Bluetooth User's Guide (Console Application)

Version 1.3.0

Display Audio

Solution Team

Release information

The following changes have been make to this document.

Change History

Date	Change
07 Dec. 2017	First release for v1.0.0
14 Nov. 2018	Second release for v1.1.0
18 Feb. 2019	Third release for v1.2.0
24 May. 2019	Fourth release for v1.3.0

Proprietary Notice

Information in this document is provided solely to enable system and software implementers to use Nexell products. There are no express or implied copyright licenses granted hereunder to design or fabricate any integrated circuits or integrated circuits based on the information in this document.

Nexell reserves the right to make changes without further notice to any products herein.

Nexell makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Nexell assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. “Typical” parameters which may be provided in Nexell data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including “Typicals” must be validated for each customer application by customer’s technical experts. Nexell does not convey any license under its patent rights nor the rights of others. Nexell products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Nexell product could create a situation where personal injury or death may occur. Should Buyer purchase or use Nexell products for any such unintended or unauthorized application, Buyer shall indemnify and hold Nexell and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Nexell was negligent regarding the design or manufacture of the part.

Contact us

[11595] BundangYemiji Bldg. 12F, 31 Hwangsaeul-ro 258 beon gil, Bundang-gu, Sungnam-city, Gyeonggi-do, Korea.

TEL: 82-31-698-7400

FAX:82-31-698-7455

http://www.nexell.co.kr

Table of contents

Chap 1. Overview

1.1 Introduce

This document describes function scenario of the NXBT class APIs.

1.2 Application

It provides a simple console application to test the NXBT class APIs.

1.2.1 NxBTServiceConsole

```
================================================
NXBT version : v1.3.0
================================================
NXBT profile service main menu :
[MGT]==========================================
 0              => Read BSA server and FW version
 1              => Get local BT information
 2              => Set local BT name
 3              => Get paired device list
 4              => Enable auto-connection mode
 5              => Disable auto-connection mode
 6              => Enable auto-pairing mode
 7              => Disable auto-pairing mode
 8              => Accept pairing
 9              => Reject pairing
 10             => Request repair to paired device
 11             => Unpair the device
 12             => Set discoverable
 13             => Clear discoverable
 14             => Start discovery
 15             => Stop discovery
 16             => Get discovered device list
 17             => Bond discovered device
 18             => Cancel the bonding of the device being bonded
```

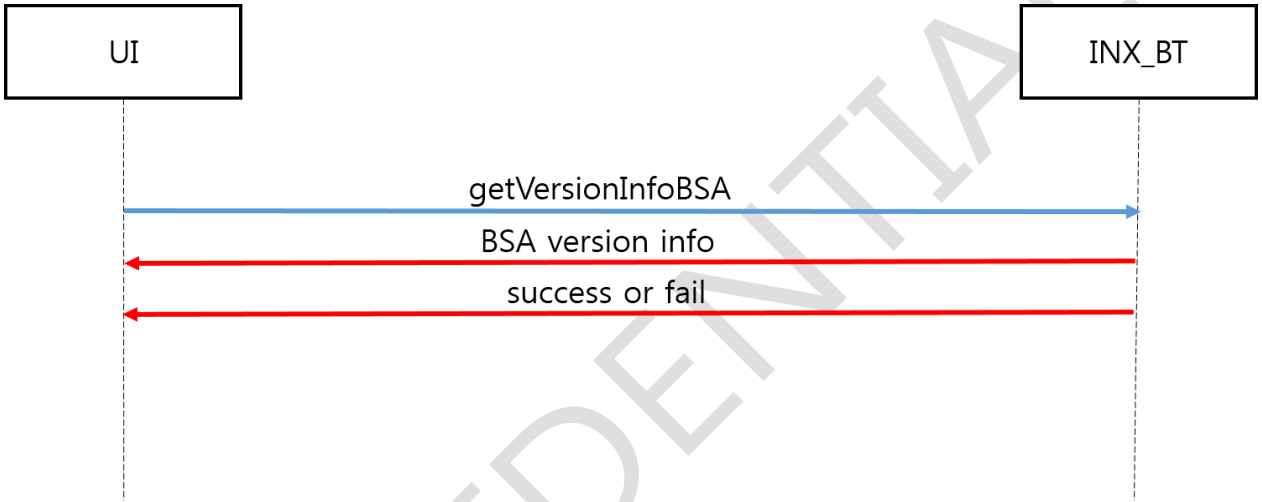
```
[AVK]=========================================
 19              => AVK connection
 20              => AVK disconnection
 21              => Get number of the AVK connection
 22              => Get AVK connected device address
 23              => Get latest AVK connected device index
 24              => Start play
 25              => Stop play
 26              => Pause play
 27              => Next play
 28              => Prev play
 29              => Open AVK audio
 30              => Close AVK audio
 31              => Get media elements
 [HS]==========================================
 32              => HS connection
 33              => HS disconnection
 34              => Get HS connected device address
 35              => Get latest HS connected device index
 36              => Pickup the call
 37              => Hangup the call
 38              => Open HS audio
 39              => Close HS audio
 40              => Mute microphone
 41              => Unmute microphone
 42              => Dial a phone number
 43              => Redial a phone number
 44              => Send DTMF AT command
 45              => Request call indicator
 46              => Request call operater name
 47              => Request current calls
 48              => Get battery charging status value
 49              => Start voice recognition
 50              => Stop voice recognition
[PBC]==========================================
 51              => PBC connection
 52              => PBC disconnection
```

```
  53                => PBC abort
  54                => Get contact
  55                => Get call history
[MCE]=============================================
  56                => MCE connection
  57                => MCE disconnection
  58                => Start MCE notification server
  59                => Stop MCE notification server
  60                => Get message
================================================
  99                => Quit
================================================
Select menu =>
```

