

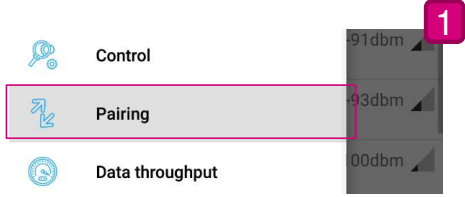
Pairing

Pairing introduction

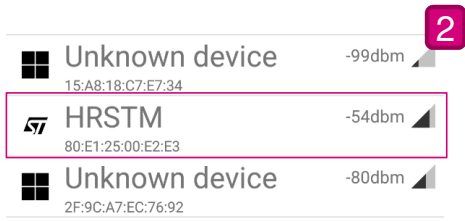
2

- BLE_HeartRate_pairing application can support Simple pairing (Legacy pairing) or Secure Connection depending on the security feature supported by the phone
- If Legacy pairing : STM32WB application returns PIN code **123456**, same value must be entered on telephone.
- If Secure Connection : STM32WB application and Android application generate a numeric value that must be acknowledged on the phone.
 - The numeric value will be displayed on the phone screen and debug console (terminal).
 - If an OLED screen is present on STM32WB it will also be displayed on it.

Pairing requested by master



Select Pairing option



Select device in the list



Peripheral: **HRSTM**
RSSI: null
Address: 80:E1:26:00:2E:30
Status: Unpaired

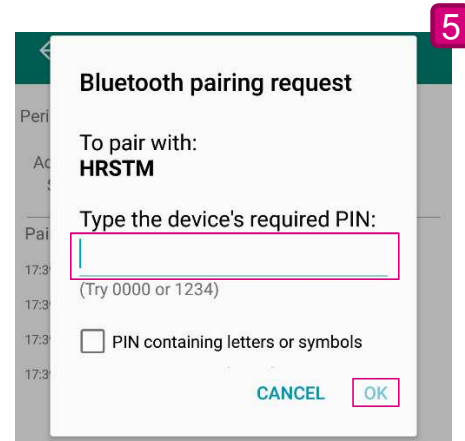
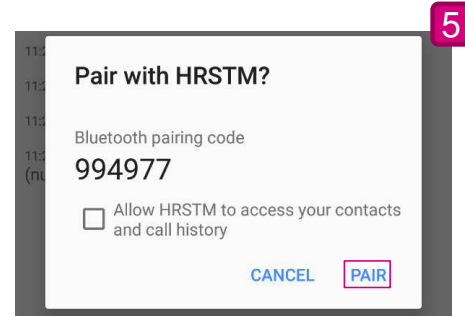
Connection with STM32WB



