

# **N2CS – g20 Product Released SW versions - customer notes**

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History

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## Software versions & Generic sales models

**Table 1: G20 Generic sales models**

3mm Stacking height	
SW Version	900/1800Mhz
G208-G-0C-04-76R	<b>F3004DL</b>
SW Version	850/1900Mhz 0.8W
G208-G-0C-04-76R	<b>F3003DL</b>
SW Version	850/1900Mhz 2W
G208-G-0C-04-76R	<b>F4004DL</b>

**Note** - suffix character at the end of the model numbers designate the SW version.

**Table 2: SW versions & SVN numbers**

SW Version	SVN	Model suffix	Notes
G208-G-0C-04-12R	<b>30</b>	<b>C</b>	<b>NA/ROW</b>
G208-G-0C-04-30R	<b>32</b>	----	<b>ROW only</b>
G208-G-0C-04-34R	<b>33</b>	<b>F</b>	<b>NA/ROW</b>
G208-G-0C-04-44R	<b>35</b>	<b>G</b>	<b>ROW only</b>
G208-G-0C-04-49R	<b>37</b>	<b>H</b>	<b>ROW only</b>
G208-G-0C-04-58R	<b>40</b>	<b>J</b>	<b>NA/ROW</b>
G208-G-0C-04-61R	<b>41</b>	<b>K</b>	<b>NA/ROW</b>
G208-G-0C-04-76R	<b>48</b>	<b>L</b>	<b>NA/ROW</b>

## **G208-G-0C-04-61R to G208-G-0C-04-76R**

**Table 3: G208-G-0C-04-76R - New Features**

<b>New Features</b>		
1	Libgg04840	AT+MFIC – enables filtering incoming calls and controlling the RING indicator format.
2	LIBff63137	Enhance MIPCALL capabilities – Application has an option to return indications whether data passed or didn't pass. – Application can return acknowledgement on what segments of data passed.
3	LIBff63135	Voice Recognition feature – AT+MVTR, AT+MVSET, AT+MVAD. This capability is flex dependant and is not available on the generic model. The Voice Recognition works with Analog & Digital audio.
4	LIBgg30194	Add ability to Change the alert audio path between the speaker and the transducer according to flex file. Generic model will keep the same behavior.
5	LIBgg23907	Enable filtering the +MCI print out results according to requested band.
6	LIBff60364	Add ability for PPP automation to initiate PPP negotiation. Upon dial command (ATD*99#) for GPRS session from peer, modem will immediately send LCP Configure-Request to peer. This feature is Flex dependent, hence accordingly to flex value modem will determine whether to initiate PPP negotiation or wait for peer to start PPP negotiation. Default behavior for modem is to initiate PPP negotiation.
7	LIBgg52026	Add ability to store CSNS mode value in phone memory to be used after power up. New CSNS mode value will be effective immediately after appropriate CSNS set command.
8	LIBgg48061	Add the ability to wake up with digital audio active – Flex dependent, default value in generic mode remains analog audio.

**Table 4: G208-G-0C-04-76R – Network**

<b>Network</b>		
1	Libgg39142	+COPS – COPS automatic NW search interaction with MUX feature was improved.
2	LIBgg34955	+COPS – Automatic Network Selection Mode will start search from HPLMN.
3	LIBff75893	Update PLMN list to PLMN G 01.00.48I & update short name from: selist01-JUN-05.
4	LIBff78678	AT+COPS will reject wrong network input.
5	LIBgg80844	Large GPRS packet size when roaming is enabled
6	LIBhh09818	Enable COPS deregister command immediately after SIM swap

**Table 5: G208-G-0C-04-76R – Phonebooks**

<b>Phonebooks</b>		
1	LIBff67748	When searching in Phone Book by name, adjust the searched string maximum length according to currently selected character set.
2	LIBff28799	Improved ATD per "alpha".
3	LIBgg41549 LIBee16824	ATD with "alpha" should search in all phone books like: LD, RC, MC.
4	LIBff18125	Unsolicited reports of "QD", "SD", "ON", "EN", "RC", "MC" & "DC" entries will include the alpha tag.
5	LIBgg94141	Storing a number with a "+" prefix will store <toa> 145 (international number)

**Table 6: G208-G-0C-04-76R - HW Lines & Com**

<b>HW Lines &amp; Com</b>		
1	LIBgg37792	Set RS232 flow control according to active profile on power up.
2	LIBff94428	After g20 enters automatic baud rate detection mode and before baud rate synchronization, g20 didn't enter sleep mode.
3	LIBgg62642	Fix "GPRS Coverage" line behavior – Now, there is indication if coverage is lost.
4	LIBgg92969	RI line will also signal during a GPRS session for an incoming DATA call

