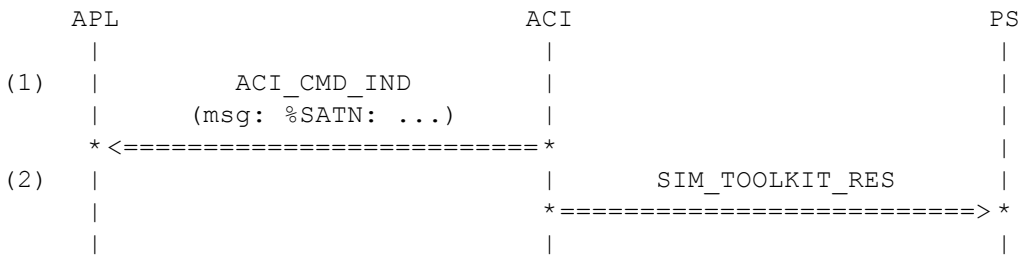
3.22.5 ACISAT434: OPEN CHANNEL command not allowed by CC SIM.

Description:

Setup is not allowed. SAT is informed about unsuccessful operation.

Preamble:

ACISAT431E



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CALL_NOT_ALLW_OPCH
	cmd_seq	M_PERCENT_SATN_RES_CALL_NOT_ALLW_OPCH

(2) SIM_TOOLKIT_RES

stk_cmd SAT_RES_CALL_NOT_ALLW_OPCH

History: 24.04.02 AK Initial

3.22.6 ACISAT435: Termination for OPEN CHANNEL command, on-demand

Description:

After user acceptance, the link with SIM will be opened. SAT command will be terminated, waiting for a SEND DATA with immediate channel establishment.

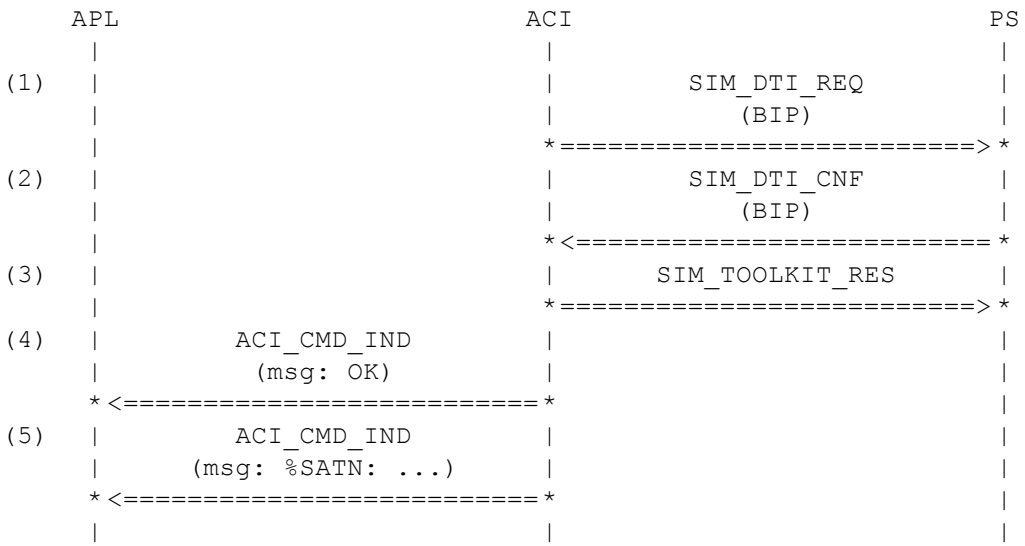
<A> CSD channel, full parameter set, UDP, on demand
<B> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<C> CSD channel, full parameter set, transparent, on demand
<D> CSD channel, full parameter set, non-transparent, on demand
<E> CSD channel, default parameters, on demand
<F> GPRS channel, full parameter set, UDP, on demand
<G> GPRS channel, full parameter set, SNDCP, on demand
<H> GPRS channel, default parameters, on demand

Variants:

<A>....<H>

Preamble:

<A>ACISAT432E
<B>ACISAT432P
<C>ACISAT432F
<D>ACISAT432G
<E>ACISAT432H
<F>ACISAT432L
<G>ACISAT432M
<H>ACISAT432N



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_OPEN_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	SIM_DTI_REQ_NOT_VALID
	add_info_result	SIM_DTI_REQ_NOT_VALID
	release_time	SIM_DTI_REQ_NOT_VALID
(2) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_OPEN_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
(3) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_OPCH_CSD_OD_A
<B>	stk_cmd	SAT_RES_OPCH_CSD_OD_B
<C>	stk_cmd	SAT_RES_OPCH_CSD_OD_C
<D>	stk_cmd	SAT_RES_OPCH_CSD_OD_D
<E>	stk_cmd	SAT_RES_OPCH_CSD_OD_E
<F>	stk_cmd	SAT_RES_OPCH_GPRS_OD_F
<G>	stk_cmd	SAT_RES_OPCH_GPRS_OD_G
<H>	stk_cmd	SAT_RES_OPCH_GPRS_OD_H
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(5) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_OD_A
<B>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_OD_B
<C>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_OD_C
<D>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_OD_D
<E>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_OD_E
<F>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_OD_F
<G>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_OD_G
<H>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_OD_H
<A>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_OD_A
<B>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_OD_B
<C>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_OD_C
<D>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_OD_D
<E>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_OD_E
<F>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_OD_F
<G>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_OD_G
<H>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_OD_H

History:	23.04.2002	AK	Initial
	24.03.2003	TLU	Adaptation to new SAPs

3.22.7 ACISAT440: OPEN CHANNEL/SEND DATA establishment, CSD, successful (call setup part)

Description:

ACI starts establishment of a CSD data channel with given parameters. This part describes how the circuit switched connection will be established.

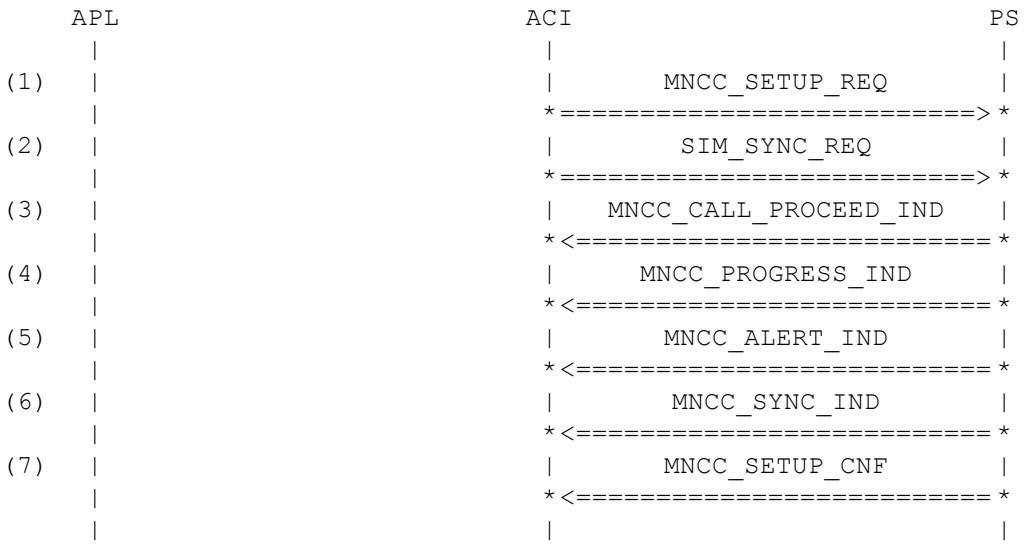
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, full parameter set, non-transparent, immediate
<D> CSD channel, default parameters, immediate
<E> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<F> CSD channel, full parameter set, UDP, on demand
<G> CSD channel, full parameter set, transparent, on demand
<H> CSD channel, full parameter set, non-transparent, on demand
<I> CSD channel, default parameters, on demand
<J> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>....<J>

Preamble:

<A>ACISAT432A
<B>ACISAT432B
<C>ACISAT432C
<D>ACISAT432D
<E>ACISAT432O
<F>ACISAT411A
<G>ACISAT411B
<H>ACISAT411C
<I>ACISAT411D
<J>ACISAT411H



Parametrization:

	Primitive	Parameter	Value
(1)	MNCC_SETUP_REQ		
		ti	NUM_0
		prio	PRIO_NORM_CALL
		ri	RI_NOT_PRES
<A>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<B>		bcpara	S_BS_DAT_9600_ASY_TRA
<C>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<D>		bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<E>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<F>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<G>		bcpara	S_BS_DAT_9600_ASY_TRA
<H>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<I>		bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<J>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
		bcpara2	S_BS_NOT_PRESENT
<A>		called_party	S_CLD_PARTY
<B>		called_party	S_CLD_PARTY
<C>		called_party	S_CLD_PARTY
<D>		called_party	S_CLD_PARTY
<E>		called_party	S_CLD_PARTY_MDFY
<F>		called_party	S_CLD_PARTY
<G>		called_party	S_CLD_PARTY
<H>		called_party	S_CLD_PARTY
<I>		called_party	S_CLD_PARTY
<J>		called_party	S_CLD_PARTY_MDFY
<A>		called_party_sub	S_CLD_PARTY_SUB
<B>		called_party_sub	S_CLD_PARTY_SUB
<C>		called_party_sub	S_CLD_PARTY_SUB
<D>		called_party_sub	S_CLD_PARTY_SUB
<E>		called_party_sub	S_CLD_PARTY_SUB_MDFY
<F>		called_party_sub	S_CLD_PARTY_SUB
<G>		called_party_sub	S_CLD_PARTY_SUB
<H>		called_party_sub	S_CLD_PARTY_SUB
<I>		called_party_sub	S_CLD_PARTY_SUB
<J>		called_party_sub	S_CLD_PARTY_SUB_MDFY
		clir_sup	NOT_PRESENT_8BIT
		fac_inf	NOT_USED
(2)	SIM_SYNC_REQ		
		synccs	SYNC_START_CALL

(3)	MNCC_CALL_PROCEED_IND		
		ti	NUM_0
		progress_desc	PROG_NOT_PRES
		ri	RI_NOT_PRES
<A>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<B>		bcpara	S_BS_DAT_4800_ASY_TRA
<C>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<D>		bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<E>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<F>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<G>		bcpara	S_BS_DAT_9600_ASY_TRA
<H>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
<I>		bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<J>		bcpara	S_BS_DAT_9600_ASY_NON_TRA
		bcpara2	S_BS_NOT_PRESENT
(4)	MNCC_PROGRESS_IND		
		ti	NUM_0
		progress_desc	PROG_NOT_PRES
(5)	MNCC_ALERT_IND		
		ti	NUM_0
		progress_desc	PROG_NOT_PRES
(6)	MNCC_SYNC_IND		
		ti	NOT_PRESENT_8BIT
		cause	MNCC_CAUSE_NO_MS_CAUSE
		chm	S_CHN_FULL_9600
(7)	MNCC_SETUP_CNF		
		ti	NUM_0
		cause	MNCC_CAUSE_SUCCESS
		progress_desc	PROG_NOT_PRES
		connected_number	S_CLG_PARTY
		connected_number_sub	S_CLG_PARTY_SUB

History:	25.04.2002	AK	Initial
	26.08.2002	RM	Update

3.22.8 ACISAT441: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, successful (UDP activation part)

Description:

After the call is established, the UDP stack will be activated.

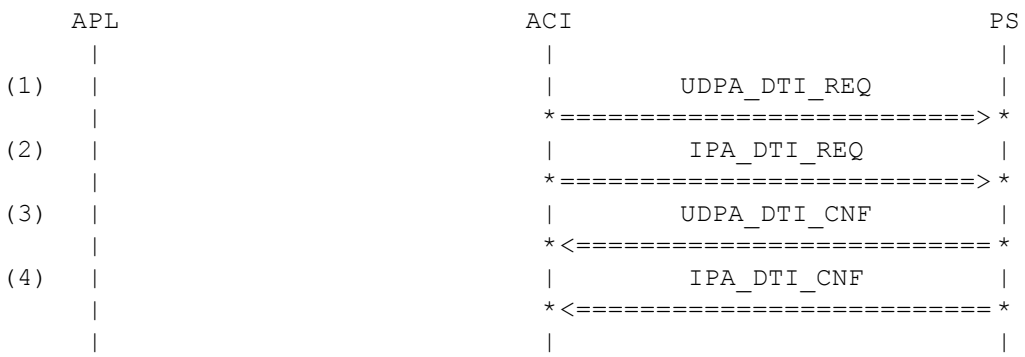
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> GPRS channel, full parameter set, UDP, immediate
<F> GPRS channel, full parameter set, UDP, on demand

Variants:

<A>....<F>

Preamble:

<A>ACISAT440A
<B>ACISAT440E
<C>ACISAT440F
<D>ACISAT440J
<E>ACISAT432I
<F>ACISAT411E



Parametrization:

Primitive	Parameter	Value
(1) UDPA_DTI_REQ		
	dti_conn	UDPA_CONNECT_DTI
	entity_name	S_IP_NAME
	link_id	UDP_IP_LINK_ID
	dti_direction	UDPA_DTI_TO_LOWER_LAYER
(2) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_UDP_NAME
	link_id	UDP_IP_LINK_ID
	dti_direction	IPA_DTI_TO_HIGHER_LAYER
(3) UDPA_DTI_CNF		
	dti_conn	UDPA_CONNECT_DTI
	link_id	UDP_IP_LINK_ID
(4) IPA_DTI_CNF		
	dti_conn	IPA_CONNECT_DTI
	link_id	UDP_IP_LINK_ID

History: 25.04.2002 AK Initial

3.22.9 ACISAT442: OPEN CHANNEL/SEND DATA establishment, CSD, successful (RA part)

Description:

The RA data entity will be set up

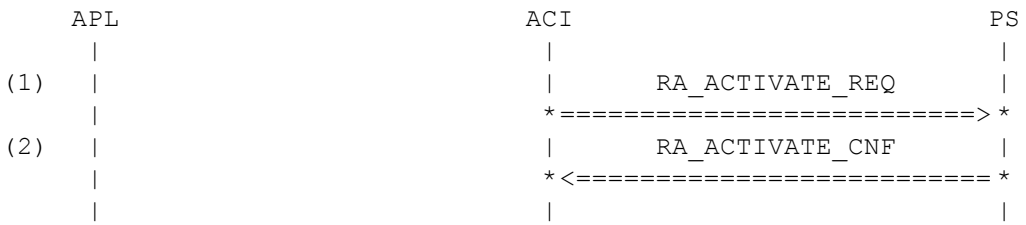
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, transparent, immediate
<D> CSD channel, full parameter set, non-transparent, immediate
<E> CSD channel, default parameters, immediate
<F> CSD channel, full parameter set, UDP, on demand
<G> CSD channel, full parameter set, transparent, on demand
<H> CSD channel, full parameter set, non-transparent, on demand
<I> CSD channel, default parameters, on demand
<J> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>....<J>

Preamble:

<A>ACISAT441A
<B>ACISAT441B
<C>ACISAT440B
<D>ACISAT440C
<E>ACISAT440D
<F>ACISAT441C
<G>ACISAT440G
<H>ACISAT440H
<I>ACISAT440I
<J>ACISAT441D



Parametrization:

Primitive	Parameter	Value
(1) RA_ACTIVATE_REQ		
<A>	model	RA_MODEL_RLP
<B>	model	RA_MODEL_RLP
<C>	model	RA_MODEL_TRANS
<D>	model	RA_MODEL_RLP
<E>	model	RA_MODEL_RLP
<F>	model	RA_MODEL_RLP
<G>	model	RA_MODEL_TRANS
<H>	model	RA_MODEL_RLP
<I>	model	RA_MODEL_RLP
<J>	model	RA_MODEL_RLP
	tra_rate	TRA_FULLRATE_9600
<A>	user_rate	URA_9600
<B>	user_rate	URA_9600
<C>	user_rate	URA_4800
<D>	user_rate	URA_9600
<E>	user_rate	URA_9600
<F>	user_rate	URA_9600
<G>	user_rate	URA_9600
<H>	user_rate	URA_9600
<I>	user_rate	URA_9600
<J>	user_rate	URA_9600
	ndb	NUM_8
	nsb	NUM_1
(2) RA_ACTIVATE_CNF		
	ack_flg	RA_ACK

History: 25.04.2002 AK Initial

3.22.10 ACISAT443: OPEN CHANNEL/SEND DATA establishment, CSD, successful (L2R part)

Description:

The L2R data entity will be set up

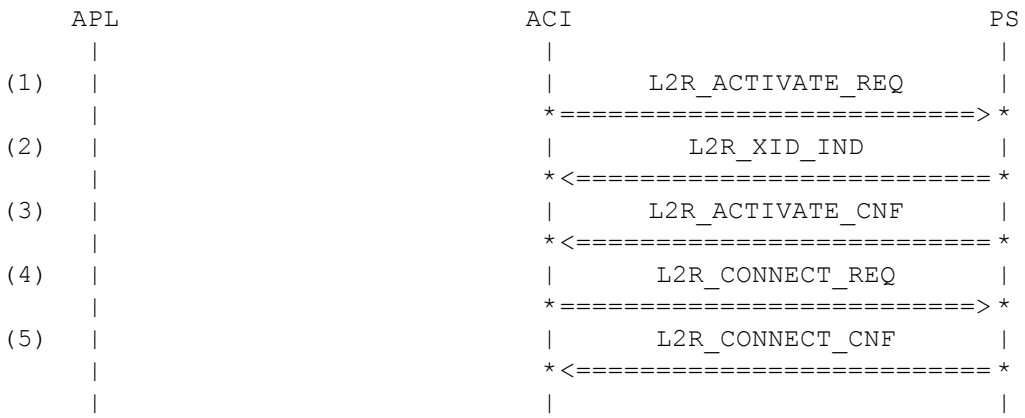
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, non-transparent, immediate
<D> CSD channel, default parameters, immediate
<E> CSD channel, full parameter set, UDP, on demand
<F> CSD channel, full parameter set, non-transparent, on demand
<G> CSD channel, default parameters, on demand
<H> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>....<H>

Preamble:

<A>ACISAT442A
<B>ACISAT442B
<C>ACISAT442D
<D>ACISAT442E
<E>ACISAT442F
<F>ACISAT442H
<G>ACISAT442I
<H>ACISAT442J



Parametrization:

Primitive	Parameter	Value
(1) L2R_ACTIVATE_REQ		
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6
	uil2p	L2R_ISO6429
	bytes_per_prim	NOT_USED
	buffer_size	NOT_USED
	rate	L2R_FULLRATE_9600
(2) L2R_XID_IND		
	rlp_vers	NUM_1
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6
(3) L2R_ACTIVATE_CNF		
	ack_flg	L2R_ACK

(4) L2R_CONNECT_REQ

(5) L2R_CONNECT_CNF

ack_flg		L2R_ACK

History:	25.04.2002	AK	Initial
	27.05.2002	RM	Update
	24.03.2003	TLU	Adaptation to new SAPs

3.22.11 ACISAT444: OPEN CHANNEL/SEND DATA establishment, CSD, successful (TRA part)

Description:

The TRA data entity will be set up

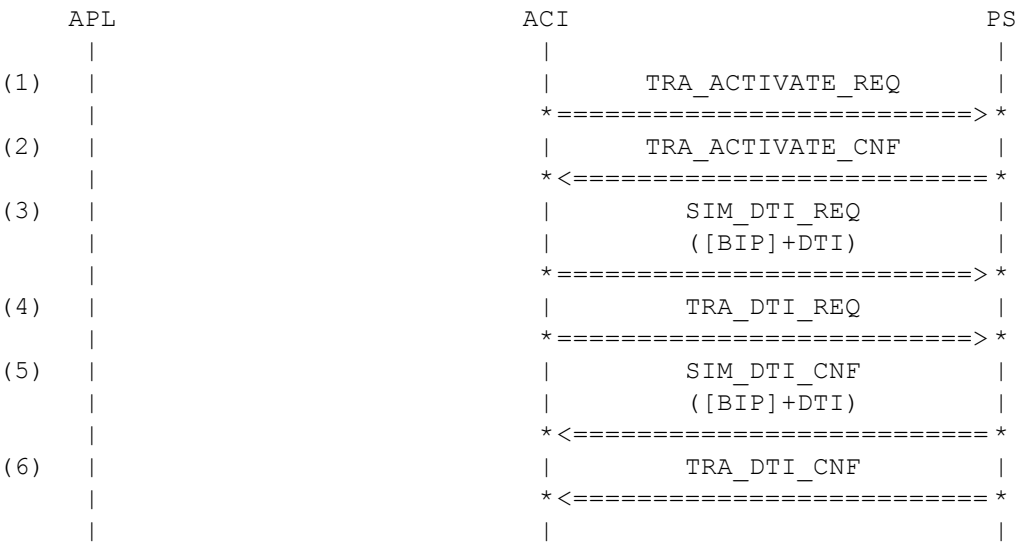
<A> CSD channel, full parameter set, transparent, immediate
<B> CSD channel, full parameter set, transparent, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT442C
<B>ACISAT442G



Parametrization:

Primitive	Parameter	Value

(1) TRA_ACTIVATE_REQ

(2) TRA_ACTIVATE_CNF

ack_flg		TRA_ACK

(3) SIM_DTI_REQ

	link_id	SIM_TRA_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
<A>	general_result	RSLT_PERF_MDFIED
<B>	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	TIME_10SEC

(4) TRA_DTI_REQ

	dti_conn	TRA_CONNECT_DTI
	link_id	SIM_TRA_LINK_ID
	entity_name	S_SIM_NAME
	dti_direction	TRA_DTI_NORMAL

(5) SIM_DTI_CNF

	link_id	SIM_TRA_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1

(6) TRA_DTI_CNF

	dti_conn	TRA_CONNECT_DTI
	link_id	SIM_TRA_LINK_ID

History:	25.04.2002	AK	Initial
	27.05.2002	RM	Update

3.22.12 ACISAT445: OPEN CHANNEL/SEND DATA establishment, CSD, successful (PPP activation part)

Description:

