

**Application Note
GSM0000AN014**

Anytime PPP API Access
Revision 1.00

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Objective: The intent of this document is to present appropriate configuration settings that will provide local, serial access via a Point-To-Point Protocol (PPP) connection without having to connect to the GSM/GPRS network. The serial access will provide software application programming interface (API) capability for command and control of the device. See *GSM0308UG001 - Enfora GSM-GPRS Family API Reference* for additional details related to the software API.

Overview: GPRS network architecture utilizes a PPP negotiation to facilitate the assignment of IP addresses to mobile devices. Enfora has developed a software API that allows application programs to be written that can query and set modem parameters. The API requires a PPP connection in order to communicate with the module. This requirement then mandates that a network connection be made before any communication with the modem can take place. This is not very practical for applications that want to communicate with the module and not access the IP network. The module is capable of providing serial PPP access without connecting to the network. Subsequent API calls can be made to request a network connection, query the local IP and DNS, query the network assigned IP and DNS, and request a network disconnect. The modem will act very similar to a Network Address Translator (NAT) that is a function of IP router solutions.

The following command is required to provide this capability:

AT\$HOSTIF=3	This command is required to place the modem into non-GPRS connection mode.
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Once a PPP connection is established, the following commands can be issued via the API to perform the desired function.

AT\$CONN	This command will force a GPRS network connection. The module can now pass IP data over the PPP connection.
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AT\$LOCIP	This command will allow the application to query the local IP and DNS assignment.
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AT\$NETIP	This command will allow the application to query the network assigned IP and DNS addresses.
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AT\$DISC	This command will force a GPRS network disconnect. Please note that this will only disconnect the GPRS link, the PPP connection remains established.
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Revision History

Date	Rev	Author	Description
2/11/03	1.00	Matt Glover	Initial Release