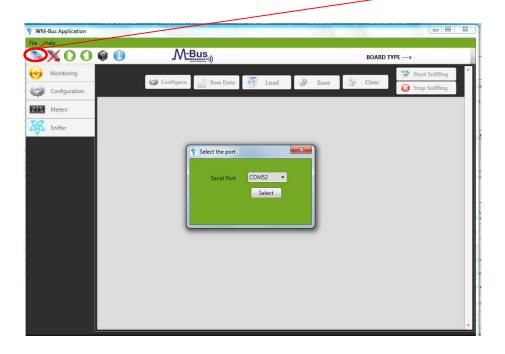
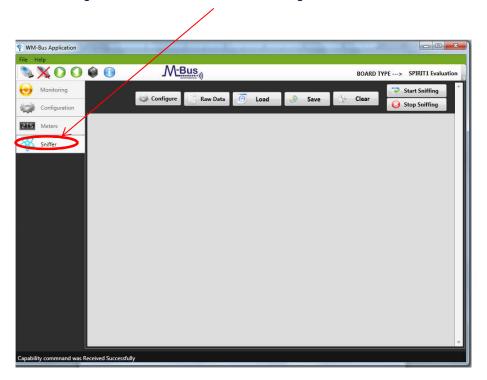


- Step 1: Flash the Sniffer.hex file onto the STEVAL-IKR001Vx board and connect to the PC.
- Step 1: Open the WM-Bus GUI application. Now click on connect icon at the top of the GUI



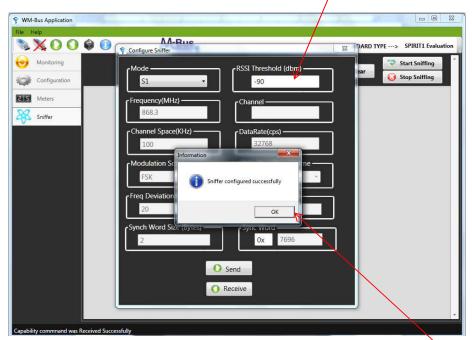
Step 3: After the GUI gets connected to the STEVAL-IKR001Vx board, We can see that the Sniffer mode icon gets enabled and the other modes get disabled.





Step 4: The sniffer supports sniffing in many M-Bus modes, Basic & STack packet modes. In case of an M-Bus mode, the user only has to select the mode, example S1 and then enter the RSSI threshold. In some M-Bus modes like R2, the user needs to enter the Channel number also.

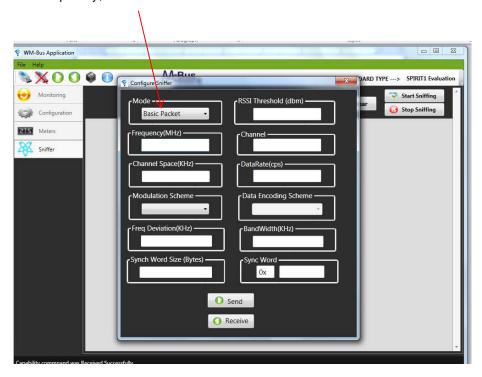




After entering these configuration, the user needs to clock on the send button. If the configurations get successfully set, then the GUI will display the message "Sniffer Configured Successfully".

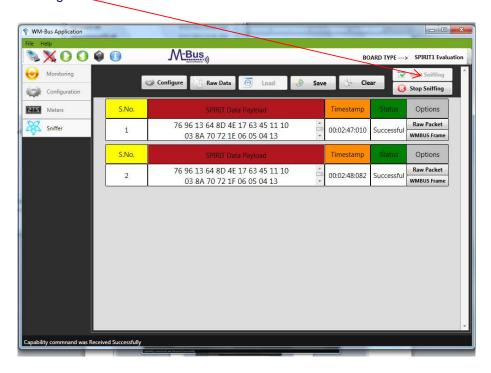


In case of the Basic or STack modes, the user needs to enter all the radio configuration parametrs like frequency, modulation scheme etc

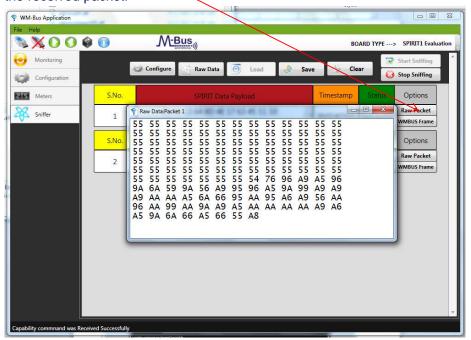




Step 5: Once the Configuration is set, the user can start sniffing by clicking on the button "Start Sniffing"

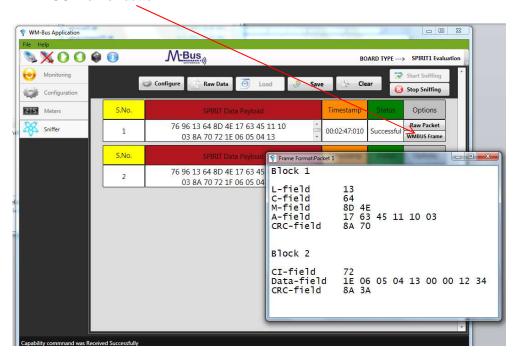


In the above figure, the user can see that two packets from an S1 meter have been captured. The window shows the decoded WM-Bus frame directly, starting with the Synch Word 0x "76 96". In case the user wants to see the raw RF data sniffed then click on the "Raw Packet" button corresponding to the received packet.





In case the user wants to see all the WM-Bus fields in the decoded packet, then click on the "WMBUS Frame" button.



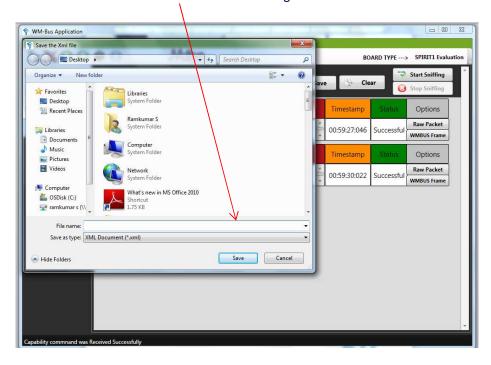
Note the "WMBUS Frame" button gets disabled automatically when sniffing in the Basic or Stack modes.

Step 6: If the user wants to save the sniffed data for later comparison then, click on "Stop Sniffing" button in the top of the window first and then click on the "Save" button.





Step 7: Once the "Save" Button is clicked, a prompt opens up, which can be used to navigate to the destination folder where the sniffed data will get stored as a .xml file.



This saved data can be later opend through the same application using the "Load" button.