After the data entities are set up, PPP will be activated

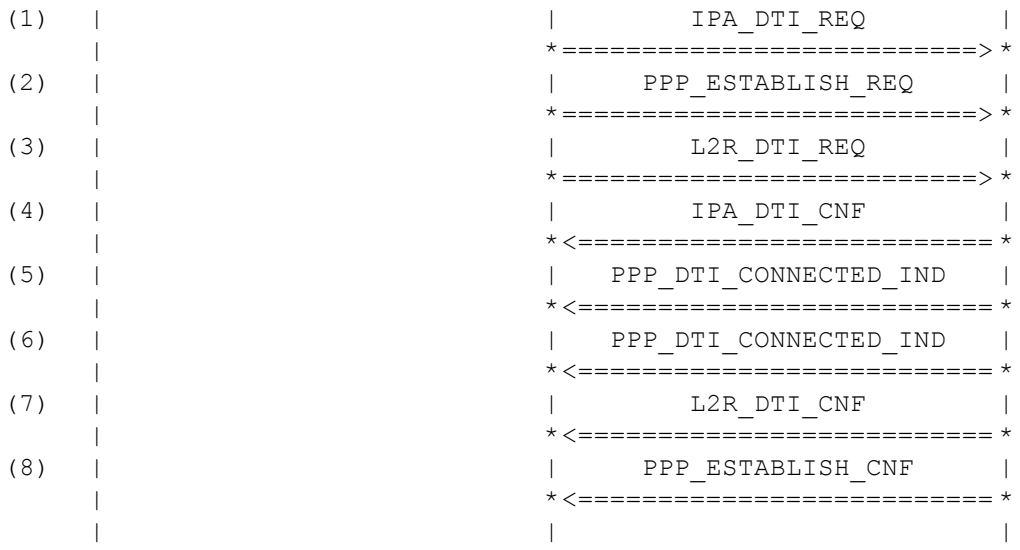
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM

Variants:

<A>....<D>

Preamble:

<A>ACISAT443A
<B>ACISAT443B
<C>ACISAT443E
<D>ACISAT443H



Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	IP_PPP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_LOWER_LAYER
	prot_direction	TO_HIGHER_LAYER
	peer_link_id	PPP_L2R_LINK_ID
	prot_link_id	IP_PPP_LINK_ID
(3) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	PPP_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(4) IPA_DTI_CNF		
	dti_conn	IPA_CONNECT_DTI
	link_id	IP_PPP_LINK_ID

(5) PPP_DTI_CONNECTED_IND

connected_direction	PPP_DTI_CONN_PEER

(6) PPP_DTI_CONNECTED_IND

connected_direction	PPP_DTI_CONN_PROT

(7) L2R_DTI_CNF

dti_conn	L2R_CONNECT_DTI
link_id	PPP_L2R_LINK_ID

(8) PPP_ESTABLISH_CNF

mru	PPP_MRU_DEFAULT
ppp_hc	PPP_HC_OFF
msid	NOT_USED
ip	NOT_USED
dns1	NOT_USED
dns2	NOT_USED

History:	25.04.2002	AK	Initial

3.22.13 ACISAT446: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, successful (UDP configuration)

Description:

After PPP is activated, the UDP stack will be configured

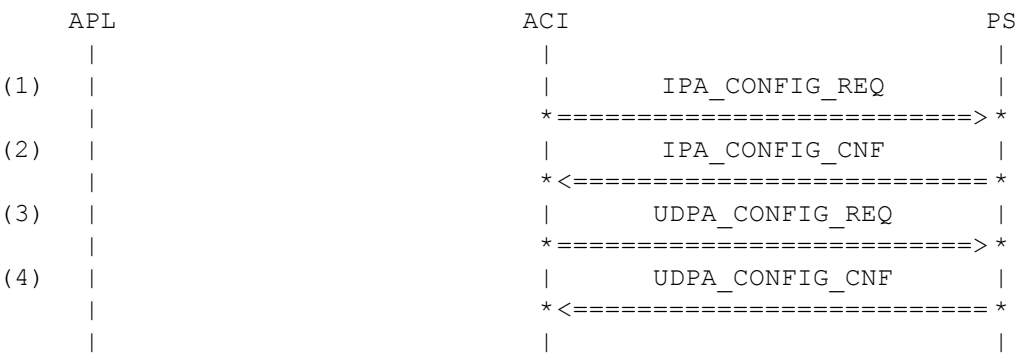
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> GPRS channel, full parameter set, UDP, immediate
<F> GPRS channel, full parameter set, UDP, on demand

Variants:

<A>....<F>

Preamble:

<A>ACISAT445A
<B>ACISAT445B
<C>ACISAT445C
<D>ACISAT445D
<E>ACISAT463A
<F>ACISAT463B



Parametrization:

Primitive	Parameter	Value
(1) IPA_CONFIG_REQ		
<A>	ip	PPP_IP_DYNAMIC
<B>	ip	PPP_IP_DYNAMIC
<C>	ip	PPP_IP_DYNAMIC
<D>	ip	PPP_IP_DYNAMIC
<E>	ip	DEST_IP_ADDR
<F>	ip	DEST_IP_ADDR
	peer_ip	NOT_USED
	mtu	PPP_MRU_DEFAULT
	cmd	IPA_CONFIG_UP
(2) IPA_CONFIG_CNF		
	ack_flag	NOT_USED
	all_down	NOT_USED
(3) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_UP
(4) UDPA_CONFIG_CNF		

History:			
	25.04.2002	AK	Initial
	25.03.2003	TLU	Adaptation to new SAPs

3.22.14 ACISAT447: OPEN CHANNEL/SEND DATA establishment, CSD/GPRS, suc/unsuc (SIM connect) C, D, E, H, I, J, M, N, O, P, R, T, V, X FAIL

Description:

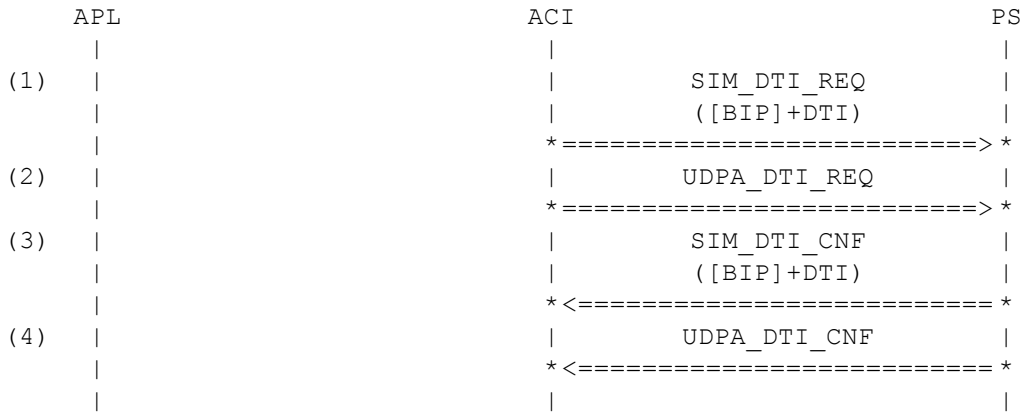
After the UDP stack is configured, the SIM entity will be connected
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, transparent, immediate
<D> CSD channel, full parameter set, non-transparent, immediate
<E> CSD channel, default parameters, immediate
<F> CSD channel, full parameter set, UDP, on demand
<G> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<H> CSD channel, full parameter set, transparent, on demand
<I> CSD channel, full parameter set, non-transparent, on demand
<J> CSD channel, default parameters, on demand
<K> GPRS channel, full parameter set, UDP, immediate
<L> GPRS channel, full parameter set, UDP, on demand
<M> GPRS channel, full parameter set, SNDCP, immediate
<N> GPRS channel, default parameters, immediate
<O> GPRS channel, full parameter set, SNDCP, on demand
<P> GPRS channel, default parameters, on demand
<Q> CSD channel, full parameter set, UDP, immediate, SIM connection failed
<R> CSD channel, full parameter set, default parameters, immediate, SIM connection failed
<S> CSD channel, full parameter set, UDP, on demand, SIM connection failed
<T> CSD channel, full parameter set, non-transparent, on demand, SIM connection failed
<U> GPRS channel, full parameter set, UDP, immediate, SIM connection failed
<V> GPRS channel, full parameter set, SNDCP, immediate, SIM connection failed
<W> GPRS channel, full parameter set, UDP, on demand, SIM connection failed
<X> GPRS channel, full parameter set, SNDCP, on demand, SIM connection failed

Variants:

<A>....<X>

Preamble:

<A>ACISAT446A
<B>ACISAT446B
<C>ACISAT444A
<D>ACISAT443C
<E>ACISAT443D
<F>ACISAT446C
<G>ACISAT446D
<H>ACISAT444B
<I>ACISAT443F
<J>ACISAT443G
<K>ACISAT446E
<L>ACISAT446F
<M>ACISAT459A
<N>ACISAT459B
<O>ACISAT459C
<P>ACISAT459D
<Q>ACISAT446A
<R>ACISAT443D
<S>ACISAT446C
<T>ACISAT443F
<U>ACISAT446E
<V>ACISAT459A
<W>ACISAT446F
<X>ACISAT459C



Parametrization:

Primitive	Parameter	Value

(1) SIM_DTI_REQ

<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_TRA_LINK_ID
<D>	link_id	SIM_L2R_LINK_ID
<E>	link_id	SIM_L2R_LINK_ID
<F>	link_id	SIM_UDP_LINK_ID_CSD
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_TRA_LINK_ID
<I>	link_id	SIM_L2R_LINK_ID
<J>	link_id	SIM_L2R_LINK_ID
<K>	link_id	SIM_UDP_LINK_ID_GPRS
<L>	link_id	SIM_UDP_LINK_ID_GPRS
<M>	link_id	SIM_SNDCP_LINK_ID
<N>	link_id	SIM_SNDCP_LINK_ID
<O>	link_id	SIM_SNDCP_LINK_ID
<P>	link_id	SIM_SNDCP_LINK_ID
<Q>	link_id	SIM_UDP_LINK_ID_CSD
<R>	link_id	SIM_L2R_LINK_ID
<S>	link_id	SIM_UDP_LINK_ID_CSD
<T>	link_id	SIM_L2R_LINK_ID
<U>	link_id	SIM_UDP_LINK_ID_GPRS
<V>	link_id	SIM_SNDCP_LINK_ID
<W>	link_id	SIM_UDP_LINK_ID_GPRS
<X>	link_id	SIM_SNDCP_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_OPEN_CONCT
<D>	dti_conn	SIM_DTI_OPEN_CONCT
<E>	dti_conn	SIM_DTI_OPEN_CONCT
<F>	dti_conn	SIM_DTI_CONNECT
<G>	dti_conn	SIM_DTI_CONNECT
<H>	dti_conn	SIM_DTI_CONNECT
<I>	dti_conn	SIM_DTI_CONNECT
<J>	dti_conn	SIM_DTI_CONNECT
<K>	dti_conn	SIM_DTI_OPEN_CONCT
<L>	dti_conn	SIM_DTI_CONNECT
<M>	dti_conn	SIM_DTI_OPEN_CONCT
<N>	dti_conn	SIM_DTI_OPEN_CONCT
<O>	dti_conn	SIM_DTI_CONNECT
<P>	dti_conn	SIM_DTI_CONNECT
<Q>	dti_conn	SIM_DTI_OPEN_CONCT
<R>	dti_conn	SIM_DTI_OPEN_CONCT
<S>	dti_conn	SIM_DTI_CONNECT
<T>	dti_conn	SIM_DTI_CONNECT
<U>	dti_conn	SIM_DTI_OPEN_CONCT
<V>	dti_conn	SIM_DTI_OPEN_CONCT
<W>	dti_conn	SIM_DTI_CONNECT
<X>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
<A>	con_type	SIM_CON_TYPE_UDP
<B>	con_type	SIM_CON_TYPE_UDP
<C>	con_type	SIM_CON_TYPE_SERIAL
<D>	con_type	SIM_CON_TYPE_SERIAL
<E>	con_type	SIM_CON_TYPE_SERIAL
<F>	con_type	SIM_CON_TYPE_UDP

<G>	con_type	SIM_CON_TYPE_UDP
<H>	con_type	SIM_CON_TYPE_SERIAL
<I>	con_type	SIM_CON_TYPE_SERIAL
<J>	con_type	SIM_CON_TYPE_SERIAL
<K>	con_type	SIM_CON_TYPE_UDP
<L>	con_type	SIM_CON_TYPE_UDP
<M>	con_type	SIM_CON_TYPE_IP
<N>	con_type	SIM_CON_TYPE_IP
<O>	con_type	SIM_CON_TYPE_IP
<P>	con_type	SIM_CON_TYPE_IP
<Q>	con_type	SIM_CON_TYPE_UDP
<R>	con_type	SIM_CON_TYPE_SERIAL
<S>	con_type	SIM_CON_TYPE_UDP
<T>	con_type	SIM_CON_TYPE_SERIAL
<U>	con_type	SIM_CON_TYPE_UDP
<V>	con_type	SIM_CON_TYPE_IP
<W>	con_type	SIM_CON_TYPE_UDP
<X>	con_type	SIM_CON_TYPE_IP
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
<A>	local_ip	IPv4_local
<B>	local_ip	IPv4_local
<C>	local_ip	SIM_DTI_REQ_NOT_VALID
<D>	local_ip	SIM_DTI_REQ_NOT_VALID
<E>	local_ip	SIM_DTI_REQ_NOT_VALID
<F>	local_ip	IPv4_local
<G>	local_ip	IPv4_local
<H>	local_ip	SIM_DTI_REQ_NOT_VALID
<I>	local_ip	SIM_DTI_REQ_NOT_VALID
<J>	local_ip	SIM_DTI_REQ_NOT_VALID
<K>	local_ip	IPv4_local
<L>	local_ip	IP_local_dyn
<M>	local_ip	SIM_DTI_REQ_NOT_VALID
<N>	local_ip	SIM_DTI_REQ_NOT_VALID
<O>	local_ip	SIM_DTI_REQ_NOT_VALID
<P>	local_ip	SIM_DTI_REQ_NOT_VALID
<Q>	local_ip	IPv4_local
<R>	local_ip	SIM_DTI_REQ_NOT_VALID
<S>	local_ip	IPv4_local
<T>	local_ip	SIM_DTI_REQ_NOT_VALID
<U>	local_ip	IPv4_local
<V>	local_ip	SIM_DTI_REQ_NOT_VALID
<W>	local_ip	IP_local_dyn
<X>	local_ip	SIM_DTI_REQ_NOT_VALID
<A>	destination_ip	IPv4_dest
<B>	destination_ip	IPv4_dest
<C>	destination_ip	SIM_DTI_REQ_NOT_VALID
<D>	destination_ip	SIM_DTI_REQ_NOT_VALID
<E>	destination_ip	SIM_DTI_REQ_NOT_VALID
<F>	destination_ip	IPv4_dest
<G>	destination_ip	IPv4_dest
<H>	destination_ip	SIM_DTI_REQ_NOT_VALID
<I>	destination_ip	SIM_DTI_REQ_NOT_VALID
<J>	destination_ip	SIM_DTI_REQ_NOT_VALID
<K>	destination_ip	IPv4_dest
<L>	destination_ip	IPv4_dest

<M>	destination_ip	SIM_DTI_REQ_NOT_VALID
<N>	destination_ip	SIM_DTI_REQ_NOT_VALID
<O>	destination_ip	SIM_DTI_REQ_NOT_VALID
<P>	destination_ip	SIM_DTI_REQ_NOT_VALID
<Q>	destination_ip	IPv4_dest
<R>	destination_ip	SIM_DTI_REQ_NOT_VALID
<S>	destination_ip	IPv4_dest
<T>	destination_ip	SIM_DTI_REQ_NOT_VALID
<U>	destination_ip	IPv4_dest
<V>	destination_ip	SIM_DTI_REQ_NOT_VALID
<W>	destination_ip	IPv4_dest
<X>	destination_ip	SIM_DTI_REQ_NOT_VALID
<A>	destination_port	PORT_NUM_01
<B>	destination_port	PORT_NUM_01
<C>	destination_port	SIM_DTI_REQ_NOT_VALID
<D>	destination_port	SIM_DTI_REQ_NOT_VALID
<E>	destination_port	SIM_DTI_REQ_NOT_VALID
<F>	destination_port	PORT_NUM_01
<G>	destination_port	PORT_NUM_01
<H>	destination_port	SIM_DTI_REQ_NOT_VALID
<I>	destination_port	SIM_DTI_REQ_NOT_VALID
<J>	destination_port	SIM_DTI_REQ_NOT_VALID
<K>	destination_port	PORT_NUM_01
<L>	destination_port	PORT_NUM_01
<M>	destination_port	SIM_DTI_REQ_NOT_VALID
<N>	destination_port	SIM_DTI_REQ_NOT_VALID
<O>	destination_port	SIM_DTI_REQ_NOT_VALID
<P>	destination_port	SIM_DTI_REQ_NOT_VALID
<Q>	destination_port	PORT_NUM_01
<R>	destination_port	SIM_DTI_REQ_NOT_VALID
<S>	destination_port	PORT_NUM_01
<T>	destination_port	SIM_DTI_REQ_NOT_VALID
<U>	destination_port	PORT_NUM_01
<V>	destination_port	SIM_DTI_REQ_NOT_VALID
<W>	destination_port	PORT_NUM_01
<X>	destination_port	SIM_DTI_REQ_NOT_VALID
<A>	general_result	RSLT_PERF_SUCCESS
<B>	general_result	RSLT_PERF_MDFY_SIM
<C>	general_result	RSLT_PERF_MDFIED
<D>	general_result	RSLT_PERF_SUCCESS
<E>	general_result	RSLT_PERF_SUCCESS
<F>	general_result	RSLT_PERF_SUCCESS
<G>	general_result	RSLT_PERF_MDFY_SIM
<H>	general_result	RSLT_PERF_SUCCESS
<I>	general_result	RSLT_PERF_SUCCESS
<J>	general_result	RSLT_PERF_SUCCESS
<K>	general_result	RSLT_PERF_SUCCESS
<L>	general_result	RSLT_PERF_MDFIED
<M>	general_result	RSLT_PERF_SUCCESS
<N>	general_result	RSLT_PERF_SUCCESS
<O>	general_result	RSLT_PERF_SUCCESS
<P>	general_result	RSLT_PERF_SUCCESS
<Q>	general_result	RSLT_PERF_SUCCESS
<R>	general_result	RSLT_PERF_SUCCESS
<S>	general_result	RSLT_PERF_SUCCESS
<T>	general_result	RSLT_PERF_SUCCESS

<U>	general_result	RSLT_PERF_SUCCESS
<V>	general_result	RSLT_PERF_SUCCESS
<W>	general_result	RSLT_PERF_MDFIED
<X>	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
<A>	release_time	TIME_10SEC
<B>	release_time	TIME_10SEC
<C>	release_time	TIME_10SEC
<D>	release_time	TIME_10SEC
<E>	release_time	SIM_NO_AUTO_RELEASE
<F>	release_time	TIME_10SEC
<G>	release_time	TIME_10SEC
<H>	release_time	TIME_10SEC
<I>	release_time	TIME_10SEC
<J>	release_time	TIME_10SEC
<K>	release_time	SIM_DTI_REQ_NOT_VALID
<L>	release_time	SIM_DTI_REQ_NOT_VALID
<M>	release_time	SIM_DTI_REQ_NOT_VALID
<N>	release_time	SIM_DTI_REQ_NOT_VALID
<O>	release_time	SIM_DTI_REQ_NOT_VALID
<P>	release_time	SIM_DTI_REQ_NOT_VALID
<Q>	release_time	TIME_10SEC
<R>	release_time	SIM_NO_AUTO_RELEASE
<S>	release_time	TIME_10SEC
<T>	release_time	TIME_10SEC
<U>	release_time	SIM_DTI_REQ_NOT_VALID
<V>	release_time	SIM_DTI_REQ_NOT_VALID
<W>	release_time	SIM_DTI_REQ_NOT_VALID
<X>	release_time	SIM_DTI_REQ_NOT_VALID

(2) UDPA_DTI_REQ

	dti_conn	UDPA_CONNECT_DTI
	entity_name	S_SIM_NAME
<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_TRA_LINK_ID
<D>	link_id	SIM_L2R_LINK_ID
<E>	link_id	SIM_L2R_LINK_ID
<F>	link_id	SIM_UDP_LINK_ID_CSD
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_TRA_LINK_ID
<I>	link_id	SIM_L2R_LINK_ID
<J>	link_id	SIM_L2R_LINK_ID
<K>	link_id	SIM_UDP_LINK_ID_GPRS
<L>	link_id	SIM_UDP_LINK_ID_GPRS
<M>	link_id	SIM_SNDCP_LINK_ID
<N>	link_id	SIM_SNDCP_LINK_ID
<O>	link_id	SIM_SNDCP_LINK_ID
<P>	link_id	SIM_SNDCP_LINK_ID
<Q>	link_id	SIM_UDP_LINK_ID_CSD
<R>	link_id	SIM_L2R_LINK_ID
<S>	link_id	SIM_UDP_LINK_ID_CSD
<T>	link_id	SIM_L2R_LINK_ID
<U>	link_id	SIM_UDP_LINK_ID_GPRS
<V>	link_id	SIM_SNDCP_LINK_ID
<W>	link_id	SIM_UDP_LINK_ID_GPRS
<X>	link_id	SIM_SNDCP_LINK_ID
	dti_direction	UDPA_DTI_TO_HIGHER_LAYER

