

Application Note

>> ANw3.1: Connecting to an Internet Service Provider (ISP) through GSM data

TARGET	B40h-09gg + eDsoft-w302 v1.0
NEED	Initiate a GSM data communication from the Wavecom product connecting to an ISP.

DESCRIPTION

The attached equipment can initiate an Internet connection, via the Wavecom product configured in GSM mode (`GPRSMODE` parameter), by sending the '**AT#CONNECTIONSTART**' command over the serial port.

Upon receiving this command, the Wavecom product automatically attempts to complete a PPP connection session according to the relevant stored parameters. This is achieved by the Wavecom product which dials the required ISP phone number as predefined in the `DIALSELECT` parameter.

Once the PPP link is established, the software sends the ISP-assigned dynamic IP address and the 'Ok_Info_Ppp' message as a response code to the attached equipment via the serial port. The Wavecom product will then wait for commands from the attached equipment.

AT# command	AT#CONNECTIONSTART
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RELATED PARAMETERS

Registration on the network	The product has to be registered on the GSM network
AT+ command	AT+ CREG=1
GSM mode	Deactivate the GPRS mode to switch in the GSM mode.
AT#	GPRSMODE=0
ISP Primary Number	Primary dial-up phone number to connect with the required local ISP.
AT#	DIALN1
ISP Secondary Number	Secondary dial-up phone number to connect with the required local ISP.
AT#	DIALN2
Dial Option	The value of this parameter determines which of the two numbers detailed above (i.e. <code>DIALN1</code> or <code>DIALN2</code>) is used to establish an Internet connection: the primary dial-up number or the secondary dial-up number.
AT#	DIALSELECT
ISP User Name	User name / login of the ISP account.
AT#	ISPUN
ISP User Password	Password for ISP account.
AT#	ISPPW
Number of call retries	Indicates how many unsuccessful connection attempts the software will make before terminating the connection attempt activity.
AT#	REDIALCOUNT

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Delay between call retries	Controls the delay (in seconds), if any, that will be introduced between each call retry if the call is not successful.
AT#	REDIALDELAY
Stop the AT#CONNECTION START process	The 'AT#CONNECTIONSTART' process can be stopped by sending the 'AT#CONNECTIONSTOP' command over the serial port
AT#	CONNECTIONSTOP

LINKS

AT# PARAMETERS	PPPMODE - PHYTIMEOUT
AT# COMMANDS	CONNECTIONSTOP
APP. NOTES	ANConnect_GPRS (ANw3.7)

PROCESS DIAGRAM: PPP CONNECTION FOR AN OUTGOING CALL

