

# Application Note

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

<b>TARGET</b>	B40h-09gg + eDsoft-w302 v1.0
<b>NEED</b>	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

<b>Registration on the network</b>	The product has to be registered on the GSM network
AT+ command	AT+ CREG=1
<b>GSM mode</b>	Deactivate the GPRS mode to switch in the GSM mode.
AT#	GPRSMODE=0
<b>ISP Primary Number</b>	Primary dial-up phone number to connect with the required local ISP.
AT#	DIALN1
<b>ISP Secondary Number</b>	Secondary dial-up phone number to connect with the required local ISP.
AT#	DIALN2
<b>Dial Option</b>	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
<b>ISP User Name</b>	User name / login of the ISP account.
AT#	ISPUN
<b>ISP User Password</b>	Password for ISP account.
AT#	ISPPW
<b>Number of call retries</b>	Indicates how many unsuccessful connection attempts the software will make before terminating the connection attempt activity.
AT#	REDIALCOUNT

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

### LINKS

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

### PROCESS DIAGRAM: PPP CONNECTION FOR AN OUTGOING CALL