(3) SIM_DTI_CNF

<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_TRA_LINK_ID
<D>	link_id	SIM_L2R_LINK_ID
<E>	link_id	SIM_L2R_LINK_ID
<F>	link_id	SIM_UDP_LINK_ID_CSD
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_TRA_LINK_ID
<I>	link_id	SIM_L2R_LINK_ID
<J>	link_id	SIM_L2R_LINK_ID
<K>	link_id	SIM_UDP_LINK_ID_GPRS
<L>	link_id	SIM_UDP_LINK_ID_GPRS
<M>	link_id	SIM_SNDCP_LINK_ID
<N>	link_id	SIM_SNDCP_LINK_ID
<O>	link_id	SIM_SNDCP_LINK_ID
<P>	link_id	SIM_SNDCP_LINK_ID
<Q>	link_id	SIM_UDP_LINK_ID_CSD
<R>	link_id	SIM_L2R_LINK_ID
<S>	link_id	SIM_UDP_LINK_ID_CSD
<T>	link_id	SIM_L2R_LINK_ID
<U>	link_id	SIM_UDP_LINK_ID_GPRS
<V>	link_id	SIM_SNDCP_LINK_ID
<W>	link_id	SIM_UDP_LINK_ID_GPRS
<X>	link_id	SIM_SNDCP_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_OPEN_CONCT
<D>	dti_conn	SIM_DTI_OPEN_CONCT
<E>	dti_conn	SIM_DTI_OPEN_CONCT
<F>	dti_conn	SIM_DTI_CONNECT
<G>	dti_conn	SIM_DTI_CONNECT
<H>	dti_conn	SIM_DTI_CONNECT
<I>	dti_conn	SIM_DTI_CONNECT
<J>	dti_conn	SIM_DTI_CONNECT
<K>	dti_conn	SIM_DTI_OPEN_CONCT
<L>	dti_conn	SIM_DTI_CONNECT
<M>	dti_conn	SIM_DTI_OPEN_CONCT
<N>	dti_conn	SIM_DTI_OPEN_CONCT
<O>	dti_conn	SIM_DTI_CONNECT
<P>	dti_conn	SIM_DTI_CONNECT
<Q>	dti_conn	SIM_BIP_OPEN_CHANNEL
<R>	dti_conn	SIM_BIP_OPEN_CHANNEL
<S>	dti_conn	SIM_BIP_OPEN_CHANNEL
<T>	dti_conn	SIM_BIP_OPEN_CHANNEL
<U>	dti_conn	SIM_BIP_OPEN_CHANNEL
<V>	dti_conn	SIM_BIP_OPEN_CHANNEL
<W>	dti_conn	SIM_BIP_OPEN_CHANNEL
<X>	dti_conn	SIM_BIP_OPEN_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1

(4) UDPA_DTI_CNF

	dti_conn	UDPA_CONNECT_DTI
<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_TRA_LINK_ID
<D>	link_id	SIM_L2R_LINK_ID
<E>	link_id	SIM_L2R_LINK_ID
<F>	link_id	SIM_UDP_LINK_ID_CSD
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_TRA_LINK_ID
<I>	link_id	SIM_L2R_LINK_ID
<J>	link_id	SIM_L2R_LINK_ID
<K>	link_id	SIM_UDP_LINK_ID_GPRS
<L>	link_id	SIM_UDP_LINK_ID_GPRS
<M>	link_id	SIM_SNDCP_LINK_ID
<N>	link_id	SIM_SNDCP_LINK_ID
<O>	link_id	SIM_SNDCP_LINK_ID
<P>	link_id	SIM_SNDCP_LINK_ID
<Q>	link_id	SIM_UDP_LINK_ID_CSD
<R>	link_id	SIM_L2R_LINK_ID
<S>	link_id	SIM_UDP_LINK_ID_CSD
<T>	link_id	SIM_L2R_LINK_ID
<U>	link_id	SIM_UDP_LINK_ID_GPRS
<V>	link_id	SIM_SNDCP_LINK_ID
<W>	link_id	SIM_UDP_LINK_ID_GPRS
<X>	link_id	SIM_SNDCP_LINK_ID

History:			
	25.04.2002	AK	Initial
	29.05.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs

3.22.15 ACISAT448: OPEN CHANNEL establishment, CSD/GPRS, suc/unsuc (command termination)

Description:

After the SIM entity is connected, a response will be send to SAT and the command will be terminated for immediate OPEN CHANNEL command. Variant I is an unsuccessful command termination.

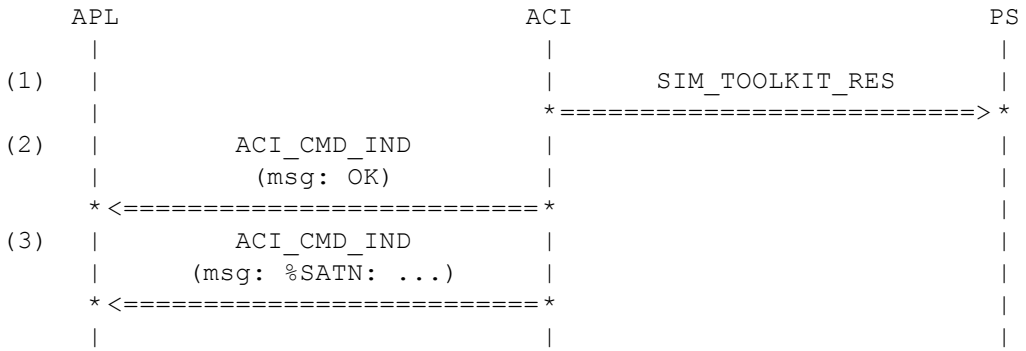
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, transparent, immediate
<D> CSD channel, full parameter set, non-transparent, immediate
<E> CSD channel, default parameters, immediate
<F> GPRS channel, full parameter set, UDP, immediate
<G> GPRS channel, full parameter set, SNDCP, immediate
<H> GPRS channel, default parameters, immediate
<I> GPRS channel, full parameter set, UDP, immediate, CS connection active

Variants:

<A>....<I>

Preamble:

<A>ACISAT447A
<B>ACISAT447B
<C>ACISAT444A
<D>ACISAT462A
<E>ACISAT462B
<F>ACISAT447K
<G>ACISAT459A
<H>ACISAT459B
<I>ACISAT432Q



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_OPCH_CSD_A
<B>	stk_cmd	SAT_RES_OPCH_CSD_B
<C>	stk_cmd	SAT_RES_OPCH_CSD_C
<D>	stk_cmd	SAT_RES_OPCH_CSD_D
<E>	stk_cmd	SAT_RES_OPCH_CSD_E
<F>	stk_cmd	SAT_RES_OPCH_GPRS_F
<G>	stk_cmd	SAT_RES_OPCH_GPRS_G
<H>	stk_cmd	SAT_RES_OPCH_GPRS_H
<I>	stk_cmd	SAT_RES_OPCH_GPRS_I
(2) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<B>	cmd_len	LM_OK
<C>	cmd_len	LM_OK
<D>	cmd_len	LM_OK
<E>	cmd_len	LM_OK
<F>	cmd_len	LM_OK
<G>	cmd_len	LM_OK
<H>	cmd_len	LM_OK
<I>	cmd_len	LM_ERROR
<A>	cmd_seq	M_OK
<B>	cmd_seq	M_OK
<C>	cmd_seq	M_OK
<D>	cmd_seq	M_OK
<E>	cmd_seq	M_OK
<F>	cmd_seq	M_OK
<G>	cmd_seq	M_OK
<H>	cmd_seq	M_OK
<I>	cmd_seq	M_ERROR

(3) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_A
<B>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_B
<C>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_C
<D>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_D
<E>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_E
<F>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_F
<G>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_G
<H>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_H
<I>	cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_I
<A>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_A
<B>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_B
<C>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_C
<D>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_D
<E>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_E
<F>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_F
<G>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_G
<H>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_H
<I>	cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_I

History: 25.04.2002 AK Initial

3.22.16 ACISAT449: OPEN CHANNEL establishment, CSD, rejected by network

Description:

Call establishment failed, due to busy subscriber

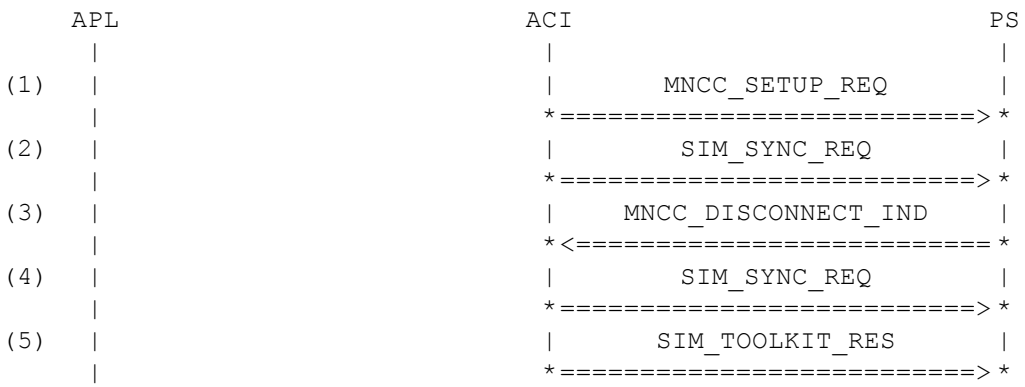
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, default parameters, immediate
<D> CSD channel, full parameter set, UDP, immediate, modified by call control SIM

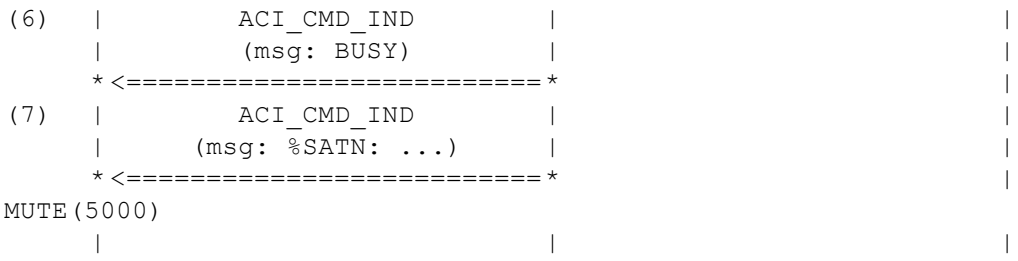
Variants:

<A>....<D>

Preamble:

<A>ACISAT432A
<B>ACISAT432B
<C>ACISAT432D
<D>ACISAT432O





Parametrization:

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ		
		ti NUM_0
		prio PRIO_NORM_CALL
		ri RI_NOT_PRES
<A>		bcpara S_BS_DAT_9600_ASY_NON_TRA
<B>		bcpara S_BS_DAT_9600_ASY_TRA
<C>		bcpara
	S_BS_DAT_9600_ASY_NON_TRA_V32	
<D>		bcpara S_BS_DAT_9600_ASY_NON_TRA
		bcpara2 S_BS_NOT_PRESENT
<A>		called_party S_CLD_PARTY
<B>		called_party S_CLD_PARTY
<C>		called_party S_CLD_PARTY
<D>		called_party S_CLD_PARTY_MDFY
<A>		called_party_sub S_CLD_PARTY_SUB
<B>		called_party_sub S_CLD_PARTY_SUB
<C>		called_party_sub S_CLD_PARTY_SUB
<D>		called_party_sub
	S_CLD_PARTY_SUB_MDFY	
		clir_sup NOT_PRESENT_8BIT
		fac_inf NOT_USED
(2) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(3) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	NOT_USED
	progress_desc	PROG_NOT_PRES
(4) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(5) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_CSD_NTW_ERR
(6) ACI_CMD_IND		
	cmd_len	LM_BUSY
	cmd_seq	M_BUSY
(7) ACI_CMD_IND		
	cmd_len	
	LM_PERCENT_SATN_RES_OPCH_CSD_NTW_ERR	
	cmd_seq	
	M_PERCENT_SATN_RES_OPCH_CSD_NTW_ERR	

History: 15.05.2002 AK Initial

3.22.17 ACISAT450: OPEN CHANNEL establishment, CSD, user abort

Description:

The call establishment is aborted by the user. SAT is informed about the unsuccessful operation.

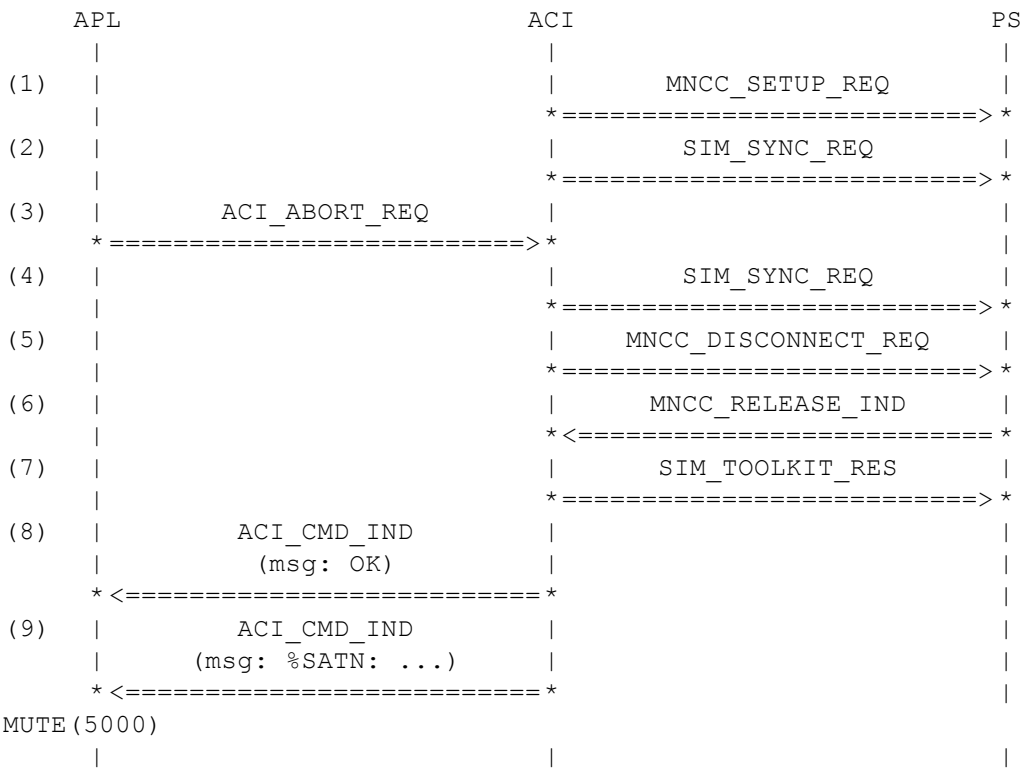
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, full parameter set, non-transparent, immediate
<D> CSD channel, default parameters, immediate
<E> CSD channel, full parameter set, UDP, immediate, modified by call control SIM

Variants:

<A>....<E>

Preamble:

<A>ACISAT432A
<B>ACISAT432B
<C>ACISAT432C
<D>ACISAT432D
<E>ACISAT432O



Parametrization:

Primitive	Parameter	Value
(8) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
<A>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
<B>	bcpara	S_BS_DAT_9600_ASY_TRA
<C>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
<D>	bcpara	S_BS_DAT_9600_ASY_NON_TRA_V32
<E>	bcpara	S_BS_DAT_9600_ASY_NON_TRA
	bcpara2	S_BS_NOT_PRESENT
<A>	called_party	S_CLD_PARTY
<B>	called_party	S_CLD_PARTY
<C>	called_party	S_CLD_PARTY
<D>	called_party	S_CLD_PARTY
<E>	called_party	S_CLD_PARTY_MDFY
<A>	called_party_sub	S_CLD_PARTY_SUB
<B>	called_party_sub	S_CLD_PARTY_SUB
<C>	called_party_sub	S_CLD_PARTY_SUB
<D>	called_party_sub	S_CLD_PARTY_SUB
<E>	called_party_sub	S_CLD_PARTY_SUB_MDFY
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(9) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(10) ACI_ABORT_REQ		
	cmd_src	CMD_SRC_EXT
	cause	ABT_ABORT_CMD
(11) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(12) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(13) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(14) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_OPCH_CSD_USR_ABT
<B>	stk_cmd	SAT_RES_OPCH_CSD_USR_ABT
<C>	stk_cmd	SAT_RES_OPCH_CSD_USR_ABT_2
<D>	stk_cmd	SAT_RES_OPCH_CSD_USR_ABT
<E>	stk_cmd	SAT_RES_OPCH_CSD_USR_ABT
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(16) ACI_CMD_IND

<A>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<B>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<C>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT_2
<D>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<E>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<A>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<B>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<C>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT_2
<D>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
<E>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_USR_ABT

History:	15.05.2002	AK	Initial)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter

3.22.18 ACISAT451: OPEN CHANNEL establ, CSD, PPP_TERMINATE_IND received before PPP_ESTABLISH_CNF

Description:

PPP_TERMINATE_IND received before (or instead of) PPP_ESTABLISH_CNF during setup CSD channel

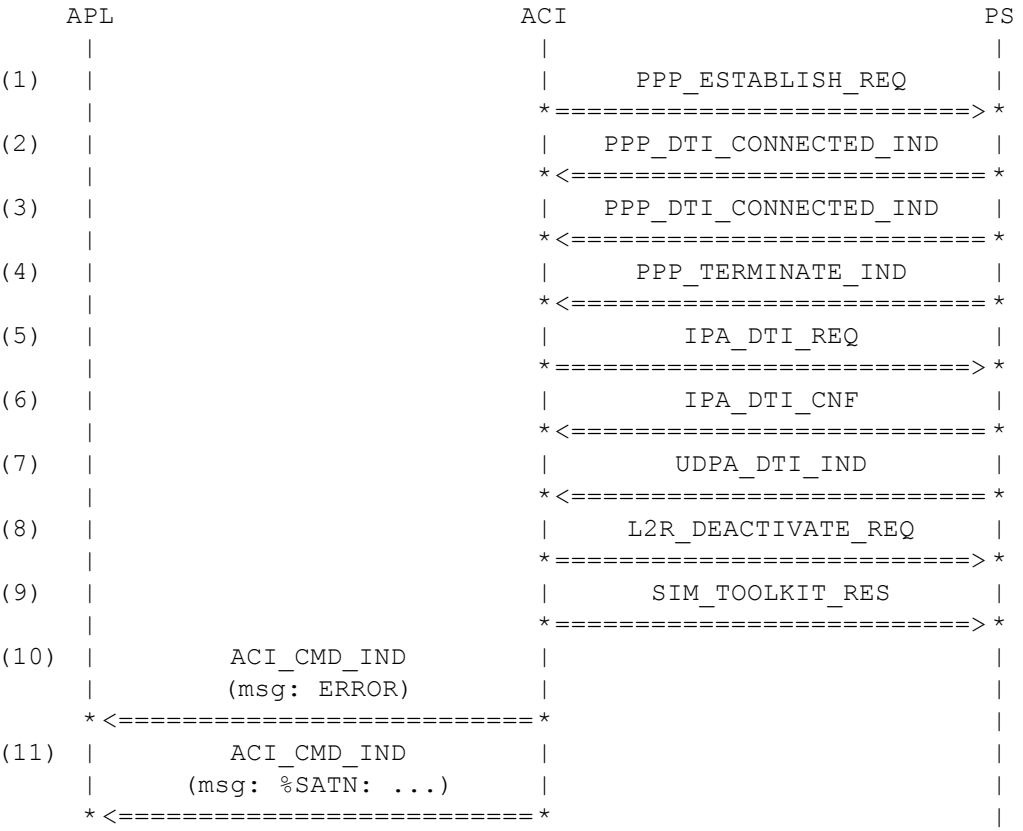
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM

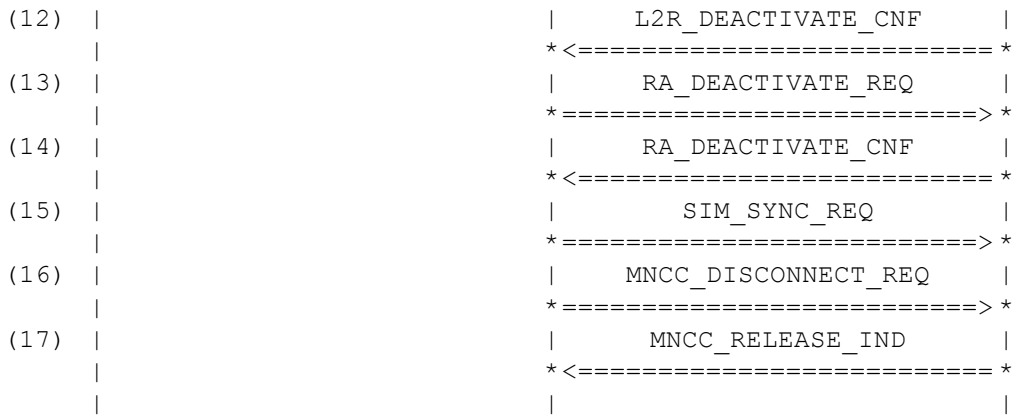
Variants:

<A>....<B>

Preamble:

<A>ACISAT443A
<B>ACISAT443B





Parametrization:

Primitive	Parameter	Value
(1) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_LOWER_LAYER
	prot_direction	TO_HIGHER_LAYER
	peer_link_id	PPP_L2R_LINK_ID
	prot_link_id	IP_PPP_LINK_ID
(2) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(3) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(4) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(6) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID

(7) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(8) L2R_DEACTIVATE_REQ		
(9) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_CSD_UAB_PRF
(10) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(11) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF
(12) L2R_DEACTIVATE_CNF		
(13) RA_DEACTIVATE_REQ		
(14) RA_DEACTIVATE_CNF		
(15) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(16) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(17) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History:	21.05.2002	Ak	Initial)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.22.19 ACISAT452: OPEN CHANNEL establ, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF

Description:

L2R_DISC_IND received before L2R_CONNECT_CNF during setup CSD channel

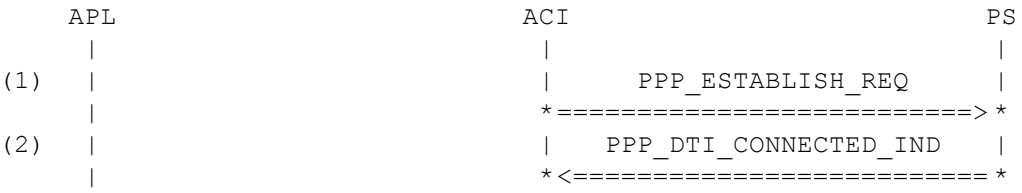
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM

