

**Application Note:
GSM0000AN007**

Enabler[®] - G Status Reporting
Revision 1.00

Enfora, Inc.
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Objective: To provide modem commands that enables detailed status reporting.

Equipment Needed:

In this example the requirements are:

- An Enfora, Inc. Enabler-G Modem loaded with firmware version 1.4.0 or above is required.
- A notebook or desktop computer with any version of Microsoft Windows that has HyperTerminal. If this hardware is not available, the user could use a DOS terminal emulation program or DUMB ASCII terminal.

Procedures:

1. Start **HyperTerminal** and create a new session with the following settings:

Connection Name =	Enabler-G Status Reporting Test
Connect Using =	Direct connect to COMx , COMx is the communications port that the Enfora, Inc. Enabler-G Modem is physically attached to.
Bits Per Second =	115200
Flow control =	None

2. Type **AT** and press <ENTER> the modem should respond with **OK**. This will verify that you are communicating with the modem. If you cannot see characters entered on the screen, enter **ATE1V1**.
3. The following examples provide the AT commands and responses for setting modem parameters. For more information about the commands and response codes, see the ***GSM0107AT001 – Enfora Enabler IIG AT Command Set..***
4. Turn GSM extended error reporting on.

AT+CMEE=1	Report extended details for GSM error conditions.
OK	Modem response.

5. Turn GPRS extended error reporting on.

AT+CGEREP=1	Report extended details for GPRS error conditions.
OK	Modem response.

6. Turn GSM network registration status reporting on.

AT+CREG=1	Report any change in GSM registration status.
OK	Modem response.

7. Turn GPRS registration status reporting on.

AT+CGREG=1
OK

Report any change in GPRS registration status.
Modem response.

8. Register on the GSM network.



NOTE

Some of the following commands may not need to be issued. Please refer to **Application Note GSM0000AN005 - Enabler-G Automated Network Connection Configuration and Use**, to set the appropriate network connection.

AT+COPS=0
OK

Select network operator for registration.
Response when the modem successfully connects to the network.

+CREG: 2

Modem is attempting to register on a GSM network.

+CREG: 1

Modem has successfully registered on its home GSM network.

+CGREG: 2

Modem is attempting to attach on a GPRS network.

+CGREG: 1

Modem has successfully attached on its home GPRS network.

9. Register on the GPRS network.



NOTE

Some of the following commands may not need to be issued. Please refer to **Application Note GSM0000AN005 - Enabler-G Automated Network Connection Configuration and Use**, to set the appropriate network connection.

AT+CGDCONT=1,"IP","APN","",0,0

APN value will be provided by carrier.

OK

Modem Response.

AT+CGATT=1

AT command to start the ATTACH sequence.

OK

Successfully ATTACHed.

AT+CGACT=1,1

Request context activation.

OK

Successful context activation.

Revision History

Date	Rev	Author	Description
8/16/02	Draft	Matt Glover	Initial Draft.
9/3/02	1.00	Matt Glover	<ul style="list-style-type: none">Removed steps to manually turn radio on, select network operator, and attach to GPRS network and replaced with reference to GSM0000AN005 - Enabler-G Automated Network Connection Configuration and Use due to architecture change that provides automated network attachment.Initial Release.