



Delivery Notes

Delivery Notes L23 N7.19 / N11.11

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Table of Contents

Main benefits of this release compared to the last L23 release	7
4.1 OMAP500050838 C_RR: Windows test cases RRG\RR Fails	10
4.2 C_ACI: Initialization for &ctzv missing in BAT	10
4.3 OMAP500068075 C_ACI: GSM Data Connection Bug	10
4.4 OMAP500051028 C_RR: Cell selection improvements, RR is reporting 150 serving cells but most of them are in the noise floor	11
4.5 OMAP500073539 C_ACI: The ref number for LMS doesn't change	11
4.6 OMAP500069796 C_ACI Documentation update 06w09	12
4.7 OMAP500059874 C_ALR: Cell broadcast filter setting is not working as expected	12
4.8 OMAP500064953 ACI: No voice issue	13
4.9 OMAP500069091 C_ACI: After CSD ME crashes	13
4.10 OMAP500070855 C_GRR Timeslot Reconfiguration message during DL TBF release	13
4.11 OMAP500074731 C_ACI: Display shows @@@@ with no SIM	13
4.12 OMAP500074625 C_ACI: CT-GCF[27.22.4.12.1]-Terminal did not send USSD	14
4.13 OMAP500072648 C_ACI: AT+CGDATA does not work properly if PSI is used instead of PKTIO	15
4.14 OMAP500075450 C_IF_ACI: BAT: CLCC value 0 for active calls is missing in p_bat.val	16
4.15 OMAP500072400 C_ACI: Limited-Service and No-Service not reported by +CREG	16
4.16 OMAP500051034 C_ACI: GPRS attach icon	17
4.17 OMAP500065161 C_GRLC: TC - GCF - 42.4.1.1 Network control measurement reporting / uplink / normal case fails on Anite System	17
4.18 OMAP500049111 C_ACI: WAP over GPRS failure after WAP over CSD	18
4.19 OMAP500069809 C_ACI: BAT Always Returns Error For Interrogate Call Waiting	19
4.20 OMAP500059863 C_IF_ACI: BAT: Version control AT commands needed for BAT	20
4.21 OMAP500071256 C_RR: Remove A5/2 Encryption Algorithm (Also Impacts N7.x, S5.x, W2,x)	20
4.22 OMAP500069715 _GMM: WAP cannot be started since authentication failed with the prepaid SIM in Columbia	21
4.23 OMAP500048735 C_ACI: BAT: no response structure defined for CMSS	22
4.24 OMAP500059231 C_ACI: GSM IOT -Call re-establishment failure	22
4.25 OMAP500072248 C_SMS: Windows SMS Simulation Test Cases Compilation and Linking Error	23
4.26 OMAP500070949 C_ACI: Follow up for 68704 - Taking changes of 68721 into g23m	23
4.27 OMAP500072654 C_ACI: SAT Call disconnect event is send only once by ME. Next time call is disconnected, event is not sent to SIM.	24
4.28 OMAP500071386 C_ACI: error happens when dialing a new number just after the peer party terminates an existing call	24
4.29 OMAP500049823 C_ACI: CT_GCF- TC 28.2 & 28.3 (Constraining a single number, cat 1, 2 and 3)MS does not wait for 5 seconds between re-attempts	25
4.30 OMAP500051729 failure in End User Systems Approval, Measurement Reporting on new strong Neighbour Cell	25
4.31 OMAP500065177 C_DL: Not possible to send SMS with long text in Lucent BSS	25
4.32 MAP500071023 C_IF_L23_NAS: SIM: Fix for the issue SENDING SMS with SAT Enabled SIMs	25
4.33 OMAP500070444 C_ACI: GCF Test Case 27.22.7.1 MT call event, ORGA fail, CRTU-G pass	26

List of Tables

Table 1: Release Baselines6

List of References

0211.910.03.001 TCS2.1.1GPRS Delivery Notes
0211.910.03.100 Delivery Notes L23 TCS2.1.1.1
0211.910.03.200 Delivery Notes L23 TCS2.1.1.2
0211.910.03.300 Delivery Notes L23 TCS2.1.1.3
0211.910.03.400 Delivery Notes L23 TCS2.1.1.4
0211.910.03.500 Delivery Notes L23 TCS2.1.1.5
0211.910.04.600 Delivery Notes L23 TCS2.1.1.6
0211.910.04.700 Delivery Notes L23 TCS2.1.1.7
0211.910.04.800 Delivery Notes L23 TCS2.1.1.8
0211.910.05.900 Delivery Notes L23 TCS2.1.1.9
0211.910.05.1000 Delivery Notes L23 TCS2.1.1.10 / 3.1.2
0211.910.05.1100 Delivery Notes L23 TCS2.1.1.11 / 3.1.3
0211.910.05.1200 Delivery Notes L23 TCS2.1.1.12 / 3.1.4
0211.910.05.1300 Delivery Notes L23 TCS2.1.1.13 / 3.1.5
0211.910.05.1400 Delivery Notes L23 TCS2.1.1.14 / 3.1.6

1 Introduction

This document contains the Delivery Notes for L23 of the N11.11 (=TCS 3.1.11) / N7.19 (=TCS 2.1.1.19) release. This document replaces all previous versions of this document.

It references to the previous protocol stack release version 3.1.10/2.1.1.18. It neither references official nor unofficial engineering releases made in-between release 3.1.10/2.1.1.18 and N11.10/N7.18, but covers all changes already released in any engineering releases.

