RAK473 Use Guidance

Use the Capturing Packet Mode

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1. How to Use the Capturing Packet Mode

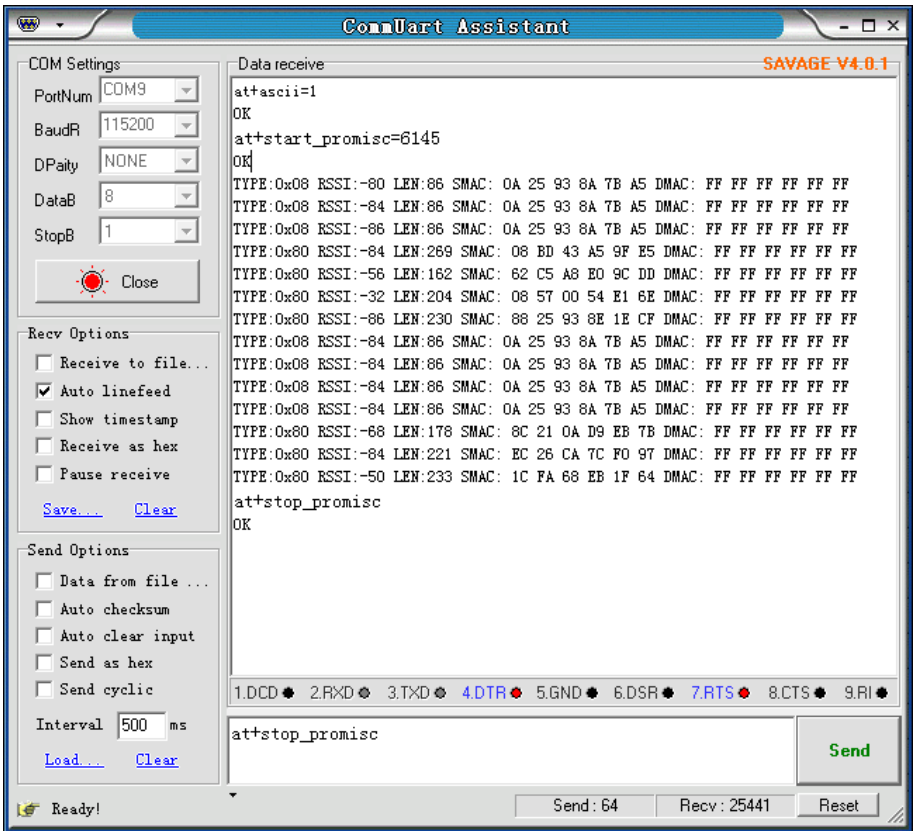
Tips: In this part, the application method of the capturing packet mode is only illustrated with the examples. For the specific meaning of transmitting and receiving data, refer to "Manual for RAK473 UART - WiFi Module Programming", which will not be repeated here.

1.Set the ASCII code display, to facilitate viewing the data captured in the capturing packet mode.
Send:at+ascii=1
Return:OK

2. Send a data packet filter command, to filter the three options of the source MAC, destination MAC and signal value set. This step can be omitted, and the default setting does not contain any filter option.
Send: at+set_filter=60C5ABA612B4,0,-50\r\n
-- -- -- the address of the filter source MAC is 60C5ABA612B4, with the signal strength greater than that of the -50 data packet
Return: OK……

3. Send a "start capturing packet" command, to start capturing packet for the network set in the channel, so as to obtain information including data packet type, signal strength, length of the data packet, MAC address of the data packet source and the MAC address of the data packet destination.
Send: at+start_promisc=6145\r\n
-- -- -- -- Carry out capturing packet for channels 1,12 and 13, and correspondingly, set bit0, bit11 and bit12 of <channel> as 1, namely, to convert the binary system 1100000000001 to the decimal system 6145.
Return: OK
TYPE:0x08 RSSI:-80 LEN:86 SMAC: 0A 25 93 8A 7B A5 DMAC: FF FF FF FF FF FF
……

4. Send "stop capturing packet" command, to stop this capturing packet.
Send: at+stop_promisc\r\n
Return: OK



Version

Version	Author	Date	Content modification
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V1.1	Xiaocheng Cao	2016/11/16	Modify some of the details