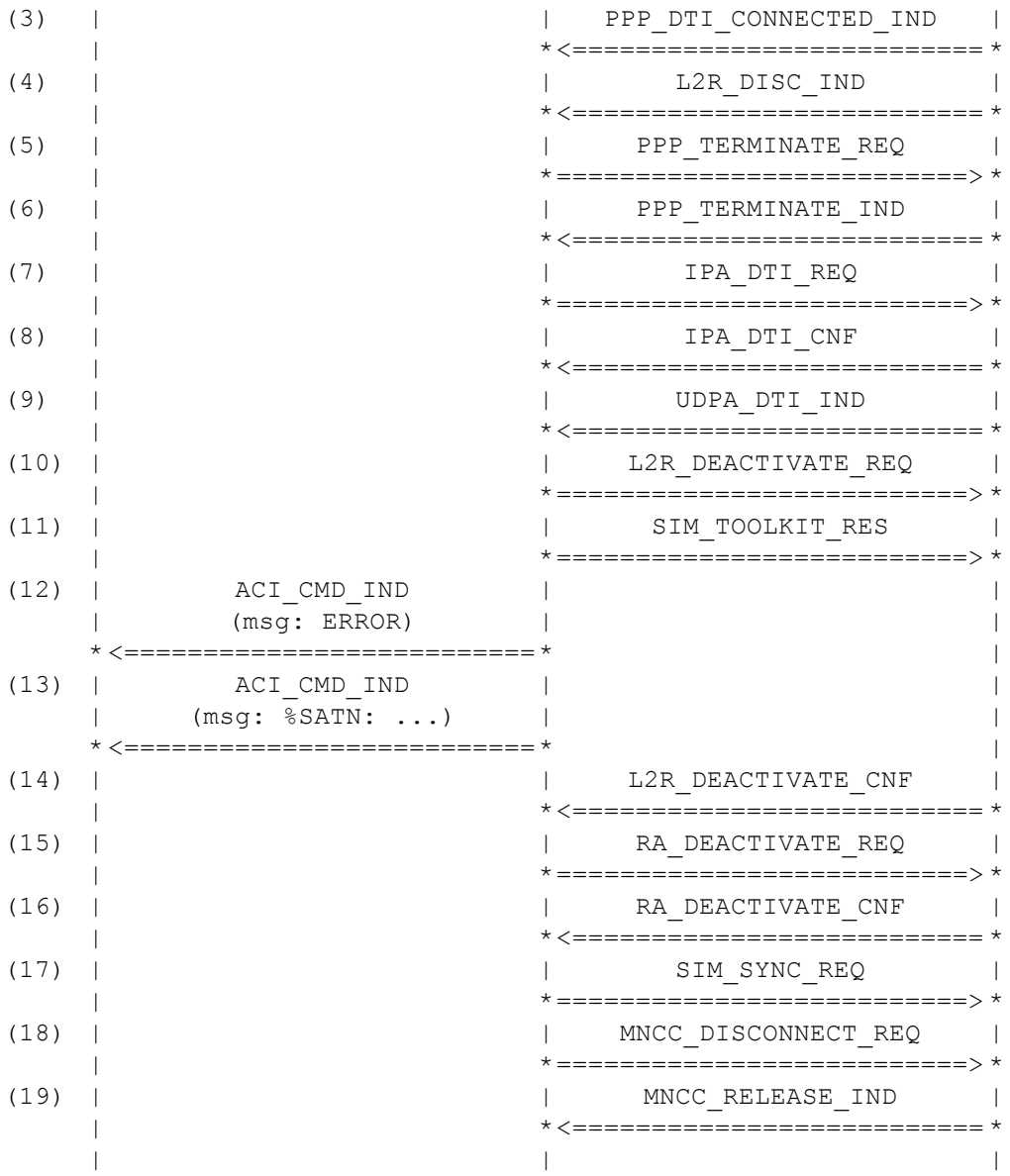
Variants:

<A>....<B>

Preamble:

<A>ACISAT443A
<B>ACISAT443B




(3)
PPP_DTI_CONNECTED_IND
(4)
L2R_DISC_IND
(5)
PPP_TERMINATE_REQ
(6)
PPP_TERMINATE_IND
(7)
IPA_DTI_REQ
(8)
IPA_DTI_CNF
(9)
UDPA_DTI_IND
(10)
L2R_DEACTIVATE_REQ
(11)
SIM_TOOLKIT_RES
(12)
ACI_CMD_IND
(msg: ERROR)
(13)
ACI_CMD_IND
(msg: %SATN: ...)
(14)
L2R_DEACTIVATE_CNF
(15)
RA_DEACTIVATE_REQ
(16)
RA_DEACTIVATE_CNF
(17)
SIM_SYNC_REQ
(18)
MNCC_DISCONNECT_REQ
(19)
MNCC_RELEASE_IND

Parametrization:

Primitive	Parameter	Value
(1) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_LOWER_LAYER
	prot_direction	TO_HIGHER_LAYER
	peer_link_id	PPP_L2R_LINK_ID
	prot_link_id	IP_PPP_LINK_ID
(2) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(3) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(4) L2R_DISC_IND		
(5) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_DOWN
(6) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_MMI
(7) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(8) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(9) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(10) L2R_DEACTIVATE_REQ		
(11) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_CSD_UAB_PRF
(12) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

(13) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF

(14) L2R_DEACTIVATE_CNF

(15) RA_DEACTIVATE_REQ

(16) RA_DEACTIVATE_CNF

(17) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(18) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	FACILITY_NONE
ss_version	SS_VER_NOT_PRES

(19) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.22.20 ACISAT453: OPEN CHANNEL establ, CSD, L2R_DISC_IND received at once after L2R_CONNECT_CNF

Description:

L2R_DISC_IND received before L2R_CONNECT_CNF during setup CSD channel

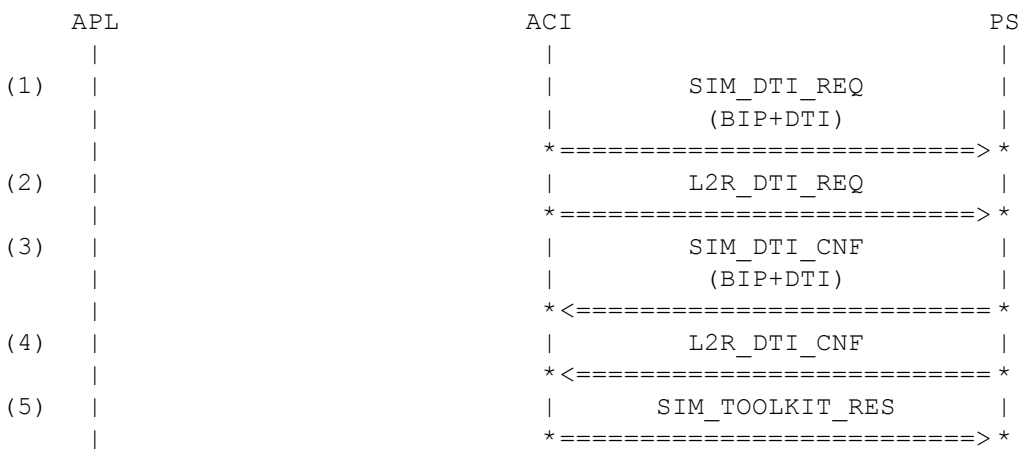
<A> CSD channel, full parameter set, non-transparent, immediate
<B> CSD channel, default parameters, immediate

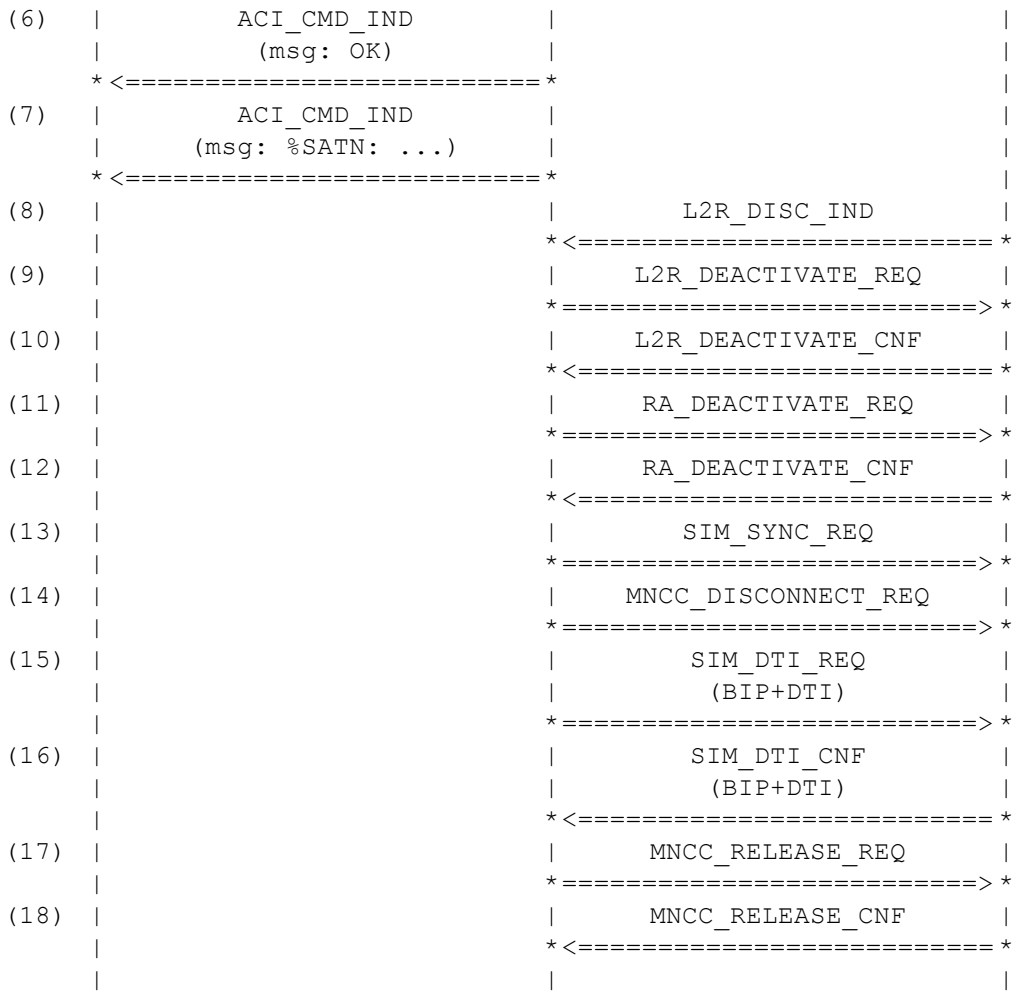
Variants:

<A>....<B>

Preamble:

<A>ACISAT443C
<B>ACISAT443D





Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_OPEN_CONCT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
<A>	release_time	TIME_10SEC
<B>	release_time	SIM_NO_AUTO_RELEASE
(2) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	SIM_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL

(3) SIM_DTI_CNF		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_OPEN_CONCT
	bip_ch_id	CHANNEL_SRC_ID1
(4) L2R_DTI_CNF		
	dti_conn	L2R_CONNECT_DTI
	link_id	SIM_L2R_LINK_ID
(5) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_OPCH_CSD_D
<B>	stk_cmd	SAT_RES_OPCH_CSD_E
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_D
<B>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_E
<A>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_D
<B>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_E
(8) L2R_DISC_IND		
(9) L2R_DEACTIVATE_REQ		
(10) L2R_DEACTIVATE_CNF		
(11) RA_DEACTIVATE_REQ		
(12) RA_DEACTIVATE_CNF		
(13) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(14) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(15) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_BIP_CHAN_CLOSD
	release_time	SIM_DTI_REQ_NOT_VALID
(16) SIM_DTI_CNF		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1

(17) MNCC_RELEASE_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	A_FAC_EMPTY
ss_version	NOT_USED

(18) MNCC_RELEASE_CNF

ti	NUM_0
cause	MNCC_CAUSE_NO_MS_CAUSE

History:			
	22.05.2002	AK	Initial
	13.06.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new SAPs

3.22.21 ACISAT454: OPEN CHANNEL establ, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF

Description:

L2R_ERROR_IND received before L2R_CONNECT_CNF during setup CSD channel

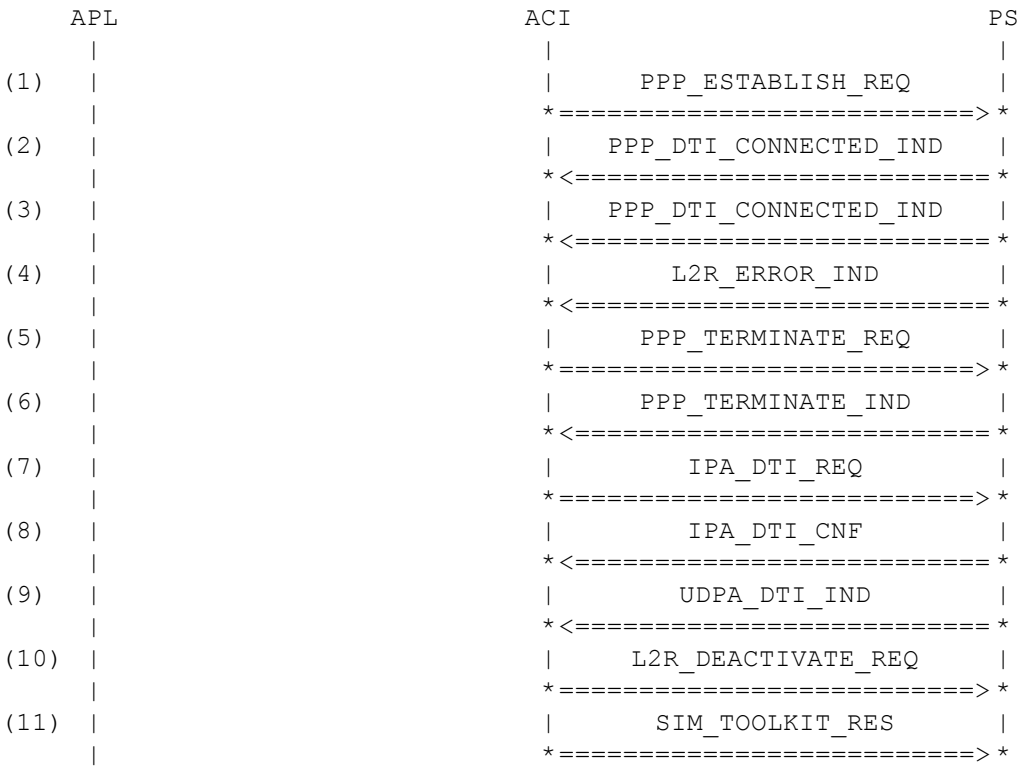
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM

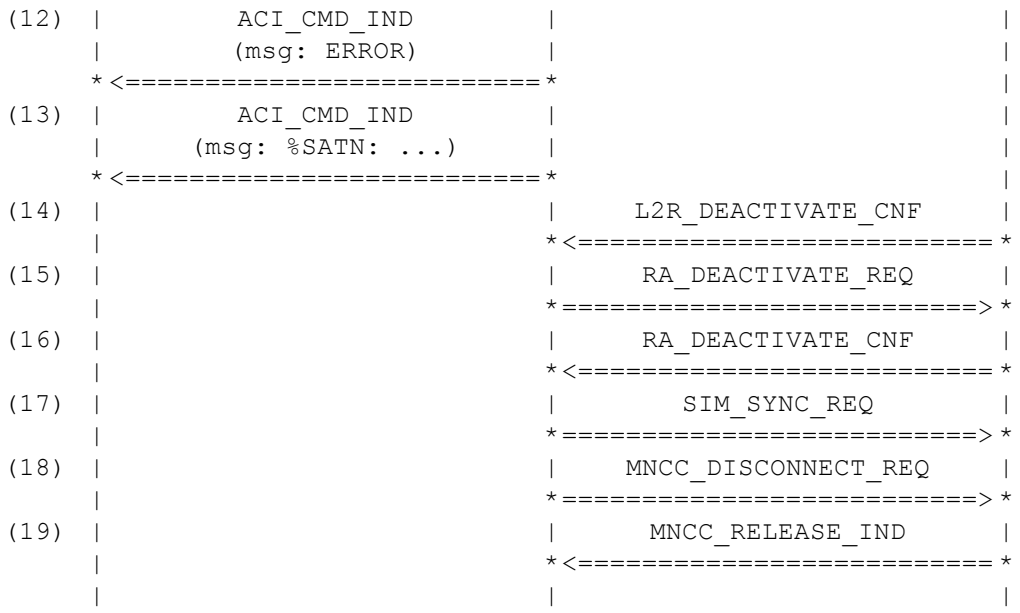
Variants:

<A>....<B>

Preamble:

<A>ACISAT443A
<B>ACISAT443B





Parametrization:

Primitive	Parameter	Value
(1) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	NOT_USED
	protocol_channel	NOT_USED
	peer_direction	TO_LOWER_LAYER
	prot_direction	TO_HIGHER_LAYER
	peer_link_id	PPP_L2R_LINK_ID
	prot_link_id	IP_PPP_LINK_ID
(2) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(3) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(4) L2R_ERROR_IND		
	cause	NOT_USED
(5) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_DOWN

(6) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_MMI
(7) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(8) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(9) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(10) L2R_DEACTIVATE_REQ		
(11) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_CSD_UAB_PRF
(12) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(13) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_USR_ABT
	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_UAB_PRF
(14) L2R_DEACTIVATE_CNF		
(15) RA_DEACTIVATE_REQ		
(16) RA_DEACTIVATE_CNF		
(17) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(18) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(19) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History:			
	22.05.2002	AK	Initial
	23.08.2002	RM	Update, changed L2R SAP)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.22.22 ACISAT455: OPEN CHANNEL establ, CSD, L2R_ERROR_IND received at once after L2R_CONNECT_CNF

Description:

L2R_ERROR_IND received before L2R_CONNECT_CNF during setup CSD channel

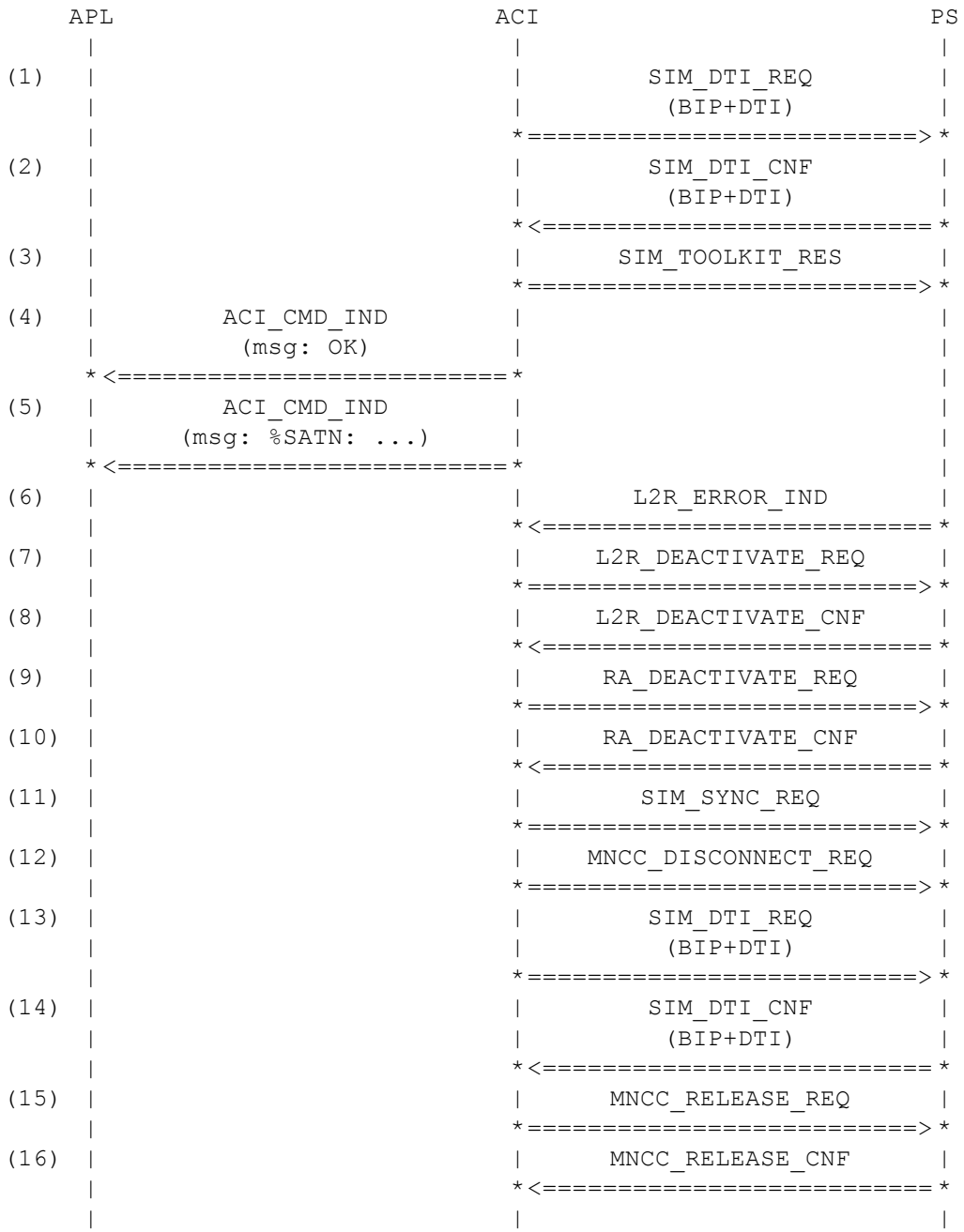
<A> CSD channel, full parameter set, non-transparent, immediate
<B> CSD channel, default parameters, immediate

Variants:

<A>....<B>

Preamble:

<A>ACISAT443C
<B>ACISAT443D



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_OPEN_CONCT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
<A>	release_time	TIME_10SEC
<B>	release_time	SIM_NO_AUTO_RELEASE
(2) SIM_DTI_CNF		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_OPEN_CONCT
	bip_ch_id	CHANNEL_SRC_ID1
(3) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_OPCH_CSD_D
<B>	stk_cmd	SAT_RES_OPCH_CSD_E
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_D
<B>	cmd_len	LM_PERCENT_SATN_RES_OPCH_CSD_E
<A>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_D
<B>	cmd_seq	M_PERCENT_SATN_RES_OPCH_CSD_E
(6) L2R_ERROR_IND		
	cause	NOT_USED
(7) L2R_DEACTIVATE_REQ		
(8) L2R_DEACTIVATE_CNF		
(9) RA_DEACTIVATE_REQ		
(10) RA_DEACTIVATE_CNF		
(11) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(12) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES

(13) SIM_DTI_REQ

link_id	SIM_L2R_LINK_ID
dti_conn	SIM_DTI_CLOSE_DISC
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	NOT_USED
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_BEARIND_PERR
add_info_result	ADD_BIP_CHAN_CLOSD
release_time	SIM_DTI_REQ_NOT_VALID

(14) SIM_DTI_CNF

link_id	SIM_L2R_LINK_ID
dti_conn	SIM_DTI_CLOSE_DISC
bip_ch_id	CHANNEL_SRC_ID1

(15) MNCC_RELEASE_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	A_FAC_EMPTY
ss_version	NOT_USED

(16) MNCC_RELEASE_CNF

ti	NUM_0
cause	MNCC_CAUSE_NO_MS_CAUSE

History:			
	22.05.2002	AK	Initial
	14.06.2002	RM	Update
	23.08.2002	RM	Update, changed L2R SAP)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.03.2003	TLU	Adaptation to new SAPs

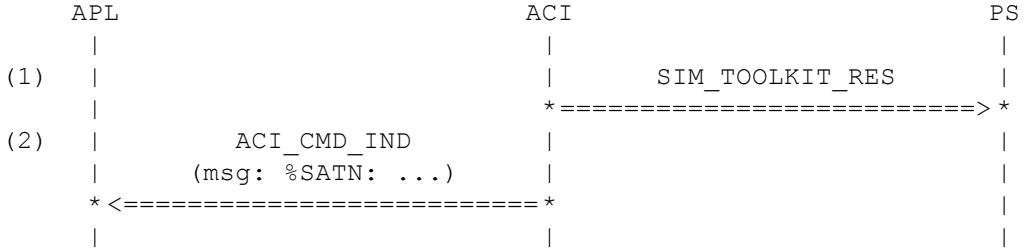
3.22.23 ACISAT456: OPEN CHANNEL unsuccessful (command termination)

Description:

A response will be send to SAT and the command will be terminated to indicate problems with the execution of the Open Channel command.