The release is the baseline S683 of the g23m branch.

Release	Baseline	Release Branch Baseline
TCS 2.1.1	S226	No release branch used
TCS 2.1.1.1	S274	No release branch used
TCS 2.1.1.2	S299	No release branch used
TCS 2.1.1.3	S342	No release branch used
TCS 2.1.1.4	S378	tcs_2.1.1.4_S4
TCS 2.1.1.5	S419	tcs_2.1.1.5_S2
TCS 2.1.1.6	S446	tcs_2.1.1.6_S2
TCS 2.1.1.7	S473	tcs_2.1.1.7_S2
TCS 2.1.1.8	S502	No release branch used
TCS 2.1.1.9 / 3.1.1	S543	No release branch used
TCS 2.1.1.10 / 3.1.2	S557	No release branch used
TCS 2.1.1.11 / 3.1.3	S571	No release branch used
TCS 2.1.1.12 / 3.1.4	S591	No release branch used, but patched with label GMM-SPR-31761-TMP in order to include the fix for CQ 31761
TCS 2.1.1.13 / 3.1.5	S611	No release branch used
TCS 2.1.1.14/3.1.6	S623	No release branch used
N11.7 / N7.15	S632	No release branch used
N11.8 / N7.16	S648	Patched with label RAS_OMAPS00049171_TMP, needed for defect OMAP500050937; HM_20051124_TMP, needed for defect OMAP500044809; OMAP500058914_PROPOSE_SAB_TMP, needed for defect OMAP500052587
N11.9/N7.17	S661	No release branch used
N11.10/N7.18	S674	No release branch used
N11.11/N7.19	S683	No release branch used

Table 1: Release Baselines

Main benefits of this release compared to the last L23 release

See chapter 5 Enhancements

2 Additional Compatibility and Usage Information

Due to security issues, the encryption algorithm A5/2 is going to be phased out by GSM network operators. Some operators will no longer accept phones supporting A5/2 today; others have not yet set a date for the withdrawal. The goal of the GSMA is to have it removed worldwide by end of 2006.

3GPP Release 6 will explicitly forbid A5/2 support.

For details please see OMAP500071256

3 Interface changes

ACI

None

4 Solved Issues

4.1 OMAP50050838 C_RR: Windows test cases RRG\RR Fails

Description:

Solution description:

The simulation test cases have been modified for RR and RRG test suite.

4.2 C_ACI: Initialization for %ctzv missing in BAT

Description:

NITZ is supported in ACI/MFW and also with BAT (%ctzv). For BAT though the initialization is missing.

Solution description:

Solution:

A new BAT command %CTZV was added

File Modified:

\g23m\condat\ms\doc\sap\bat.sap
\g23m-aci\aci\aci_bat_cmh.h
\g23m-aci\aci\aci_bat_mm.c
\g23m-aci\aci\aci_bat.c
\g23m-aci\bat\bat_kerf.c

Functions/Defines Affected:

```
GLOBAL T_ACI_BAT_RSLT sBAT_PercentCTZV (T_ACI_DTI_PRC_PSI *src_infos_psi,  
                                         T_BAT_cmd_send *cmd)  
LOCAL const BATCommand bat_cmds []  
static T_map_params_2_size params_2_size[]
```

4.3 OMAP60068075 C_ACI: GSM Data Connection Bug

Description:

After a successful GSM data connection (via dial-up connection) has been established, user proceeded to terminate the connection. The disconnect takes about 10 seconds to complete. Entering AT commands via terminal is not possible anymore. The AT Command line seemed to be blocked until a reset was done.

Solution description:

When the connection gets disconnected, the variable dti_cntrl_reconnect_to_aci needs to be set so that the connection between ATI and UART will be established.

Files:

1.psa_l2rp.c

Function:psa_l2r_dti_cnf()

Changes: Before informing DTI that the entity l2r has been disconnected the variable dti_cntrl_reconnect_to_aci has to be set.

2.acisat_cases.cpp,acisat_constraints.cpp,acisat_constraints.h:

Changes: Changed the sim_toolkit_res_65 to sim_toolkit_res_66.

4.4 OMAPS00051028 C_RR: Cell selection improvements, RR is reporting 150 serving cells but most of them are in the noise floor

Description:

During tests it has been found out that RR entity is reporting 150 serving cells although the P2 board is fully calibrated and from a measurement perspective the board seems to be fully OK. Further test in a shielded chamber with an antenna attached to the P2 also showed that in a shielded environment the board itself generates some interfering noise which is fed back over the antenna and results in 50 serving base stations with very low signal strength. Due to this amount of 150 serving cells it could take long to find out whether this base station is really a serving base station or it is just some kind of fake generated by random noise.

Solution description:

The three RXLevel threshold values: LOWER, MEDIUM and UPPER are stored in three FFS files. In each file, threshold value corresponding to each band is stored sequentially.

RR internally maintains three arrays for each of the three thresholds. In each array, the thresholds for each band is stored sequentially.

Writing to FFS: Whenever the threshold values are configured dynamically using `pei_config`, the values are written to FFS.

Reading from FFS: Whenever cell selection process is initialized (called from `pei_init` and `rr_deactivate`), the threshold values are read from FFS. If not present, default values are used.

For details refer to the LLD document `CS_Opt_by_FFS_Settings.doc`.