Peripheral: **HRSTM**
RSSI: null
Address: 80:E1:26:00:2E:30
Status: Unpaired

Pairing Logs :
11:24:10: Device state: Connected

Wait to be connected then press PAIR



Confirm pairing request with PIN or numeric comparison
PIN code : 123456



Peripheral: **HRSTM**
RSSI: null
Address: 80:E1:26:00:2E:30
Status: Paired

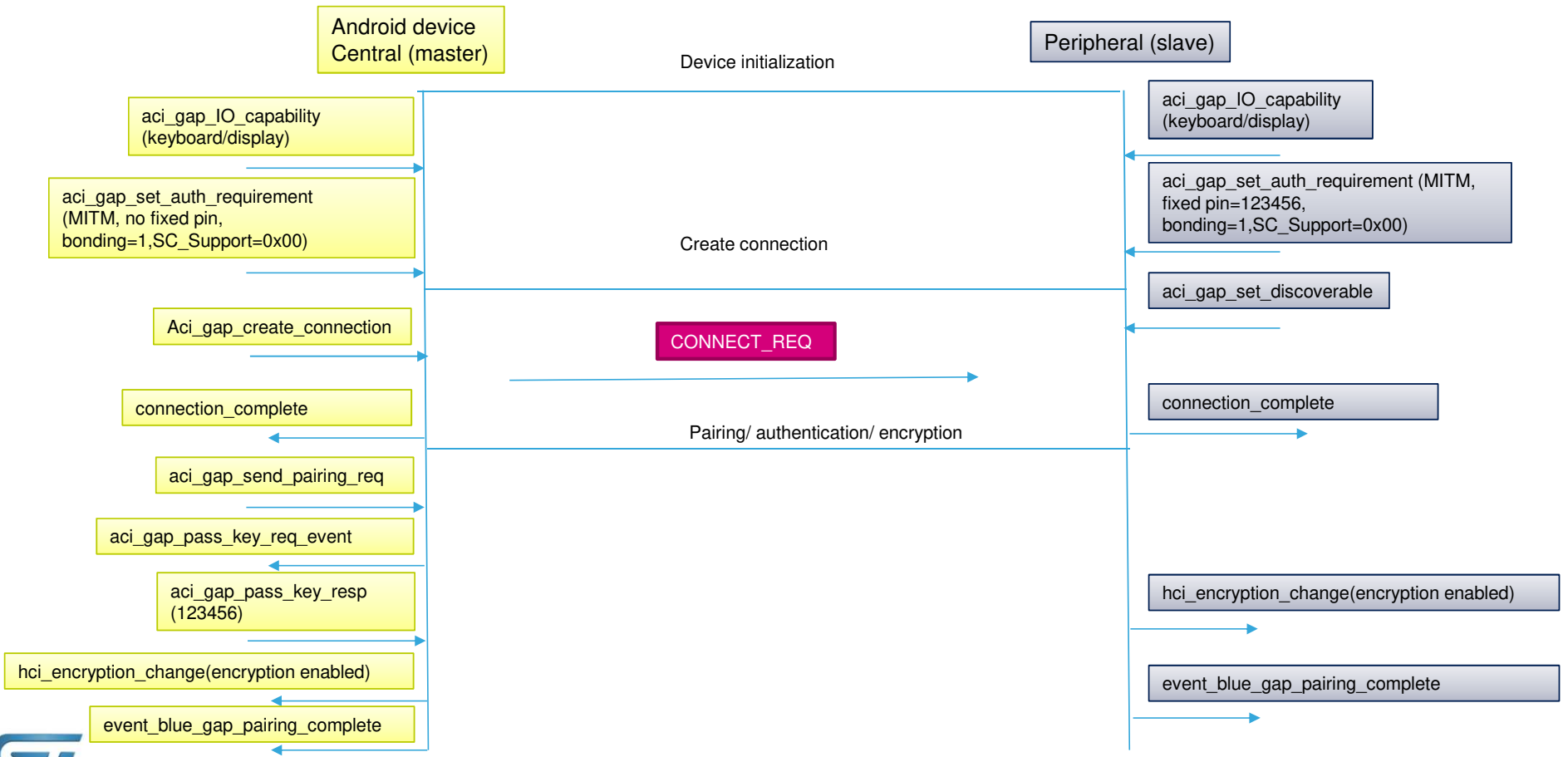
Pairing Logs :

14:21:44: Device state: Connected
14:21:45: ** Pairing **
14:21:45: Bond state change: state BOND_BONDING
14:21:46: Pairing request, type: PAIRING_PASSKEY (numeric comparison)
14:21:59: Bond state change: state BOND_BONDED