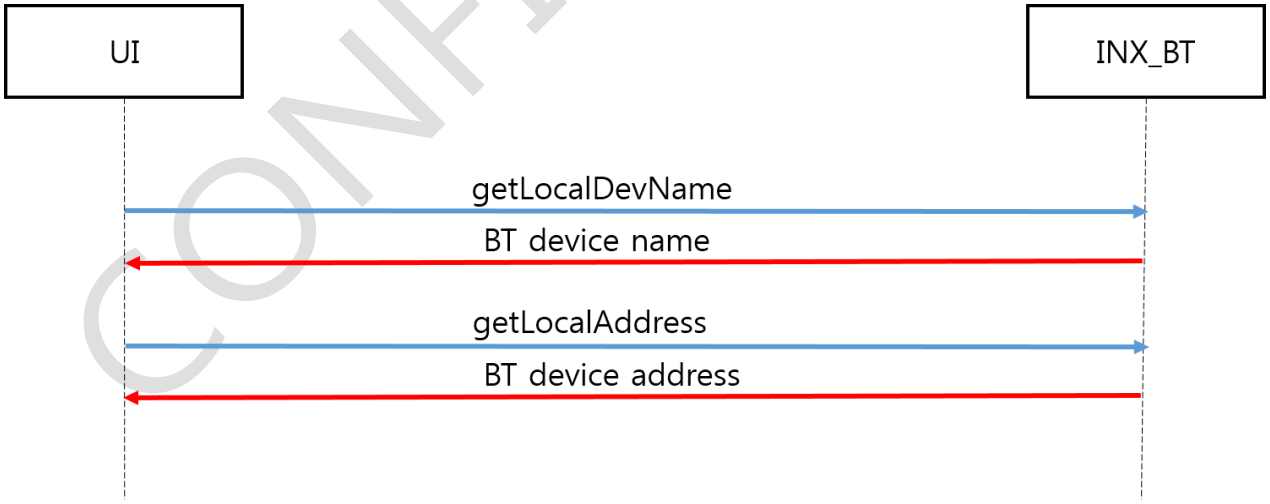
Chap 2. Function scenario

2.1 MGT functions (Manager)

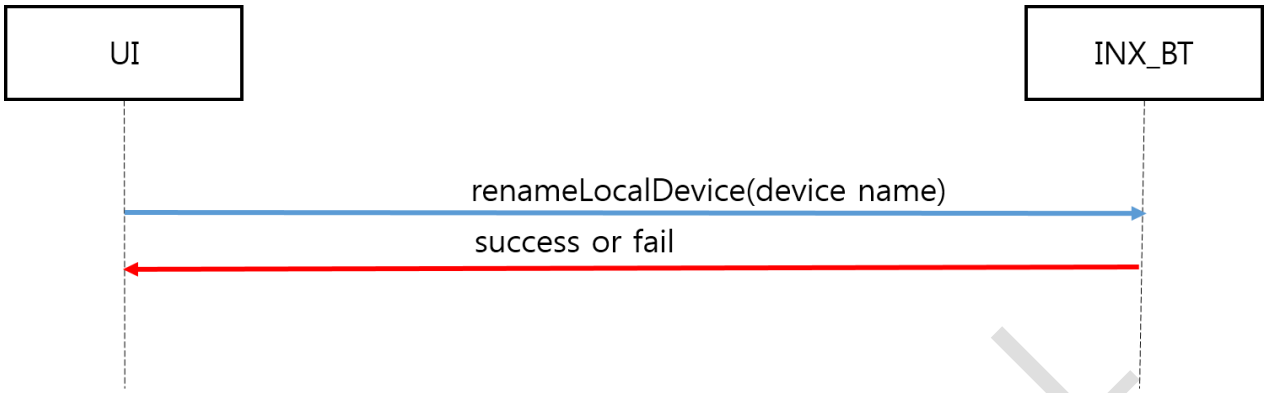
2.1.1 Read BSA server and FW version



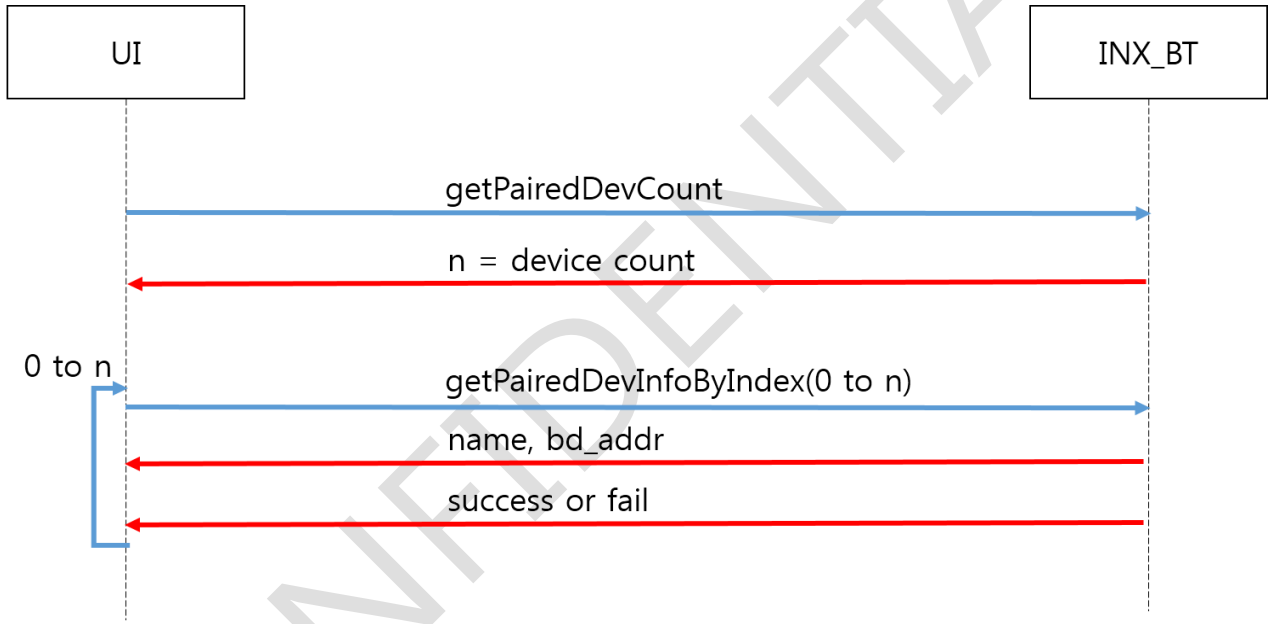
2.1.2 Get local BT information



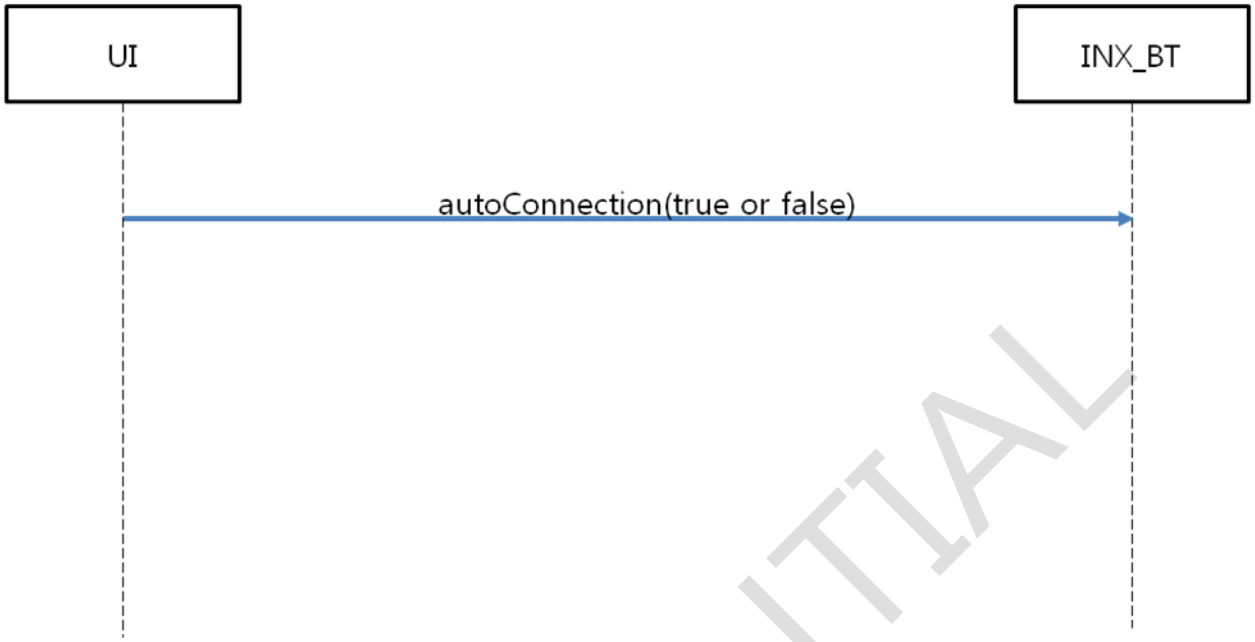
2.1.3 Set local BT name



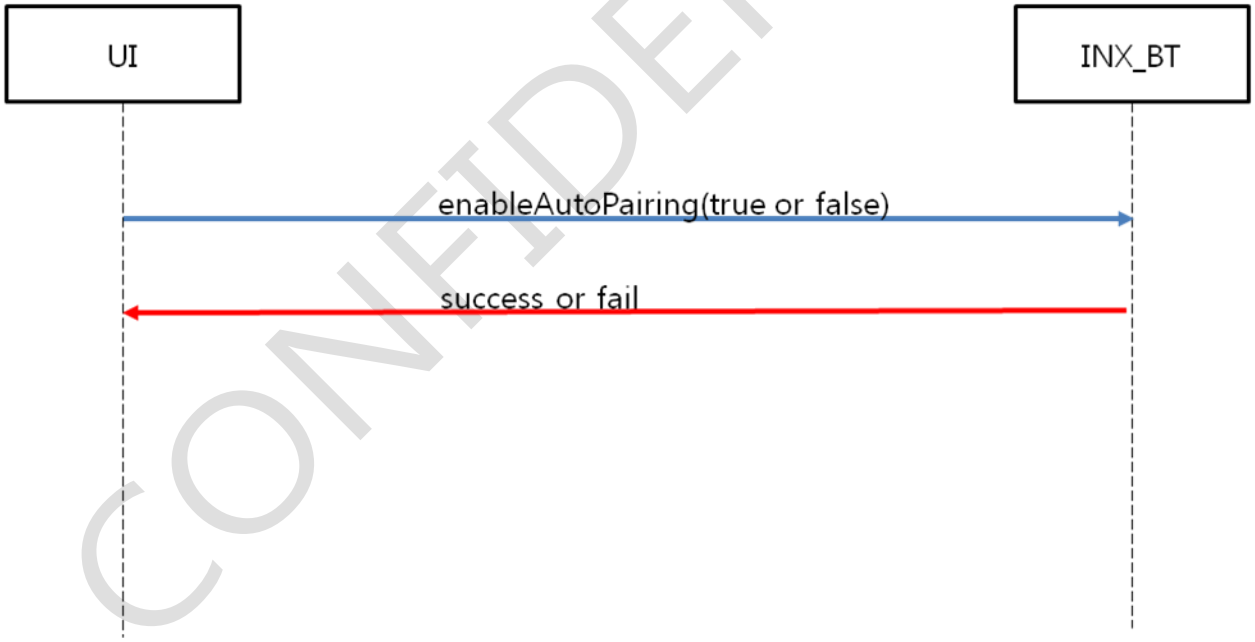
2.1.4 Get paired device list



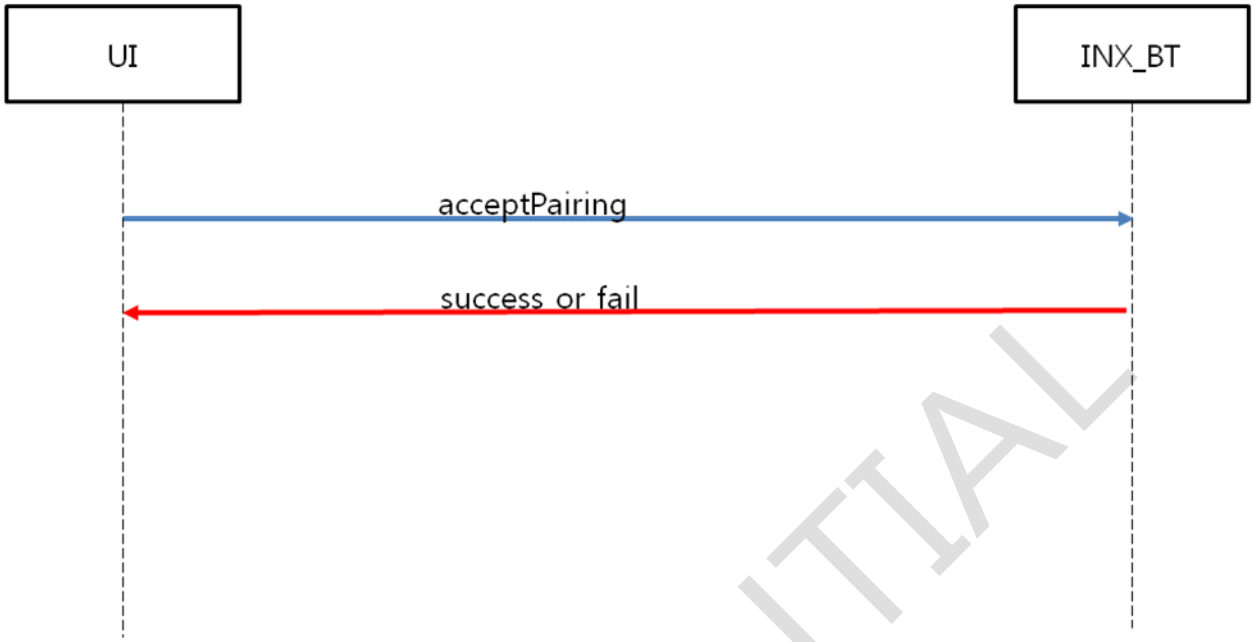
2.1.5 Enable/Disable auto-connection mode