**Table 7: G208-G-0C-04-76R – SMS**

<b>SMS</b>		
1	LIBff88554	Store MT Class 0 SMS in SIM.
2	LIBgg30161	Overcome the problem of zero TP-UDL length SMS stored in memory if last character of GSM encoded data is an escape character.
3	LIBgg24095	+CPMS & MUX interaction was fixed.
4	LIBff91306	SMS alert is heard when receiving SMS.
5	LIBff64714	Syntax: +CMGS/+CMSS: extended error change
6	LIBff63676	Sending or storing an SMS in text mode while DCS = 7bit & character set = GSM will be rejected when the input text (data) is longer than maximum valid length.
7	LIBgg33893	When receiving a voice mail messages from DA, which has no CLI and has protocol ID of replacing SMS: If a voice mail message that doesn't have CLI already exists in memory, the new received voice mail will replace the old one. If there isn't such a message, then the new received voice mail message is just stored into memory.
8	LIBgg48132	Correct feature interaction of an incoming call when sending an SMS.
9	LIBgg56467	Fix handling character 0x1B in read SMS if undefined extended char in UD of SMS.
10	LIBhh00286	+CIEV full SMS indication to be updated if an SMS is deleted from a full memory.

**Table 8: G208-G-0C-04-76R - GPRS & internal IP stack**

<b>GPRS &amp; internal IP stack</b>		
1	LIBgg20030	During MIPCALL and MO/MT call, second context activation or COPS set will be rejected.
2	LIBff79346	Disable the MIPSEND and MIPPUSH commands when socket is not opened yet.
3	LIBff70934	Fix uplink flow control, MIPXOFF/MIPXON will be sent in case uplink is flowed OFF/ON.
4	LIBgg00941	Sending MIPPUSH on an empty stack will not cause any stack problem.
5	LIBff91323	Handling of MIPCALL socket when server side breaks down.
6	LIBgg52469	Fix sending data to DTE when working in low baud rate – counter was different from zero while no more MIPRTCP messages are sent to DTE.
7	LIBgg53048	Fix handling close command of socket 4.
8	LIBgg33886	Allow CGATT=0 even if the G20 is already detached.

**Table 9: G208-G-0C-04-76R – Misc**

<b>Misc</b>		
1	LIBgg20025	AT+CDS unsolicited report will be ETSI compatible – the leading redundant comma character was removed.
2	LIBff80494	AT+CCFC: Add the support of "," character to allow call forwarding with DTMF.
3	LIBff80639	AT+CSVM will support only the characters '0'-'9' & '+' at beginning of number, according to ETSI.
4	LIBff87169	+CDEV corrections - cursor indication while SMS creation on 2nd/3rd lines.
5	LIBgg51214	AT+CPAS will return PHONE READY while call is released.
6	LIBgg37228	Correct the ATO command so that it will take affect after intruder call.
7	LIBgg55912	Disable +CRTT command when there is an incoming call – phone will RING.
8	LIBgg56438	Fix routing of extended ring style to the correct path indicated by MAPATH.
9	LIBgg61626	CAT E failure at ADR – TC: 27.22.7.2.2 – the fix is related to STK feature.
10	LIBgg77041	Flex dependant - no change in generic model - Sleep mode behavior after AT command sent to G20
11	LIBgg55915	CLVL value will be saved after power cycle.
12	LIBgg64343	+CRTT command will be rejected when another alert is already in progress
13	LIBgg57360	Higher tone level of DTMF through +VTS command for 'A-D' DTMF's
14	LIBff83599	AT+MDC. Fix response after MO voice call is answered when ATX=1.
15	LIBee26288	Support barring of SMS through CLCK call barring facilities
16	LIBhh07076	Factory issue
17	LIBgg66764	CAT A failures at ADR - 27.22.7.5

## **G208-G-0C-04-58R to G208-G-0C-04-61R**

**Table 10: G208-G-0C-04-61R - New features**

<b>New features</b>		
1	LIBff63121	<u>AT+MIOD, AT+MIOC</u> New commands which enable full control of 8 GPIO lines via AT commands. Each line can be configured for input or output and the level of line can also be set (when line configured to output)..
2	LIBff63134	<u>AT+MCI</u> New command that provides information on the serving cell and the 6 adjacent cells.
3	LIBff63060	<u>AT+CMGW</u> Reject storing SMS in TEXT mode in case DCS is default alphabet and current used character set is UCS2 or UTF8.
4	LIBff72161	<u>AT+CSMP</u> An error message will be returned in case the 1st or 4th parameters have values out of valid range.
5	LIBff61969	<u>+CDEV</u> The +CDEV indication will include the Check Mark sign for selected menu items.

**Table 11: G208-G-0C-04-61R - Network**

<b>Network</b>		
1	LIBgg04094	Handoff issue when doing an IRAU: XID request with N201-U value above 500 wasn't accepted by g20. Solving this issue was done, by porting two CRs solved by Toulouse GSM Stack team number: LIBdd92007 & LIBdd94482.

**Table 12: G208-G-0C-04-61R - Phonebooks**

<b>Phonebooks</b>		
1	LIBff90474	An error response will be returned to phonebook AT commands during phone books download.
2	LIBee09070	<u>AT+CPBR</u> Wrong index was returned for full phonebooks "DC", "RC" and "MC".