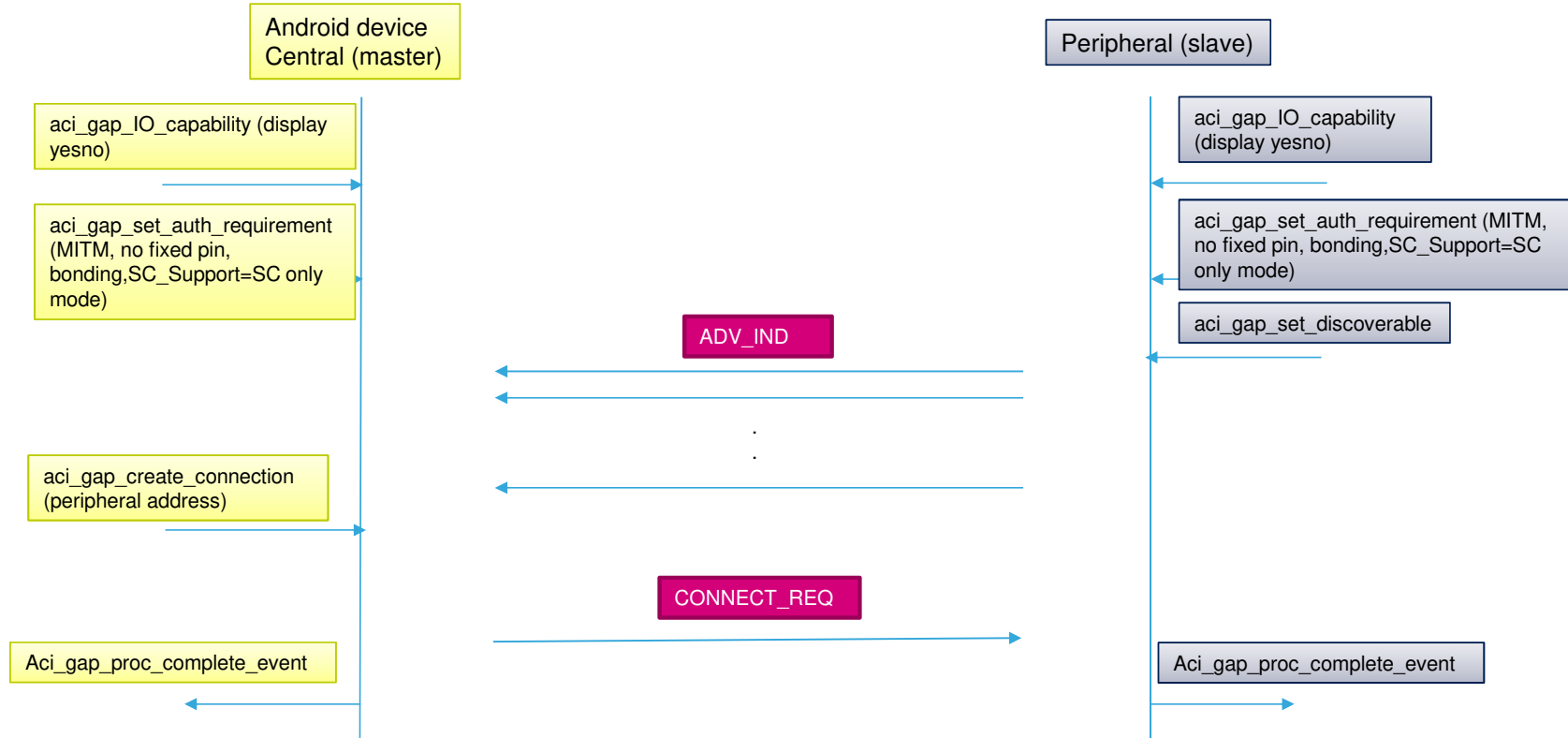
Device paired, you can unpair or disconnect



Pairing requested by master sequence (Legacy)