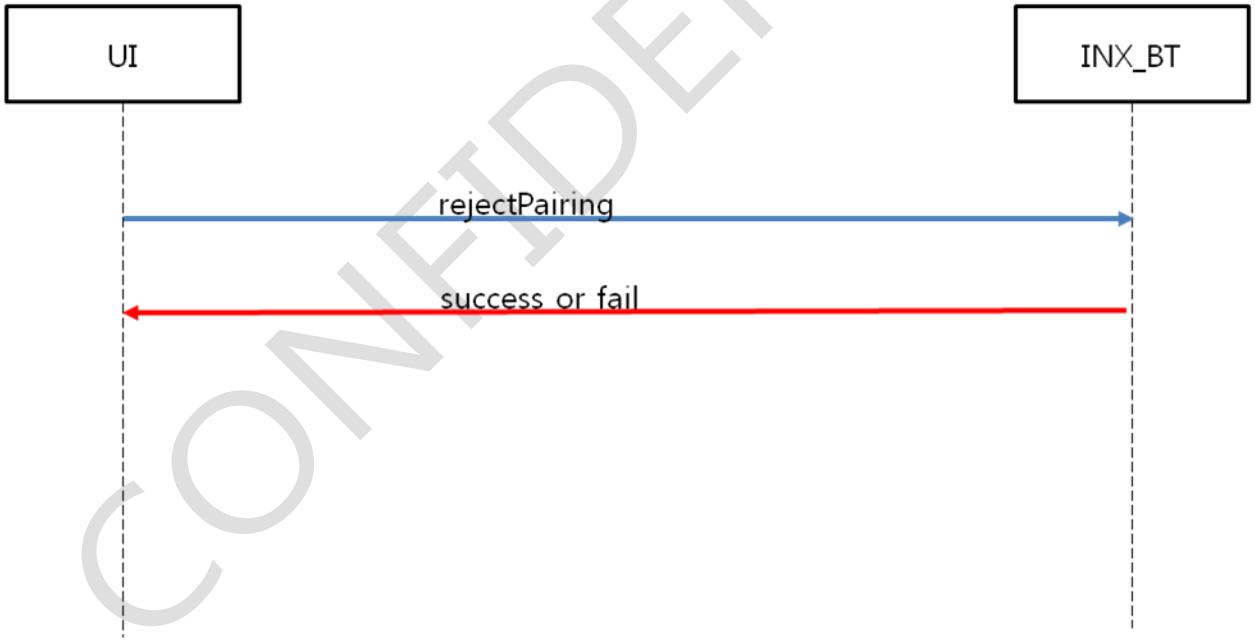
2.1.6 Enable/Disable auto-pairing mode



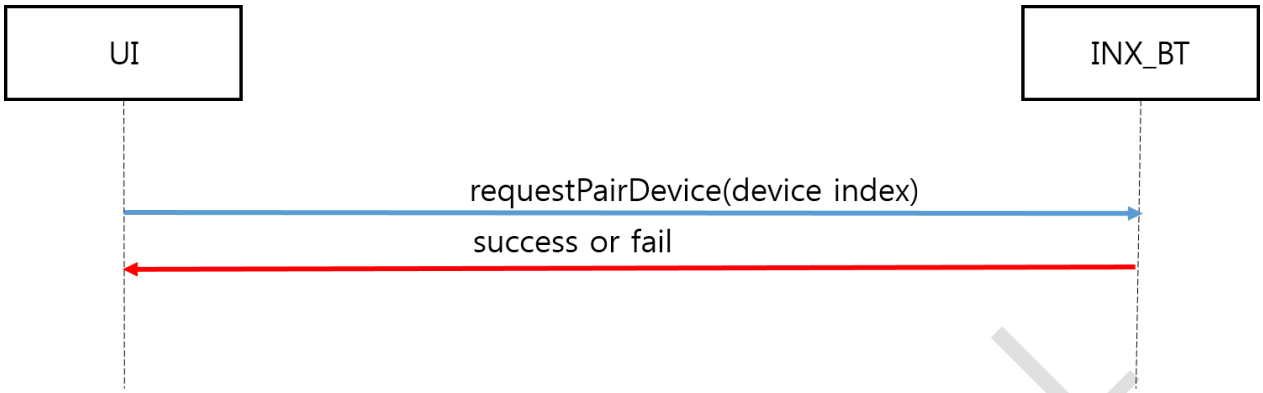
2.1.7 Accept pairing



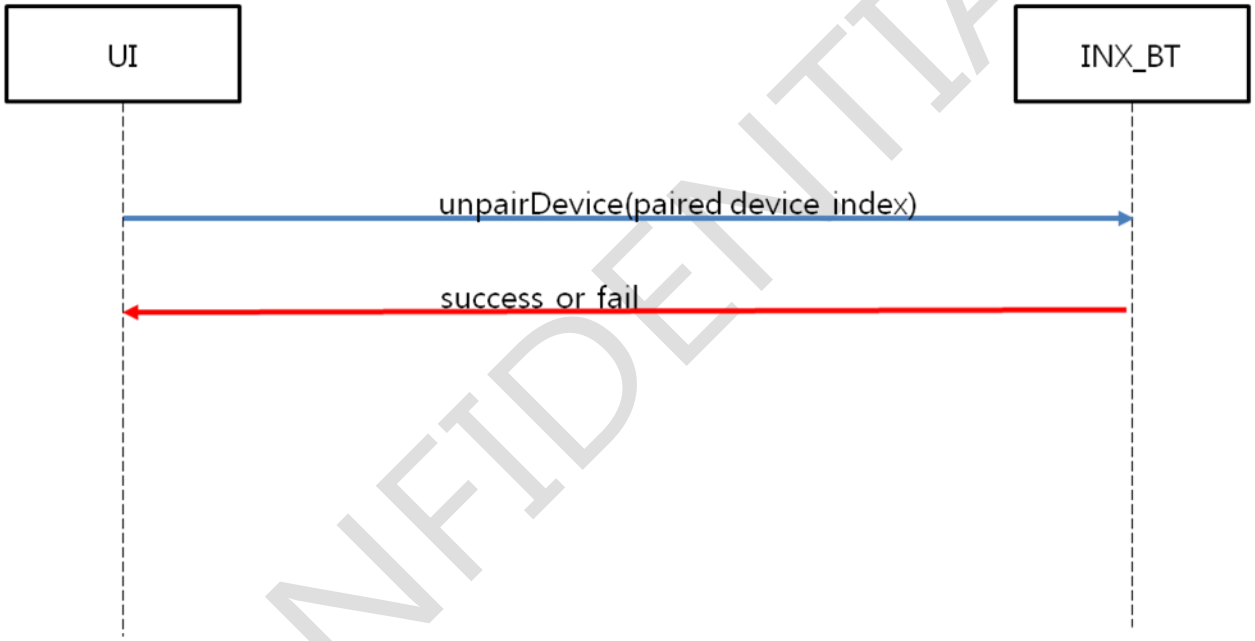
2.1.8 Reject pairing



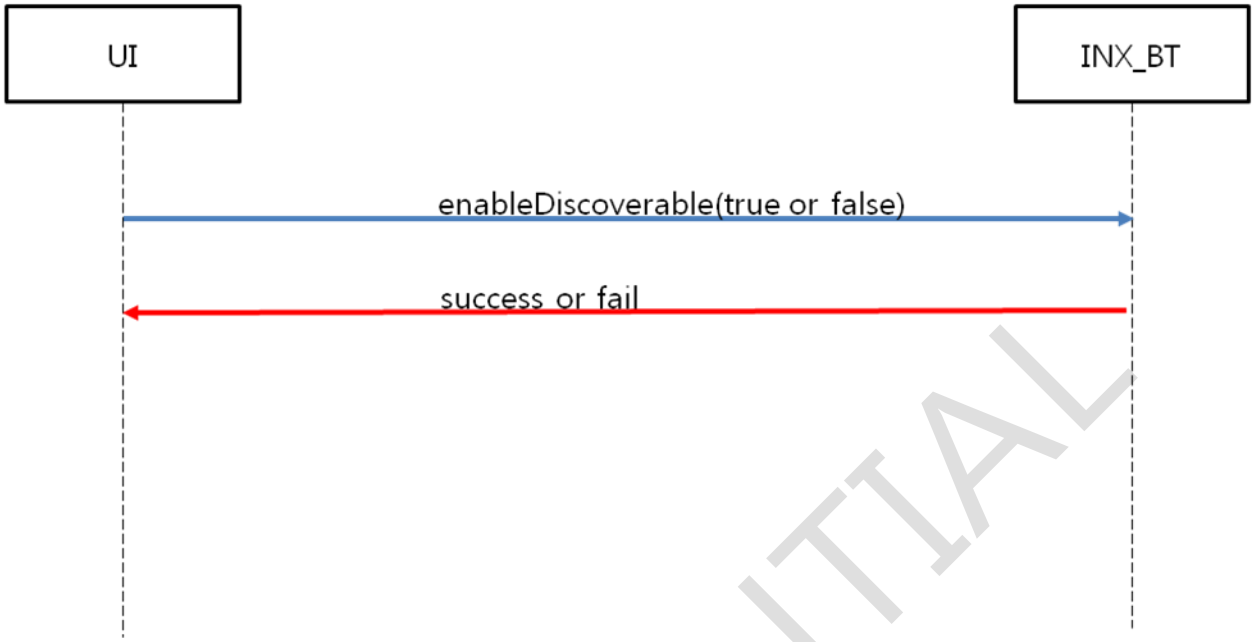
2.1.9 Request repair to paired device



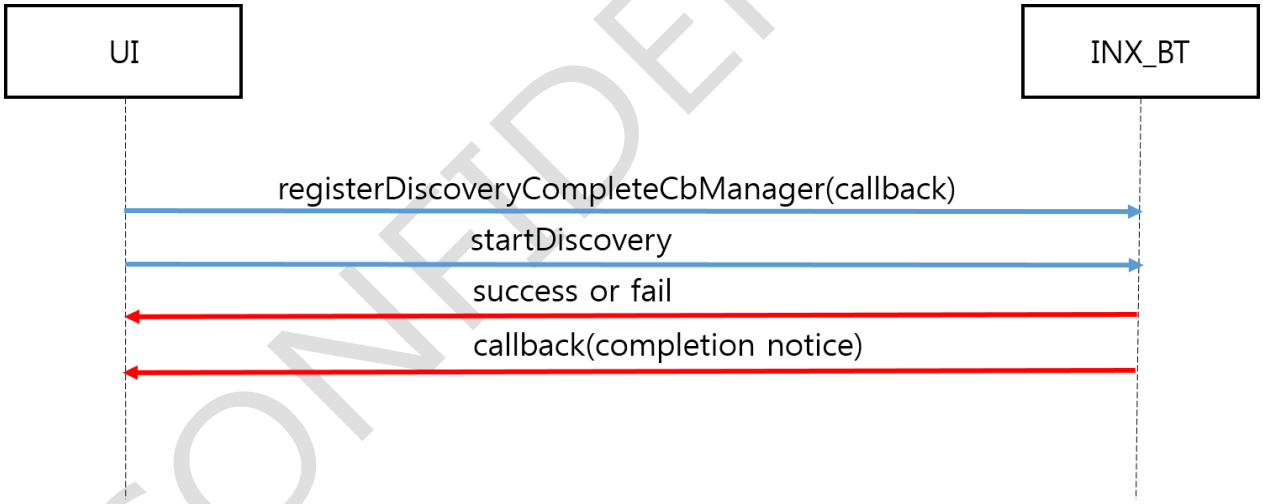
2.1.10 Unpair the device



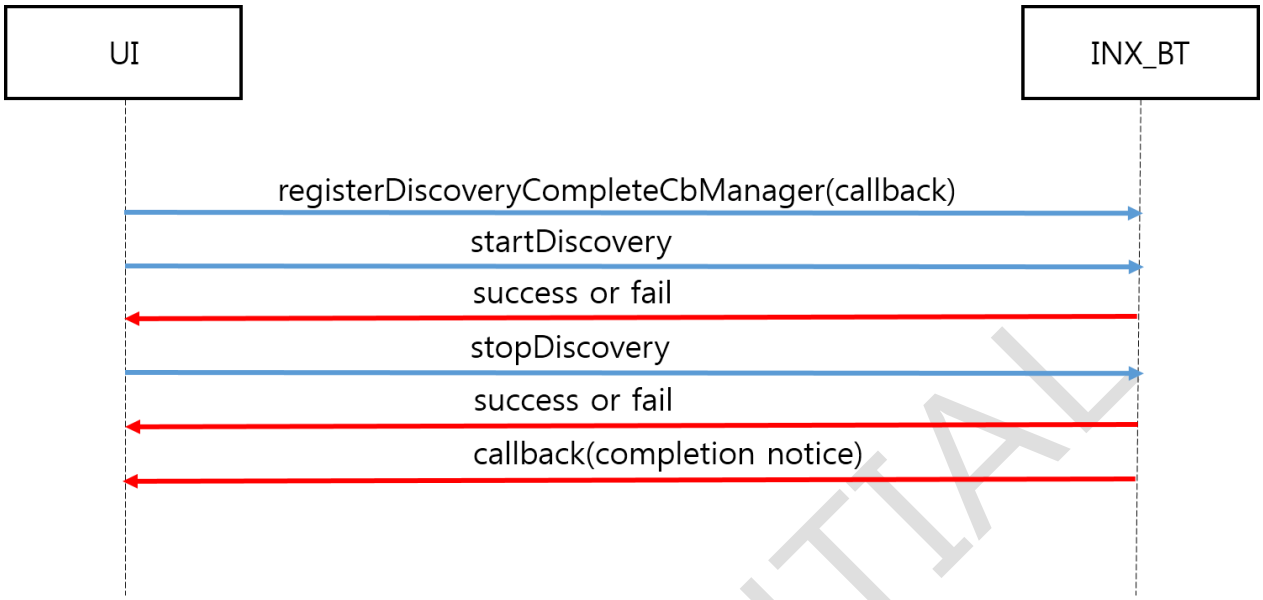
2.1.11 Set/Clear discoverable



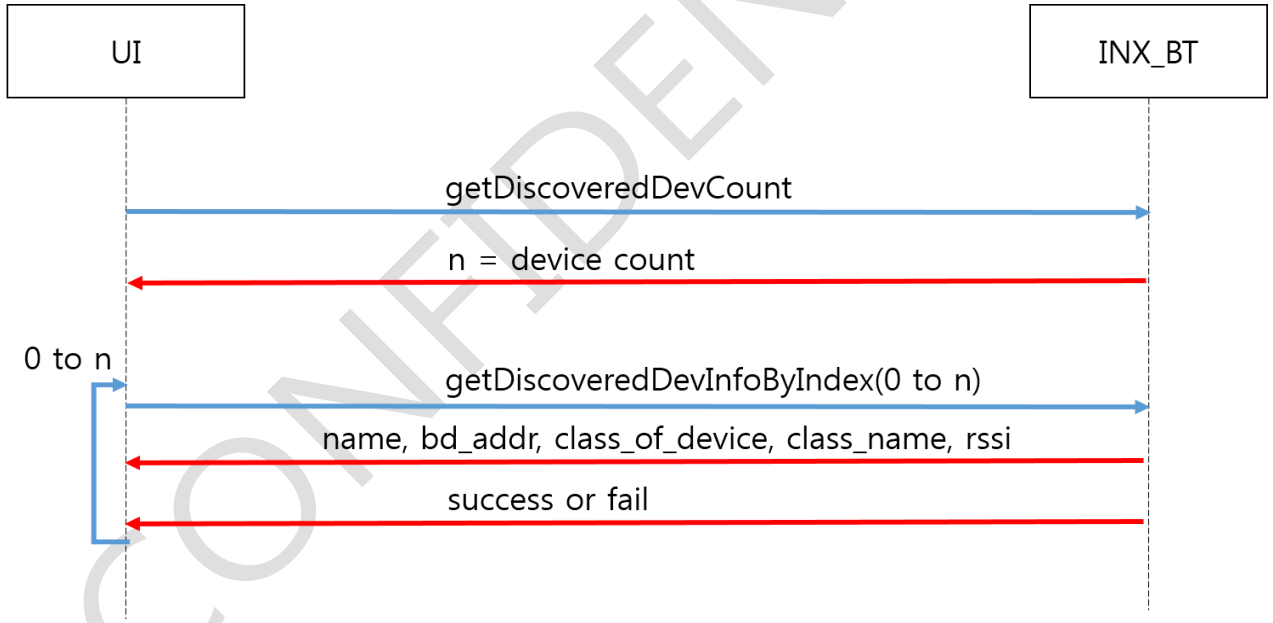
2.1.12 Start discovery



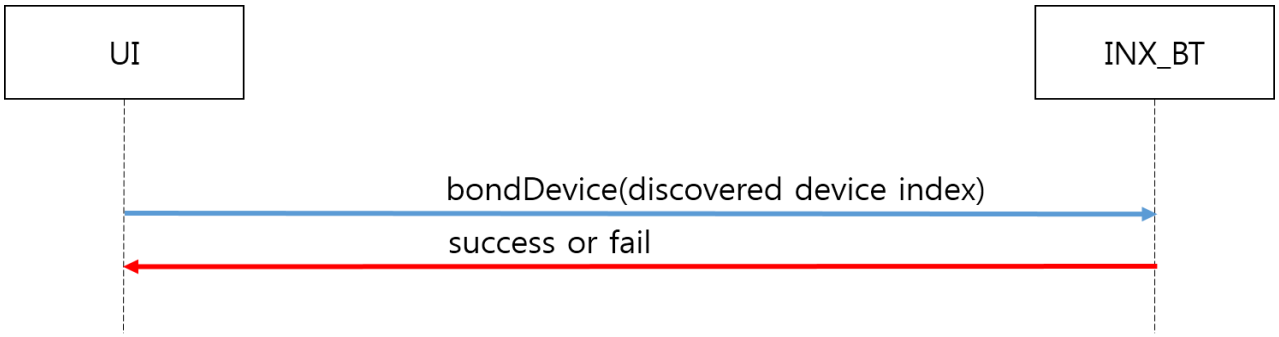
2.1.13 Stop discovery



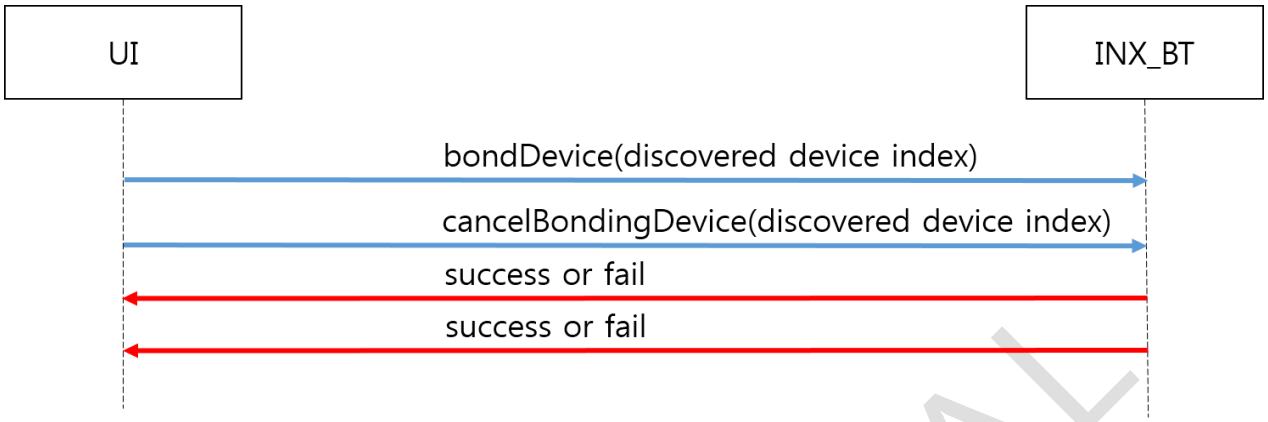
2.1.14 Get discovered device list