**Table 13: G208-G-0C-04-61R - SMS**

<b>SMS</b>		
1	LIBff79425	<u>AT+CPMS</u> Wrong input will be rejected.
2	LIBff95176	Solve reset of g20 when SMS with certain <pid>'s arrived without being read.
3	LIBff70293	Enable storing WAP Push SMS, Game Specific SMS and Message Waiting Indication SMS into the SIM.
4	LIBee33443	Support Status Report MT messages and save them into the SIM. This addition is available using flex file (configuration file) 18.

**Table 14: G208-G-0C-04-61R - HW Lines & Com**

<b>HW Lines &amp; Com</b>		
1	LIBff91210	<u>GPIO</u> Link USB DATA session indicator to FLEX settings.

**Table 15: G208-G-0C-04-61R - GPRS & internal IP stack**

<b>GPRS &amp; internal IP stack</b>		
1	LIBff65172	<u>AT+CGOREQ/+CGQMIN/+CGDCONT:</u> 1st parameter is optional.

**Table 16: G208-G-0C-04-61R - Misc.**

<b>Misc.</b>		
1	LIBff80628	<u>AT+CMEE , AT+CSDH</u> When a set command is given with no parameters the default values will be set.
2	LIBff85649	Enable logging on g20 units that come from factory and have never been updated.
3	LIBff30077	<u>AT+CCLK</u> Time zone parameter supported.
4	LIBff51619	<u>AT+FPR</u> FPR will return the OK before changing the baud-rate to the requested value.
5	LIBff69519	<u>+CDEV</u> <highlighted> field for highlighted option in SMS input methods.
6	LIBff87169	<u>+CDEV</u> The cursor indication will be printed out through CDEV indications during SMS editing.

## **G208-G-0C-04-49R to G208-G-0C-04-58R**

**Table 17: G208-G-0C-04-58R - New features**

<b>New features</b>		
1	LIBff43359 LIBff46489	<u>AT+CSDH, AT+CSMP</u> SMS text mode – Full support of CSDH & CSMP.
2	LIBff40457	Full AMR support.
3	LIBff47623	<u>AT+MIPCONF</u> New AT command +MIPCONF, configure Internal IP stack parameters that define retry mechanism of the MIPCALL.
4	LIBff29017	<u>AT+CMER</u> CIEV indication 12 to indicate SIM card inserted/removed.
5	LIBff33508	<u>ATS100</u> New AT command. This value defines the minimum time before the terminal goes into sleep mode if no RX/TX activity occurs. After ATS100 seconds, the g20 will send out a wakeup-out signal and wait ATS102 seconds before sending out any data to the terminal.
6	LIBff36542	<u>AT+CBST</u> V.22 bis, 2400 bps non-transparent CSD call.

**Table 18: G208-G-0C-04-58R - Network**

<b>Network</b>		
1	LIBff45144	GSM/GPRS stack updates for PTCRB - NAPRD
2	LIBff25758	<u>AT+COPS</u> After deregistration (COPS=2) and power off, g20 will power up in automatic search mode.
3	LIBff25771	<u>AT+COPS</u> Replacing a SIM card will change the g20 search mode to automatic.
4	LIBff25820	<u>AT+COPS</u> After making an emergency call, the search mode of the phone is changed to automatic, this is to assure maximum availability to be called back.
5	LIBff48501	<u>AT+COPS</u> Fixed wrong output of COPS=? That appeared if more than 4 networks were available.
6	LIBff39244	<u>AT+COPS, AT+CLIP</u> CLIP? & COPS=? Will not lock the AT command interface when a NW is not available
7	LIBff21359	<u>AT+CREG</u> CREG unsolicited indication will appear any time there is a change in the camped cell.
8	LIBff20874	<u>AT+CREG, AT+CGREG</u> CREG/CGREG indication – All five options defined in ETSI 7.07 are supported.
9	LIBff28473	<u>AT+COPS</u> A forbidden NW that was attempted to be registered will remain in the COPS=? response.
10	LIBff32701	<u>AT+COPS</u> AT+COPS set and test commands will be operational when ready timer is active (T3314).
11	LIBff37026	Update PLMN list to PLMN_G_01.00.3FI

**Table 19: G208-G-0C-04-58R - Phonebooks**

<b>Phonebooks</b>		
1	LIBff57751	<u>AT+CPBW</u> When the PB is full, trying to store a PB record will result with the error “memory full”.
2	LIBff38748	<u>AT+CPBW</u> MC, RC, DC PB records can be deleted.
3	LIBee35392	The AT interface can be used when the SIM Phonebooks download.
4	LIBff38067	<u>AT+CPBW</u> Syntax – CPBW=? Response, the range of PB entries will appear in brackets.
5	LIBff21315	<u>AT+CSVM</u> Support setting voice mail number (CSVM) up to 32 chars.