4.5 OMAPS00073539 C_ACI: The ref number for LMS doesn't change

Description:

The receiver should use the sender number and ref number in the SMS to determine whether the SMSs belong to the same LMS.

When a phone sends two LMSs, it should generate different ref number for the LMSs.

For the log, the ref number is always 0x2 and doesn't change.

Concatenated: Ref 0x2 Seq 1 Of 3

Concatenated: Ref 0x2 Seq 2 Of 3

Concatenated: Ref 0x2 Seq 3 Of 3

Concatenated: Ref 0x2 Seq 1 Of 3

Concatenated: Ref 0x2 Seq 2 Of 3

Concatenated: Ref 0x2 Seq 3 Of 3

Solution description:

Files Modified:

(1) `conc_sms.c`

Functions/Defines Affected:

`concSMS_split()`:

A new variable `t_num` has been defined in the function `concSMS_split()`. This variable is used to hold the value returned by the function `concSMS_findMaxRefNum()`. A condition has been added to properly fill the `sref_num` variable. Its value is now dependent on the already stored concatenated SMS and already sent concatenated SMS.

A new variable `sref_num` has been defined in this function, for keeping track of the MO concatenated SMS. This variable is now responsible for setting the reference number for the sent concatenated SMS.

4.6 OMAP50069796 C_ACI Documentation update 06w09

Description:

MEPD description update to 8415_052

Solution description:

Documents Modified:

1.8411_802.doc

Function definitions have been modified for following commands.

1. %CPINF
2. %CMGL
3. %MEPD - Struct and Enum has been added

2.8415_052.doc

Command description has been modified for the following commands

1. %CPINF
2. %CMGR
3. %CMGL
4. %ATR
5. %MEPD - description is added.

3.8410_011.doc

Reference description has been added for following commands

1. %CMGL
2. %CMGR
3. %MEPD

4.7 OMAP50059874 C_ALR: Cell broadcast filter setting is not working as expected

Description:

Cell broadcast filter setting is not working as expected:

Tested via AT commands interpreter:

- 1) Start-up PS:
- 2) Query +CSCS will result +CSCS: 0,"","" which means no CB accepted except those specified by the lists which are empty. Therefore no CB should be accepted
- 3) Enable forwarding of CBM by setting CNMI parameters.
- 4) CBM indications are received by PS and printed into the terminal which is NOT expected.

Solution description:

Files modified:

1. alr_cbch.c/cb_check_message_id:

If no msg_id is defined and if the mode is anything other than CBCH_STOP, this function would return TRUE which means that msg_id is expected. This is incorrect.

Following is expected functionality:

- * MODUS CBCH_ACCEPT, but no msg_id defined, accept NO messages
- * MODUS CBCH_IGNORE, but no msg_id define, accept all messages
- * MODUS CBCH_STOP, but no msg_id defined, accept NO messages
- * MODUS CBCH_HOMEZONE, but no msg_id defined, accept NO messages.

2. ati_ret.c/rCI_PlusCBMText() :

- Added a condition to check whether the message to be displayed or not.

4.8 OMAPS00064953 ACI: No voice issue

Description:

There is no voice coming out of the receiver on the 2nd call if user does not answer the 1st call. This symptom occurs only on TWN network.

Solution description:

Files Modified:

1.psa_ccf.c/psaCC_setSpeechMode():

Modified for the condition, if there is no traffic channel assigned then send vocoder disable request.

4.9 OMAPS00069091 C_ACI: After CSD ME crashes

Description:

After hangin CSD call up, ME crashes.

Scenario to reproduce:

AT-Command Interpreter ready

at+cfun=1

OK

at+cbst=7,0,0

OK

at+cops=0

OK

atdxxxxxxx

.....

+++

ATH

ME crash

Solution description:

Solution is to check Cid in function cmhCC_getcalltype(). If the CID is not valid (-1) function will return NO_VLD_CC_CALL_TYPE and will not initiate RA disconnection (already disconnected).

Files Modified

1.cmh_ccf.c/cmhCC_getcalltype()

Function will check the input parameter (cid), if it is not valid i.e -1 returns

NO_VLD_CC_CALL_TYPE

4.10 OMAPS00070855 C_GRR Timeslot Reconfiguration message during DL TBF release

Description:

It was observed that DL TBF was not released due to Timeslot Reconfiguration message.

Solution description:

See OMAPS00047268

4.11 OMAPS00074731 C_ACI:Display shows @@@@ with no SIM

Description:

Problem is related to CHPL. When the SIM is not inserted, the PS is sending an incorrect length/Name in the response of CHPL.

Solution description:

A check of the SIM status will be done at the very beginning of the execution of the CHPL AT command.

File Modified:

\g23m-aci\aci\cmh_mms.c

Functions/Defines Affected:

GLOBAL T_ACI_RETURN sAT_PercentCHPL (T_ACI_CMD_SRC srcId, T_ACI_OPER_NTRY *oper)

4.12 OMAP500074625 C_ACI: CT-GCF[27.22.4.12.1]-Terminal did not send USSD

Description:

Seq. 1.5 of TC
CRTU-G verdict: FAIL
Step 5 Wrong data sent from the MS
IT3 verdict: FAIL
Unexpected TERMINAL RESPONSE performed.

Solution description:

See OMAS00033857

Files Modified:

1. psa_satf.c
2. psa_sat.h
3. cmh_ssr.c.c

Function Modified: check_ksd_error()

- Unused local variable owner removed.
- Commented code removed.