2.1.15 Bond discovered device

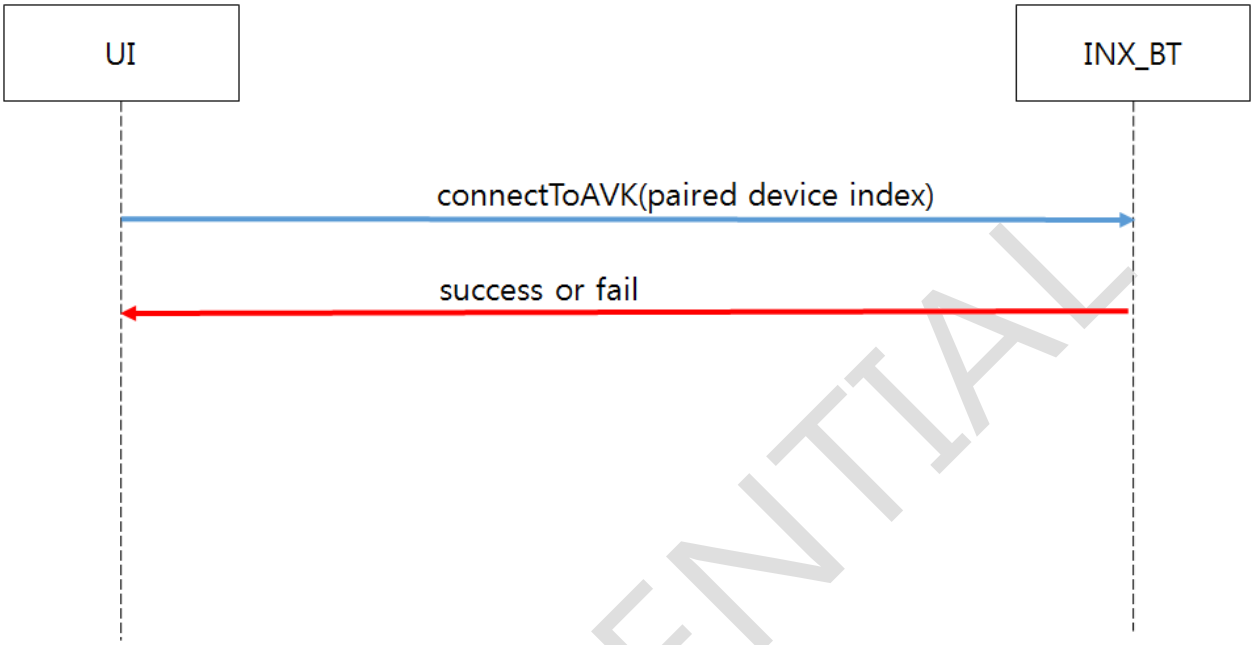


2.1.16 Cancel the bonding of the device being bonded

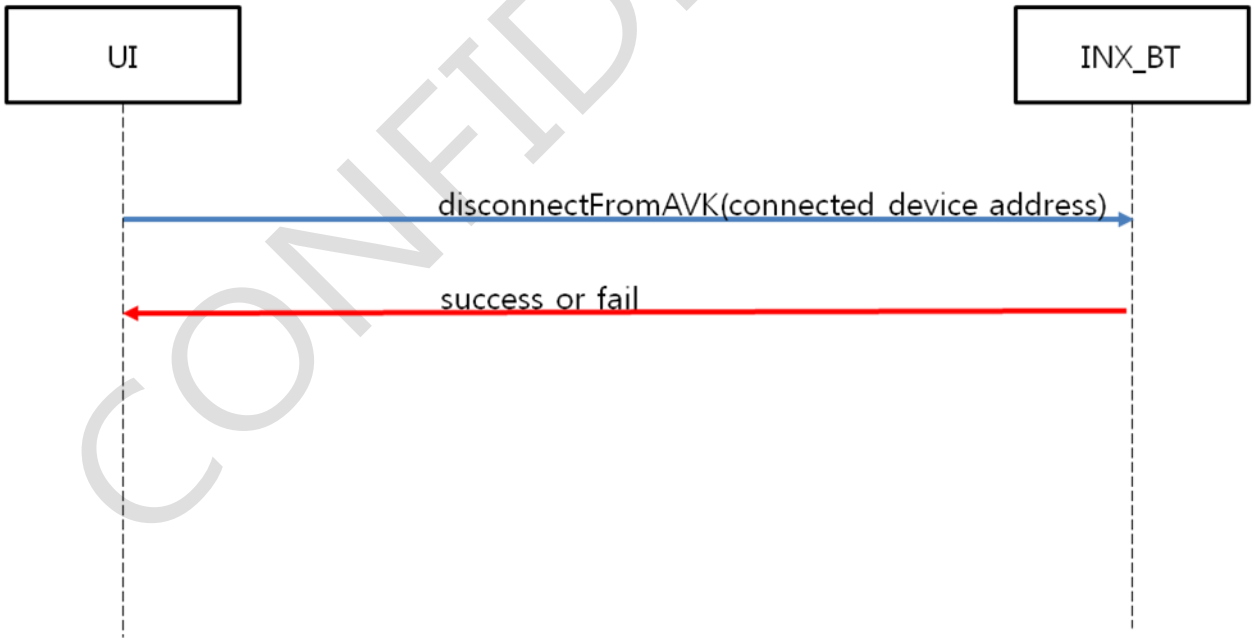


2.2 AVK functions (A2DP, AVRCP)

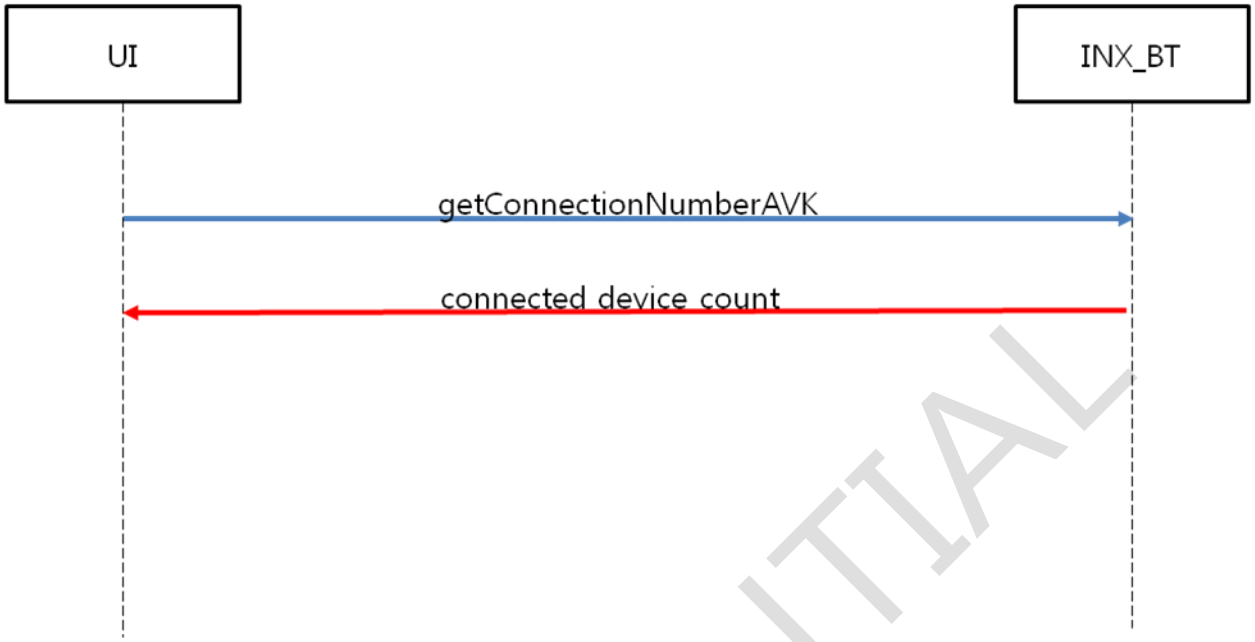
2.2.1 AVK connection



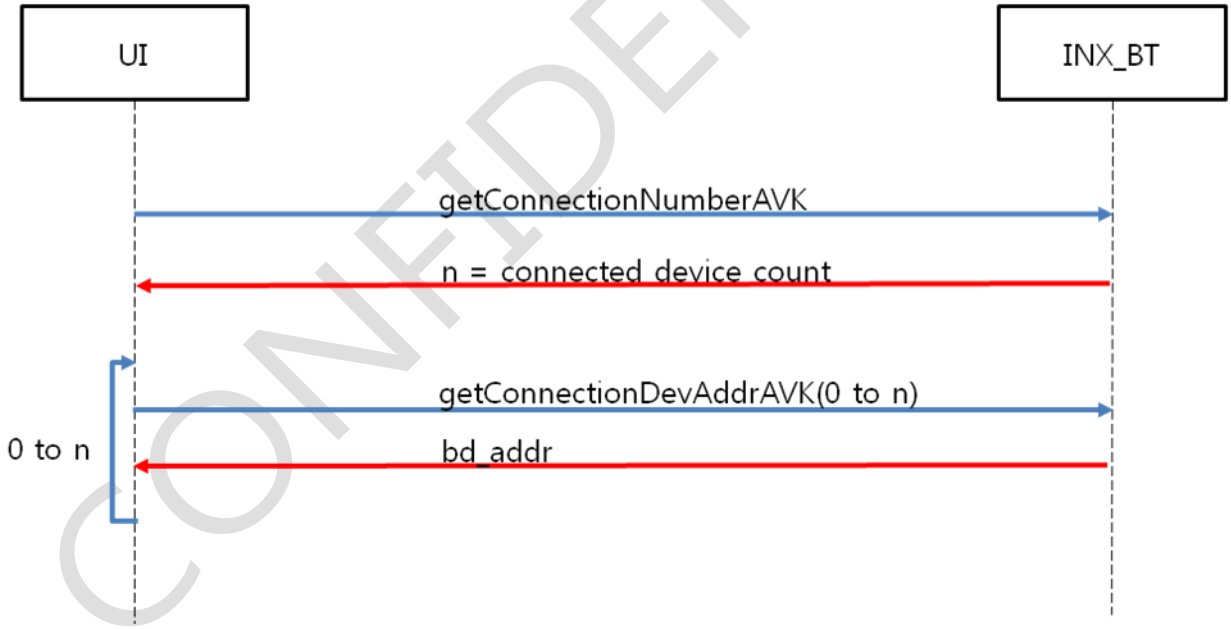
2.2.2 AVK disconnection



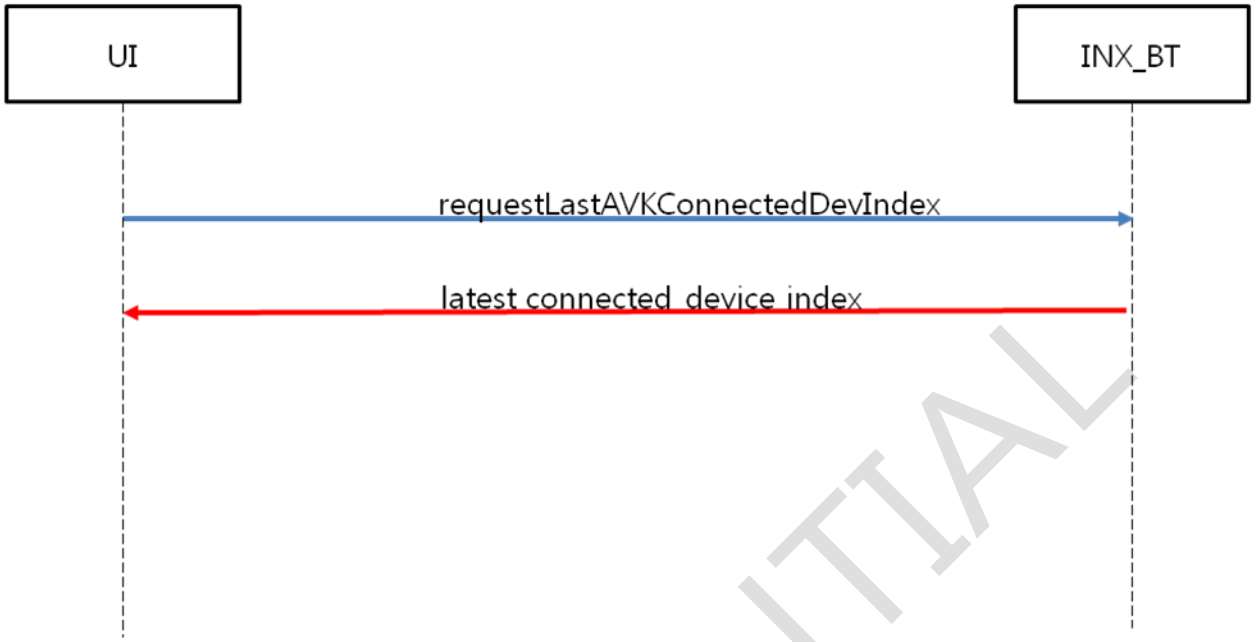
2.2.3 Get number of the AVK connections



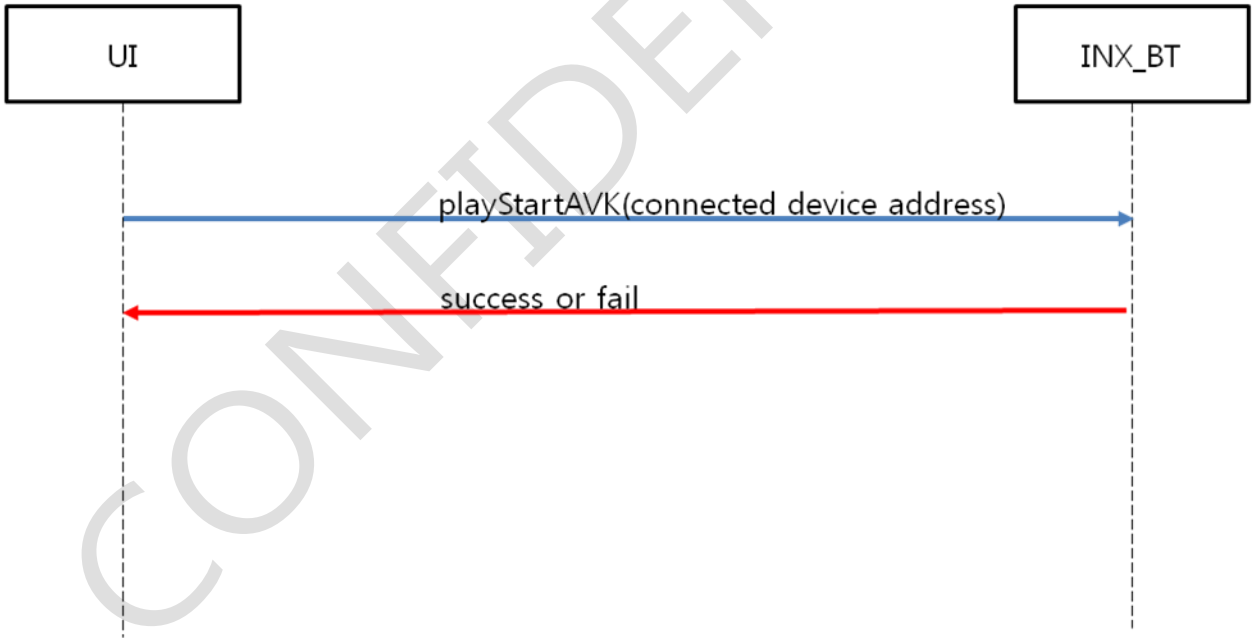
2.2.4 Get AVK connected device address



2.2.5 Get AVK latest connected device index

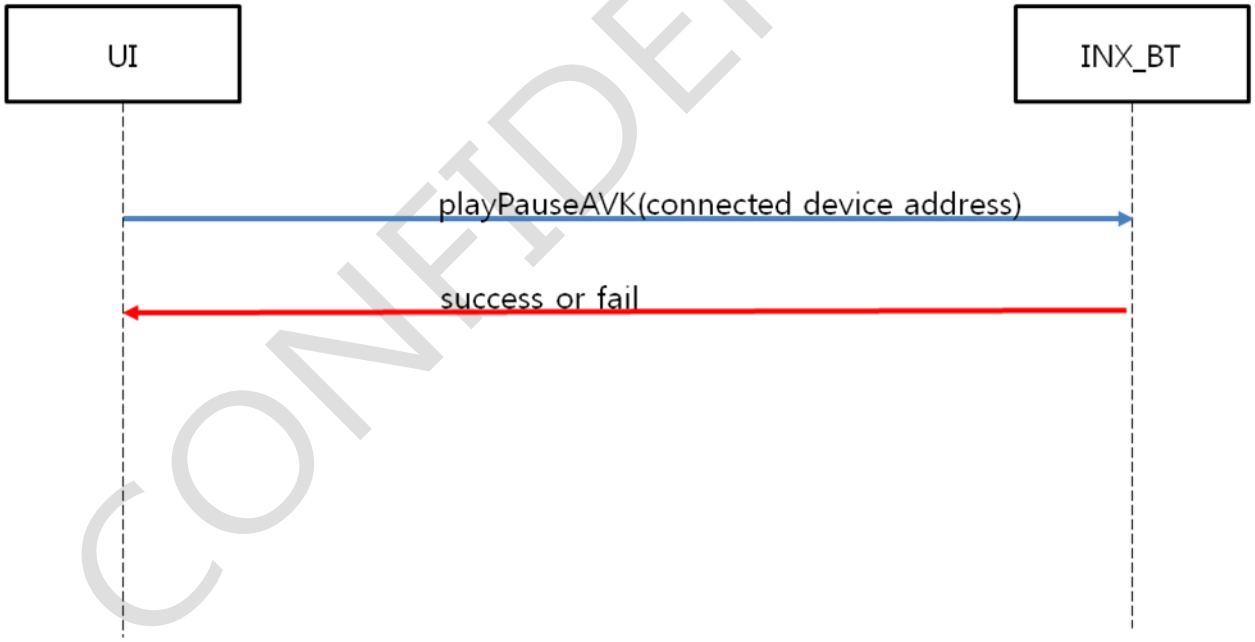


2.2.6 Play start



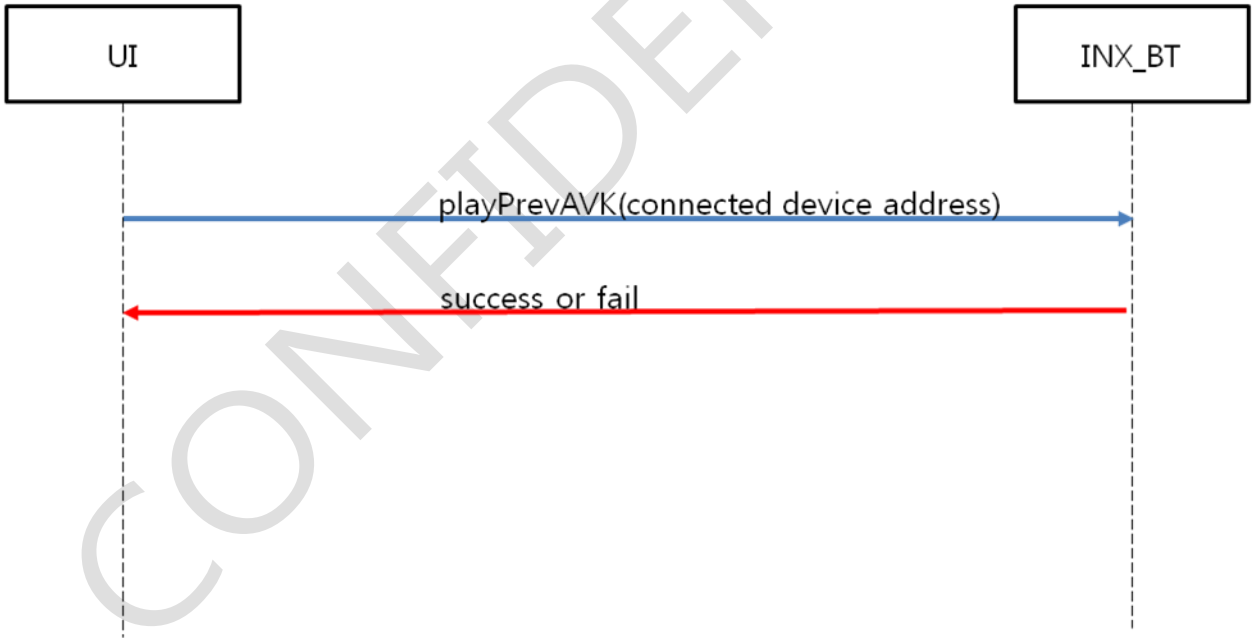
2.2.7 Play stop