Preamble:

ACISAT430P



Parametrization:

Primitive	Parameter	Value
(4) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_ME_CAP
(5) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_OPCH_ME_CAP
	cmd_seq	M_PERCENT_SATN_RES_OPCH_ME_CAP

History: 24.05.2002 AK Initial

3.22.24 ACISAT457: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (context activation) B FAIL

Description:

After the UDP stack is active, the context will be activated.

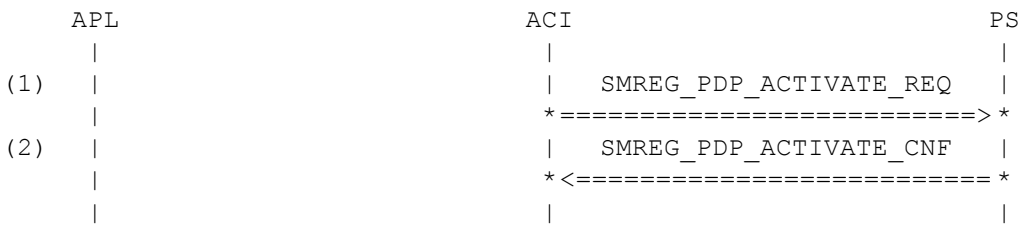
<A> GPRS channel, full parameter set, UDP, immediate
<B> GPRS channel, full parameter set, UDP, on demand
<C> GPRS channel, full parameter set, SNDCP, immediate
<D> GPRS channel, default parameters, immediate
<E> GPRS channel, full parameter set, SNDCP, on demand
<F> GPRS channel, default parameters, on demand

Variants:

<A>....<F>

Preamble:

<A>ACISAT441E
<B>ACISAT441F
<C>ACISAT432J
<D>ACISAT432K
<E>ACISAT411F
<F>ACISAT411G



Parametrization:

Primitive	Parameter	Value
(1) SMREG_PDP_ACTIVATE_REQ		
	direc	DIREC_MO
	ppp_hc	PPP_HC_OFF
<A>	msid	MSID_NULL
<B>	msid	MSID_NO
<C>	msid	MSID_NULL
<D>	msid	MSID_NULL
<E>	msid	MSID_NULL
<F>	msid	MSID_NULL
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
<A>	smreg_qos	SMREG_QOS_1
<B>	smreg_qos	SMREG_QOS_1
<C>	smreg_qos	SMREG_QOS_1
<D>	smreg_qos	SMREG_QOS_DEF
<E>	smreg_qos	SMREG_QOS_1
<F>	smreg_qos	SMREG_QOS_DEF
	smreg_min_qos	SMREG_QOS_DEF
	smreg_nsapi	SMREG_NSAPI_5
	smreg_ti	NUM_FF
<A>	pdp_address	PDP_ADDRESS_1
<B>	pdp_address	PDP_ADDRESS_DYN
<C>	pdp_address	PDP_ADDRESS_DYN
<D>	pdp_address	PDP_ADDRESS_DYN
<E>	pdp_address	PDP_ADDRESS_DYN
<F>	pdp_address	PDP_ADDRESS_DYN
<A>	smreg_apn	SMREG_APN_1
<B>	smreg_apn	SMREG_APN_1
<C>	smreg_apn	SMREG_APN_1
<D>	smreg_apn	SMREG_APN_EMPTY
<E>	smreg_apn	SMREG_APN_1
<F>	smreg_apn	SMREG_APN_EMPTY
<A>	dti_linkid	IP_SNDCP_LINK_ID
<B>	dti_linkid	IP_SNDCP_LINK_ID
<C>	dti_linkid	NULL_SNDCP_LINK_ID
<D>	dti_linkid	NULL_SNDCP_LINK_ID
<E>	dti_linkid	NULL_SNDCP_LINK_ID
<F>	dti_linkid	NULL_SNDCP_LINK_ID
	dti_neighbor	NOT_USED
	dti_direction	SMREG_NEIGHBOR
	sdu	NOT_USED

(2) SMREG_PDP_ACTIVATE_CNF

	ppp_hc	PPP_HC_OFF
<A>	msid	MSID_NO
<B>	msid	MSID_NO
<C>	msid	MSID_NULL
<D>	msid	MSID_NULL
<E>	msid	MSID_NULL
<F>	msid	MSID_NULL
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
<A>	smreg_qos	SMREG_QOS_1
<B>	smreg_qos	SMREG_QOS_MDFY
<C>	smreg_qos	SMREG_QOS_1
<D>	smreg_qos	SMREG_QOS_1
<E>	smreg_qos	SMREG_QOS_1
<F>	smreg_qos	SMREG_QOS_1
	smreg_nsapi	SMREG_NSAPI_5
	pdp_address	PDP_ADDRESS_1
	sdu	SDU

History: 24.05.2002 AK Initial

3.22.25 ACISAT458: OPEN CHANNEL establishment, GPRS, rejected by network FAIL

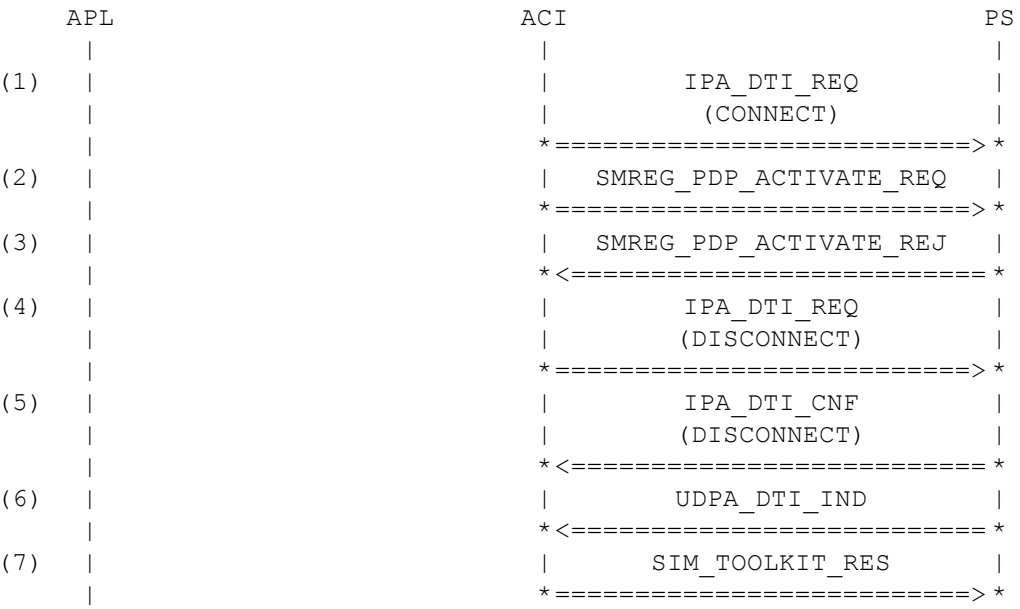
Description:

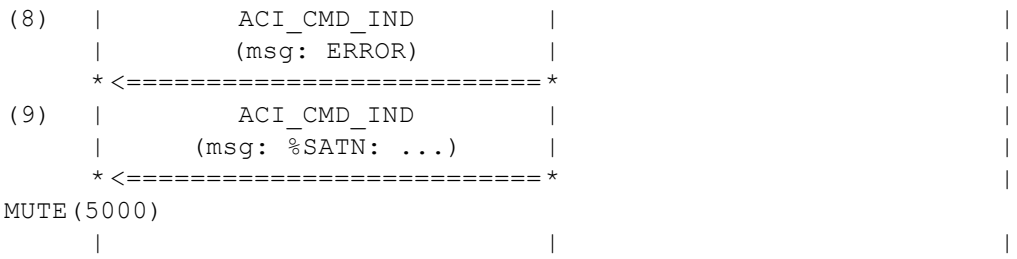
Context activation failed, due to

GPRS channel, full parameter set, UDP, immediate

Preamble:

ACISAT441E





Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_SND_NAME
	link_id	IP_SNDCP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) SMREG_PDP_ACTIVATE_REQ		
	direc	DIREC_MO
	ppp_hc	PPP_HC_OFF
	msid	MSID_NULL
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
	smreg_qos	SMREG_QOS_1
	smreg_min_qos	SMREG_QOS_DEF
	smreg_nsapi	SMREG_NSAPI_5
	smreg_ti	NUM_FF
	pdp_address	PDP_ADDRESS_1
	smreg_apn	SMREG_APN_1
	dti_linkid	IP_SNDCP_LINK_ID
	dti_neighbor	NOT_USED
	dti_direction	SMREG_NEIGHBOR
	sdu	NOT_USED
(3) SMREG_PDP_ACTIVATE_REJ		
	smreg_cause	SMREG_RC_NETWORK_FAILURE
	smreg_nsapi	SMREG_NSAPI_5
(4) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(5) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(6) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(7) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_OPCH_GPRS_NTW_ERR
(8) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

(9) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OPCH_GPRS_NTW_ERR
cmd_seq	M_PERCENT_SATN_RES_OPCH_GPRS_NTW_ERR

History:	29.05.2002	AK	Initial
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.22.26 ACISAT459: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (SNDCP switch)

Description:

After the SNDCP-NULL connection is active, switch to SNDCP-SIM connection.

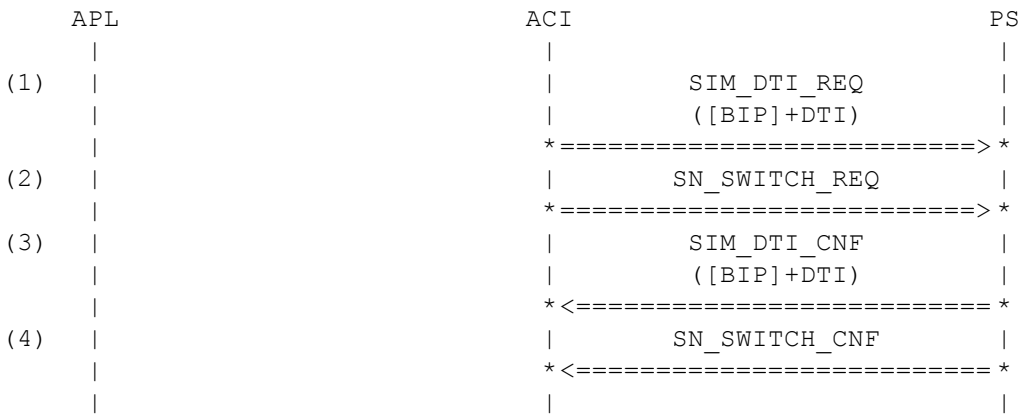
<A> GPRS channel, full parameter set, SNDCP, immediate
<B> GPRS channel, default parameters, immediate
<C> GPRS channel, full parameter set, SNDCP, on demand
<D> GPRS channel, default parameters, on demand

Variants:

<A>....<F>

Preamble:

<A>ACISAT457C
<B>ACISAT457D
<C>ACISAT457E
<D>ACISAT457F
<E>ACISAT457C
<F>ACISAT457E



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_SNDCP_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_CONNECT
<D>	dti_conn	SIM_DTI_CONNECT
<E>	dti_conn	SIM_DTI_OPEN_CONCT
<F>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_IP
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_DTI_REQ_NOT_VALID
(2) SN_SWITCH_REQ		
	nsapi	SMREG_NSAPI_5
	dti_linkid	SIM_SNDCP_LINK_ID
	dti_neighbor	STRING_POINTER
	dti_direction	SMREG_NEIGHBOR
(3) SIM_DTI_CNF		
	link_id	SIM_SNDCP_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_CONNECT
<D>	dti_conn	SIM_DTI_CONNECT
<E>	dti_conn	SIM_BIP_OPEN_CHANNEL
<F>	dti_conn	SIM_BIP_OPEN_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
(4) SN_SWITCH_CNF		
	nsapi	SMREG_NSAPI_5

History: 30.05.2002 RM Initial

3.22.27 ACISAT460: OPEN CHANNEL, suspend/resume of GPRS channel

Description:

After several SEND DATA commands, a CS call will be established by the user. The GPRS channel will be suspended. The CS call will be disconnected and the GPRS channel will be resumed.

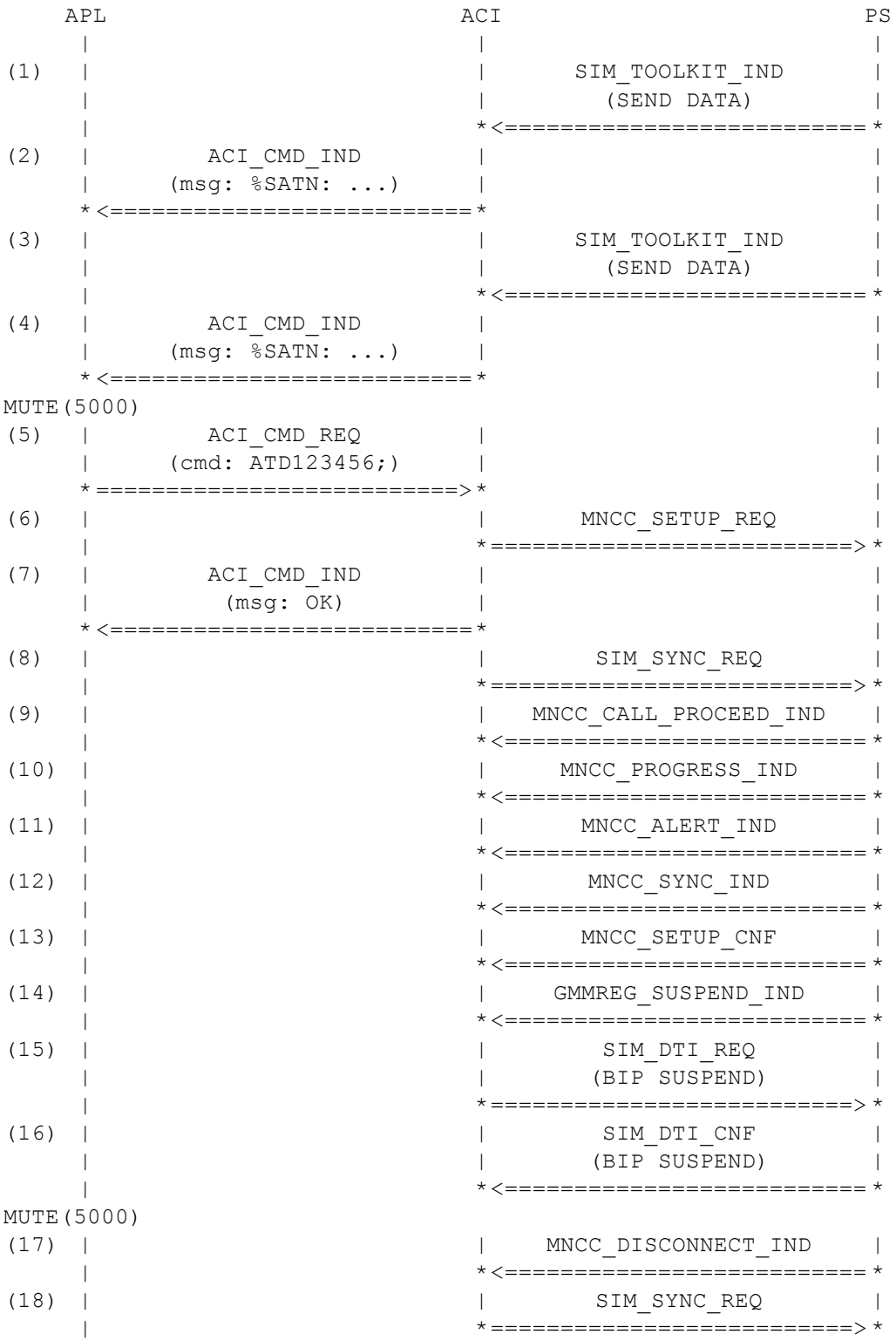
<A> GPRS channel, full parameter set, UDP, immediate
<B> GPRS channel, full parameter set, SNDCP, on demand

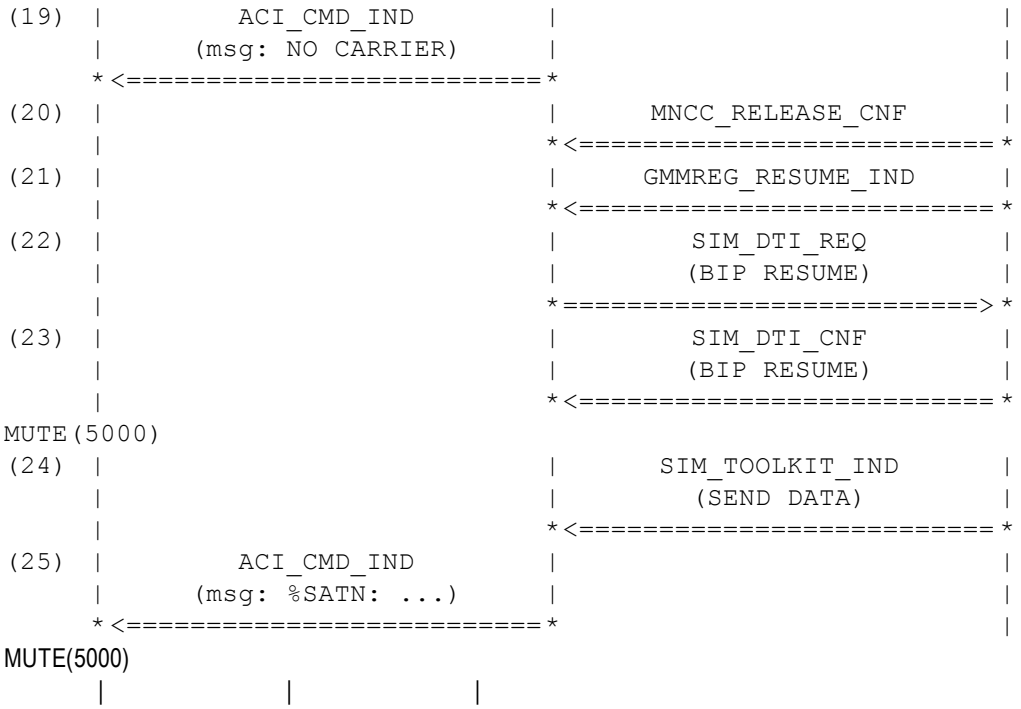
Variants:

<A>...<B>

Preamble:

<A>ACISAT448F
<B>ACISAT459C





Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SND_DAT_OD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
	cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SND_DAT_IM
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_IM
	cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_IM
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(6) 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
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(8) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(9) 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
(10) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(12) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_SPEECH
(13) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(14) GMMREG_SUSPEND_IND		
	cell_state	GMMREG_CS_CALL
(15) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CHANNEL_SUSPENDED
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_REQ_NOT_VALID
	entity_name	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_ME_UNAB_PROC
	add_info_result	ADD_ME_CALL_BUSY
	release_time	SIM_DTI_REQ_NOT_VALID
(16) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CHANNEL_SUSPENDED
	bip_ch_id	CHANNEL_SRC_ID1
(17) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(18) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL

(19) ACI_CMD_IND

cmd_len	LM_NO_CARRIER
cmd_seq	M_NO_CARRIER

(20) MNCC_RELEASE_CNF

ti	NUM_0
cause	MNCC_CAUSE_NO_MS_CAUSE

(21) GMMREG_RESUME_IND

(22) SIM_DTI_REQ

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CHANNEL_RESUMED
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_REQ_NOT_VALID
entity_name	SIM_DTI_REQ_NOT_VALID
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_PERF_SUCCESS
add_info_result	ADD_NO_CAUSE
release_time	SIM_DTI_REQ_NOT_VALID

(23) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CHANNEL_RESUMED
bip_ch_id	CHANNEL_SRC_ID1

(24) SIM_TOOLKIT_IND

stk_cmd	SAT_CMD_SND_DAT_OD

(25) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD

History:			
	14.05.2002	AK	Initial
	26.08.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs and new DTI manager

3.22.28 ACISAT461: OPEN CHANNEL SIM disconnect after SIM connection failure

Description:

After SIM has reported a problem during a connection attempt, the channel will be closed and the command terminated.

