Application Note

>> ANw3.2: Using the TCP/IP stack as a PPP server in GSM mode

TARGET	B40h-09gg + eDsoft-w302 v1.0
NEED	To authenticate a remote PPP client and assign it an IP address through a GSM call
DESCRIPTION	A user may want to use a standard PPP client (like MS Dial-up Networking) to access the Wavecom product directly. In this case, the user must configure his or her computer (equipped with a modem) with the phone number related to the Wavecom device, instead of the one of a standard ISP. Once authenticated, a direct PPP link is opened between the Wavecom product and the remote computer.
NOTE	- Active feature in GSM and not in GPRS mode. - The embedded PPP server allows the PPP negotiation in the PAP mode only (different from the PPP client mode with the PAP or CHAP negotiation).

CONFIGURATION

PPP server activation	When this parameter is set to 1, the Wavecom product behaves as a PPP server when an incoming call is received. For specific requirements, it is also possible to configure the Wavecom product as a PPP Server only (4) or as PPP server when initiating a call (2).
AT#	PPPMODE
PPP server authentication	Defines the login / password required to access the Wavecom product internal PPP server. The user must specify these values when creating the PPP client on his computer (like for a standard ISP).
AT#	PPPSERVUN, PPPSERVPW
PPP server IP address	Once the negotiation is successfully completed, this IP address will be the one assigned to the Wavecom product internal PPP server. This IP address must be on the same IP network as the PPPPEERIP.
AT#	PPPMYIP
PPP client IP address	Once the negotiation is successfully completed, this IP address will be the one assigned to the remote PPP client. This IP address must be on the same IP network as the PPPMYIP
AT#	PPPPEERIP

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OPERATION	
Negotiation	Once the call is accepted and the modem modulation negotiation is successful, the Wavecom product automatically behaves as a PPP server. The 'Ok_Info_Ppp' message indicates that the IP link is up. A '#CME ERROR: 37121 or '#CME ERROR: 38981 message (or a 'NO CARRIER') means that the PPP negotiation has failed. This can be due to: - Incorrect authentication parameters - The PPP client doesn't accept the IP address provided by the Wavecom product - The PPP client doesn't support the basic set of PPP options managed by the Wavecom product.
TROUBLESHOOTING	
PPP ERROR	On the PPP entry on the remote PC the following points must be checked: - Valid username, password - The IP address must be attributed by the remote PPP server - LCP options must be disabled into the dial up configuration
LINKS	
AT# PARAMETERS	PPPMODE – PPPMYIP – PPPPEERIP – PPPSERVPW – PPPSERVUN – ANSWERMODE
APP. NOTES	ANAnswer_Call (ANw3.5) - ANAutomatic_Answer (ANw3.4)- ANAutomatic_Callback (ANw3.3)