2.2.8 Play pause

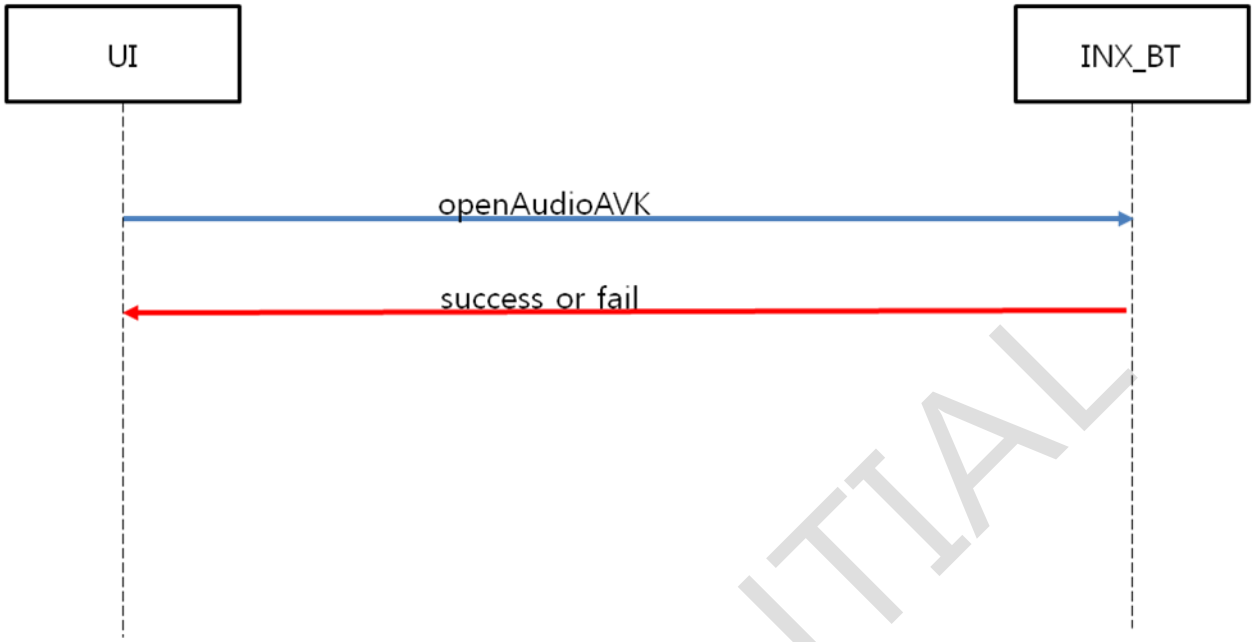


2.2.9 Play next

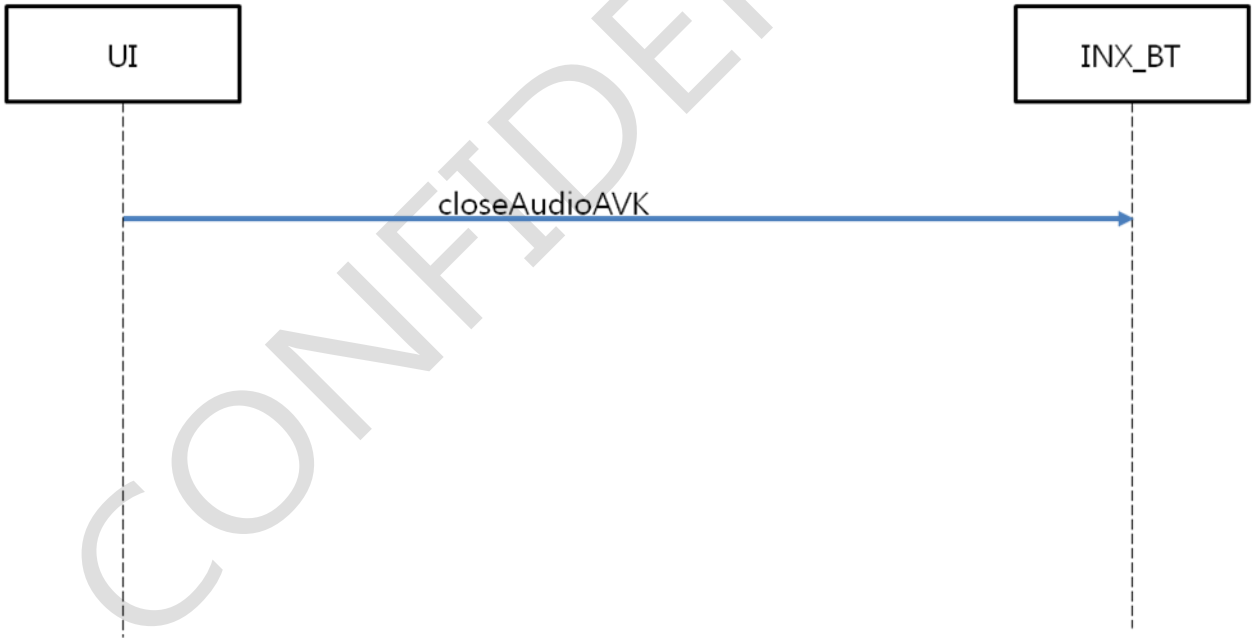
2.2.10 Play prev



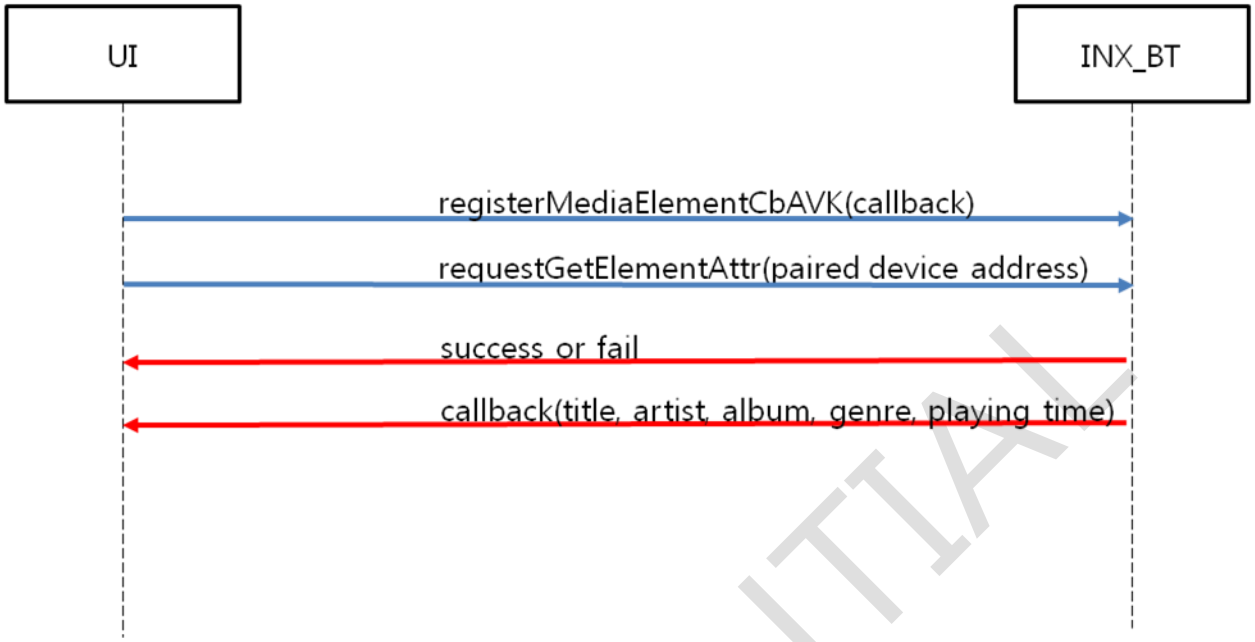
2.2.11 Open AVK audio



2.2.12 Close AVK audio

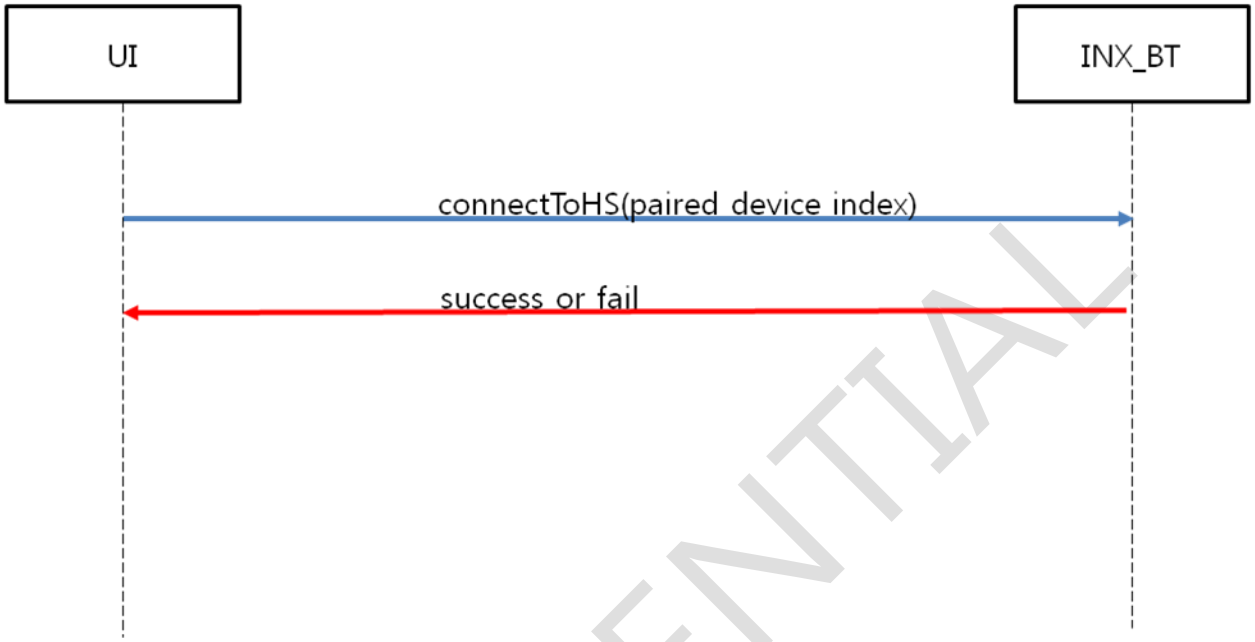


2.2.13 Get media elements

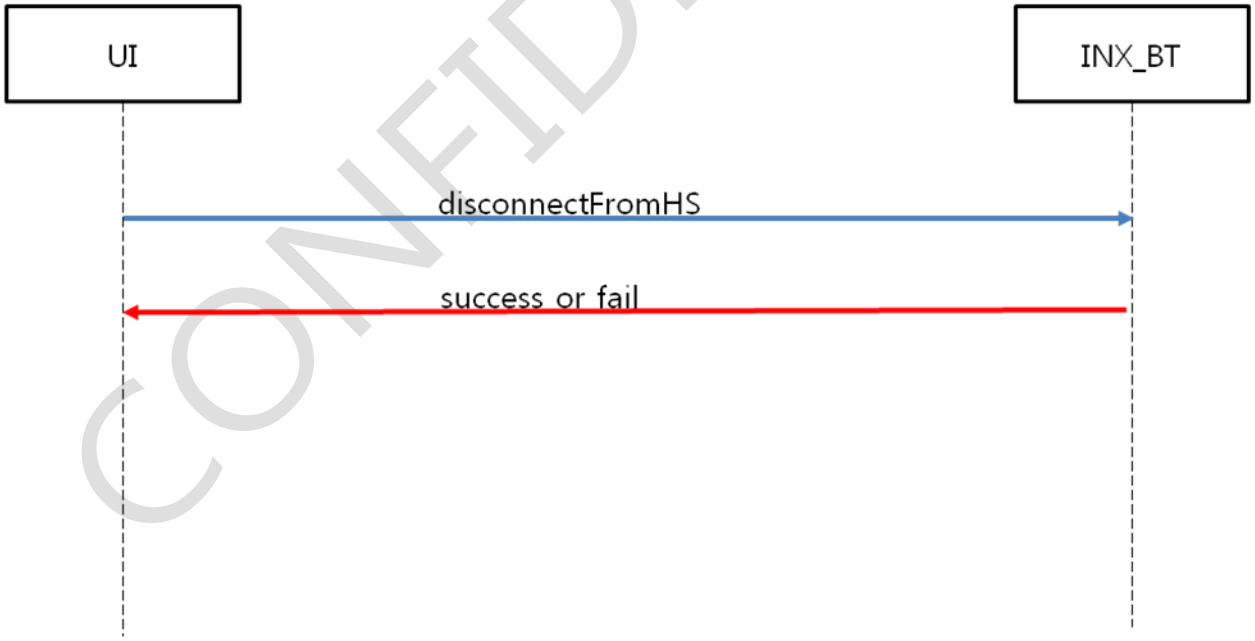


2.3 HS functions (HFP)

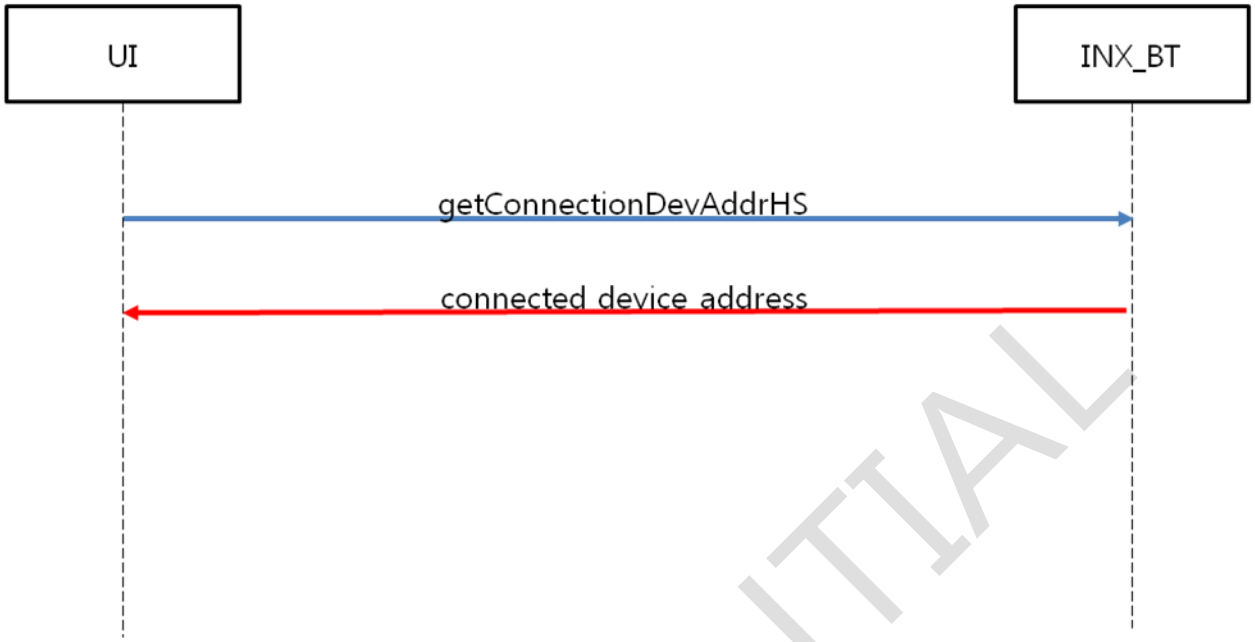
2.3.1 HS connection



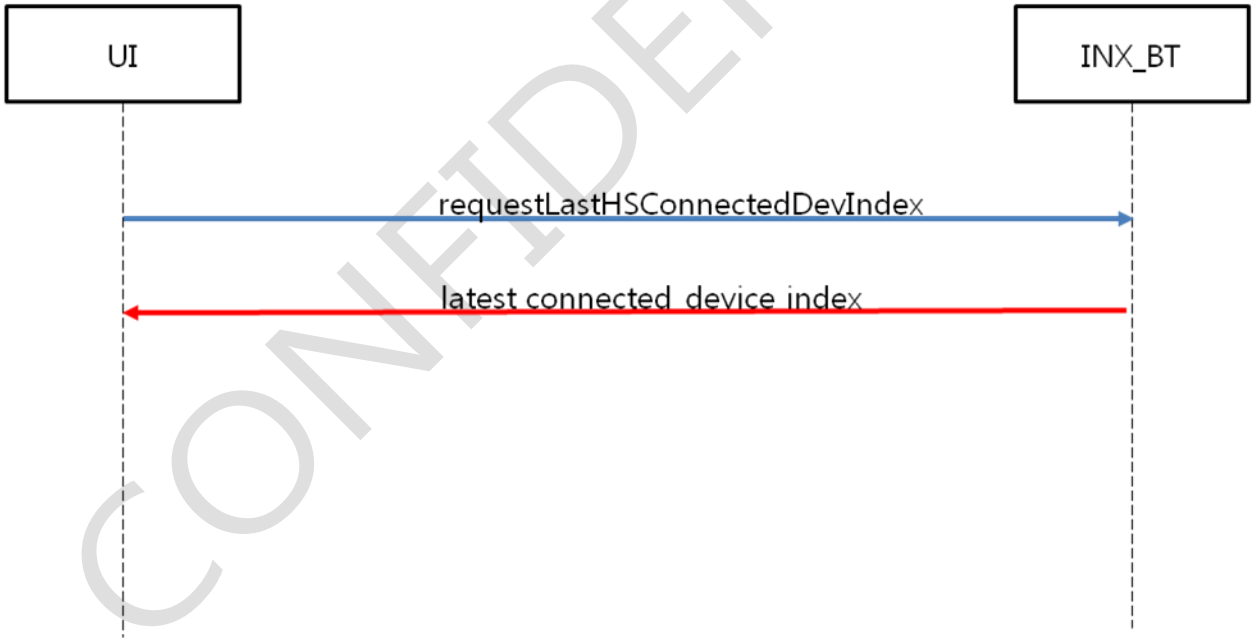
2.3.2 HS disconnection



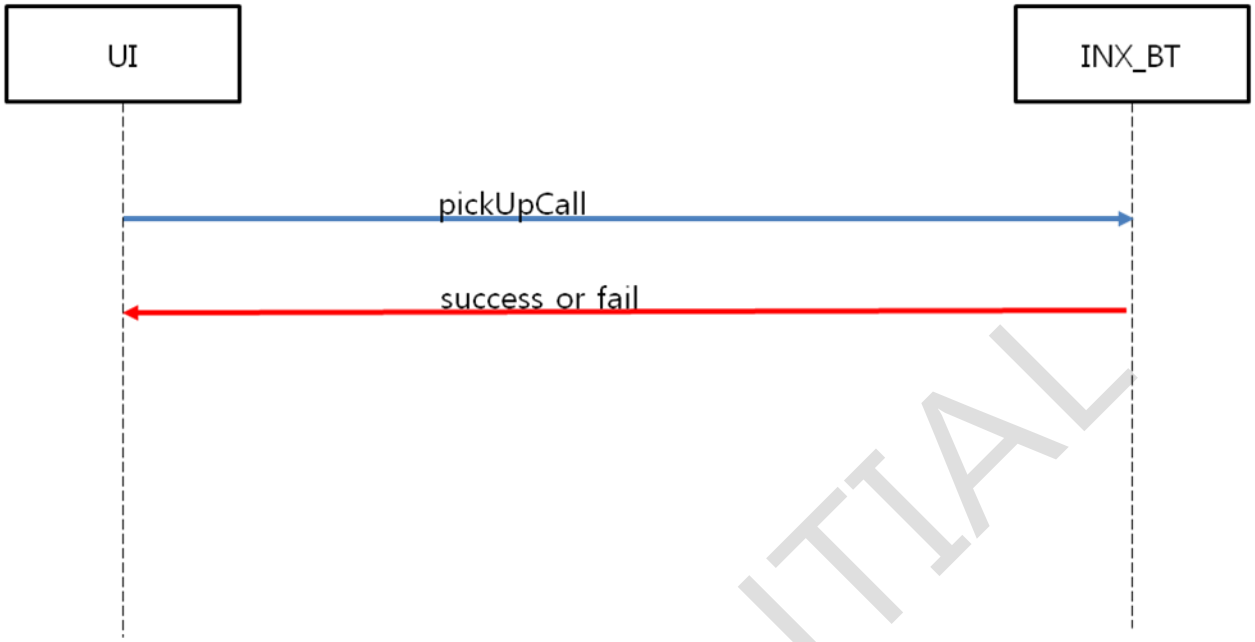
2.3.3 Get HS connected device address



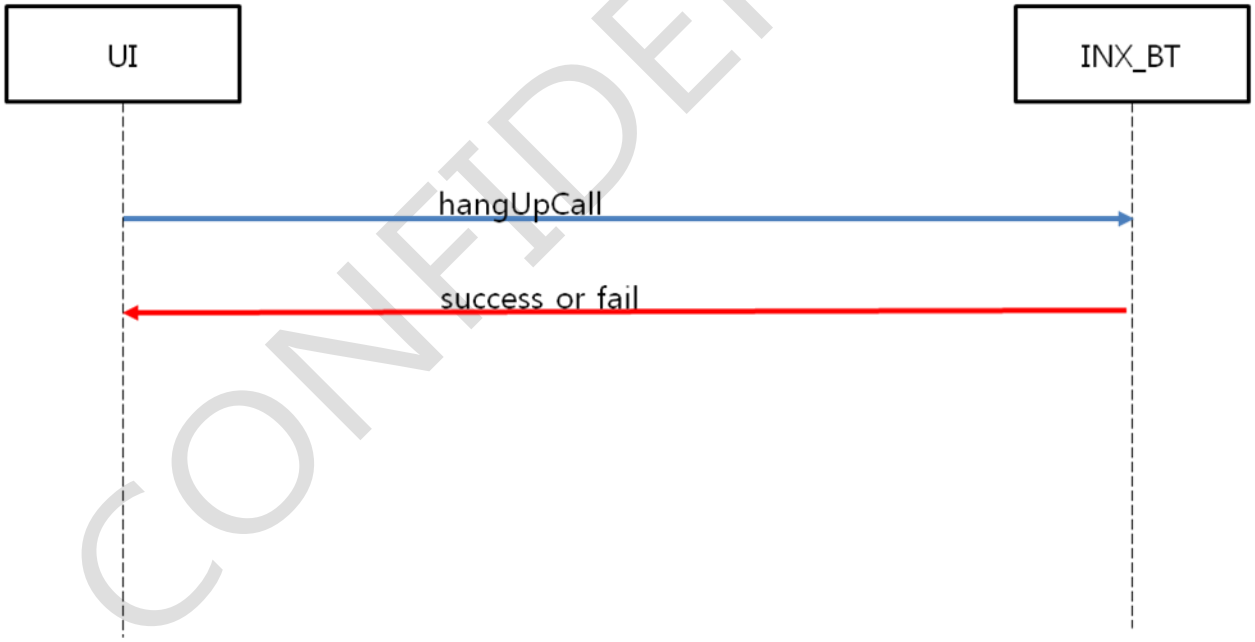
2.3.4 Get HS latest connected device index



