

Application Note

>> ANw3.3: Automatic call-back to incoming calls

TARGET	B40h-09gg + eDsoft-w302 v1.0
NEED	When an incoming call is received, the Wavecom product validates the associated CLI (Calling Line Identity), ignores (doesn't answer) the call and then automatically dials a pre-defined phone number.
DESCRIPTION	<p>When receiving an incoming call it is possible for the attached equipment to either accept the call, let the Wavecom product answer the call automatically, or to not answer the call and then let the Wavecom product automatically call a pre-defined number using the 'call-back mechanism'.</p> <p>This application note addresses the 'automatic call-back' mechanism implemented in the Wavecom product.</p>

CONFIGURATION

Wavecom Wismo configuration	<ul style="list-style-type: none"> - RINGCOUNT and ANSWERMODE must be configured in accordance with the ATSO configuration for not interacting. - The CALLSCREENNUM parameter configuration with a decimal phone number need the caller line identity service from the operator and the AT+CLIP=1 command sent to the Wavecom software.
AT#	RINGCOUNT
Automatic call-back activation	<p>When this parameter is set to 2 or 3, the Wavecom product will not answer an incoming call, but instead automatically :</p> <ul style="list-style-type: none"> - calls back either of the DIALN1 or DIALN2 numbers (depending on the DIALSELECT parameter setting) or attempts a GPRS connection (depending on the GPRSMODE parameter setting) if ANSWERMODE is set to 2 by internally issuing an AT#CONNECTIONSTART command-- if the associated CLI (Calling Line Identity) matches the CALLSCREENNUM parameter. - calls back the caller number (CALLSCREENNUM number) if ANSWERMODE is set to 3 by internally issuing an AT#CONNECTIONSTART command-- if the associated CLI (Calling Line Identity) matches the CALLSCREENNUM parameter. <p>ANSWERMODE = 2 → call back the ISP or attempt GPRS connection.</p> <p>ANSWERMODE = 3 → call back the caller (dependant on the CALLSCREENNUM number parameter setting).</p>
AT#	ANSWERMODE = 2 → call back the ISP or attempt GPRS connection. ANSWERMODE = 3 → call back the caller (dependant on the CALLSCREENNUM number parameter setting).
Caller ID validation	<p>When the GSM line subscription includes the caller ID service, it is possible to direct the Wavecom product to validate the CLI (Calling Line Identity) of the incoming call before executing the 'call back' mechanism. Please take care of its format, communicated by the network. The default value = 0 deactivate the mechanism.</p> <p>If no check is necessary the CALLSCREENNUM parameter must be set to '*'.</p>
AT#	CALLSCREENNUM
Timer before call-back	<p>When the '+CRING' signals have ceased on the GSM line, it is possible to configure the time (in seconds) that the Wavecom product will wait before going off hook and dialing the DIALN1 or DIALN2 phone number, or attempt to make a GPRS connection.</p>
AT#	CALLBACKTIMER

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OPERATION

Validation of CLI before call back	<p>When receiving an incoming call, the Wavecom product ignores the call but still validates the associated CLI (Calling Line Identity) against the <code>CALLSCREENNUM</code> parameter.</p> <p>If the associated CLI (Calling Line Identity) and <code>CALLSCREENNUM</code> don't match, no further operations take place.</p> <p>If the associated CLI (Calling Line Identity) matches the <code>CALLSCREENNUM</code> parameter, the Wavecom product waits for the last RING signal and then for the <code>CALLBACKTIMER</code> period before going off hook and initiating the call back mechanism, by internally issuing the <code>AT#CONNECTIONSTART</code> command.</p> <p>The process is then similar to the standard <code>AT#CONNECTIONSTART</code> process, using <code>GPRSMODE</code>.</p>
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LINKS

AT# PARAMETERS	PPPMODE, GPRSMODE
AT# COMMANDS	CONNECTIONSTART
APP. NOTES	ANConnect_ISP (ANw3.1) - ANAnswer_Call (ANw3.5) - ANAutomatic_Answer (ANw3.4)

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PROCESS DIAGRAM

