Enfora Enabler IIIG
AT Commands Over SMS

Application Note

GSM0308AN001

Revision: 1.11

10/5/2009

GENERAL

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1 AT Commands Over SMS

This document is specific to the Enabler III-G products only.

> Note: By default, AT commands over SMS are no longer limited to addresses in the AT$SMSDA. From factory default settings, a user must set AT$SMSDAEN=0 to completely disable AT commands over SMS, or populate settings in AT$SMSDA to limit which addresses can send AT commands over SMS to a device.

A user can send AT commands to Enfora modems via SMS. The following guidelines must be followed:

- AT commands over SMS are enabled by setting AT$SMSDAEN=1 (default).

- To completely disable AT commands over SMS, set AT$SMSDAEN=0.

- AT commands sent via SMS must originate from an address listed in AT$SMSDA, if there are entries populated in this command. If there are no entries in AT$SMSDA, and AT$SMSDAEN=1, then all AT Commands over SMS sent to the device; with the correct format and containing the correct MDMID, will be accepted.

- An incorrectly formatted SMS message will be processed as a regular SMS message.

- Not having the originating address of the SMS message listed in AT$SMSDA command will result in the SMS message being processed as a regular SMS message.

- Query of an AT command setting that returns more than 160 bytes will result in data being truncated to a maximum of 160 bytes.

> Note: The AT$RESET command should be sent alone if using the AT commands over SMS mechanism. If used as the last AT command in a multiple AT command SMS message, NO RESPONSE is sent back.

The following syntax is used:

```
>RSP=[T/F];ID=[modem id];[at command]<
```

- [T/F] field has to be set to either T or F. Setting of T indicates that the response to an AT command will be sent back to the originator. Setting of F indicates that the response to an AT command will be discarded.

- [modem id] field has to be the same value as AT$MDMID command setting. This field is case-sensitive.

- [at command] field has to be set to an AT command from the following list:
    - AT$ACKTM
    - AT$ACTIVE
    - AT$APIPWD
    - AT$AREG
    - AT+CBST
    - AT+CGDCONT
    - AT+CGMI
    - AT+CGMM
    - AT+CGMR
    - AT+CGSN
    - AT$CONNTO
    - AT+COPS?
    - AT+CREG?
    - AT+CSQ
    - Any AT command that starts with B
    - Any AT command that starts with E
    - Any AT command that starts with F
    - Any AT command that starts with G
    - Any AT command that starts with H
    - Any AT command that starts with L
    - Any AT command that starts with M
    - Any AT command that starts with N
    - Any AT command that starts with O

- o   Any AT command that starts with P

- o   Any AT command that starts with R

- o   Any AT command that starts with S

- o   Any AT command that starts with T

- o   Any AT command that starts with U

- o   Any AT command that starts with W

1.1 SMS ERROR CODE REFERENCE

For SMS error code information, please refer to the following:

- Enfora document *GSM0308AT001 – Enabler IIIG AT Command Set*

  - o   Appendix A – Unsolicited Result Codes
  - o   Appendix B – SMS Error Codes