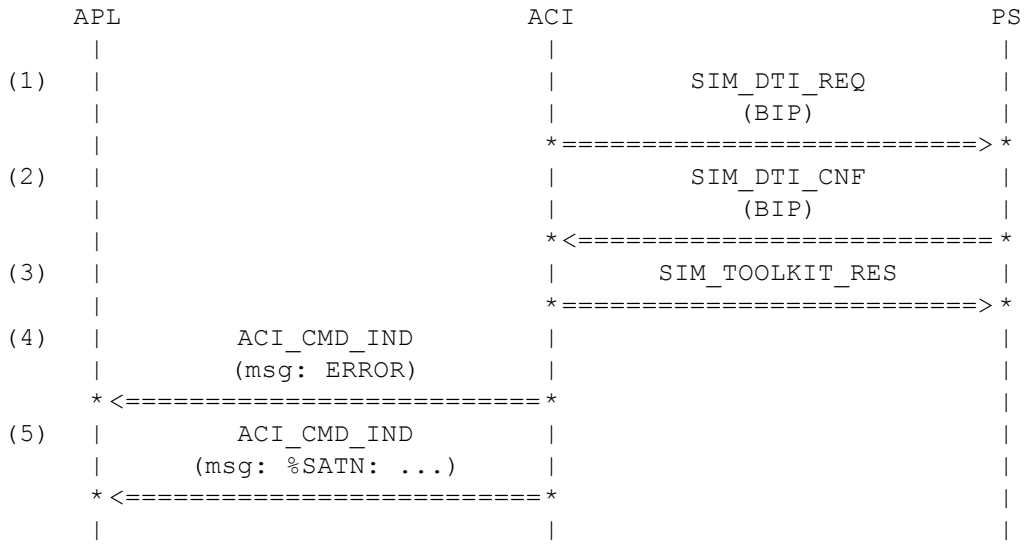
<A> CSD channel, full parameter set, UDP, immediate, SIM connection failed
<B> GPRS channel, full parameter set, UDP, immediate, SIM connection failed
<C> GPRS channel, full parameter set, SNDCP, immediate, SIM connection failed

Variants:

<A>....<C>

Preamble:

<A>ACISAT447Q
<B>ACISAT447U
<C>ACISAT459E



Parametrization:

	Primitive	Parameter	Value
(1)	SIM_DTI_REQ		
		link_id	NOT_USED
		dti_conn	SIM_BIP_CLOSE_CHANNEL
		bip_ch_id	CHANNEL_SRC_ID1
		con_type	SIM_DTI_REQ_NOT_VALID
		dti_direction	SIM_DTI_NORMAL
		entity_name	NOT_USED
		local_ip	SIM_DTI_REQ_NOT_VALID
		destination_ip	SIM_DTI_REQ_NOT_VALID
		destination_port	SIM_DTI_REQ_NOT_VALID
		general_result	RSLT_BEARIND_PERR
		add_info_result	ADD_BIP_NO_CHAN_AVAIL
		release_time	SIM_DTI_REQ_NOT_VALID
(2)	SIM_DTI_CNF		
		link_id	NUM_0
		dti_conn	SIM_BIP_CLOSE_CHANNEL
		bip_ch_id	CHANNEL_SRC_ID1
(3)	SIM_TOOLKIT_RES		
		stk_cmd	SAT_RES_OPCH_BIP_ERR
(4)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR
(5)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_RES_OPCH_BIP_ERR
		cmd_seq	M_PERCENT_SATN_RES_OPCH_BIP_ERR

History:			
	14.05.2002	AK	Initial
	12.06.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs and new DTI manager

3.22.29 ACISAT462: OPEN CHANNEL/SEND DATA establishment, CSD, successful (L2R part)

Description:

The 2R data entity will be connected to SIM.
CSD channel, full parameter set, non-transparent, immediate

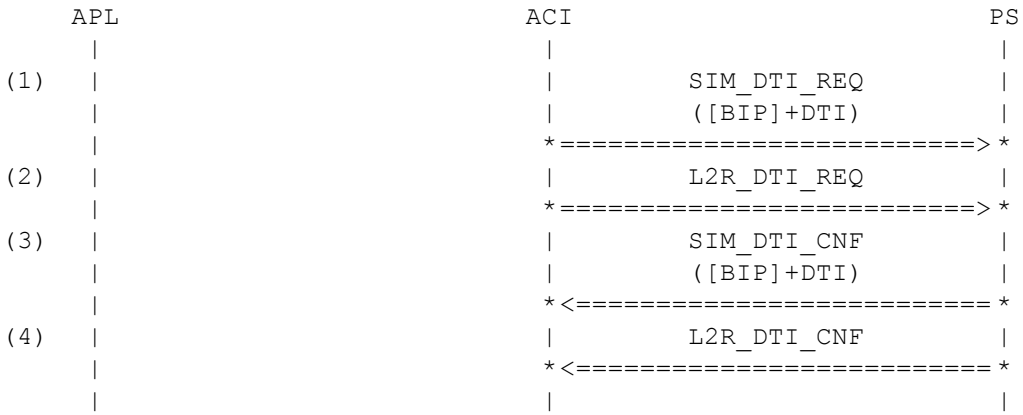
<A> CSD channel, full parameter set, non-transparent, immediate
<B> CSD channel, default parameters, immediate
<C> CSD channel, full parameter set, non-transparent, on demand
<D> CSD channel, default parameters, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT443C
<B>ACISAT443D
<C>ACISAT443F
<D>ACISAT443G



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_CONNECT
<D>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
<A>	release_time	TIME_10SEC
<B>	release_time	SIM_DTI_REQ_NOT_VALID
<C>	release_time	TIME_10SEC
<D>	release_time	TIME_10SEC
(2) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	SIM_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(3) SIM_DTI_CNF		
	link_id	SIM_L2R_LINK_ID
<A>	dti_conn	SIM_DTI_OPEN_CONCT
<B>	dti_conn	SIM_DTI_OPEN_CONCT
<C>	dti_conn	SIM_DTI_CONNECT
<D>	dti_conn	SIM_DTI_CONNECT
	bip_ch_id	CHANNEL_SRC_ID1
(4) L2R_DTI_CNF		
	dti_conn	L2R_CONNECT_DTI
	link_id	SIM_L2R_LINK_ID

History:	04.04.2003	TLU	Initial

3.22.30 ACISAT463: OPEN CHANNEL/SEND DATA establishment, GPRS, successful (context activation)

Description:

After the UDP stack is active, the context will be activated.

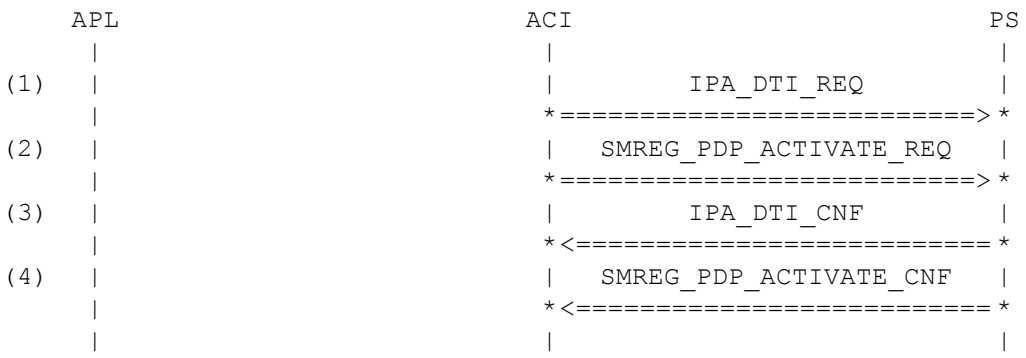
<A> GPRS channel, full parameter set, UDP, immediate
<B> GPRS channel, full parameter set, UDP, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT441E
<B>ACISAT441F



Parametrization:

Primitive	Parameter	Value
(1) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_SND_NAME
	link_id	IP_SNDCP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(2) SMREG_PDP_ACTIVATE_REQ		
	direc	DIREC_MO
	ppp_hc	PPP_HC_OFF
<A>	msid	MSID_NULL
<B>	msid	MSID_NULL
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
<A>	smreg_qos	SMREG_QOS_1
<B>	smreg_qos	SMREG_QOS_1
	smreg_min_qos	SMREG_QOS_DEF
	smreg_nsapi	SMREG_NSAPI_5
	smreg_ti	NUM_FF
<A>	pdp_address	PDP_ADDRESS_1
<B>	pdp_address	PDP_ADDRESS_DYN
<A>	smreg_apn	SMREG_APN_1
<B>	smreg_apn	SMREG_APN_1
<A>	dti_linkid	IP_SNDCP_LINK_ID
<B>	dti_linkid	IP_SNDCP_LINK_ID
	dti_neighbor	NOT_USED
	dti_direction	SMREG_NEIGHBOR
	sdu	NOT_USED
(3) IPA_DTI_CNF		
	dti_conn	IPA_CONNECT_DTI
	link_id	IP_SNDCP_LINK_ID

(4) SMREG_PDP_ACTIVATE_CNF

	ppp_hc	PPP_HC_OFF
<A>	msid	MSID_NO
<B>	msid	MSID_NO
	dcomp	SMREG_COMP_NEITHER_DIRECT
	hcomp	SMREG_COMP_NEITHER_DIRECT
	pdp_type	IP_V_4
<A>	smreg_qos	SMREG_QOS_1
<B>	smreg_qos	SMREG_QOS_MDFY
	smreg_nsapi	SMREG_NSAPI_5
	pdp_address	PDP_ADDRESS_1
	sdu	SDU

History: 07.04.2003 TLU Initial

3.23 SAT Close Channel command (ACISAT 470-)

3.23.1 ACISAT470: CLOSE CHANNEL, notification to APL

Description:

After several SEND DATA commands, SAT sends a CLOSE CHANNEL command. The user will be notified about all commands.

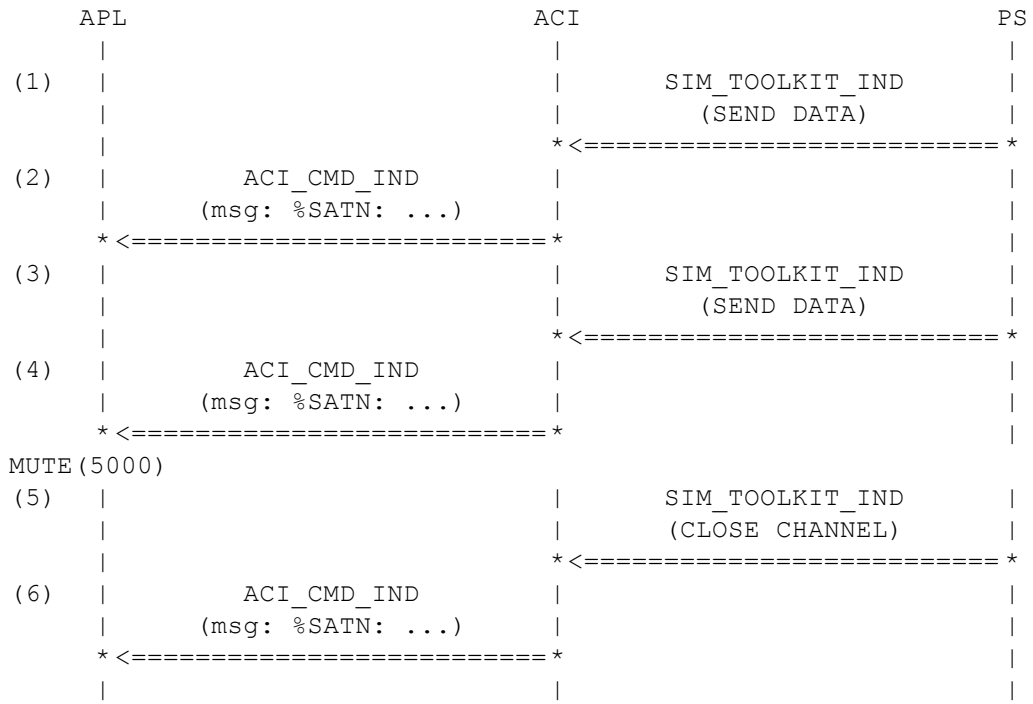
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, transparent, immediate
<D> CSD channel, full parameter set, non-transparent, immediate
<E> CSD channel, default parameters, immediate
<F> CSD channel, full parameter set, UDP, on demand
<G> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<H> CSD channel, full parameter set, transparent, on demand
<I> CSD channel, full parameter set, non-transparent, on demand
<J> CSD channel, default parameters, on demand
<K> GPRS channel, full parameter set, UDP, immediate
<L> GPRS channel, full parameter set, UDP, on demand
<M> GPRS channel, full parameter set, SNDCP, immediate
<N> GPRS channel, default parameters, immediate
<O> GPRS channel, full parameter set, SNDCP, on demand
<P> GPRS channel, default parameters, on demand

Variants:

<A>...<P>

Preamble:

<A>ACISAT448A
<B>ACISAT448B
<C>ACISAT448C
<D>ACISAT448D
<E>ACISAT448E
<F>ACISAT447F
<G>ACISAT447G
<H>ACISAT4444B
<I>ACISAT462C
<J>ACISAT462D
<K>ACISAT448F
<L>ACISAT447L
<M>ACISAT448G
<N>ACISAT448H
<O>ACISAT459C
<P>ACISAT459D



Parametrization:

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SND_DAT_OD
(2) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
	cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_SND_DAT_IM

(4) ACI_CMD_IND

	cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_IM
	cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_IM
(3) SIM_TOOLKIT_IND		
	stk_cmd	SAT_CMD_CLCH
(4) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_CMD_CLCH
	cmd_seq	M_PERCENT_SATN_CMD_CLCH

History: 14.05.2002 AK Initial

3.23.2 ACISAT471: CLOSE CHANNEL disconnect, CSD/GPRS, successful (SIM disconnect) G to J FAIL

Description:

After the Close Channel command has been received, ACI starts to disconnect the SIM entity

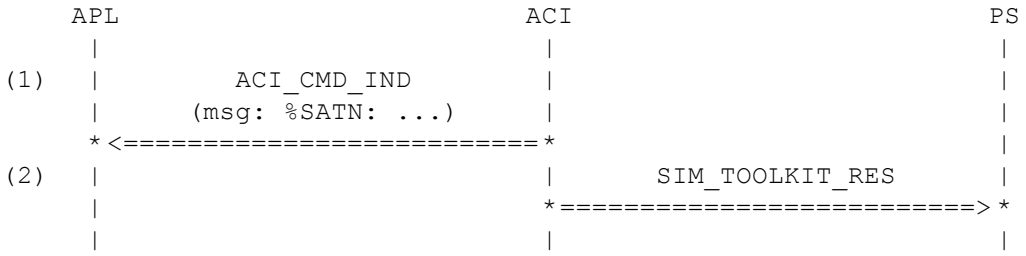
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> GPRS channel, full parameter set, UDP, immediate
<F> GPRS channel, full parameter set, UDP, on demand
<G> GPRS channel, full parameter set, SNDCP, immediate
<H> GPRS channel, default parameters, immediate
<I> GPRS channel, full parameter set, SNDCP, on demand
<J> GPRS channel, default parameters, on demand

Variants:

<A>....<J>

Preamble:

<A>ACISAT470A
<B>ACISAT470B
<C>ACISAT470F
<D>ACISAT470G
<E>ACISAT470K
<F>ACISAT470L
<G>ACISAT470M
<H>ACISAT470N
<I>ACISAT470O
<J>ACISAT470P



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_IND		
<A>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<B>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<C>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<D>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<E>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<F>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<G>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<H>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<I>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<J>	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
<A>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<B>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<C>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<D>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<E>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<F>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<G>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<H>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<I>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
<J>	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
(2) SIM_TOOLKIT_RES		
<A>	stk_cmd	SAT_RES_CLCH_CSD
<B>	stk_cmd	SAT_RES_CLCH_CSD
<C>	stk_cmd	SAT_RES_CLCH_CSD
<D>	stk_cmd	SAT_RES_CLCH_CSD
<E>	stk_cmd	SAT_RES_CLCH_CSD
<F>	stk_cmd	SAT_RES_CLCH_CSD
<G>	stk_cmd	SAT_RES_CLCH_CSD
<H>	stk_cmd	SAT_RES_CLCH_CSD
<I>	stk_cmd	SAT_RES_CLCH_CSD
<J>	stk_cmd	SAT_RES_CLCH_CSD

History:			
	14.05.2002	AK	Initial
	04.06.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs

3.23.3 ACISAT472: CLOSE CHANNEL disconnect, CSD, successful (PPP disconnect) variant F FAIL

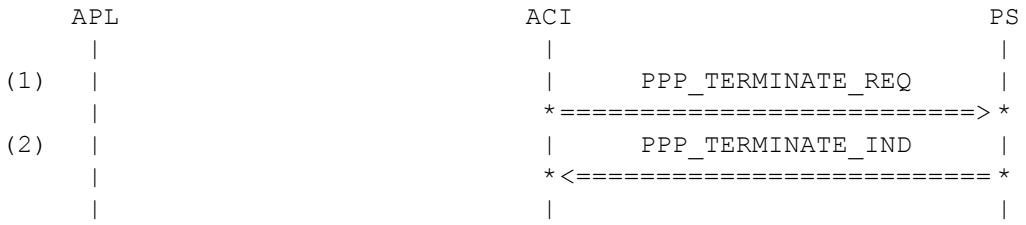
Description:

After the SIM entity has been disconnected, ACI starts to disconnect the PPP entity

<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> CSD channel, full parameter set, UDP, immediate, after SIM connection failure
<F> CSD channel, full parameter set, UDP, on demand, after SIM connection failure
<G> CSD channel, full parameter set, UDP, immediate, after SIM disconnection indication

Variants:
<A>....<G>

Preamble:
<A>ACISAT4711A
<B>ACISAT4711B
<C>ACISAT4711C
<D>ACISAT4711D
<E>ACISAT4611A
<F>ACISAT4475
<G>ACISAT4804



Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_UP
(2) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_PEER

History: 14.05.2002 AK Initial

3.23.4 ACISAT473: CLOSE CHANNEL disconnect, CSD/GPRS, successful (UDP disconnect) all variants FAIL

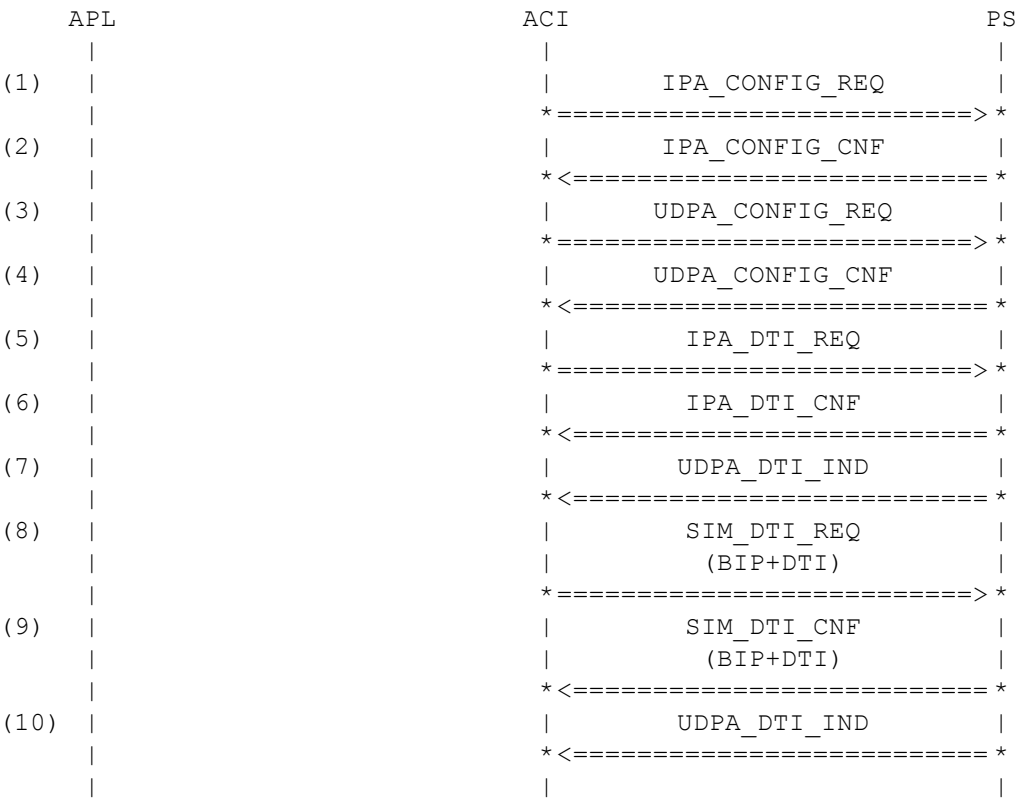
Description:
After the PPP entity has been disconnected, ACI starts to disconnect the UDP entity

<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> GPRS channel, full parameter set, UDP, immediate
<F> GPRS channel, full parameter set, UDP, on demand
<G> CSD channel, full parameter set, UDP, immediate, after SIM connection failure
<H> GPRS channel, full parameter set, UDP, immediate, after SIM connection failure
<I> CSD channel, full parameter set, UDP, on demand, after SIM connection failure
<J> GPRS channel, full parameter set, UDP, on demand, after SIM connection failure
<K> CSD channel, full parameter set, UDP, immediate, after SIM disconnection indication
<L> GPRS channel, full parameter set, UDP, immediate, after SIM disconnection indication

Variants:
<A>....<L>

Preamble:

<A>ACISAT472A
<B>ACISAT472B
<C>ACISAT472C
<D>ACISAT472D
<E>ACISAT477A
<F>ACISAT477B
<G>ACISAT472E
<H>ACISAT477G
<I>ACISAT472F
<J>ACISAT477I
<K>ACISAT472G



Parametrization:

Primitive	Parameter	Value
(1) IPA_CONFIG_REQ		
	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(2) IPA_CONFIG_CNF		
	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(3) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(4) UDPA_CONFIG_CNF		

