Application Note

>> ANw2.2: Using the DNS service

TARGET	B40h-09gg + eDsoft-w302 v1.0
NEED	Using the DNS client embedded in the Wavecom product in order to use symbolic names instead of IP addresses.
DESCRIPTION	The DNS servers available on the Internet or within an Intranet are used to resolve a symbolic hostname (like mail.domain.com) into an IP address (192.168.255.250). DNS provides a means of using user-friendly and easy to remember names for email, TCP, FTP servers rather than using the standard IP addressing format. Moreover these servers can switch to a different IP addressed destination without requiring any change on the symbolic name configuration.

CONFIGURATION

Primary DNS	The IP address of the primary DNS server must be stored in dotted decimal notation (xxx.xxx.xxx.xxx). This address is generally provided with your ISP subscription. Note: the Wavecom product does not currently offer the possibility to get this address during PPP negotiation.
AT#	DNSSERV1
Secondary DNS	The IP address of the secondary (backup) DNS server must be stored in dotted decimal notation (xxx.xxx.xxx.xxx). This parameter is optional for running the DNS service but provides better reliability of this service (providing a secondary source of DNS resolution if the primary source fails for some reason). This address is generally provided with your ISP subscription. The Wavecom product does not currently offer the possibility to get this address during PPP negotiation.
AT#	DNSSERV2

OPERATION

Error codes	Whenever the Wavecom product is unable to reach the primary DNS server or when the primary DNS server informs the Wavecom product that it can't resolve a symbolic hostname into an IP address, the Wavecom product then automatically tries to contact the secondary DNS server. Whenever the Wavecom product can't reach the secondary DNS server or when the secondary DNS server informs the Wavecom product that it can't resolve a symbolic name into an IP address, a '#CME ERROR: 38027' message is sent on the serial port.

LINKS

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NOTE

In the case of GPRS, the DNS server addresses are provided by the GPRS operator on successful network connection of the module. The addresses provided are used in place of DNSSERV1 and DNSSERV2. (The DNS address parameters are not updated for display purposes). If no addresses are provided, the DNSSERV1 and DNSSERV2 parameter addresses are used as in GSM.