**Table 20: G208-G-0C-04-58R - SMS**

<b>SMS</b>		
1	LIBff60324 LIBee01247	<u>AT+CPMS</u> revised command: <mem1> - (SM, ME, BM, MT) – Default MT. <mem2> - (ME) <mem3> - (SM) During SIM SMS download at phone power up the CPMS command will return SIM BUSY and not 0 SMS's.
2	LIBff05075	<u>AT+CMGF, AT+CMGS, AT+CMGW, AT+CMGR, AT+CMSS, +CMGL</u> Revised PDU mode. +CMGF default setting is 0, PDU mode.
3	LIBee16256	<u>AT+CNMI</u> Support SMS routing directly to TE when MT SMS storage is full (according to CNMI settings).
4	LIBff05102	<u>AT+CMGL</u> Add SMS timestamp to AT+CMGL/MMGL.

**Table 21: G208-G-0C-04-58R - Call control**

<b>Call Control</b>		
1	LIBff27496	<u>AT+CHLD</u> Fixed lockage of AT+CHLD command in case of quick entering.
2	LIBff57088	<u>AT+CLCC</u> Set AT+CLCC to be a basic command.
3	LIBff28060	<u>AT+CLIR</u> Saving +CLIR status after power cycle and support '0' value.
4	LIBff15706	<u>ATH, AT+CHLD</u> Enable releasing a call that is already in a releasing process.
5	LIBff43823	<u>ATD</u> ATD disconnects all calls in releasing state.

**Table 22: G208-G-0C-04-58R - HW Lines & Com**

<b>HW Lines &amp; Com</b>		
1	LIBff46043	<u>AT+MPCMC</u> +MPCMC can be given regardless of SIM status.
2	LIBff36540	CTS line at power up will be high until the UART is ready

**Table 23: G208-G-0C-04-58R - GPRS & internal IP stack**

<b>GPRS &amp; internal IP stack</b>		
1	LIBff25791	<u>AT+CGATT</u> Attach/detach indications when transferring between networks with GPRS enabled and with GPRS disabled.
2	LIBff42614	<u>AT+MIPCALL</u> +MIPCALL will not be correlated to the +CGDCONT settings.
3	LIBee06860	<u>AT+CGATT</u> PDP context status is updated when CGATT=0 is given
4	LIBff21383	<u>+MIPRTCP, +MIPRUDP</u> Fixed overflow of data size counter in +MIPRTCP/+MIPRUDP indications.
5	LIBff18129	PDP context and incoming call interaction was fixed.
6	LIBff27500	<u>AT+CGATT</u> +CGATT status is updated when losing coverage.
7	LIBff19497	<u>AT+MIOPEN</u> Fixed 54th TCP connection not opening after 53 opened and closed connections.
8	LIBff18133	<u>AT+CGACT</u> CGACT lockup that occurred as a result of the following scenarios was fixed: 1. PDP context deactivate request was sent from the Network. 2. Net related problems triggered module to deactivate PDP context without user interaction.

**Table 24: G208-G-0C-04-58R - Misc**

<b>Misc.</b>		
1	LIBff60973	<u>AT+CRSM</u> Returns ICC-ID up to 20 chars.
2	LIBff59887	<u>AT+CDEV</u> Command enhanced, gives <highlighted> information for back lighted menu options.
3	LIBff49562	<u>AT+CPIN</u> At power up, When the SIM is inserted but not ready yet, CPIN? Will return SIM BUSY instead of SIM NOT INSERTED.
4	LIBff26198	<u>AT+VTS</u> When using AT+VTS, If the previous DTMF transfer didn't end yet, any other DTMF transfer request will be blocked.
5	LIBee33123	<u>AT+CIMI</u> When giving +CIMI before the g20 had a chance to read the SIM IMSI the g20 will not return the previous saved IMSI.
6	No ID	Various syntax issues (change extended errors; remove redundant <CR>, etc.)

**G208-G-0C-04-44R to G208-G-0C-04-49R**

Table 25: G208-G-0C-04-49R - Call control

<b>Call control</b>		
1	LIBff06310	Call control no longer effected by receiving a large number of SMS

## **G208-G-0C-04-34R to G208-G-0C-04-44R**

**Table 26: G208-G-0C-04-44R - New features**

<b>New Features</b>		
1		Enhanced capability to reprogram g20 with configuration file.
2	LIBee38426	Dynamic detection of RS232/USB connection cable.
3	LIBff05202	<u>AT+CRSM</u> Command extended to enable reading the CPHS Customer Service Profile.
4	LIBee06903	<u>AT+CRSM</u> Command extended to enable reading the preferred languages list from the SIM
5	LIBff00092	Implement Logger capability to log AT command interface.
6	LIBee21061	<u>AT+CPBS</u> More phonebooks available. +CPBS: "ME", "SM", "MT", "ON", "DC", "MC", "RC", "EN", "AD", "QD", "SD", "FD")

