



# Specifications of the RI management on unsolicited messages

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## 1 Activation

An AT command will be available to activate the *RI on unsolicited message* mechanism.

By default, this mechanism will not be active.

## 2 Standard behaviour

When activated, any unsolicited message on the AT commands interface will generate a single pulse on the RI signal. This pulse will last for about 8  $\mu$ s (the connected application shall then react on edge).

## 3 Wake-up mode

If the microprocessor (while in standby mode) needs to be waken up by the pulse, it has to set the RTS signal to High before switching to stand-by. This will avoid that any unsolicited information is sent on the serial link before the microprocessor is able to handle it.

## 4 Time-out management

When detecting a pulse on the RI signal, the application might switch to offline (command) mode to get the unsolicited message.

Under some configurations (such as when the automatic CSQ mode is active), the module might lose some unsolicited non critical data (the message could be overwritten by an updated one).

Then, in any case, the number of unsolicited messages to get by the application is lower or equal to the number of pulses.

It might even happen that a pulse is generated but no message is available.

For this reason, the application will have to trig a timer<sup>1</sup> each time it decides to get the Unsolicited Result Code (after a pulse has been generated) and for each URC it gets.

## 5 Behaviour during incoming calls

(when the special RI mode has been activated)

During an incoming call each RING indication generates a pulse on the RI, according to the description here-above (see §*Standard behaviour*).

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<sup>1</sup> The recommended timer is 1s for a serial speed of 9600 bps.