(5) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(6) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(7) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(8) SIM_DTI_REQ		
<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_UDP_LINK_ID_CSD
<D>	link_id	SIM_UDP_LINK_ID_CSD
<E>	link_id	SIM_UDP_LINK_ID_GPRS
<F>	link_id	SIM_UDP_LINK_ID_GPRS
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_UDP_LINK_ID_GPRS
<I>	link_id	SIM_UDP_LINK_ID_CSD
<J>	link_id	SIM_UDP_LINK_ID_GPRS
<K>	link_id	SIM_UDP_LINK_ID_CSD
<A>	dti_conn	SIM_DTI_CLOSE_DISC
<B>	dti_conn	SIM_DTI_CLOSE_DISC
<C>	dti_conn	SIM_DTI_CLOSE_DISC
<D>	dti_conn	SIM_DTI_CLOSE_DISC
<E>	dti_conn	SIM_DTI_CLOSE_DISC
<F>	dti_conn	SIM_DTI_CLOSE_DISC
<G>	dti_conn	SIM_DTI_CLOSE_DISC
<H>	dti_conn	SIM_DTI_CLOSE_DISC
<I>	dti_conn	SIM_DTI_CLOSE_DISC
<J>	dti_conn	SIM_DTI_CLOSE_DISC
<K>	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_DTI_REQ_NOT_VALID

(9) SIM_DTI_CNF

<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_UDP_LINK_ID_CSD
<D>	link_id	SIM_UDP_LINK_ID_CSD
<E>	link_id	SIM_UDP_LINK_ID_GPRS
<F>	link_id	SIM_UDP_LINK_ID_GPRS
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_UDP_LINK_ID_GPRS
<I>	link_id	SIM_UDP_LINK_ID_CSD
<J>	link_id	SIM_UDP_LINK_ID_GPRS
<K>	link_id	SIM_UDP_LINK_ID_CSD
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1

(10) UDPA_DTI_IND

<A>	link_id	SIM_UDP_LINK_ID_CSD
<B>	link_id	SIM_UDP_LINK_ID_CSD
<C>	link_id	SIM_UDP_LINK_ID_CSD
<D>	link_id	SIM_UDP_LINK_ID_CSD
<E>	link_id	SIM_UDP_LINK_ID_GPRS
<F>	link_id	SIM_UDP_LINK_ID_GPRS
<G>	link_id	SIM_UDP_LINK_ID_CSD
<H>	link_id	SIM_UDP_LINK_ID_GPRS
<I>	link_id	SIM_UDP_LINK_ID_CSD
<J>	link_id	SIM_UDP_LINK_ID_GPRS
<K>	link_id	SIM_UDP_LINK_ID_CSD

History:	14.05.2002	AK	Initial
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs

3.23.5 ACISAT474: CLOSE CHANNEL disconnect, CSD, successful (L2R disconnect) All FAIL

Description:

After the UDP entity has been disconnected, ACI starts to disconnect the L2R entity

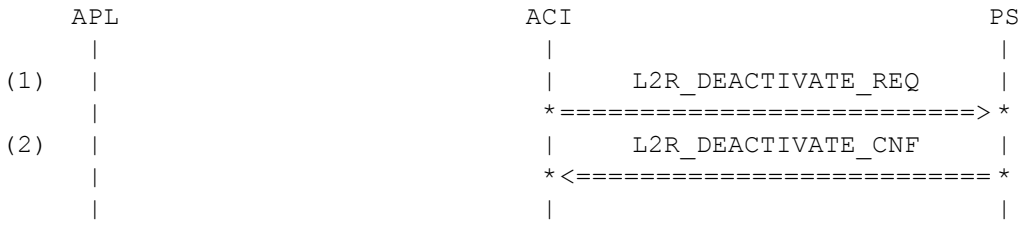
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> CSD channel, full parameter set, UDP, immediate, after SIM connection failure
<F> CSD channel, full parameter set, UDP, on demand, after SIM connection failure
<G> CSD channel, full parameter set, UDP, immediate, after SIM disconnection indication

Variants:

<A>....<G>

Preamble:

<A>ACISAT473A
<B>ACISAT473B
<C>ACISAT473C
<D>ACISAT473D
<E>ACISAT473G
<F>ACISAT473I
<G>ACISAT473K



Parametrization:

Primitive	Parameter	Value

(10) L2R_DEACTIVATE_REQ

(11) L2R_DEACTIVATE_CNF

History:	14.05.2002	AK	Initial
	12.06.2002	RM	Update

3.23.6 ACISAT475: CLOSE CHANNEL disconnect, CSD, successful (RA disconnect) All FAIL

Description:

After the L2R entity has been disconnected, ACI starts to disconnect the RA entity

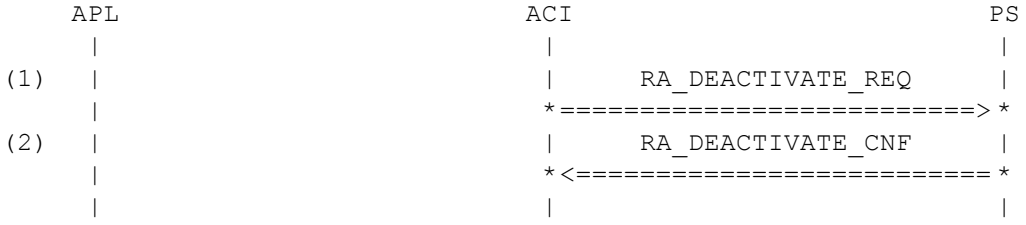
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> CSD channel, full parameter set, UDP, immediate, after SIM connection failure
<F> CSD channel, full parameter set, UDP, on demand, after SIM connection failure
<G> CSD channel, full parameter set, UDP, immediate, after SIM disconnection indication

Variants:

<A>....<G>

Preamble:

<A>ACISAT474A
<B>ACISAT474B
<C>ACISAT474C
<D>ACISAT474D
<E>ACISAT474E
<F>ACISAT474F
<G>ACISAT474G



Parametrization:

Primitive	Parameter	Value

(1) RA_DEACTIVATE_REQ

(2) RA_DEACTIVATE_CNF

History:	14.05.2002	AK	Initial
	12.06.2002	RM	Update

3.23.7 ACISAT476: CLOSE CHANNEL disconnect, CSD, successful (Call disconnect) All FAIL

Description:

After the RA entity has been disconnected, ACI starts to disconnect the call

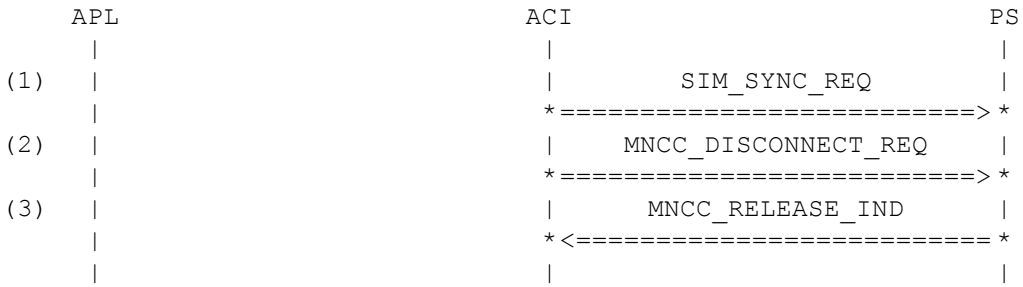
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, UDP, immediate, modified by call control SIM
<C> CSD channel, full parameter set, UDP, on demand
<D> CSD channel, full parameter set, UDP, on demand, modified by call control SIM
<E> CSD channel, full parameter set, UDP, immediate, after SIM connection failure
<F> CSD channel, full parameter set, UDP, on demand, after SIM connection failure
<G> CSD channel, full parameter set, UDP, immediate, after SIM disconnection indication

Variants:

<A>....<G>

Preamble:

<A>ACISAT475A
<B>ACISAT475B
<C>ACISAT475C
<D>ACISAT475D
<E>ACISAT475E
<F>ACISAT475F
<G>ACISAT475G



Parametrization:

Primitive	Parameter	Value
(1) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(2) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(3) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

History:	14.05.2002	AK	Initial
	12.06.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter

3.23.8 ACISAT477: CLOSE CHANNEL disconnect, GPRS, successful (context deactivation) C to F and I and J FAIL

Description:

ACI starts to close the GPRS channel by deactivating the PDP context

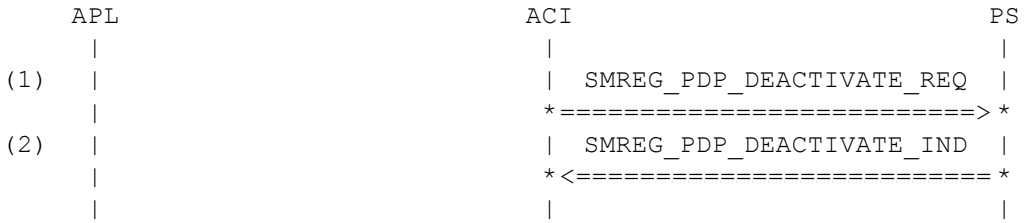
<A> GPRS channel, full parameter set, UDP, immediate
<B> GPRS channel, full parameter set, UDP, on demand
<C> GPRS channel, full parameter set, SNDCP, immediate
<D> GPRS channel, default parameters, immediate
<E> GPRS channel, full parameter set, SNDCP, on demand
<F> GPRS channel, default parameters, on demand
<G> GPRS channel, full parameter set, UDP, immediate, after SIM connection failure
<H> GPRS channel, full parameter set, SNDCP, immediate, after SIM connection failure
<I> GPRS channel, full parameter set, UDP, on demand, after SIM connection failure
<J> GPRS channel, full parameter set, SNDCP, on demand, after SIM connection failure
<K> GPRS channel, full parameter set, UDP, immediate, after SIM disconnection indication
<L> GPRS channel, full parameter set, SNDCP, immediate, after SIM disconnection indication

Variants:

<A>....<L>

Preamble:

<A>ACISAT471E
<B>ACISAT471F
<C>ACISAT471G
<D>ACISAT471H
<E>ACISAT471I
<F>ACISAT471J
<G>ACISAT461B
<H>ACISAT461C
<I>ACISAT447W
<J>ACISAT459F
<K>ACISAT480D
<L>ACISAT480E



Parametrization:

Primitive	Parameter	Value
(1) SMREG_PDP_DEACTIVATE_REQ		
	nsapi_set	NSAPI_SET_NSAPI_5
	smreg_local	SMREG_NONLOCAL

(2) SMREG_PDP_DEACTIVATE_IND nsapi_set NSAPI_SET_NSAPI_5

History: 28-May-02 AK Initial

3.23.9 ACISAT478: CLOSE CHANNEL disconnect, CSD, successful (L2R part, best cases) All FAIL

Description:

The L2R data entity has been disconnected

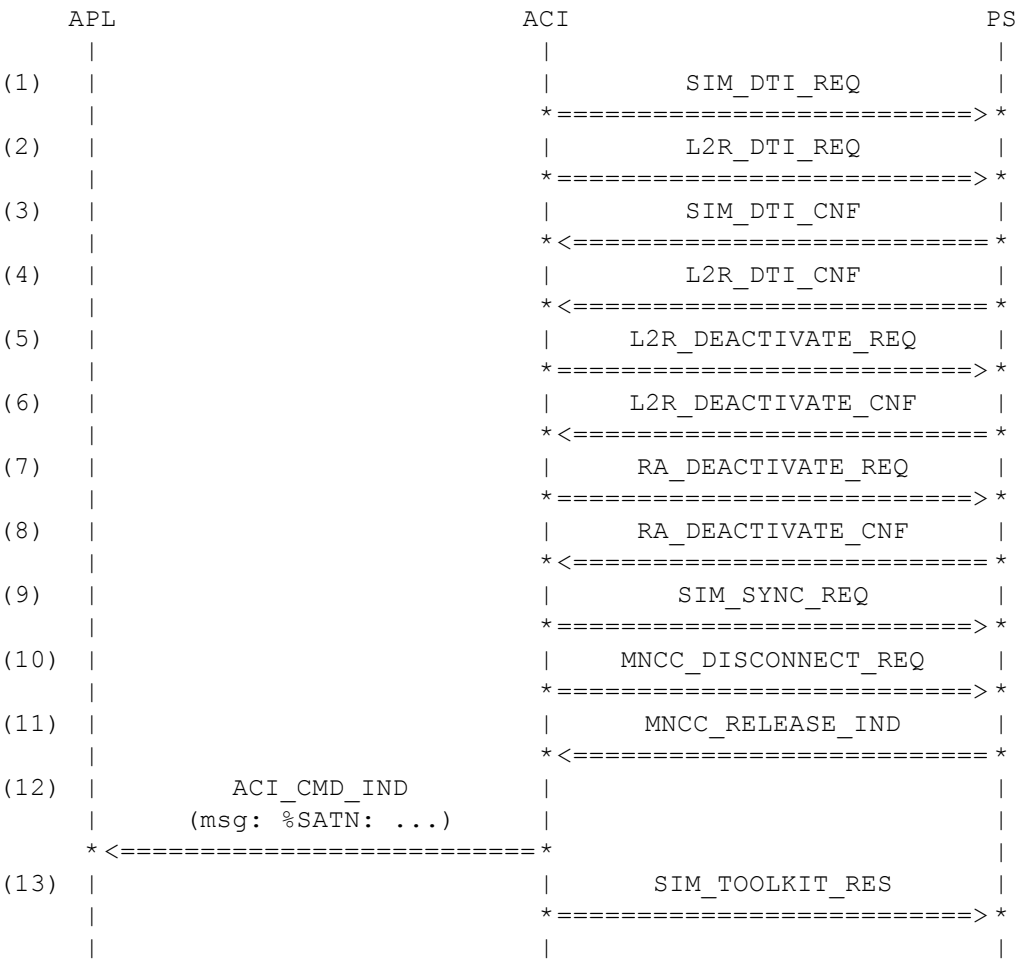
<A> CSD channel, full parameter set, non-transparent, immediate
<B> CSD channel, default parameters, immediate
<C> CSD channel, full parameter set, non-transparent, on demand
<D> CSD channel, default parameters, on demand

Variants:

<A>....<D>

Preamble:

<A>ACISAT470D
<B>ACISAT470E
<C>ACISAT470I
<D>ACISAT470J



Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_DTI_REQ_NOT_VALID
(2) L2R_DTI_REQ		
	dti_conn	L2R_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	SIM_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(3) SIM_DTI_CNF		
	link_id	SIM_L2R_LINK_ID
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
(4) L2R_DTI_CNF		
	dti_conn	L2R_DISCONNECT_DTI
	link_id	SIM_L2R_LINK_ID
(5) L2R_DEACTIVATE_REQ		
(6) L2R_DEACTIVATE_CNF		
(7) RA_DEACTIVATE_REQ		
(8) RA_DEACTIVATE_CNF		
(9) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(10) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(11) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(12) ACI_CMD_IND		
	cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
	cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD
(13) SIM_TOOLKIT_RES		
	stk_cmd	SAT_RES_CLCH_CSD

History:	12.06.2002	RM	Update
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.03.2003	TLU	Adaptation to new SAPs

3.23.10 ACISAT479: CLOSE CHANNEL disconnect, CSD, successful (TRA part)

Description:

The TRA data entity has been disconnected

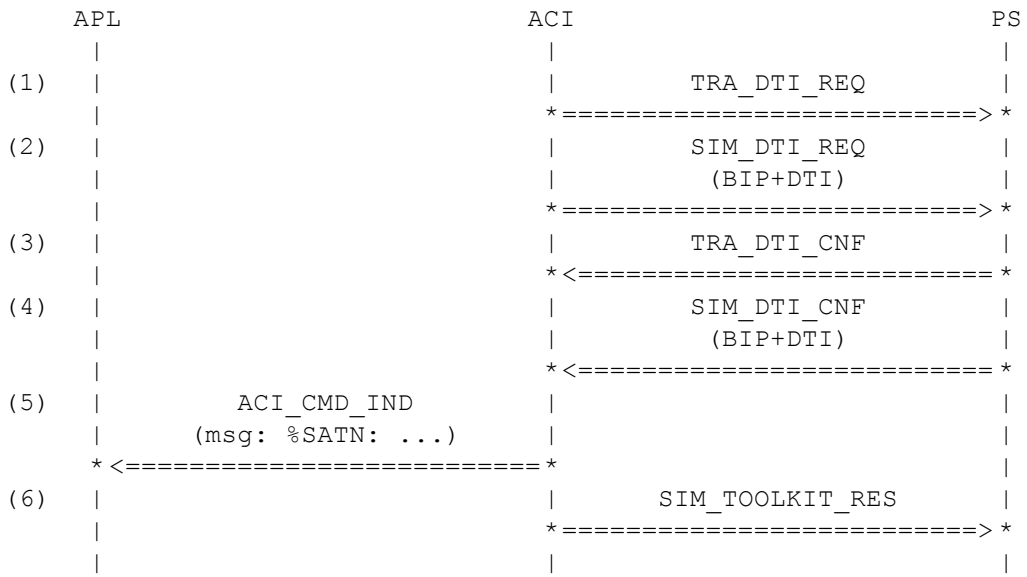
<A> CSD channel, full parameter set, transparent, immediate
<B> CSD channel, full parameter set, transparent, on demand

Variants:

<A>....<B>

Preamble:

<A>ACISAT470C
<B>ACISAT470H



Parametrization:

Primitive	Parameter	Value
(1) TRA_DTI_REQ		
	dti_conn	TRA_DISCONNECT_DTI
	link_id	SIM_TRA_LINK_ID
	entity_name	S_SIM_NAME
	dti_direction	TRA_DTI_NORMAL

(2) SIM_DTI_REQ

link_id	SIM_TRA_LINK_ID
dti_conn	SIM_DTI_CLOSE_DISC
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	NOT_USED
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_PERF_SUCCESS
add_info_result	ADD_NO_CAUSE
release_time	SIM_DTI_REQ_NOT_VALID

(3) TRA_DTI_CNF

dti_conn	TRA_DISCONNECT_DTI
link_id	SIM_TRA_LINK_ID

(4) SIM_DTI_CNF

link_id	SIM_TRA_LINK_ID
dti_conn	SIM_DTI_CLOSE_DISC
bip_ch_id	CHANNEL_SRC_ID1

(5) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_CLCH_CSD
cmd_seq	M_PERCENT_SATN_RES_CLCH_CSD

(6) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_CLCH_CSD

History:			
	14.06.2002	RM	Update
	25.03.2003	TLU	Adaptation to new SAPs

3.23.11 ACISAT480: Unsolicited Problem Report from SIM

Description:

After several data command, indicates SIM a channel disconnection due to problem

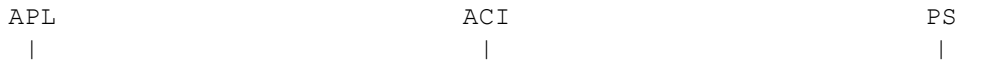
<A> CSD channel, full parameter set, UDP, immediate
<B> CSD channel, full parameter set, transparent, immediate
<C> CSD channel, full parameter set, non-transparent, immediate
<D> GPRS channel, full parameter set, UDP, immediate
<E> GPRS channel, full parameter set, SNDCP, immediate

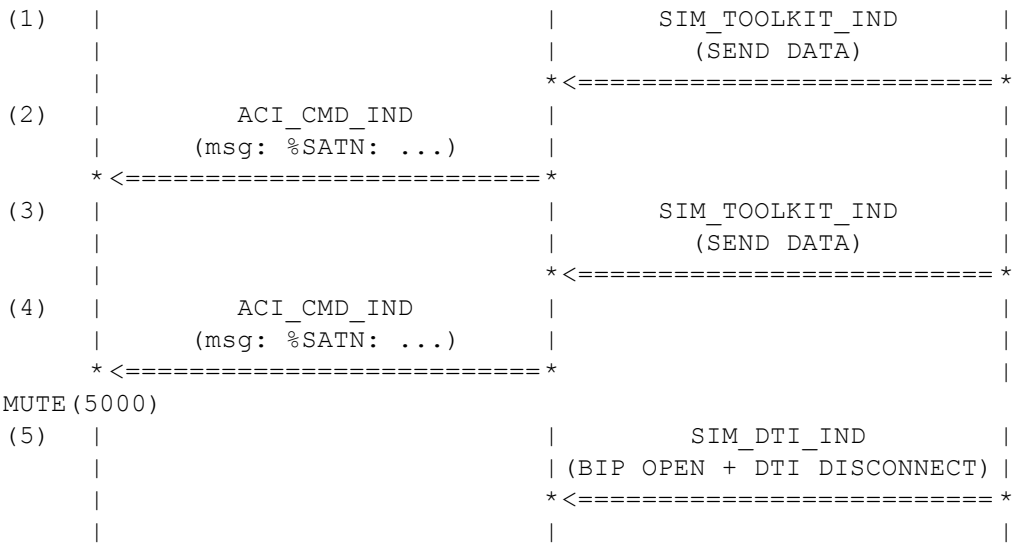
Variants:

<A>....<E>

Preamble:

<A>ACISAT448A
<B>ACISAT448C
<C>ACISAT448D
<D>ACISAT448F
<E>ACISAT448G





Parametrization:

	Primitive	Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_OD
(2)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD
(3)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_IM
(4)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_IM
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_IM
(5)	SIM_DTI_IND		
<A>		link_id	SIM_UDP_LINK_ID_CSD
<B>		link_id	SIM_TRA_LINK_ID
<C>		link_id	SIM_L2R_LINK_ID
<D>		link_id	SIM_UDP_LINK_ID_GPRS
<E>		link_id	SIM_SNDCP_LINK_ID
		dti_conn	SIM_DTI_OPEN_DISC
		bip_ch_id	CHANNEL_SRC_ID1

