Application Note: GSM2000TN003

GSM2218 and GSM2208 0.7.6 Release Notes

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Objective:

This document defines firmware changes and additions to the GSM2218 and GSM2208 since SW release 0.6.1.

WHEN UPGRADING FROM 102MT7, OR OLDER, THE USER MUST DO AN AT\$MSGLOGCL AND INSURE THAT THE DEVICE IS NOT GENERATING EVENTS THAT ARE STORED TO THE MESSAGE LOG. AFTER UPGRADE COMPLETES THE USER MUST AT&F, AT&W, RESET THE DEVICE, THEN RE-LOAD USER'S CONFIGURATION.

Because of the change in the length of AT\$STOATEV command, current stored AT events will not be available after reprogramming the firmware. User must re-enter events after re programming. It is highly recommended that the user issues the AT&F and AT&W commands after reprogramming.

Features:

The following are features were added:

- Added AT commands AT\$OFF and AT\$OFFDLY to facilitate powering down
- Added ENS and EONS capability for Cingular
- ADDED LUPREJ unsolicited response capability
- Reduced long registration times in areas where CDMA is present
- Added AT\$PWRMSG to edit the ASCII message on powerup
- Added capability to send AT commands over SMS
- Added ability to set periodic alarms in AT\$RTCALRM
- Added AT\$NETMON check for deregistration conditions
- Added AT\$SNDMSG allows sending of ASCII message to various modem interfaces
- Added Domain Name lookup (DNS)
- Added TCPAPI
- Added AT\$MSGLOGAL
- Added AT\$IGNDBNC

Problems Fixed:

- Fixed issue with data transfer when switching PLMNs within Cingular
- Fixed issue with reading SI13 information
- Fixed AMR Rx Quality tests
- Made GPRS session stability improvements
- Fixed issue with reading SIM phonebook with ENS enabled
- Fixed issue with sending AT commands from multiple srcIDs
- Fixed issue with making GPRS connections in CMUX on DLCs greater then 1
- Fixed issue with AT&V line termination character
- Fixed issue with ATE1 taking effect right after AT&F
- Fixed issue with sending more then 255 bytes per packet in CMUX
- Fixed issue with TCP reconnect after IDLETO expiry in AT\$AREG=2
- Fixed reset issue after DTR drop when in AT&D2
- Fixed issue with SMS when in ATV0
- Fixed issue with initiating a voice call in AT+FCLASS=8
- Fixed issue with using AT\$STOATEV for input event 8
- Fixed issue with false OK in SMS when message did not send
- Fixed erroneous SMS error code
- Fixed issue with long registration times when GSM_LOCI info is not stored on SIM

- Fixed issue with using wildcard? in FDN
- Fixed issue with sending SMS when incoming and outgoing SMS collide
- Fixed issue with TCP stack sending FIN/RST/ACK on TCP reconnect
- Fixed issue with ring indication on outgoing TCP connect
- Fixed issue with \$ESUP=?.
- Fixed issue with BUSY audio tone
- Fixed RTC alarm after reset
- Fixed GPS valid/invalid event notification
- Fixed Ring indicator fixed for subsequent calls.
- Fixed \$SNDMSG now sends correct binary/ASCII.
- Fixed Ring tones now repeating on incoming call.
- Fixed Ring indicator fixed for call waiting.
- Fixed periodicity of output event 53, RTC alarm.
- Fixed ADC values in UDP message.
- Fixed event 40, now output message when param2 is 0.
- Fixed Bit 6 of PARAM2 of the Output event is now N/A.
- Fixed Input EVENT 51 & 53 ONLY WORK as OCCURRENCE
- Fixed AT\$GPSRD to accept decimal or hex, default Decimal if Hex parameter is omitted
- Fixed Output event 48 to reset counter
- Added Dynamic GEOFNC Input event 54 and output event 49
- Added Input event 60 number of unsent messages
- Added Input event 61 Memory % full
- Added output event to emulate AT\$EVTEST (50)
- Added output event 52 TCP reporting transport
- Added RTC output EVENT 53
- Added bit 22 to PARMA2 of the Output event

AT Command Changes:

- Added support for storing up to 6 APNs in AT+CGDCONT
- Changed functionality of AT+CGACT=0 to disconnect all active contexts
- Removed Phonebook facility "AF"
- Changed ATI0 to read Enfora, Inc.
- Changed length of AT\$STOATEV from 30 characters to 142 characters
- Added a user AT command: AT\$GFDBNC=<out of fence count>,<in fence count> to allow user control of geo-fence debounce values.
- AT over SMS modifications Added: AT\$RESET, AT\$EVTEST, AT\$GFDBNC
- Modified AT\$RTCALRM
- AT\$MSGLOGRD now modified for TCP, last two values reflect pending TCP packets and sent TCP packets.
- Modified the following AT commands for TCPAPI & TCP Reporting AT\$FRIEND, AT\$MSGSND.

Default settings changed:

• Default TCP API to disabled

Hardware changes:

• None

Revision History:

_ Date	Rev	Author	Description
3/9/2007	1.00	Tom Cone	Initial Release