Function Modified: cmhSS_SSInterrogated()

- Two unused local variablea are removed.

Function Modified: cmhSS_getPassword()

- Unused local variable inform_sat removed.

Function Modified: cmhss_sat_ussd_reqprocessed()

- Unused local variable dcs removed.

Function Modified: cmhSS_USSDDatProcessed()

- Added /*lint -fallthrough*/ as there was no break to avoid lint warning.

Function Modified: cmhSS_TransFail()

- Now the function psaSAT_SSRejComp() accepts a parameter, so passing the error.

4. psa_ccp.c

Function Modified: psa_mncc_setup_ind()

- Added code to send terminal response to SIM if SIM_TOOLKIT is defined.

Function Modified: psa_mncc_sync_ind()

- initialized the local variable.

5. psa_ccf.c

Function Modified: psaCC_ProcessCmp()

- Now the function psaSAT_SSRejComp() accepts a parameter, so passing the error.

6. psa_satf.c

Function Modified: psaSAT_BuildEnvEventDwn()

- initialized the local variable and added trace function.

Function Modified: psaSAT_SSResComp()

- Now the function will accept parameter has T_res_comp* resCmp instaead of T_fac_inf* resCmp

and handles the result component.

Function Modified: `psaSAT_SSRejComp()`

- Now the function will call `psaSAT_SendTrmResp()` with proper error code as first parameter.

Function Modified: `psaSAT_ss_end_ind()`

- Now the function calls `psaSAT_SSResComp()` with result component instead of facility info.

- Now the function `psaSAT_SSRejComp()` will be called with proper error code.

- Added trace functions in some of the function definitions

- Removed unused code.

7. `psa_sat.h`

Added two test cases to test the fix(ACISAT624A and 624B) to test the seq1.5 and 1.7 of test case 27.22.4.12.1 and following files have been modified

1. `acisat_cases.cpp`

2. `acisat_constraints.cpp`

3. `acisat_constraints.h`

4.13 OMAPS00072648 C_ACI: AT+CGDATA does not work properly if PSI is used instead of PKTIO

Description:

ACI needs enhancements regarding registered packet devices which want to use PSI instead of PKTIO. The needed adaptation is not done for N7/N11.x. Currently it is not possible to establish the communication between TE and packet domain (the user plane) via L2P parameter M-PKT.

Solution description:

The solution from original issue OMAPS00051736 is applied.

The `MAX_SEMAPHORES` in `gprconst.h` is increased from 8 to 9 if BAT is enabled (This is due to the lack of `MAX_SEMAPHORES` found in the target test with G23m s674 target build).

File Modified:

`\g23m-aci\aci\ati_gprs.c`

`\g23m-aci\aci\cmh_smf.c`

`\g23m-aci\aci\cmh_smr.c`

`\g23m-aci\aci\cmh_sms.c`

`\g23m-aci\aci\cmh_sndr.c`

`\g23m-aci\aci\gaci.h`

`\g23m-aci\aci\gaci_cmh.h`

`\g23m-aci\aci\gaci_srcc.c`

`\g23m-aci\aci\gaci_srcc.h`

`\g23m-aci\aci\psa_smf.c`

`\g23m-aci\aci\dti_cntrl_mng.c`

`\g23m-aci\aci\cmh_psr.c`

`\g23m-aci\aci\psa_psip.c`

`\g23m\condat\frame\config\gprconst.h`

Functions/Defines Affected:

GLOBAL `T_ATI_RSLT` `atGD` (`char *cl`, `UBYTE srcId`, `BOOL *gprs_command`)

GLOBAL `void cmhPSI_Ind` (`T_ACI_PSI *psi_indic_msg`, `UBYTE src_id`, `U32 dio_cap`)

GLOBAL `void cmhPSI_DTI_Close` (`U32 devId`, `T_PSI_DTI_CLS_TYP state`, `U32 link_id`)

GLOBAL `SHORT cmhSM_connect_working_cid` (`void`)

GLOBAL `void cmhSM_disconnect_cid` (`SHORT cid`, `T_GPRS_CONNECT_TYPE type`)

```
GLOBAL SHORT cmhSM_connect_context ( SHORT cid, T_DTI_ENTITY_ID peer, UBYTE
ppp_hc, UBYTE msid )
GLOBAL SHORT cmhSM_context_connected( USHORT nsapi )
GLOBAL SHORT cmhSM_NoActivate ( void )
GLOBAL T_ACI_RETURN sAT_PlusCGDATA ( T_ACI_CMD_SRC srcId, char *L2P, SHORT
*cids )
GLOBAL BOOL PKTIO_SNDTCP_connect_dti_cb(UBYTE dti_id, T_DTI_CONN_STATE re-
sult_type)
LOCAL BOOL dti_cntrl_get_info (T_DTI_CNTRL *info, /* out parameter */
T_DTI_CNTRL *dti_cntrl_dev)
T_GPRS_CONNECT_TYPE
GLOBAL void srcc_new_count ( SRCC_LINK_NO link_no )
GLOBAL void srcc_delete_count ( SRCC_LINK_NO link_no )
GLOBAL BOOL srcc_reserve_sources( SRCC_LINK_NO link_no, SHORT no )
SRCC_LINK_NO
GLOBAL const void psa_psi_conn_ind_test ( T_PSI_CONN_IND_TEST *psi_conn_ind_test )
GLOBAL const void psa_psi_conn_ind ( T_PSI_CONN_IND *psi_conn_ind )
GLOBAL void psaSNDTCP_Dti_Req( T_DTI_CONN_LINK_ID link_id, UBYTE peer )
MAX_SEMAPHORES
```

4.14 OMAP500075450 C_IF_ACI: BAT: CLCC value 0 for active calls is missing in p_bat.val

Description:

The bat.sap has to be changed to add value 0 for active calls to T_BAT_VAL_plus_clcc_stat.