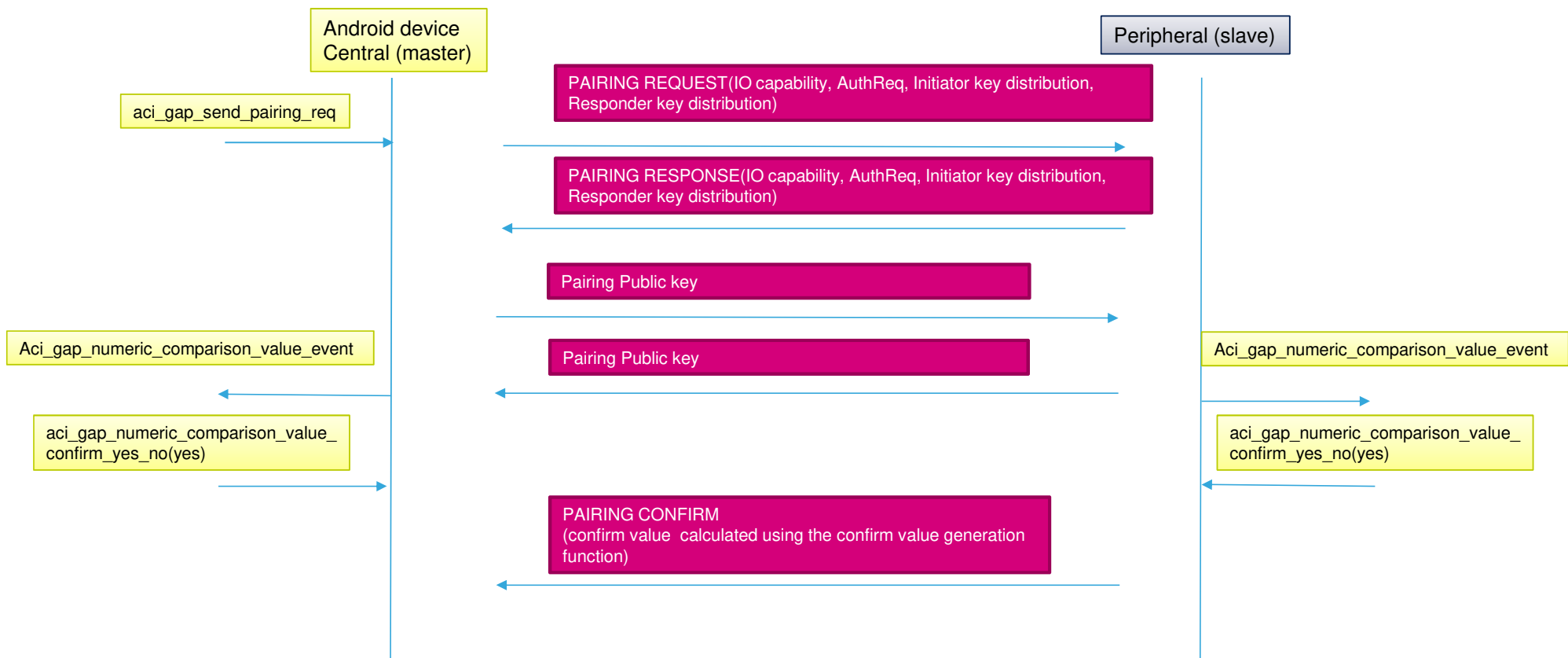


Pairing requested by master sequence (Secure) 1/3

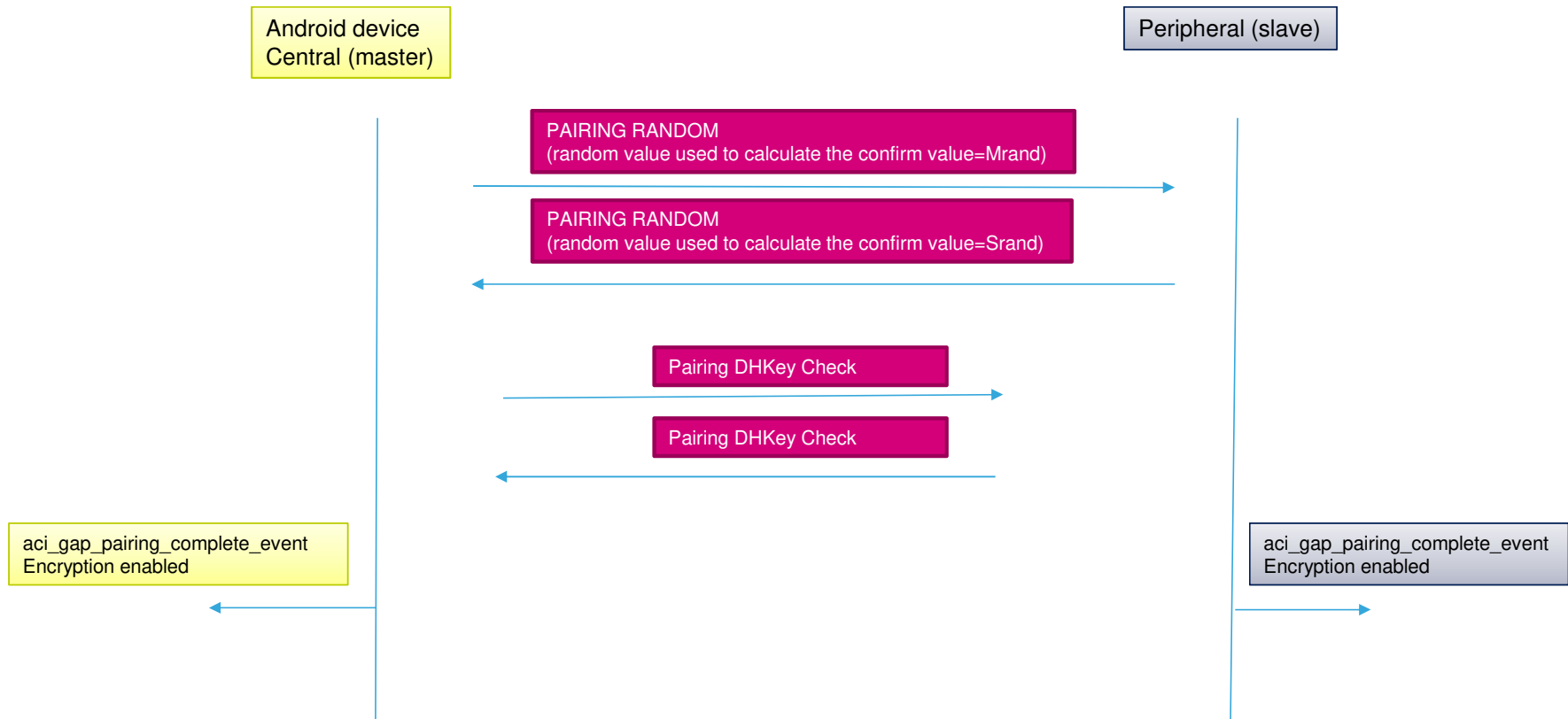


Pairing requested by master sequence (Secure) 2/3

Pairing features exchange

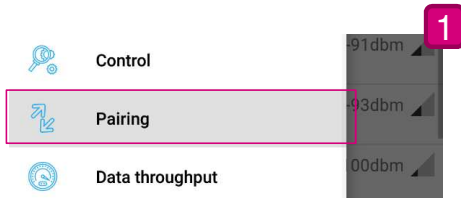


Pairing requested by master sequence (Secure) 3/3

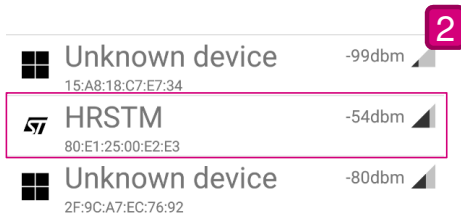


Pairing requested by slave

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Select Pairing option



Select device in the list



Peripheral: HRSTM
