Application Note

>> ANw6.1: Sending an email containing data from the serial port

TARGET	B40h-09gg + eDsoft-W302 v1.0
NEED	Sending an email message containing data from the serial port

	DESCRIPTION

Sending an email through the serial port	This command allows another processor (attached equipment) to send an email message containing body text which is passed directly to the Wavecom product over the serial port. While the Wavecom product is connected to the Internet, the attached equipment can initiate the sending of an email message at any time (except when the software is already in the process of sending or retrieving email, FTP or socket TCP process). This action is accomplished by sending an 'AT#PUTMAIL' command over the serial port.
	
	The Wavecom product will send an 'Ok_Info_WaitingForData' message when it is ready to accept the data flow to be placed in the body of the email from the serial port.
	
	The data sent by the host over the serial port is not echoed.
	
	Note:
	
	When using this command, the software will use the following parameters to compose the email header:
	    'SUBJ1' for the email subject
	    'REC1' for the recipient email address
	    'CCREC1' for the carbon Copy recipient -mail address
	    'SENDERNAME' & 'SENDERADDR' for the specified identity of the module

`AT# Command`	`AT#PUTMAIL`
	
	The end of the email body data flow must be denoted by sending following sequence to the Wavecom module:
	
	`[CR][LF].[CR][LF]`
	
	The software will send an 'OK' response when it is ready to accept another command, in case of success of the sending operation. In case of problem a '#CME ERROR: Value' is sent over the serial port.

NOTES	- The `[CR][LF].[CR][LF]` keyboard sequence is: ENTER CTRL+ENTER . ENTER CTRL+ENTER - If there is no answer from the SMTP server after 3 minutes, the error #CME ERROR: 37964 is generated and the sending process is aborted. - A communication session must be established (AT#CONNECTIONSTART) before sending the AT#PUTMAIL command. After the sending process, the communication session remains established. - Check you terminal emulator configuration because with some configuration, this terminal can modify data (for example, to transform the [CR] in [CR][LF]).

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CONFIGURATION

SMTP server	Address of the SMTP server used for sending email.
AT#	SMTPSERV
SMTP port	Port of the SMTP server used to send email.
AT#	SMTPPORT
SMTP user name	SMTP user name used by some SMTP servers for authentication.
AT#	SMTPUN
SMTP user password	SMTP user password used by some SMTP servers for authentication.
AT#	SMTPPW
Domain	Domain name of the sender.
AT#	DOMAIN
Sender name	The sender's name, which appears in the email header, in the field: 'From: '.
AT#	SENDERNAME
Sender email address	Email address of the sender, which appears in the email header, in the field ' From: '.
AT#	SENDERADDR
Recipient email address	Email address of the recipient, which appears in the email header, in the field ' To: '.
AT#	REC1
CC Recipient email address	Carbon Copy email address of the recipient for sending email which appears in the email header, in the field ' Cc: '.
AT#	CCREC1
Email subject	Pre-defined email subject, which appears in the email header, in the field ' Subject: '.
AT#	SUBJ1

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	LINKS
AT#	SENDMAIL1 – SENDMAIL2 – SENDMAIL3
APP. NOTES	ANwSending_Email_Comb (ANw6.2) - ANwFlow_Control (ANw1.4)

PROCESS DIAGRAM

```
                    ┌─────────────────────┐
                    │   AT#PUTMAIL(CR)     │
                    └─────────────────────┘
                              │
                    ┌──────────────┐  N    ┌──────────────┐  N
                    │ SMTP server  │─────▶ │ Resolution made on │─────┐
                    │ address solved ? │   │ primary DNS server? │    │
                    └──────────────┘       └──────────────┘         │
                         Y │                    Y │                  │
                                                                Y ┌──────────────┐
                                                                  │ Resolution made on │
                                                                  │ secondary DNS server? │
                                                                  └──────────────┘
                                                                        N │
                    ┌──────────────┐  N
                    │ SMTP server  │                          ┌──────────────────┐
                    │ responding?  │                          │ #CME ERROR: 38027 │
                    └──────────────┘                          └──────────────────┘
                         Y │
                    ┌──────────────┐  Y   ┌──────────────┐  N
                    │ SMTP         │────▶ │ Authentication │──┐
                    │ login required? │   │ successfull?  │  │
                    └──────────────┘      └──────────────┘  │
                         N │                   Y │
                    ┌─────────────────────┐
                    │ Ok_Info_WaitingForData │
                    └─────────────────────┘
                              │
  If network        ┌─────────────────────┐
  disconnection     │  DATA (not echoed)  │
  during data mode  └─────────────────────┘
        │                     │
        │           ┌─────────────────────┐
        │           │   (CR)(LF).(CR)(LF)  │
        │           │       echoed        │
        │           └─────────────────────┘
        │                     │
  ┌──────────────┐    ┌──────────────┐      ┌──────────────────┐
  │  NO CARRIER  │    │      OK      │      │ #CME ERROR <value> │
  └──────────────┘    └──────────────┘      └──────────────────┘
```
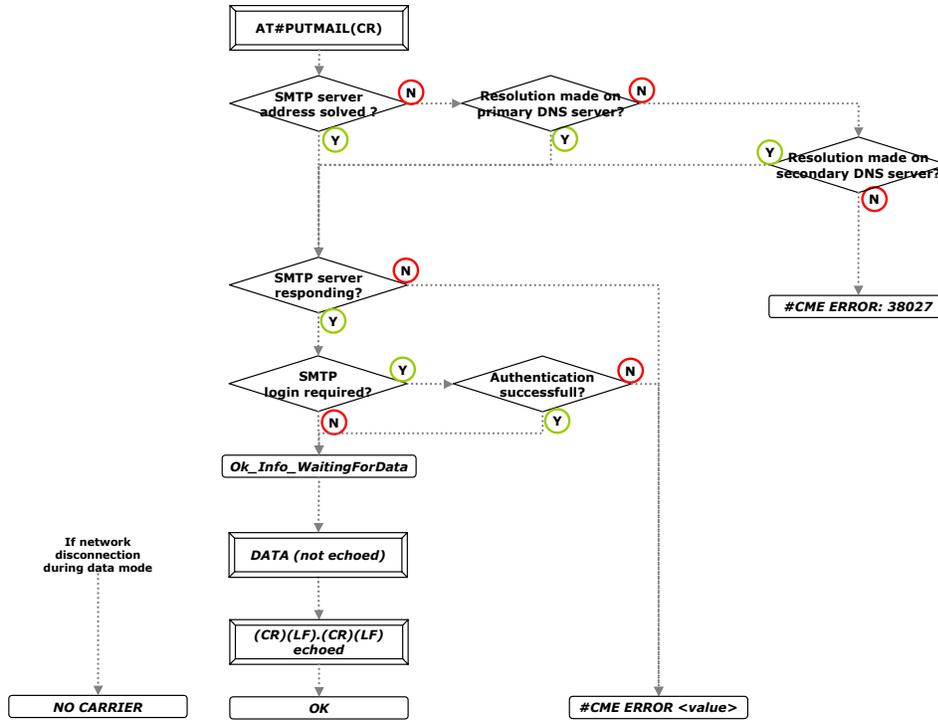
NOTE	- The data in the email sent will not be echoed back to the host. - The <CR><LF>.<CR><LF> sequence denoting the end of data mode is echoed back.