Solution description:

CLCC_STAT_ACTIVE is added to VAL_plus_clcc_stat in bat.sap

File Modified:

\g23m\condat\ms\doc\sap\bat.sap

Functions/Defines Affected:

T_BAT_VAL_plus_clcc_stat

4.15 OMAP500072400 C_ACI: Limited-Service and No-Service not reported by +CREG

Description:

When MS enters states mentioned in headline, there's no correct +CREG indication returns from ACI other than searching (+CREG: 2).

Solution description:

Whenever the network search is not happening and ACI gets mmr_nreg_ind(), ACI will be updating MMI with the proper CREG state. Hence depending on the deregCs in the mmShrdPrm proper +CREG state is sent to MMI.

Files:

1.cmh_mmf.c

Function: cmhMM_GetNregCREGStat()

Changes: Depending on the deregCs in the mmShrdPrm proper +CREG state is sent to the terminal.

2.aci_steps.cpp

Step: no_service_available_aci033()

Changes: Modified the step to adapt to the source code change.

4.16 OMAP50051034 C_ACI: GPRS attach icon

Description:

Problem:

1. When MS goes into no/limited service mode, gprs attach icon is still displayed on the MMI.
2. Reported from Customer
The MS is first powered on and camped on a cell with gprs support and it is moved to somewhere else to camp on a cell without gprs support, GPRS icon still appears on the MMI.

Solution description:

Modified Files:

l_psa_gmmf.c

Function:psaGMM_NetworkRegistrationStatus()

Changes:The gprs_indicator in the gmmreg_attach_cnf is checked and depending on the value the proper state has been informed to MMI.

Function:GMM_detached()

Changes:When GPRS is detached and if the state is already NRS_REGISTERED, the CGREG status will be updated with P_CGREG_STAT_NOT_REG so that MMI will remove the GPRS icon.

4.17 OMAP50065161 C_GRLC: TC - GCF - 42.4.1.1 Network control measurement reporting / uplink / normal case fails on Anite System

Description:

Description: TC 42.4.1.1-"Network control measurement reporting / uplink / normal case" fails on Anite System. Basically sometimes, Packet downlink assignments are getting missed causing the TC to fail.

Solution description:

In RU_REL_ACK and RU_REL_UACK States MS is not sending the control block. This problem is already resolved in the tcs_4.x mainline in the issues GRR-FTR-12939 and GRR-FIX-27327.

Modified Files:

grlc_rus.c

In states RU_REL_ACK and RU_REL_UACK, if there is any Control Block to be sent then it is given priority.

grlc_rds.c

The function GLOBAL void sig_ru_rd_get_downlink_release_state(BOOL *release_started) is added which returns true if RD is in release state(if fbi=1 is received in downlink data block.)

grlc_rds.h

The function declaration is added.

EXTERN void sig_ru_rd_get_downlink_release_state(BOOL *release_state);

grlc_ruf.c

The function GLOBAL BOOL ru_ctrl_blk_selection_allowed() is added which gets called from sig_gff_ru_mac_ready_ind handler and also from the function which handles ul reassignment (ru_handle_tbf_start_in_ptm). In mac ready indicate handler this is called only when ru is in rel_ack state. This function returns true or false according to the following table. The table applies for uack mode also.

When this function returns true, then control block should be selected for transmission by RU. When it returns False, then control block is selected by RD.

ru_rel_ack state	rd_rel_ack	- TRUE
ru_ack	rd_ack	- TRUE
ru_ack	rd_rel_ack	- TRUE
ru_rel_ack	rd_ack	- FALSE
ru_ack	NO DL TBF(rd_null)	- TRUE
ru_rel_ack	NO DL TBF(rd_null)	- TRUE

This function should be called only in PTM.

grlc_ruf.h

The function declaration is added.

EXTERN BOOL ru_ctrl_blk_selection_allowed();

grr_cases.cpp

Two new test cases GRR25007A and GRR 25007B are added to test the scenario.

4.18 OMAP50049111 C_ACI: WAP over GPRS failure after WAP over CSD

Description:

Starting a WAP session over GPRS failed after WAP over CSD.

Solution description:

Files:

1.cmh_ccq.c

Function:qAT_PercentCAL()

Changes: Feedback given in reject reason is implemented.

2.cmh_ccf.c

Function:cmhCC_ClearCall()

Changes: The state change of L2R to ACTIVATE has been removed.

3.cmh_ccr.c

Function:cmhCC_CallDisc_connectingphase(),call_disconnected_data_call(),cmhCC_CallReleased() and cmhCC_CallReleased()

Changes: The state change of L2R to ACTIVATE has been removed.

4.cmh_simr.c:

Function:SIM_ENT_CSDconnect_dti_cb()

Changes: The state change of L2R to ACTIVATE has been removed.

5.psa_l2rp.c

Function:psa_l2r_disc_ind() and psa_l2r_error_ind()

Changes: The state change of L2R to ACTIVATE has been removed.

6.psa_pppp.c

Function:psa_wppp_terminate_ind()

Changes: The state change of L2R to ACTIVATE has been removed.