RSSI: null
Address: 80:E1:26:00:2E:30
Status: Unpaired

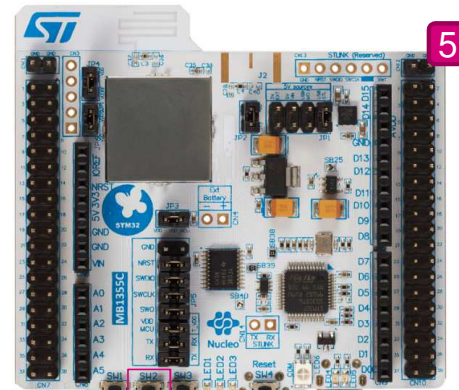
Connection with STM32WB



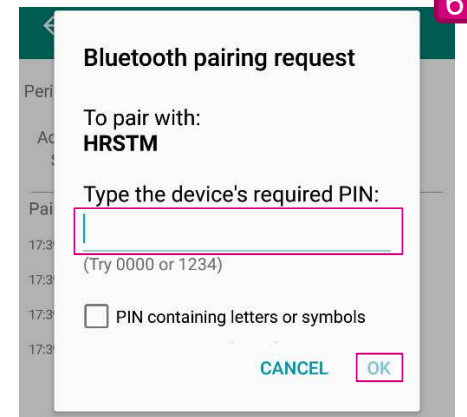
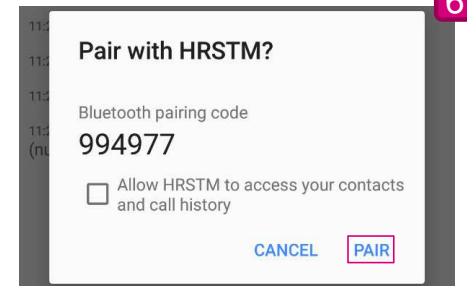
Peripheral: HRSTM
RSSI: null
Address: 80:E1:26:00:2E:30
Status: Unpaired

Pairing Logs :
11:24:10: Device state: Connected

Don't press PAIR and wait to be connected



Press SW2 on STM32WB to initiate slave pairing request



Confirm pairing request with PIN or numeric comparison
PIN code : 123456