# Application Note

## >> ANw3.5: Answering an incoming call

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| **TARGET** | B40h-09gg + eDsoft-w302 v1.0 |
| **NEED** | When an incoming call is received, the Wavecom product informs the attached equipment of the call. The attached equipment then decides if the call should be accepted. |
| **DESCRIPTION** | When receiving an incoming call it is possible for the attached equipment to either accept the call, to let the Wavecom product answer the call automatically, or to not answer the call and then to let the Wavecom product automatically call a pre-defined number using the 'call-back mechanism'.<br><br>This application note describes how the attached equipment can instruct the Wavecom product to answer an incoming call. |

### CONFIGURATION

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| **Wismo configuration** | – The value of the PPPMODE parameter will determine the communication type: IP modem, transparent modem, …<br><br>– ANSWERMODE must be configured in accordance with the ATS0 configuration for not interacting.<br><br>- RINGCOUNT must be configured for the number of rings before answering the call.<br><br>- 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 |
| **Automatic answer deactivation** | When the ANSWERMODE parameter is set to 0, the Wavecom product lets the attached host decide whether the incoming call should be accepted or ignored. |
| AT# | ANSWERMODE=*0* |

### OPERATION

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| **Ring information** | When receiving an incoming call, the Wavecom product informs the attached equipment via the serial port. The Wavecom product issues a '+CRING:xxx' message on the serial port for each ring signal received on the GSM line.<br><br>+CRING |
| **Caller ID information** | If the attached network subscription includes a caller ID service, the CLI (Calling Line Identity) is understood by the Wavecom software.<br><br>Depending on the telecom carrier, this service may be optional at an additional charge to the subscriber.<br><br>+CLIP:"xxxxxxxxx", ... |
| **Accepting the call** | To direct the Wavecom product to accept this call, the attached equipment must send the 'AT#ACCEPT' command via the serial port.<br><br>The Wavecom product then goes off hook and attempts to establish the connection as specified in the PPPMODE parameter (PPP client, server or transparent modem). |
| AT# command | AT#ACCEPT |
| **Ignoring the call** | If the attached equipment decides that the incoming call should not be answered, it should not send the 'AT#ACCEPT' command via the serial port, the Wavecom product will therefore ignore the call. |

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## LINKS

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| **AT# PARAMETERS** | PPPMODE |
| **AT# COMMANDS** | CONNECTIONSTART |
| **APP. NOTES** | ANPPP_Server (ANw3.2) - ANAutomatic_Answer (ANw3.4) - ANAutomatic_Callback (ANw3.3) |

## PROCESS DIAGRAM