7.psa_tcpipf.c

Function:psaTCPIP_deact_csd_callback()

Changes: Moved psaCC_ClearCall() inside the if loop.

8.acisat_cases.cpp

Changes: Modified ACISAT520() and ACISAT540() to adapt changes done in source code.

9.acisat_constraints.cpp

Changes: Defined two new constraints l2r_dti_req_6() and l2r_dti_cnf_6().

10.acisat_constraints.h

Changes: Included the prototype of the two newly added constraints.

11.aciwap_constraints.cpp

Changes: Defined two new constraints l2r_dti_req_2() and l2r_dti_cnf_2().

12.aciwap_constraints.h

Changes: Included the prototype of the two newly added constraints.

13aciwap_steps.cpp

Changes: Adapted all the steps wherever required due to the source code change.

14.aciwap_cases.cpp

Changes: Modified all the cases to adapt the changes done in the code.Added more test cases.

15.psa_l2rs.c:

Function:psaL2R_Deactivate()

Changes: When the state is L2R_DEACTIVATED,it returns -1 and a macro also has been added.

16.acisat_steps.cpp

Changes: Modified one step to adapt the source code change.

17.aciwap_steps.h:

Changes: Included the prototype of the newly added step.

4.19 OMAP500069809 C_ACI: BAT Always Returns Error For Interrogate Call Waiting

Description:

When BAT_CMD_SET_PLUS_CCWA is issued with BAT_CCWA_MODE_QUERY, the error BAT_RES_PLUS_EXT_ERROR is always returned with err = BAT_EXT_ERROR_EXT_ERR_PARAMETER.

Solution description:

The changes in aci_bat_cc.c, aci_bat_cb.c have been applied to the CCWA functions.

Files Modified:

\g23m-aci\aci\aci_bat_cb.c

\g23m-aci\aci\aci_bat_cc.c
\g23m-fad\app\app_bat.c

Functions/Defines Affected:

```
GLOBAL T_ACI_BAT_RSLT sBAT_PlusCCWA (T_ACI_DTI_PRC_PSI *src_infos_psi,  
T_BAT_cmd_send *cmd)
```

```
GLOBAL void rBAT_PlusCCWA(  
T_ACI_CLSSTAT *clsStat,  
CHAR *number,  
T_ACI_TOA *type,  
U8 validity,  
T_ACI_CLASS class_type,  
#ifdef NO_ASCIIIZ  
T_ACI_PB_TEXT *alpha  
#else  
CHAR *alpha  
#endif
```

```
static app_cmd_entry_t app_bat_cmd_table[] = {  
GLOBAL int response_cb (T_BAT_client client, T_BAT_cmd_response *rsp)  
GLOBAL char *app_bat_send_ccwa (app_cmd_entry_t *cmd_entry_ptr, char *param1,  
char *param2, char *param3, core_func_t core_func)
```

4.20 OMAP50059863 C_IF_ACI: BAT: Version control AT commands needed for BAT

Description:

Add the commands +CGMI; +CGMM; +CGMR; +CGSN; to BAT interface. These commands are recommended since the application suite has to test the version of the protocol stack it is running on.

Solution description:

done

4.21 OMAP50071256 C_RR: Remove A5/2 Encryption Algorithm (Also Impacts N7.x, S5.x, W2,x)

Description:

Due to security issues, the encryption algorithm A5/2 is going to be phased out by GSM network operators. Some operators will no longer accept phones supporting A5/2 today; others have not yet set a date for the withdrawal. The goal of the GSMA is to have it removed worldwide by end of 2006. 3GPP Release 6 will explicitly forbid A5/2 support.

For a transition period of indefinite duration, therefore, a mechanism is needed that allows enabling or disabling A5/2 support as requested by customers.

Solution description:

g23m\condat\com\src\driver\pcm.c
Changed default for simulation, A5/2 = off

\g23m\condat\ms\doc\test\mcc.doc
\g23m\condat\ms\doc\test\mer.doc
\g23m\condat\ms\doc\test\mmm.doc
\g23m\condat\ms\doc\test\mrr.doc

\\g23m\condat\ms\doc\test\msp.doc
\\g23m-gsm\mm\mmg_test\mmg_constraints.cpp
\\g23m-gsm\rr\rrg_test\rrg_constraints.cpp

Disabled A5/2 in classmark 2.

\\g23m-gsm\rr\rr_csf.c
Set default for A5/2 to “not supported”.

\\g23m-gsm\rr\rr_forf.c
Checked offered ciphering parameter against supported capabilities.

\\g23m-gsm\rr\rr_test\rr_constraints.cpp
\\g23m-gsm\rr\rr_test\rr_constraints.h
\\g23m-gsm\rr\rr_test\rr_cases.cpp
\\g23m-gsm\rr\rr_test\rr_primitives.cpp
\\g23m-gsm\rr\rr_test\rr_primitives.h
Adapted classmark 2, additional test case added so that ciphering is checked against supported algorithms.

4.22 OMAP50069715 _GMM: WAP cannot be started since authentication failed with the prepaid SIM in Columbia

Description:

By using a prepaid SIM card, the phone cannot start the WAP since authentication procedure failed. The regular SIM card has no problem.