**Table 27: G208-G-0C-04-44R - Network**

<b>Network</b>		
1	LIBff20743	Update PLMN list to PLMN_G_01.00.37I
2	LIBdd76200	<u>AT+COPS</u> Each PLMN in +COPS test response will appear once. Only available NW's will appear.
3	LIBff20755 LIBee19079 LIBee18530	<u>AT+COPS/+CREG/CGREG</u> COPS, CREG and CGREG interaction fixes. CREG and CGREG indications will report states 0 to 5 as defined in ETSI GSM07.07.
4	LIBff00269 LIBee38224	<u>AT+COPS</u> +COPS Manual –g20 will stay unregistered when requesting a NW that doesn't exist unless the HPLMN is available.
6	LIBee35390	<u>AT+CPOL/+COPS</u> AT+COPS=0 after AT+COPS=2 didn't search according to CPOL table, but returned to the last PLMN.
6	LIBee24392	<u>AT+CPOL</u> CPOL list length links to EF in the SIM.
7	LIBee25045	<u>AT+CPOL/+COPS</u> Insert short name in the PLMN list.
8	LIBff06227	<u>AT+CPOL</u> The CPOL indexes are changed from 1-33 to 0-32. The home PLMN is displayed in index 0. The editable preferred list will be from index 1 to 32.
9	LIBee24401	Allow entering a PLMN to the preferred list even when the list is full.
10	LIBee17011	<u>AT+CGOMIN/+CGOREQ</u> Test format - first field in response is now PDP_type and not <cid>.
11	LIBee32020	<u>AT+CGACT</u> GPRS/CGACT in "stress" cases caused g20 not to return responses.
12	LIBff18165 LIBee23656	<u>GPRS session</u> When relevant configuration bit is set and the G20 is in FD mode, connecting to GPRS is allowed only if "*99" or "*99#" are in the FD list. This bit default value is 0.
13	LIBee19835	<u>AT+CGACT</u> Aborting activation or deactivation of +CGACT command will close the PDP context.

14	LIBee32039	<u>AT+CSQ</u> When phone is not in dedicated state the BER is not measured, and is therefore unknown. The CSQ will report 99 and not 0.
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**Table 28: G208-G-0C-04-44R - Phonebooks**

<b>Phonebooks</b>		
1	LIBee06880	<u>AT+CPBR</u> Storing long telephone numbers (> 20) will be rejected if EXT1 in the SIM is full.
2	LIBff04318 LIBff14505	<u>AT+CPBR</u> Various phonebook problems related to alpha coding schemes were fixed.
3	LIBee41220	<u>AT+CPBR</u> When writing to a PB record using an <alpha> that contains an extended GSM character, if the record does not fit the storage on the SIM, the request will be rejected
4	LIBff14414	<u>AT+CPBF</u> +CPBF with an empty string will return all PB records.
5	LIBee26184	<u>ATD</u> Allow replacement of wildcard in FD Phonebook with the international dialing character '+'. .
6	LIBee05082	<u>AT+CPBW</u> Storing telephone numbers with length 41 digits is now rejected.

**Table 29: G208-G-0C-04-44R - SMS**

<b>SMS</b>		
1	LIBee01364	<u>AT+CMGR</u> AT+CMGR on an empty index will return OK.
2	LIBdd93399	<u>AT+CMSS</u> Sending a message now changes its state to "STO SENT".
3	LIBff10442	<u>AT+CMGS/+CMSS</u> When the relevant configuration bit is set to 0 and the G20 is in FD mode, sending SMS will be allowed only to numbers in the FD PB.
4	LIBff07578	<u>AT+CMGS/+CMGW</u> In SMS text mode, while CSCS is set to UTF8, inserting characters that have no conversion to GSM will not be truncated.
5	LIBff10270	<u>AT+CMGF</u> CMGF default value on power-up is "0" - PDU mode.
6	LIBee00609	<u>AT+CMGR</u> Timestamp output format contains leading zero's and time zone information.

**Table 30: G208-G-0C-04-44R - TCP**

<b>TCP/IP &amp; UDP/IP</b>		
1	LIBee29247	Syntax - TCP application fixed to return CME errors instead of CMS errors.
2	LIBff02805	<u>AT+MIPSET</u> When watermark is reached the data is pushed out.

**Table 31: G208-G-0C-04-44R - Call control**

<b>Call control</b>		
1	LIBff16367 LIBee35303	E-call will not disconnect if SIM card is removed.
2	LIBee39573	<u>AT+CCFC</u> Support +CFCC possibility to apply settings on a combination of facilities.
3	LIBee32032 LIBff04323	<u>AT+CLCC</u> CLCC indication for a released call when losing coverage or removing a SIM was fixed, and various wrong indications were removed.
4	LIBee32031	<u>AT+CHLD</u> E enable terminating a held call using at+chld=1x.
5	LIBee23654	Restrict call forwarding in FD mode, only to numbers in the FD PB list.
6	LIBee07823	Play Busy Tone when calling a busy number. Using call control AT commands such as ATA, ATD, ATZ, ATCHUP and CHLD can stop the busy tone.