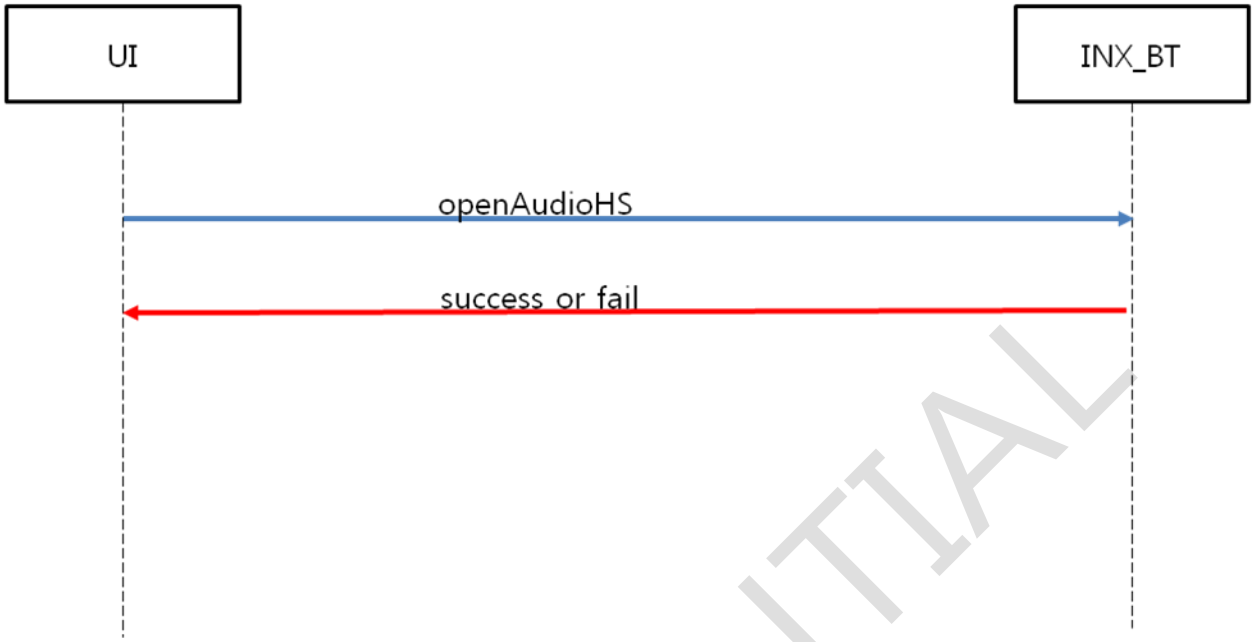
2.3.5 Pickup the call



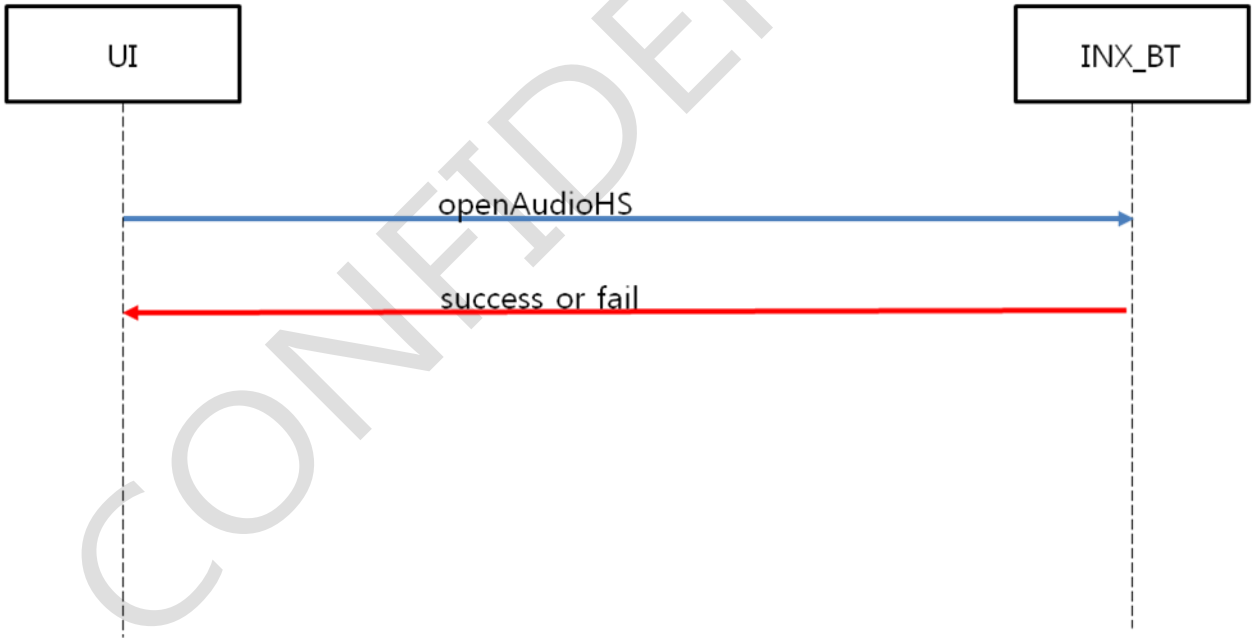
2.3.6 Hangup the call



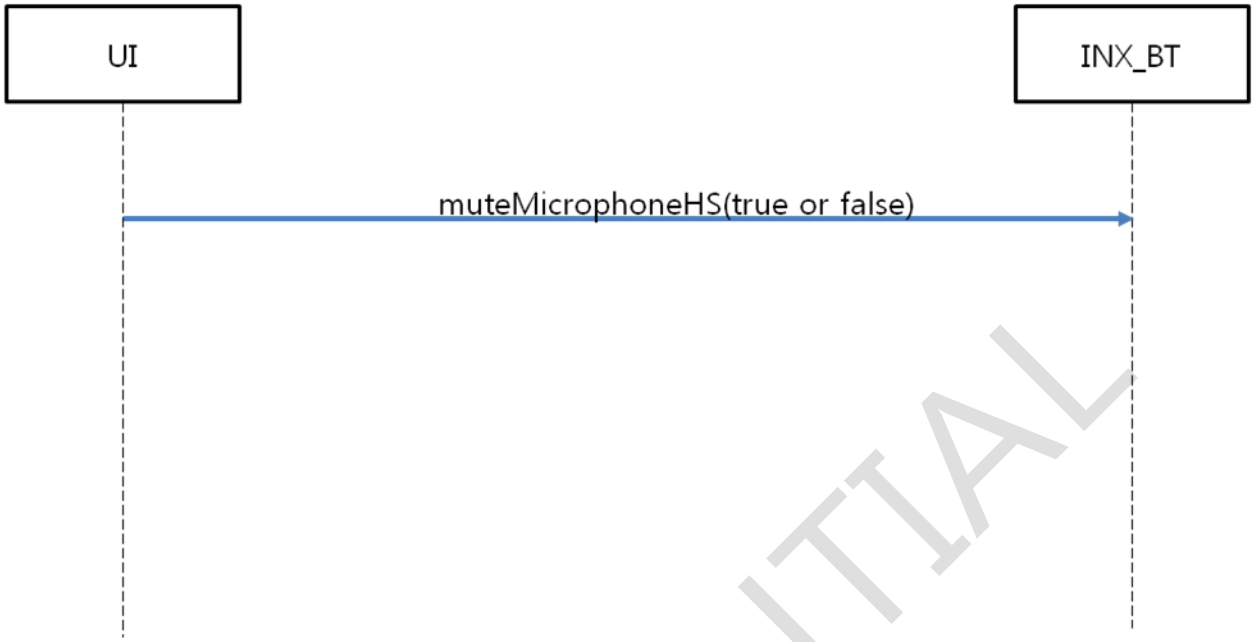
2.3.7 Open HS audio



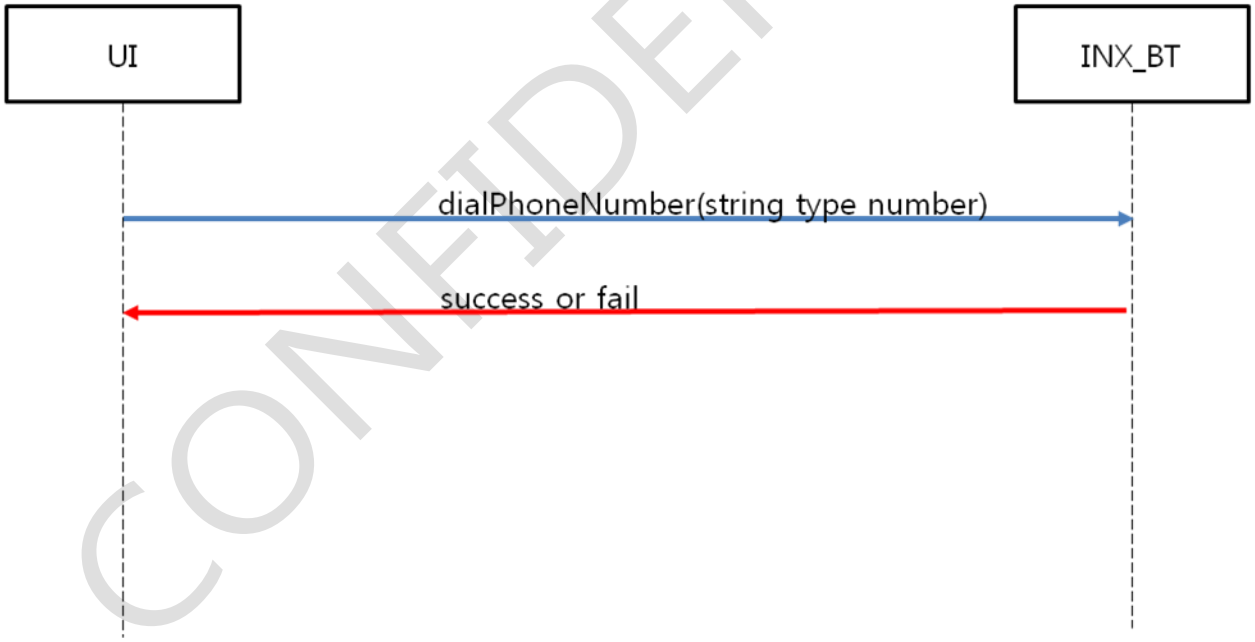
2.3.8 Close HS audio



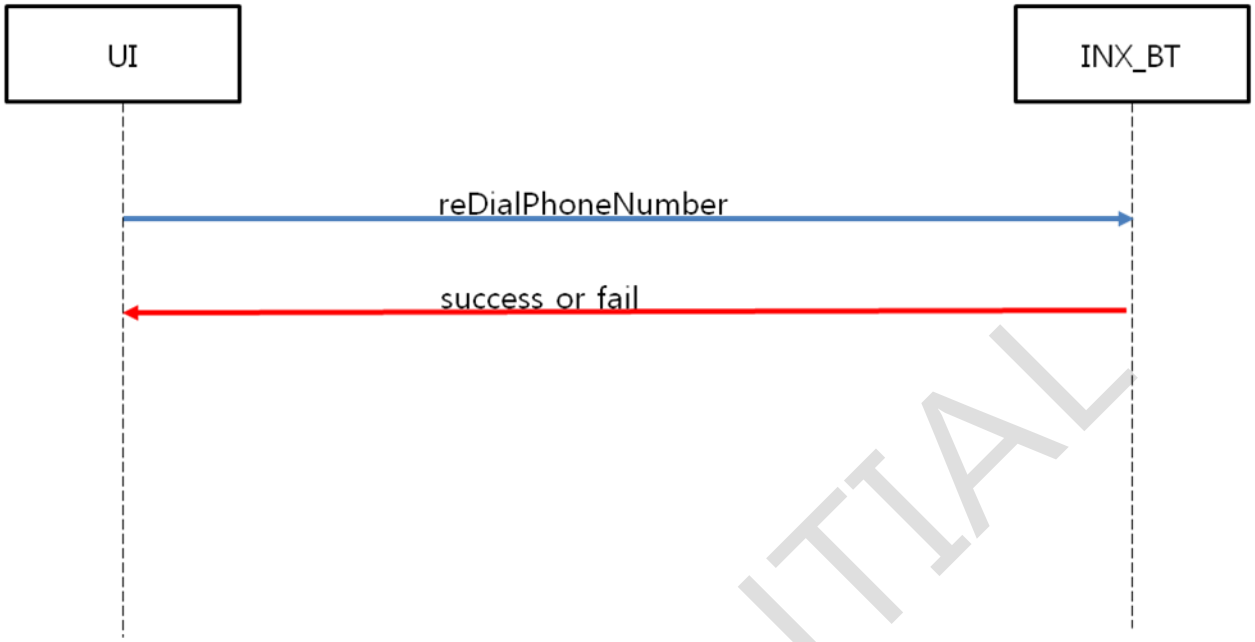
2.3.9 Mute/Unmute microphone



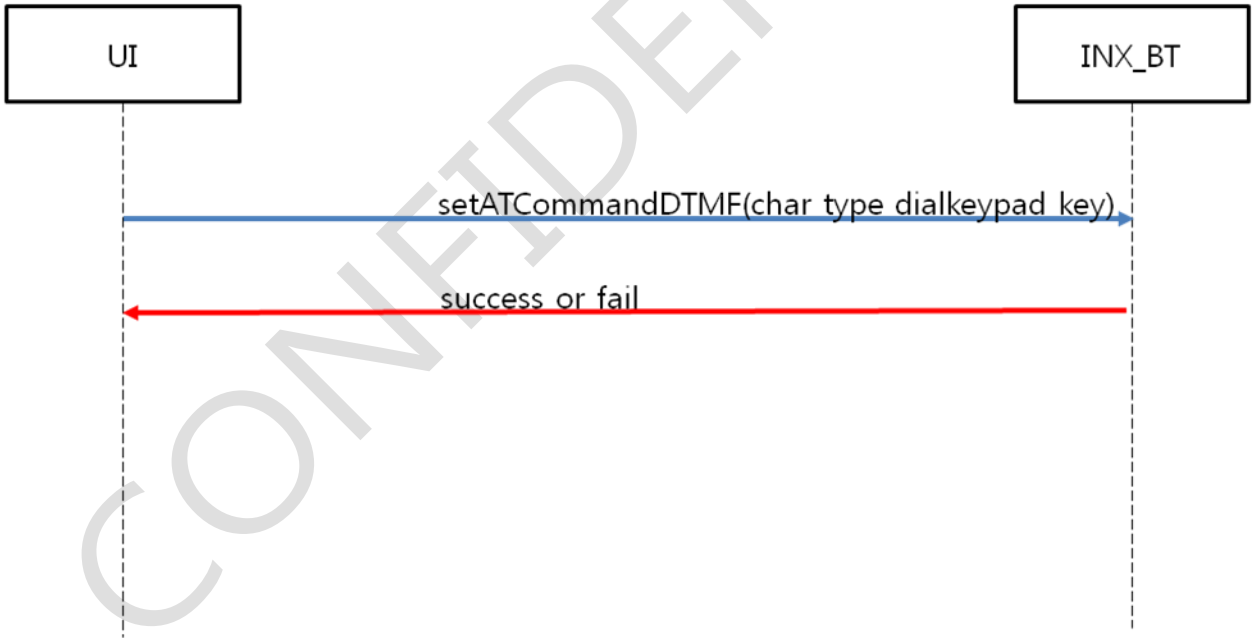
2.3.10 Dial a phone number



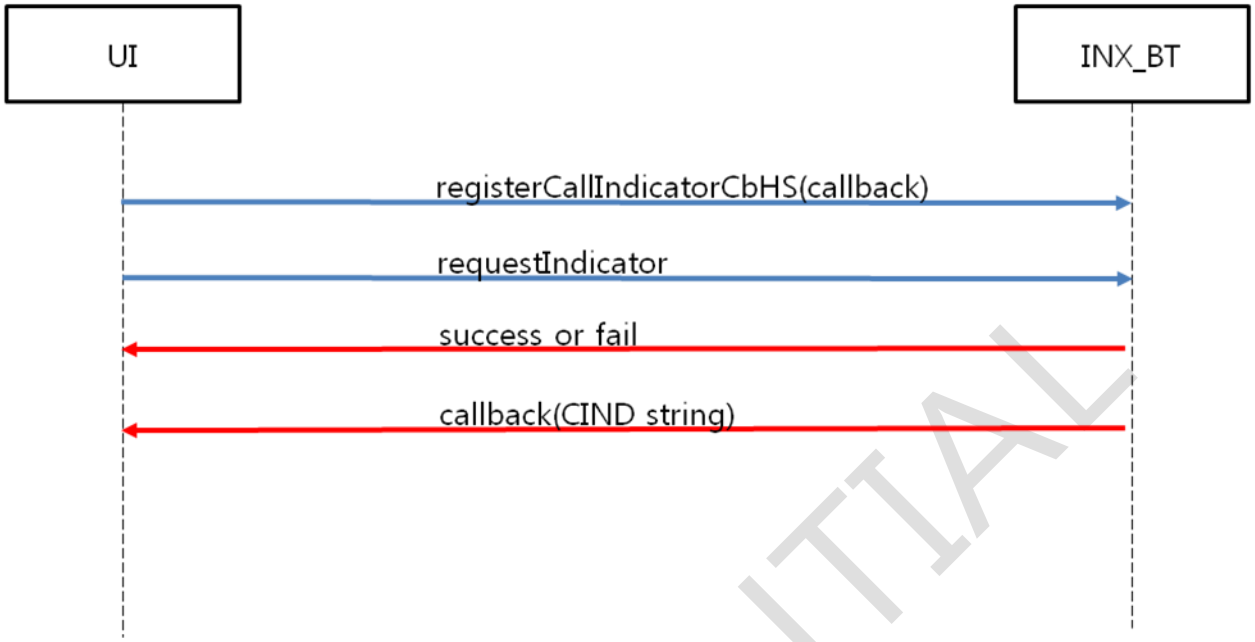