Solution description:

MS has started GPRS attach. NW has sent A&C Req. GMM sends it to SIM but SIM is busy and does not respond. NW sends more A&C requests. T3310 expires and GMM starts GPRS attach again, here counter is reset. Again NW sends A&C Req. This time SIM responds for the first Authentication Request, but as counter is reset GMM sends this wrong Authentication Response to the network. This counter should not be reset here.

The following code changes are made

gmm_kernf.c

Initialize the outstanding_count to 0 in kern_init. Do not reset the outstanding_count counter when starting the ATTACH or RAU. It will be decremented when GMM receives the SIM_AUTHENTICATION_CNF or SIM_REMOVE_IND from the SIM entity.

gmm_kernp.c

Reset the outstanding_count counter to 0 after receiving SIM_REMOVE_IND. This is to make sure that counter value does not become negative.

gmm_kerns.c

Reset the counter to 0 after receiving ATTACH_ACC, ATTACH_REJ, DETACH_ACC, RAU_ACC or RAU_REJ.

4.23 OMAP500048735 C_ACI: BAT: no response structure defined for CMSS

Description:

Sending a SMS from storage does not return the message reference <mr> and optionally the <ackpdu> when supported by network.

Solution description:

The response for the command AT+CMSS has been implemented for BAT.

Since the MS_TI_FD_BAT_GDAC.exe crashes in the initial phase of the simulation test cases, the changes are not tested.

Files:

1. aci_bat.c:

Changes: Added a new structure in the response table for CMSS.

2. aci_bat_cb.c

Function:rBAT_PlusCMSS()

Changes: Sent the response to the application through BAT from mnsms_submit_cnf

3. bat.sap:

Changes: Added the new structure for the response to be sent for CMSS. In issue 61428 the response structure for %CMGL and %CMGR has been misplaced and hence it has been corrected in this issue.

4.24 OMAP500059231 C_ACI: GSM IOT - Call re-establishment failure

Description:

Call re-establishment after a Radio Link Failure fails; NW does not receive the re-establishment message. When the NW signal strength was lowered suddenly, MS reports the Radio Link Failure, but then when again in coverage the re-establishment message is sent as a primitive from CC to MM, but not transmitted on the air interface.

The behavior was different when the signal was lowered little by little, then the re-establishment worked, but still there was no audio on UL/DL.

Solution description:

File: psa_ccp.c

Function : psa_mncc_sync_ind

1. aoc resume is done outside the if condition "mncc_sync_ind -> chm.ch_mode NEQ NOT_PRESENT_8BIT" so that aoc resume is done when the aci receive synch indication MNCC_CAUSE_REEST_FINISHED.

2. psaCC_setSpeechMode () function is called outside the if condition "mncc_sync_ind -> chm.ch_mode NEQ NOT_PRESENT_8BIT" so that ACI enables or disables the vocoder when ACI receives mncc synch indication with cause MNCC_CAUSE_REEST_FINISHED or MNCC_CAUSE_REEST_STARTED respectively.

File : psa_ccf.c

Function: psaCC_setSpeechMode()

1. The if condition "ccShrdPrm.syncCs NEQ MNCC_CAUSE_REEST_STARTED" is added so that ACI always disables the vocoder when ACI receives mncc synch indication with cause MNCC_CAUSE_REEST_STARTED.

4.25 OMAPS00072248 C_SMS: Windows SMS Simulation Test Cases Compilation and Linking Error.

Description:

Sms.dll not generated successfully

Solution description:

File Modified: sms_cases.cpp

Functions/Defines Affected:

Function Name - T_CASE SMS0812E()

Last extra comment removed

File Modified: sms_steps.cpp

Functions/Defines Affected:

Function Name - T_STEP

_tc_08_12_deleting_of_short_messages_delflag_cases_success_sms812(CHAR variant)

Last extra comment removed

4.26 OMAPS00070949 C_ACI: Follow up for 68704 - Taking changes of 68721 into g23m

Description:

This is a follow up to the problem reported that AT command interpreter hangs after AT+CHLD=2

Solution description:

Files Modified:

1. psa_ccp.c

Functions/Defines Affected:

psa_mncc_setup_cnf(): In this function a condition has been put to see if calStat is other than CS_ACT_REQ then reject the primitive MNCC_SETUP_CNF .

2. aci_cases.cpp

A new test case ACI063A has been added to test the scenario, when on the MS call forward is enabled, and a MO Call is active and MT call comes since call forward is on, MT call will be forwarded and the current state will be CS_DSC_REQ and at the same time AT+CHLD=2 is given to accept the incoming call. As now the MT call is in disconnect state AT+CHLD=2 will return Error. The fix from the issue 68704 has been taken for testing this test case.

3. aci_constraints.cpp

New constraints have been added for the newly added test case.

4. aci_constraints.h

Prototype added for the newly added constraints.

5. acicc_cases.cpp

Two new test cases ACICC114A and ACICC114B have been added to test the scenario in the issue 68721.

6. acicc_constraints.cpp

New constraints have been added for the newly added test case.

7. acicc_constraints.h
Prototype added for the newly added constraints.

8. acicc_steps.cpp
New step has been added for the newly added test case.

9. acicc_steps.h
Prototype has been added for the newly added step.

4.27 OMAP500072654 C_ACI: SAT Call disconnect event is send only once by ME. Next time call is disconnected, event is not sent to SIM.

Description:

pCtbNtry -> SatDiscEvent is not properly initialized. SatSiscEvent in psaCC_FreeCtbNtry needs to be reset to FALSE.