**Table 32: G208-G-0C-04-44R – HW Lines & Com**

<b>HW Lines &amp; Com</b>		
1	LIBee08365	<u>DCD line</u> DCD now signals when text is entered with +CMGS.
2	LIBee08403	CTS behavior in case of AT+MSCTS=1 and sleep mode is fixed.

**Table 33: G208-G-0C-04-44R - MUX**

<b>MUX</b>		
1	LIBee11226	<u>AT+CLIP</u> Set +CLIP on channel 1 in order to receive +CLIP indication for MT data call.
2	LIBee21202	Restrict to one active PDP context at any moment when MUX is active.
3	LIBdd89237	AT command limitations in MUX state. Commands that are not allowed on a specific channel are now rejected. This will prevent unintended use.
4	LIBee28075	<u>AT+MDSI</u> +MDSI reports are available in MUX mode.

**Table 34: G208-G-0C-04-44R - Misc**

<b>Misc</b>		
1	LIBff13605	<u>+CIEV</u> Unsolicited +CIEV: 6,0 will appear after PIN1 is inserted.
2	LIBee08409	<u>AT+CFUN</u> +CFUN set command with <rst> = 1 fully resets the phone including PIN request if PIN enabled.
3	LIBee21708	<u>AT+CPUC</u> <ppu> field in +CPUC receives decimal values, this is achieved by entering a string <ppu> value and not an integer.
4	LIBee41765	<u>AT&amp;F</u> AT&F is restricted to support the value zero.
5	LIBee09576	<u>AT+CRSL</u> Setting AT+CRSL to '0' should perform as a mute. The fix requires configuration file version 14.
6	LIBee18420	Problems with echo sent to the terminal, especially when using low baud-rates were fixed.



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7	LIBee35252	The following AT commands can be entered without a SIM (basic commands): +CPAS, +GMI, +GMM, +GMR, +FMI, +FMM, +FMR, +MCWAKE, +MSCTD, +MTCTS, +MTDTR.
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## **G208-G-0C-04-30R to G208-G-0C-04-34R**

Note – Full description of new AT commands is found in the updated developer guide.

**IMPORTANT – Re-flashing this SW version will cause the EVB keypad to malfunction. Pressing the keypad will not create any input.**

**This SW version introduces a new HW indication “End GPRS session over USB”. In order to provide this ability the I/O lines of the keypad are used.**

**Table 35: G208-G-0C-04-34R - New features**

<b>New features</b>		
1	LIBee17452	<u>AT+MDSI</u> Motorola Deactivate SIM Indications. The AT command will enable unsolicited indications reporting SIM deactivation and invalidation
2	LIBee15811	New error prompt "+CME ERROR: dial string too long". Prompts when using a number parameter with more then 20 chars.
3	LIBdd75109	<u>AT+MFS</u> Motorola Frequency of Search - used to determine how long the g20 will wait before attempting to re-register after a registration attempt has failed.
4	LIBdd75104	<u>AT+CTFR1</u> Command terminates an incoming call and diverts the caller to the number previously defined in CCFC, or to the voice mail, if one exists for the subscriber.
5	LIBdd75107	<u>AT+MDC</u> Display Connect message (this command allows the user to select between “OK” and “CONNECT” message to be displayed after call connection).
6	LIBdd75111	<u>AT&amp;J</u> No action, compatibility only
7	LIBdd75112	<u>AT&amp;V, AT&amp;W, AT&amp;Y</u> New AT commands for handling two profiles. AT&V - Display active stored profiles parameters. AT&W[<n>] - Store the current profile. AT&Y[<n>] – Set default power up profile flag. (Syntax of usage can be found in the updated g20 developer guide).
8	LIBdd75117	<u>AT+CLAC</u> AT command that lists all available AT Commands.
9	LIBdd49213	<u>AT+CRSM</u> Restricting SIM Access, reading SIM elements.
10	LIBdd75110	<u>AT+MRST</u> AT command for issuing a SW reset to the g20.
11	LIBdd75118	<u>AT+MCSN</u> Motorola Change stored Subscriber Number on the SIM card
12	LIBdd70303	<u>AT+MPCMC</u> This command selects the use of PCM clock continuously. Command action is determined after power recycle.
13	LIBee05866	<u>New GPIO output line – (Keypad IO)</u> Indicates end of GPRS session in case of external device, or terminal is currently connected via USB interface.

**Table 36: G208-G-0C-04-34R - SMS & Phonebooks**

<b>SMS &amp; Phonebooks</b>		
1	LIBdd79829	<u>AT+CPBW</u> The "SM" phonebook was updated to handle entries longer than 14 characters.
2	LIBee06819	<u>AT+CMGW, +CMGS, +CPBW, +MCSN</u> When using character set 8859-1 in a SMS characters are not truncated.
3	LIBee06146	<u>AT+MPBR/MPBW/MPBF</u> Test format wrong info fixed.