2.3.11 Redial a phone number



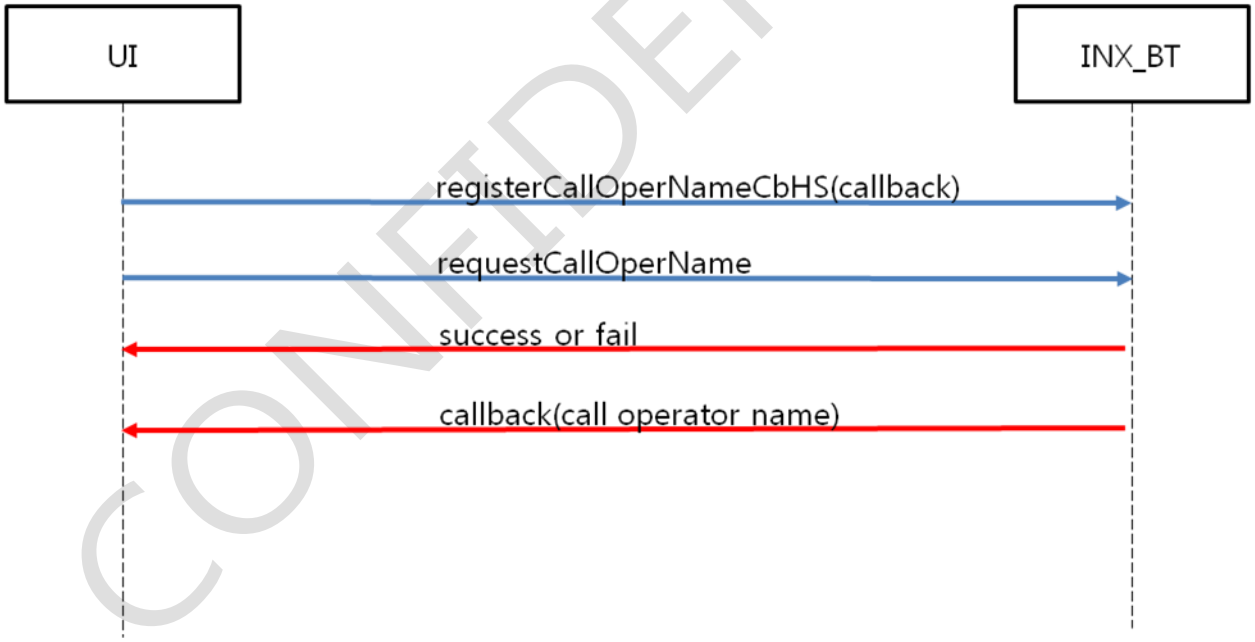
2.3.12 Send DTMF AT command



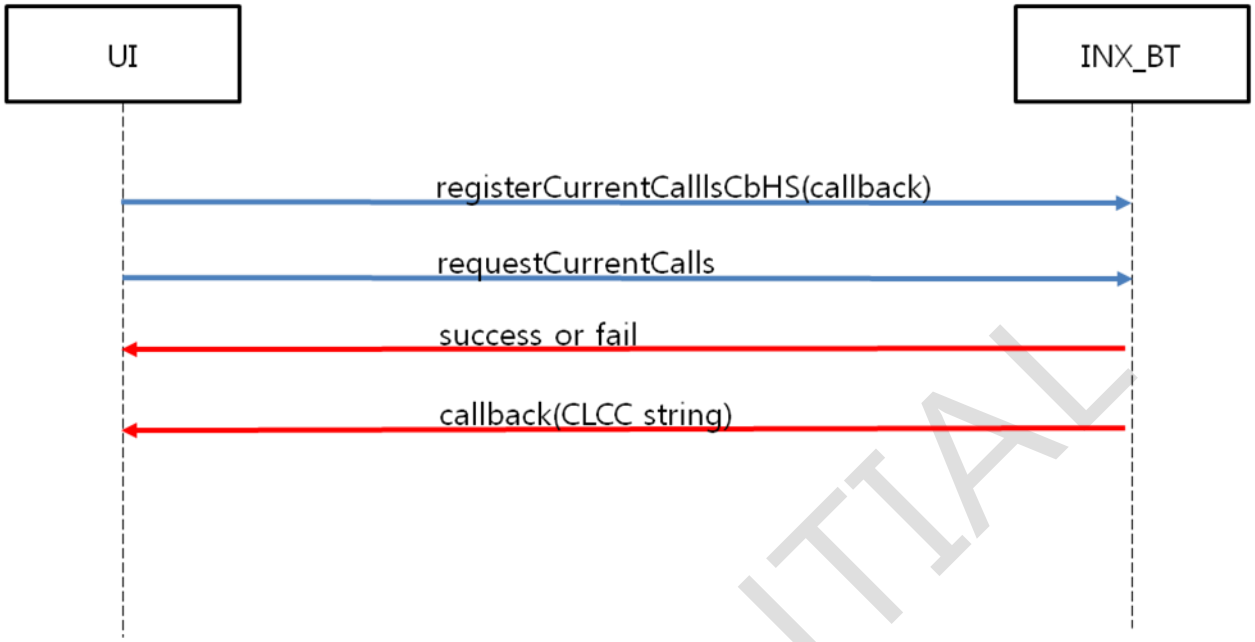
2.3.13 Request call indicator



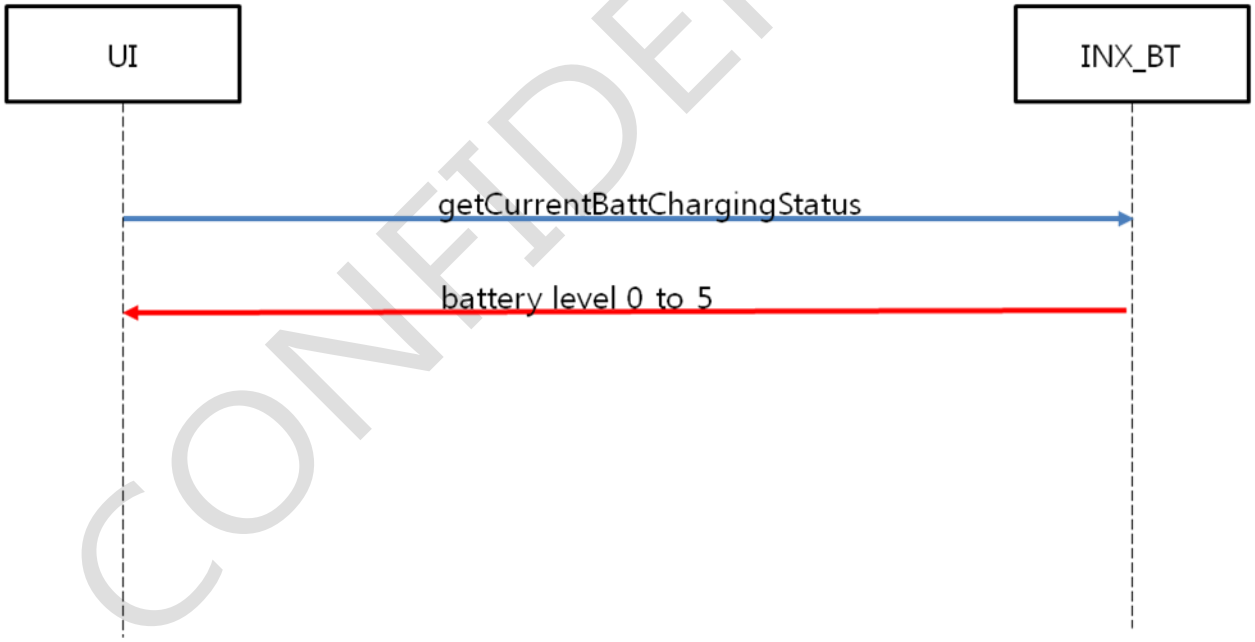
2.3.14 Request call operator name



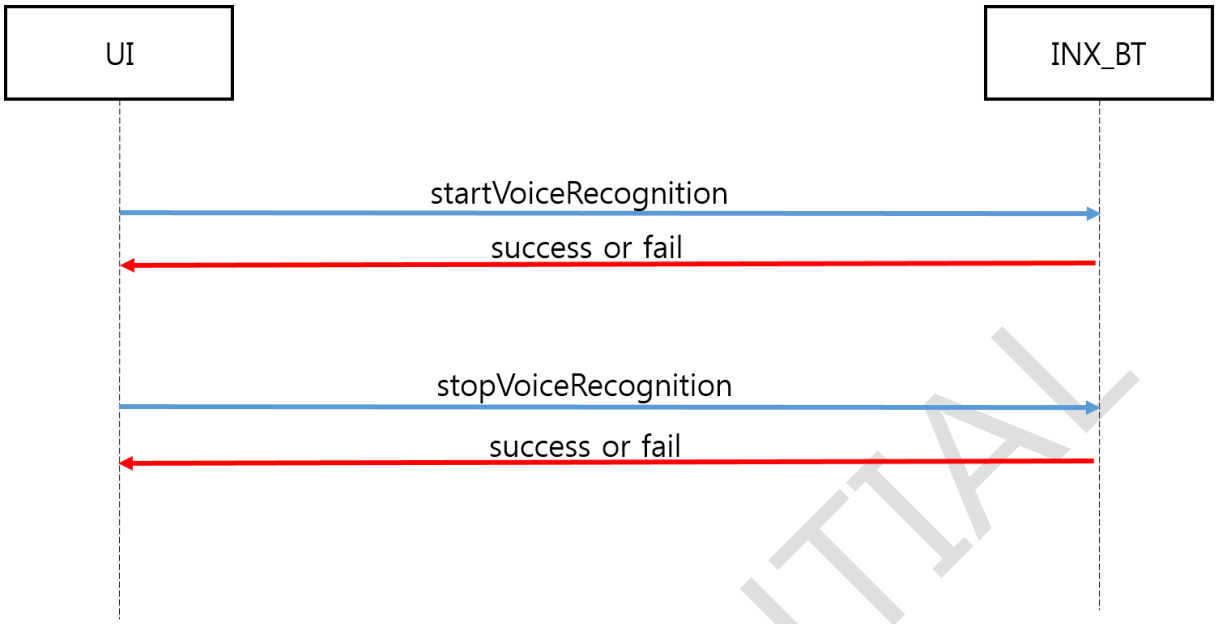
2.3.15 Request current calls



2.3.16 Get battery charging status value

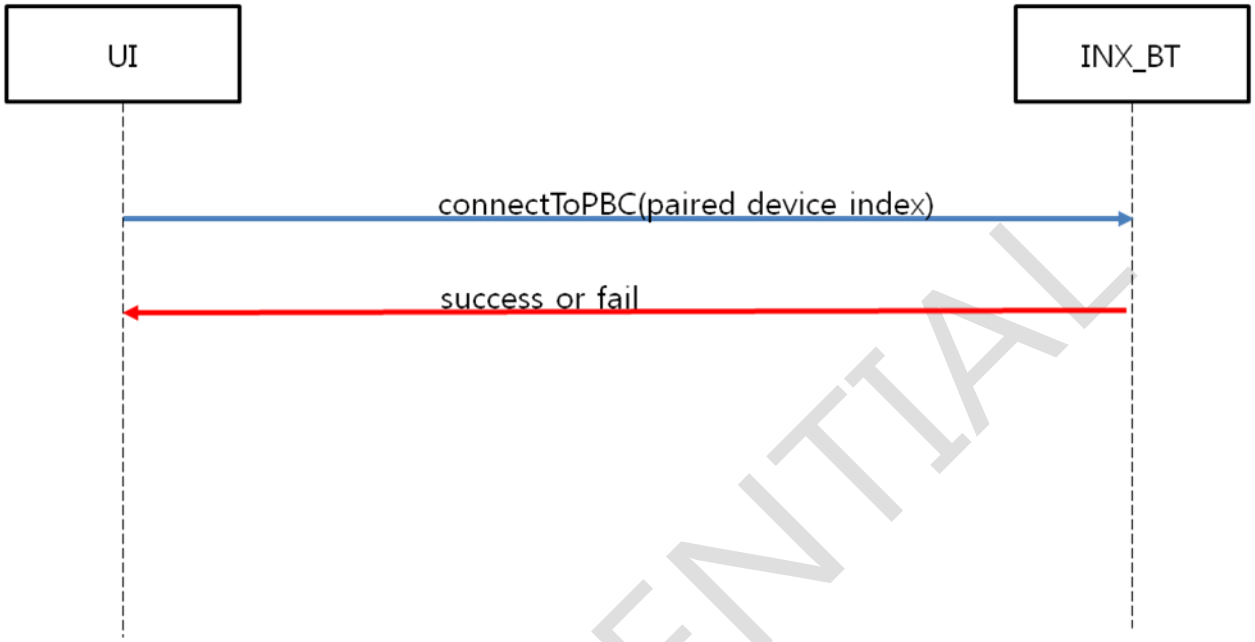


2.3.17 Start/stop voice recognition

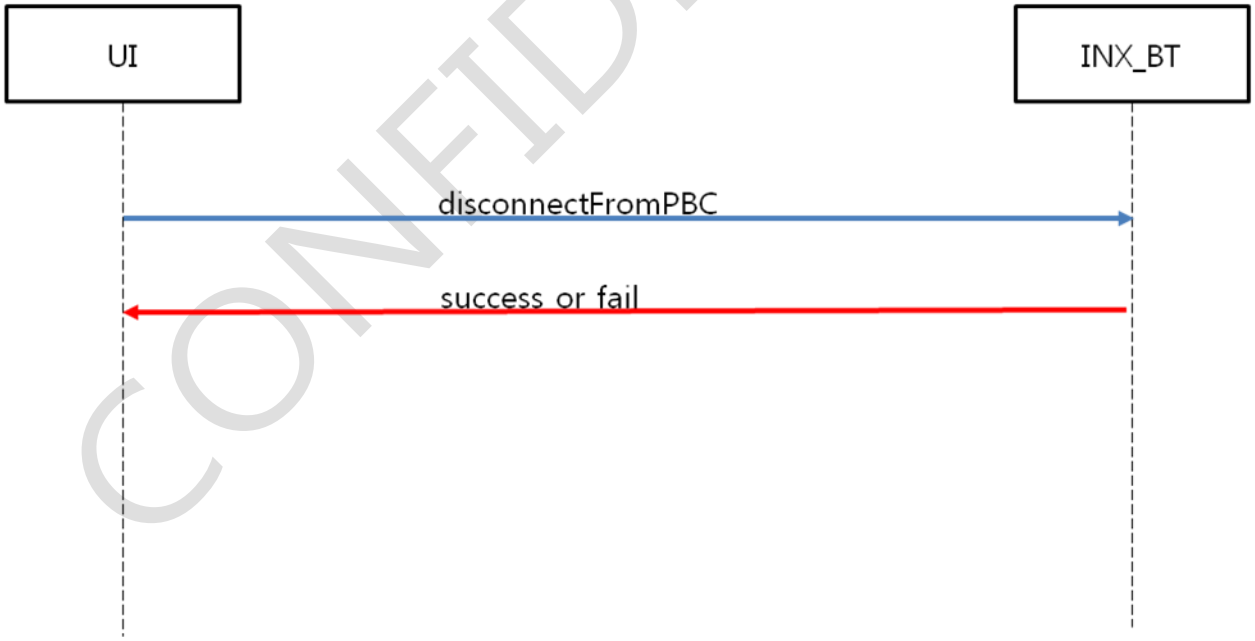