Solution description:

As the ACI_MALLOC, does not guarantee the variables to be initialized to ZERO, so inside the function psaCC_InitCtbNtry() the variable SatDiscEvent has been initialized to FALSE. Two test cases ACISAT352A and ACISAT352B have been added to test the scenario.

Files Modified:

1. psa_ccf.c

Functions/Defines Affected:

psaCC_InitCtbNtry():

Inside this function the variable SatDiscEvent has been initialized to FALSE.

2. acisat_cases.cpp

Test case ACISAT352A has been written to test whether proper SAT disconnect event is send to SIM when consecutively two MO calls are made , and ACISAT352B has been written to test the scenario when a MO and then consecutively a MT call was made.

3. acisat_constraints.cpp

New constraints have been added for the newly added test cases.

4. acisat_constraints.h

Prototypes added for the newly added constraints.

4.28 OMAP500071386 C_ACI: error happens when dialing a new number just after the peer party terminates an existing call

Description:

The procedure to repeat this issue with E-Sample:

- 1) Make a MT call A and accept it.
- 2) During call A is active; input a new number to prepare for making a new call.
- 3) Disconnect call A at the peer party, then wait about 0.8 second, then make a MO call B to the number just input.
- 4) Call B stays at calling state and can not go to connected state.

Solution description:

Files:

1. psa_ccp.c

Function: psa_mncc_release_cnf()

Changes: After clearing the call, the pending request must be processed depending on the CHLDAD-

DInfo status,

2. aci_cases.cpp

Changes: New test case ACI1256A added to test the scenario given in the description.

4.29 OMAP500049823 C_ACI:CT_GCF- TC 28.2 & 28.3 (Constraining a single number, cat 1, 2 and 3) MS does not wait for 5 seconds between re-attempts

Description:

TC 28.2 & 28.3 failed

Solution description:

Files Modified:

1. cmh_ccf.c

Functions/Defines Affected:

cmhCC_redialCheck():

The timer value for the first redial attempt and the further redial attempts has been increased by 5 seconds.

2. l4_tim.h

A new delay timer #define ACI_DELAY_TIMER 5000 has been defined .This delay timer is used to put a extra delay of 5seconds in the various redial attempts.

4.30 OMAP500051729 failure in End User Systems Approval, Measurement Reporting on new strong Neighbour Cell

Description:

The End User Systems Approval fails in test 5.4 Measurement Reporting (Refer attachments). New strong Neighbouring Cell (NC) is not reported fast enough after the NC becomes active.

Solution description:

The detailed solution is outlined in the document 34304_LLD “Measurement Reporting Improvement”

4.31 OMAP500065177 C_DL: Not possible to send SMS with long text in Lucent BSS

Description:

When sending an SMS to any number with the following content (text):

Jadmjpgjtwmjadmwtjagptjadmwtkdm

This SMS produces an error and is not sent. This problem can be reproduced 100% on Lucent BSS covered areas.

Solution description:

fixed

4.32 MAPS00071023 C_IF_L23_NAS: SIM: Fix for the issue SENDING SMS with SAT Enabled SIMs

Description:

In “Plus” and “Lite” image MT SMS is not received on Hutch and Spice SIM.

Solution description:

This problem will occur on the SIM's where the MO SMS is controlled by the SIM. ACI sends ENVELOPE Cmd to SIM in sim_toolkit_req SIM entity will handle the sim_toolkit_req primitive sent by MMI, in the function before sending sim_toolkit_cnf SIM calls FKT function FKT_Envelope() in this function it calls FKT_convert_error() which will update the sim_data.sim_data_len. Here the problem is before calling the FKT_convert_error() function the value of sim_data.sim_data_len is not set to ZERO which may cause problems while sending sim_toolkit_cnf to ACI. If the sim_data.sim_data_len is not set to ZERO then FKT_convert_error() function takes the previous value of sim_data_len and processes which actually creates the problem in ACI, if ACI receives the wrong length.

Solution is to reset the value of sim_data.sim_data_len = 0 before calling the FKT_convert_error function.

Files Modified:

uicc_fkt.c

Functions/Defines Affected:

FKT_Envelope()

Below are the changes:

```
sim_data.sim_data_len = 0; /* THIS IS THE CHANGE FOR THE FIX */  
TRACE_EVENT("sim_data.sim_data_len initialised as 0"); /* for debug only - to be removed */  
error = FKT_convert_error (sw1sw2,result_info.c_result);
```

4.33 OMAP500070444 C_ACI: GCF Test Case 27.22.7.1 MT call event, ORGA fail, CRTU-G pass

Description:

1st ENVELOPE fails at byte[2]
2nd ENVELOPE fails at byte[2]

Solution description:

If the calling party address and subaddress is present in the mncc_setup_ind, then only it will put the data in the envelope which is sent to SIM.

Simulation test case is written to replicate the behaviour of the TS 27.22.7.1

Files:

1. psa_satf.c

Function: psaSAT_BuildEnvEventDwn()

Changes: The calling party address and subaddress is filled in the envelope only when it is present in the mncc_setup_ind.

2. acisat_cases.cpp

Changes: Written one new test case ACISAT357 to test the scenario in the description.

3. acisat_steps.cpp

Changes: Added new step to initiate an MT call.

4. acisat_constraints.cpp

Changes: Added new constraints for the test case.

5. acisat_constraints.h

Changes: Included the prototype of the newly added constraints.

6. acisat_steps.h

Changes: Included the prototype of the newly added step

5 Enhancements

none