**Table 37: G208-G-0C-04-34R - TCP**

<b>TCP/IP &amp; UDP/IP</b>		
1	LIBdd91914	<u>AT+MIPRTCP/+MIPRUDP</u> When receiving data the second parameter <left> is updated to indicate how much data is left in the protocol stack.
2	LIBdd92413	<u>AT+MIPCALL</u> Authentication of 'user name' and 'pass word' for PDP context.

**Table 38: G208-G-0C-04-34R - Call control**

<b>Call control</b>		
1	LIBdd76194	<u>AT+CPOL</u> In numeric mode, an input larger than 6 digit is rejected.
2	LIBdd82074	<u>AT+CCFC</u> Syntax correction, add <CR><LF> before final OK.
3	LIBee03196	<u>AT+CCWA</u> Syntax correction, add <CR><LF> at end of command output.
4	LIBee19815	<u>ATD/ Fixed Dialing</u> Is enabled even if first char is "?".
5	LIBee06909	Added support for fixed dialing with single wild card
6	LIBdd82073	<u>AT+CLCC</u> Fixed the wrong reports in case of self-release.
7	LIBee16069	PLMN list updated to PLMN_G_01.00.34I.

**Table 39: G208-G-0C-04-34R – HW Lines & Com**

<b>Line &amp; Serial communication</b>		
1	LIBee09493	<u>AT+CBAUD/IPR</u> Updated behavior rejects illegal <n> values.
2	LIBdd77974	<u>ATV</u> Fixed behavior, same behavior for all AT commands.

**Table 40: G208-G-0C-04-34R – Misc.**

<b>Misc.</b>		
1	LIBee0579	<u>AT+CPUC</u> The value of current set <ppu> is presented.
2	LIBdd76198	Presentation in short alpha format of new unknown operator is available.
3	LIBee15814	<u>AT\$</u> Output list of supported AT commands updated.
4	LIBee07833	<u>AT\S</u> Present a corrected value of &D.



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5	LIBee05056	<u>AT+CFUN</u> May be issued as a basic AT command.
6	LIBee06851	<u>+CDEV</u> Syntax update – value printed on the next line.

## **G208-G-0C-04-19D to G208-G-0C-04-30R**

**Note** – Full description of new AT commands is found in the updated developer guide

**Table 41: G208-G-0C-04-30R - New features**

<b>New features</b>		
1	LIBdd75106	<u>AT+MCSAT</u> Enable/disable/exercise SMS alert tone for arriving SMS.
2	LIBdd92450	<u>AT+CDEV</u> Respond in the AT+CMER command.
3	LIBdd50368	<u>ATS97</u> Indicate if antenna connected.

**Table 42: G208-G-0C-04-30R - SMS & Phonebooks**

<b>SMS &amp; Phonebooks</b>		
1	LIBdd91923	<u>AT+CMGS, +CMGW</u> Enable sending the prompt sign '>' to DTE even if the Echo is in OFF state.

**Table 43: G208-G-0C-04-30R - TCP**

<b>TCP</b>		
1	LIBdd72218	Reopening a TCP/UDP socket after GPRS session closed.
2	LIBdd66154	Options in TPC header - G20 sends tcp options only if there are options and no more bytes than the real options + padding, with every TCP packet.

**Table 44: G208-G-0C-04-30R - Call control**

<b>Call control</b>		
1	LIBdd57086	<u>ATD</u> Characters after ", " – are now transferred as DTMF tones after call is connected.
2	LIBdd92547	<u>AOC</u> New error code for SIM service option supported for AOC.
3	LIBdd78928	<u>AT+CUSD &amp; CLIR</u> Fixed wrong interaction between +CUSD and +CLIR. When CUSD mode =1, and a CLIR read action is performed no errata +CUSD responses appear in CLIR response.

**Table 45: G208-G-0C-04-30R - HW lines & Com**

<b>HW lines &amp; Com</b>		
1	NO CR	<u>DTR Line</u> Improved latency of g20 handling of DTR.
2	LIBdd91703	<u>Sleep mode</u> Behavior of wakeup out line is corrected while in sleep and awake modes.



Table 46: G208-G-0C-04-30R – Misc.

<b>Misc.</b>		
1	LIBdd97408	<u>AT+MMICG</u> Enabled in advanced Audio commands.
2	LIBdd72531	<u>AT+CSVM</u> Syntax fix in response.

Table 47: G208-G-0C-04-30R - GPRS

<b>GPRS</b>		
1	LIBdd50437	GPRS Coverage IO pin Indicates GPRS coverage regardless to attachment status.
2	LIBdd74518	PAP Authenticate Ack does not include Msg-Length byte

## **G208-G-0C-04-12R to G208-G-0C-04-19D**

**Note** – Full description of new AT commands is found in the updated developer guide

**Table 48: G208-G-0C-04-19D - New features**

<b>New features</b>		
1	No ID	<u>ATI9</u> Returns the existing flex model from the unit.
2	LIBdd47665	<u>STK</u> New supported SIM events: Ev-List, Lunch brw, Idle text, Profile download, DTMF.
3	LIBdd29408	<u>AT+CIEV</u> Indications reporting. The following indications will be supported: (battery state, RSSI, NO Service indication, SMS envelope, Call in progress ,Roaming ,PIN1 required, SMS MT storage is full, GPRS coverage).