History:			
	07.06.2002	AK	Initial
	25.03.2003	TLU	Adaptation to new SAPs

3.23.12 ACISAT481: CLOSE CHANNEL disconnect, CSD, successful (L2R part, worse case immediate)

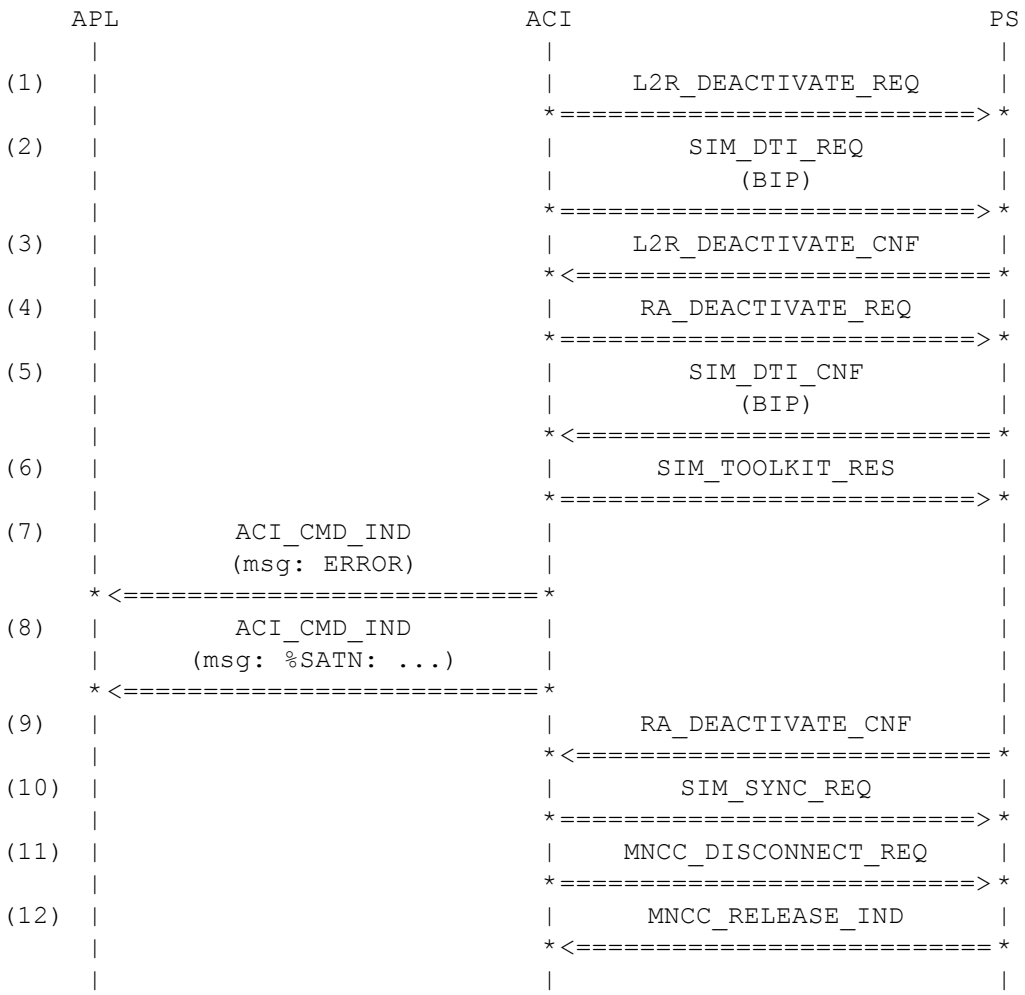
Description:

The L2R data entity has been disconnected

CSD channel, full parameter set, default parameters, immediate, SIM connection failed

Preamble:

ACISAT447R



Parametrization:

Primitive	Parameter	Value
(1) L2R_DEACTIVATE_REQ		
(2) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	con_type	SIM_DTI_REQ_NOT_VALID
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_BIP_NO_CHAN_AVAIL
	release_time	SIM_DTI_REQ_NOT_VALID
(3) L2R_DEACTIVATE_CNF		

(4) RA_DEACTIVATE_REQ

(5) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1

(6) SIM_TOOLKIT_RES

stk_cmd	SAT_RES_OPCH_BIP_ERR

(7) ACI_CMD_IND

cmd_len	LM_ERROR
cmd_seq	M_ERROR

(8) ACI_CMD_IND

cmd_len	LM_PERCENT_SATN_RES_OPCH_BIP_ERR
cmd_seq	M_PERCENT_SATN_RES_OPCH_BIP_ERR

(9) RA_DEACTIVATE_CNF

(10) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(11) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR
fac_inf	FACILITY_NONE
ss_version	SS_VER_NOT_PRES

(12) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	11.06.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.03.2003	TLU	Adaptation to new SAPs

3.23.13 ACISAT482: CLOSE CHANNEL disconnect, CSD, successful (L2R part, worse case on demand) All FAIL

Description:

The L2R data entity has been disconnected or SIM has disconnected

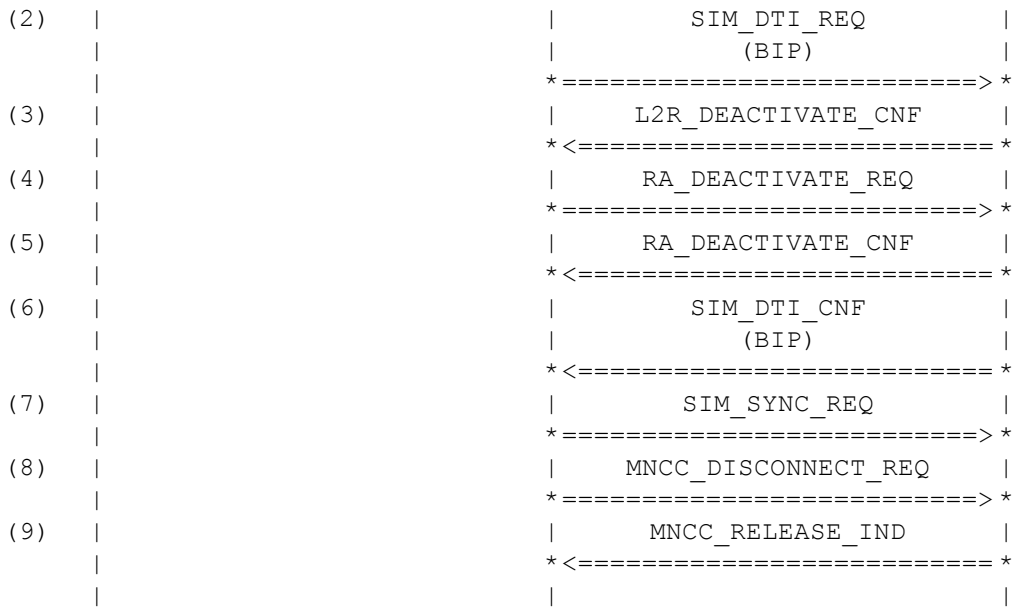
<A>CSD channel, full parameter set, default parameters, on demand, SIM connection failed
<B>CSD channel, full parameter set, non-transparent, immediate, after SIM disconnection indication

Variants:

<A>....<B>

Preamble:

<A>ACISAT447T
<B>ACISAT480C



Parametrization:

Primitive	Parameter	Value
(1) L2R_DEACTIVATE_REQ		
(2) SIM_DTI_REQ		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
	dti_direction	SIM_DTI_NORMAL
	entity_name	NOT_USED
	con_type	SIM_DTI_REQ_NOT_VALID
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_BIP_NO_CHAN_AVAIL
	release_time	SIM_DTI_REQ_NOT_VALID
(3) L2R_DEACTIVATE_CNF		
(4) RA_DEACTIVATE_REQ		
(5) RA_DEACTIVATE_CNF		
(6) SIM_DTI_CNF		
	link_id	SIM_DTI_REQ_NOT_VALID
	dti_conn	SIM_BIP_CLOSE_CHANNEL
	bip_ch_id	CHANNEL_SRC_ID1
(7) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(8) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES

(9) MNCC_RELEASE_IND

ti	NUM_0
cause	MNCC_CAUSE_CALL_CLEAR

History:			
	12.06.2002	RM	Update)
	26.08.2002	RM	MNCC_DISCONNECT_REQ new parameter
	25.03.2003	TLU	Adaptation to new SAPs

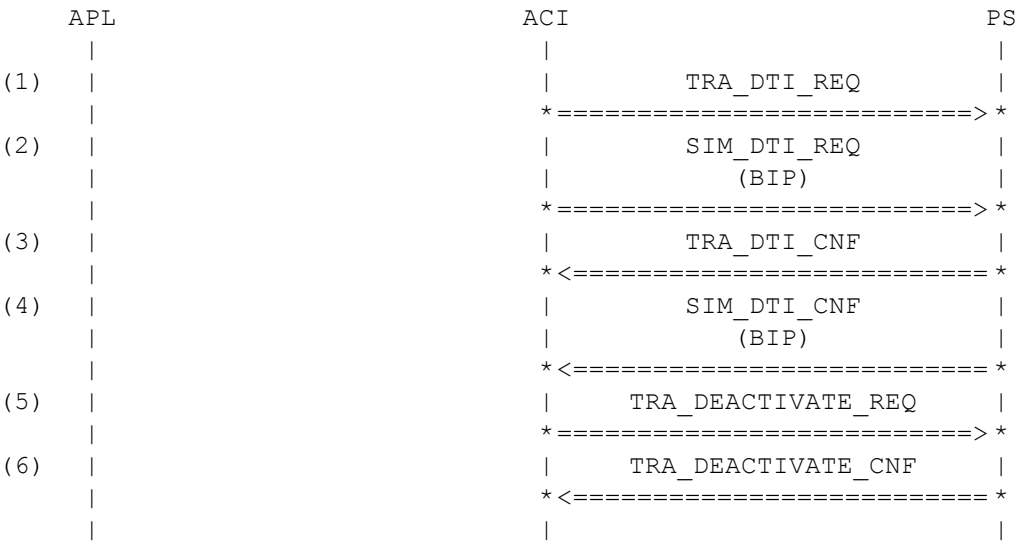
3.23.14 ACISAT483: CLOSE CHANNEL disconnect, CSD, , SIM disconnect after SIM failure (TRA part) FAIL

Description: After a connection failure has been reported by SIM, the SIM channel will be closed

CSD channel, full parameter set, transparent, immediate, SIM disconnect after SIM failure

Preamble:

ACISAT480B



Parametrization:

Primitive	Parameter	Value
(1) TRA_DTI_REQ		
	dti_conn	TRA_DISCONNECT_DTI
	link_id	SIM_TRA_LINK_ID
	entity_name	NOT_USED
	dti_direction	TRA_DTI_NORMAL

(2) SIM_DTI_REQ

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1
con_type	SIM_DTI_REQ_NOT_VALID
dti_direction	SIM_DTI_NORMAL
entity_name	NOT_USED
local_ip	SIM_DTI_REQ_NOT_VALID
destination_ip	SIM_DTI_REQ_NOT_VALID
destination_port	SIM_DTI_REQ_NOT_VALID
general_result	RSLT_BEARIND_PERR
add_info_result	ADD_BIP_NO_CHAN_AVAIL
release_time	SIM_DTI_REQ_NOT_VALID

(3) TRA_DTI_CNF

dti_conn	TRA_DISCONNECT_DTI
link_id	SIM_TRA_LINK_ID

(4) SIM_DTI_CNF

link_id	SIM_DTI_REQ_NOT_VALID
dti_conn	SIM_BIP_CLOSE_CHANNEL
bip_ch_id	CHANNEL_SRC_ID1

(5) TRA_DEACTIVATE_REQ

(6) TRA_DEACTIVATE_CNF

History:	14.06.2002	RM	Initial
	25.03.2003	TLU	Adaptation to new SAPs

3.24 SAT Channel Status Event (ACISAT 490-)

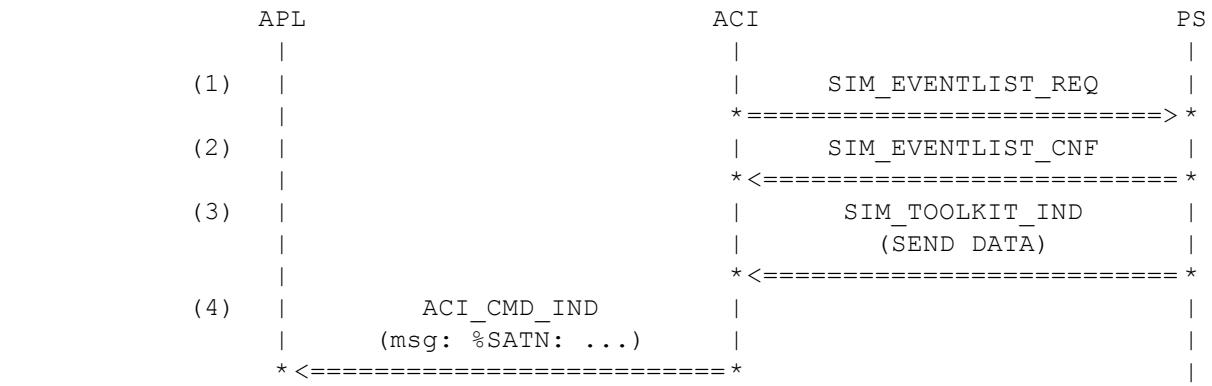
3.24.1 ACISAT490: Channel Status Event Setup

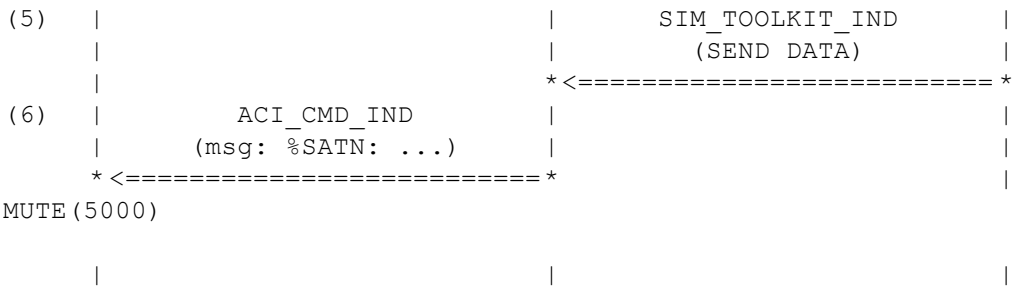
Description:

SIM will be informed about the Data Available Event. Several SEND DATA commands will be sent to simulate a data transmission

Preamble:

ACISAT350B





Parametrization:

	Primitive	Parameter	Value
(1)	SIM_EVENTLIST_REQ		
		event_data_avail	SIM_EVENT_ENABLE
(2)	SIM_EVENTLIST_CNF		
		event_data_avail	SIM_EVENT_ENABLE
(3)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_OD
(4)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_OD
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_OD
(5)	SIM_TOOLKIT_IND		
		stk_cmd	SAT_CMD_SND_DAT_IM
(6)	ACI_CMD_IND		
		cmd_len	LM_PERCENT_SATN_CMD_SND_DAT_IM
		cmd_seq	M_PERCENT_SATN_CMD_SND_DAT_IM

History: 14.05.2002 AK Initial

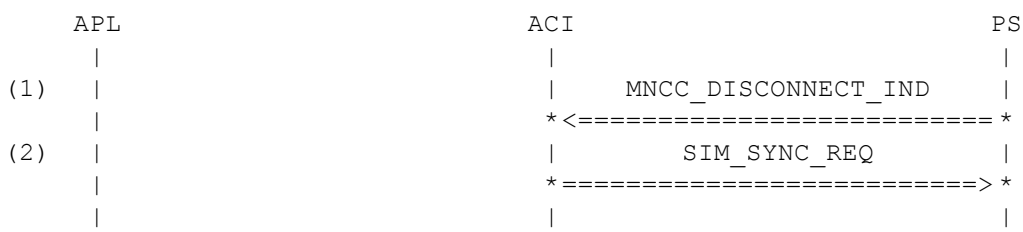
3.24.2 ACISAT491: Channel Status Event, CSD break down

Description:

The CSD channel breaks down. A Channel Status Event will be sent to SAT

Preamble:

ACISAT490



Parametrization:

	Primitive	Parameter	Value
(7)	MNCC_DISCONNECT_IND		
		ti	NUM_0
		cause	MNCC_CAUSE_CALL_CLEAR
		diagnostic	NOT_USED
		progress_desc	PROG_NOT_PRES
(8)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL

History: 14.05.2002 AK Initial

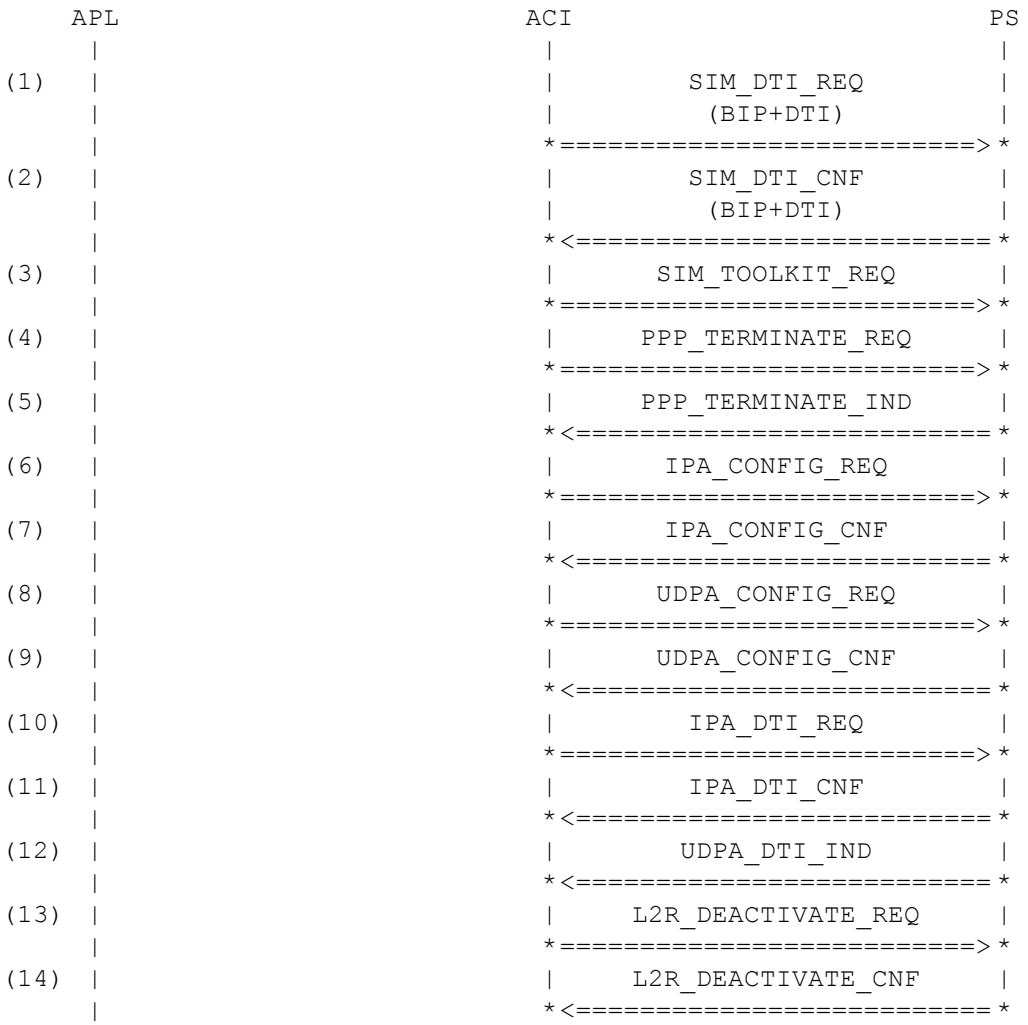
3.24.3 ACISAT492: Channel Status Event, indication FAIL

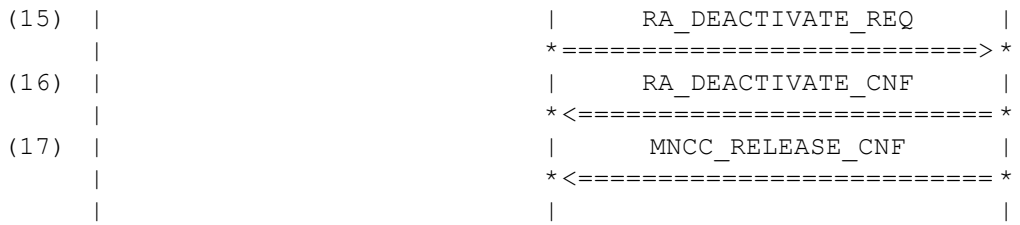
Description:

After channel break-down, channel status event will be sent to SAT

Preamble:

ACISAT491





Parametrization:

Primitive	Parameter	Value
(1) SIM_DTI_REQ		
	link_id	SIM_UDP_LINK_ID_CSD
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
	dti_direction	SIM_DTI_NORMAL
	con_type	SIM_DTI_REQ_NOT_VALID
	entity_name	NOT_USED
	local_ip	SIM_DTI_REQ_NOT_VALID
	destination_ip	SIM_DTI_REQ_NOT_VALID
	destination_port	SIM_DTI_REQ_NOT_VALID
	general_result	RSLT_BEARIND_PERR
	add_info_result	ADD_BIP_CHAN_CLOSD
	release_time	SIM_DTI_REQ_NOT_VALID
(2) SIM_DTI_CNF		
	link_id	SIM_UDP_LINK_ID_CSD
	dti_conn	SIM_DTI_CLOSE_DISC
	bip_ch_id	CHANNEL_SRC_ID1
(3) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	SRQ_NONE
	stk_cmd	ENV_CMD_EVENT_CHNST
(4) PPP_TERMINATE_REQ		
	lower_layer	PPP_LOWER_LAYER_DOWN
(5) PPP_TERMINATE_IND		
	ppp_cause	PPP_TERM_OK_MMI
(6) IPA_CONFIG_REQ		
	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(7) IPA_CONFIG_CNF		
	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		

(10) IPA_DTI_REQ

dti_conn	IPA_DISCONNECT_DTI
entity_name	NOT_USED
link_id	UDP_IP_LINK_ID
dti_direction	NOT_USED

(11) IPA_DTI_CNF

dti_conn	IPA_DISCONNECT_DTI
link_id	UDP_IP_LINK_ID

(12) UDPA_DTI_IND

link_id	UDP_IP_LINK_ID

(13) L2R_DEACTIVATE_REQ

(14) L2R_DEACTIVATE_CNF

(15) RA_DEACTIVATE_REQ

(16) RA_DEACTIVATE_CNF

(17) MNCC_RELEASE_CNF

ti	NUM_0
cause	MNCC_CAUSE_NO_MS_CAUSE

History:	29.04.99	AK	Initial
	24.03.2003	TLU	Adaptation to new DTI Manager and new UDPA/IPA SAPs