**Table 49: G208-G-0C-04-19D - SMS & Phonebooks**

<b>SMS &amp; Phonebooks</b>		
1	LIBdd75116	<u>AT+CPBW</u> GSM character set. Non-allowed characters are rejected.
2	LIBdd65219	<u>AT+CMSS</u> In PDU mode. Fixed wrong extended error.
3	LIBdd69937	<u>AT+CNMI</u> Fixed +CMTI report.
4	LIBdd64796 LIBdd74042	<u>AT+CMGR,+CMGL</u> Correct presentation of data content SMS when using coding scheme UCS2. Reading or listing a 8 bit PDU encoded SMS messages is now possible.
5	LIBdd68325	<u>+CBT</u> Cell broadcast event reporting - Header content updated to display all actual values.
6	LIBdd72537 LIBdd72535	<u>AT+CMSS</u> - CMSS can now be used even when SMS memory is full. - When memory is full and a MT SMS arrives it is now rejected correctly.
7	LIBdd72529	<u>AT+MUPB</u> Unsolicited report for missed call.
8	LIBdd68394	<u>AT+CPBF</u> Search available in "LD", "DD", "RC", "MC" books.

**Table 50: G208-G-0C-04-19D - TCP**

<b>TCP</b>		
1	LIBdd66468 LIBdd65177 LIBdd65174	<u>AT+MIPCALL</u> - Updated message when interrupting. - While in active MIPCALL answered MO voice call - ATH does not work. - Non-stable order of "no carrier" message.

**Table 51: G208-G-0C-04-19D - Call control**

<b>Call control</b>		
1	LIBdd68681	Releasing a mobile terminated data call fixed.
2	LIBdd68762	<u>AT+CLCC</u> CLCC indicated wrong direction of call (MO/MT) after a call is released from a MPTY call.
3	LIBdd68290	<u>AT+CLCC, +CLIP, +CCWA</u> The above indications had various scenarios where the alpha tag of an incoming call wasn't given out. This is now fixed.
4	LIBdd69083	<u>AT+CCWA</u> Fixed wrong syntax.

**Table 52: G208-G-0C-04-19D - HW lines & Com**

<b>HW lines &amp; Com</b>		
1	LIBdd74015	<u>AT+IPR</u> Read action when in mode <auto detect> was corrected to prompt the default value 9 and not 0.
2	LIBdd73174	<u>DTR,DCD Lines</u> Fix RS232 Behavior while in External GPRS session.
3	NO CR	Change UART RX and TX interrupts from FAST to NORMAL.
4	LIBdd69081	<u>ATV0</u> Response flex dependent. - If BIT_ATV=0 ATV0 will return also the Error Code (for exe: 4, 100) - If BIT_ATV=1 ATV0 will return just Error (for exe: 4) <u>ATV0</u> Wrong response for some AT commands.
5	LIBdd66681	<u>CTS Line</u> When a previous GPRS connection was closed while in no coverage the CTS line was wrongly kept deactivated. CTS line behavior is fixed allowing activation of a new connection regardless to the previous one.

**Table 53: G208-G-0C-04-19D – Misc.**

<b>Misc.</b>		
1	LIBdd84745 LIBdd67795	<u>AT+CPIN, PUK2/PIN2</u> PIN2 can be unlocked not only immediately after AT+CLCK.
2	LIBdd75126	<u>AT+CGSN</u> Fixed syntax of information string. "space" and ":" removed.
3	LIBdd69089	<u>AT+CFUN/+CPIN</u> Fixed wrong interrogation.
4	LIBdd61627	<u>ATS12, ATS2</u> Fixed behavior. S12 – defines the time, in 50ths of a second, until OK displayed after entering command mode by escape sequence. S2 – defines the escape character.

**Table 54: G208-G-0C-04-19D - MUX**

<b>MUX</b>		
1	No ID	<u>MUX</u> Advanced mode, allows GPRS without hang-ups.
2	LIBdd75234	<u>AT+CMUX</u> The Multiplexer may be closed in 2 ways: - "Disconnect" from the DTE application side. - Dropping the DTR line by unplugging RS232 cable. All channels will be closed and g20 returns to PRE-MUX state, no need to reset the unit.
3	LIBdd79889	<u>MUX (profile mechanism)</u> . The profile defines which AT commands can be executed for each virtual channel, for full documentation refer to developer guide MUX appendix.

**Table 55: G208-G-0C-04-19D - STK**

<b>STK</b>		
1	LIBdd66741	STK event - Launch browser STK request prompts DTE.
2	LIBdd18754	STK menus updated for use with character sets "GSM","UCS2".

**Table 56: G208-G-0C-04-19D – Network**

<b>Network</b>		
1	NO CR	AT+COPS Return to version 14D, where the output of AT+COPS is without "-".