2.4 PBC functions (PBAP)

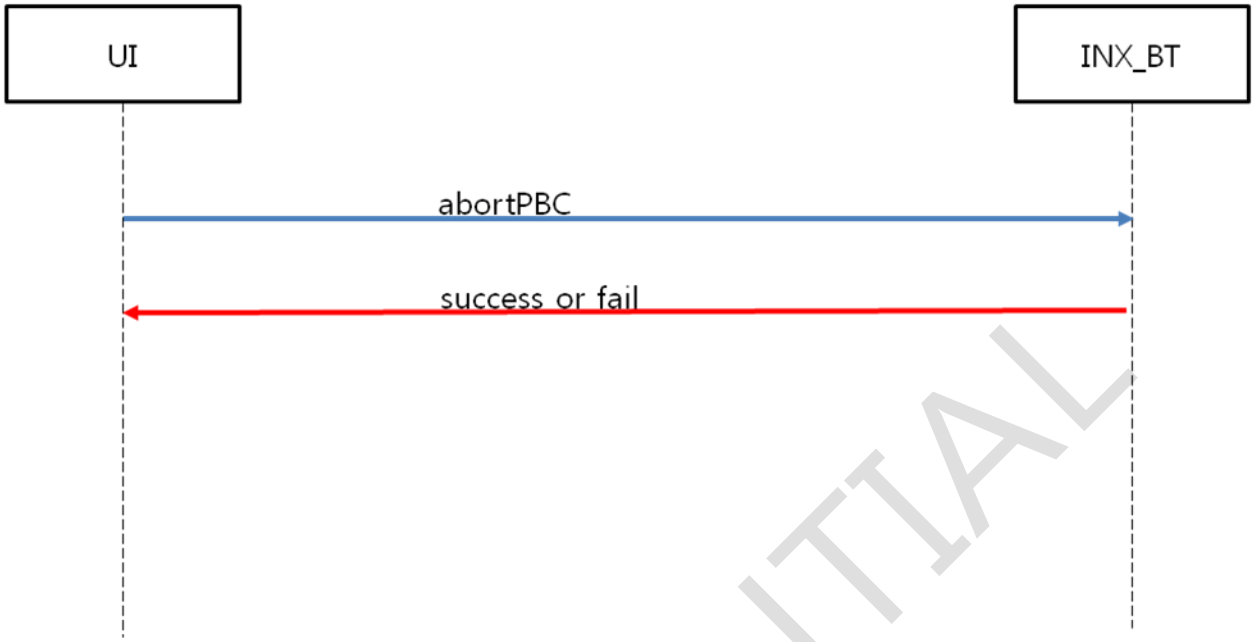
2.4.1 PBC connection



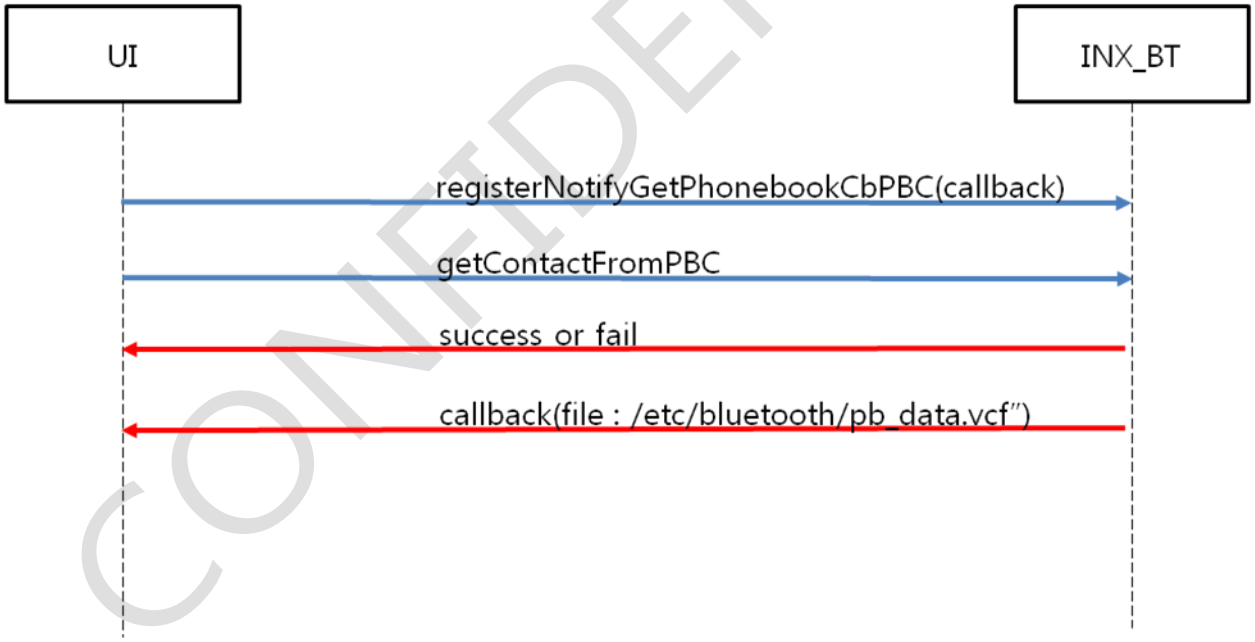
2.4.2 PBC disconnection



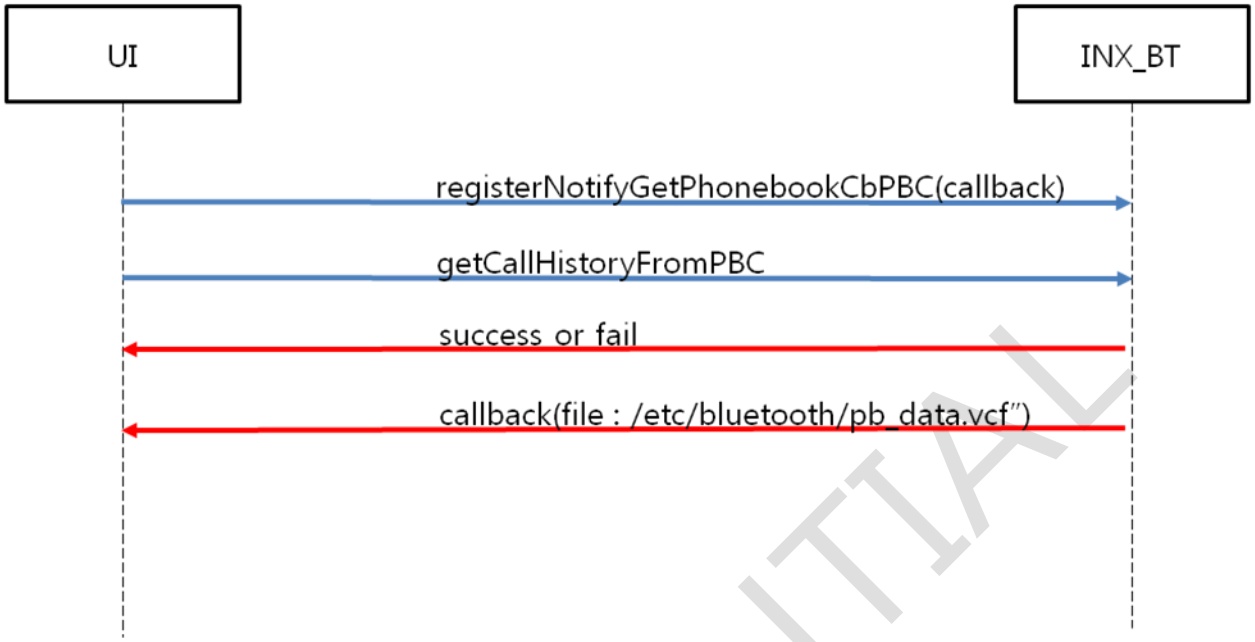
2.4.3 Abort PBC



2.4.4 Import contacts

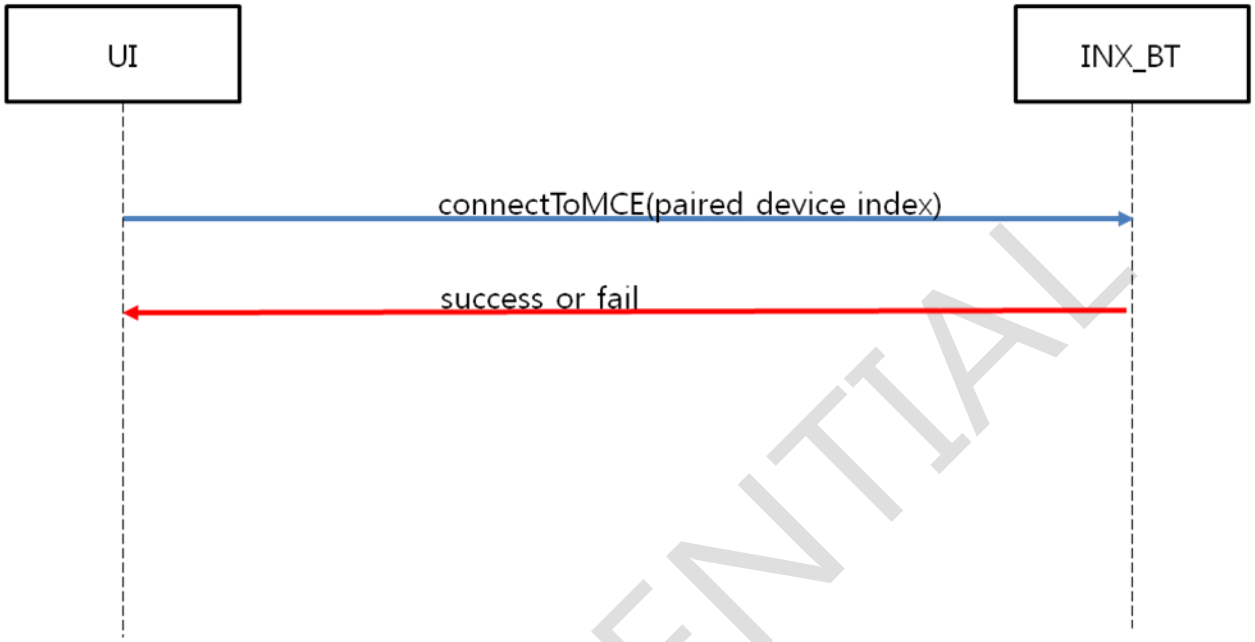


2.4.5 Import call history

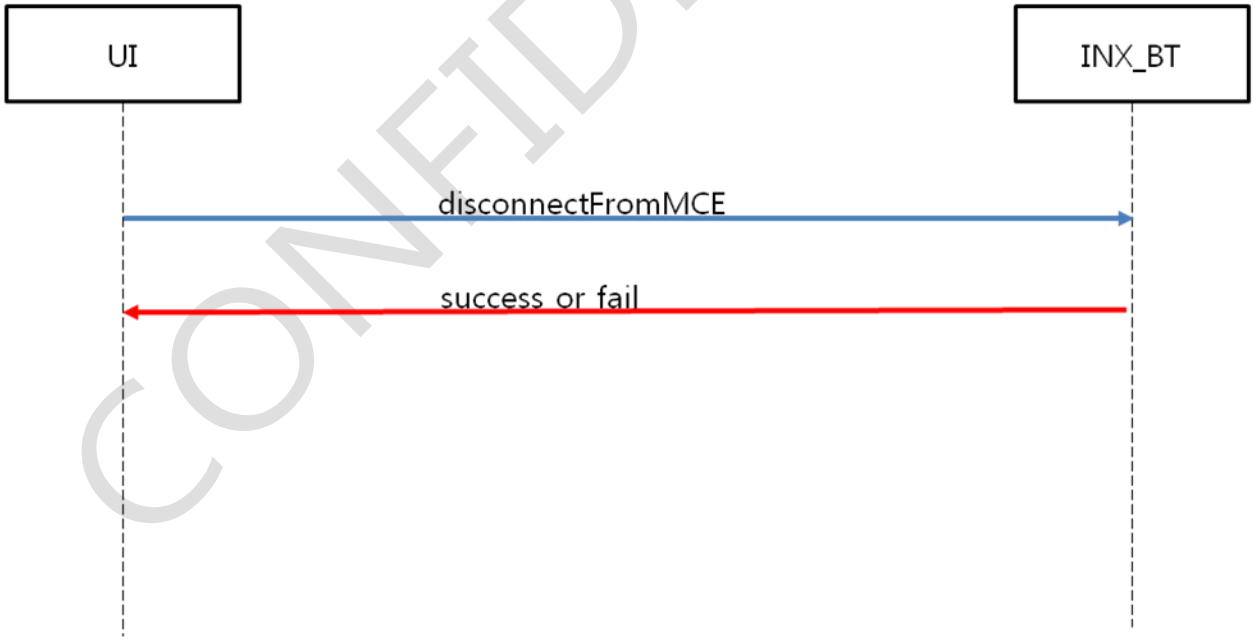


2.5 MCE functions (MAP)

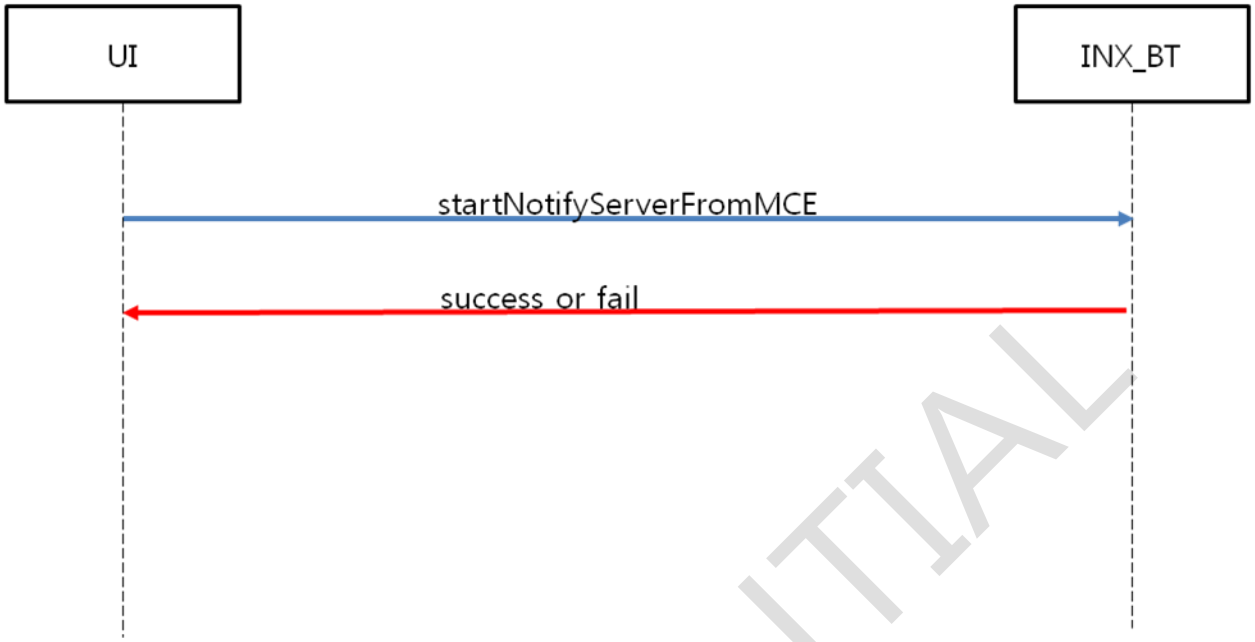
2.5.1 MCE connection



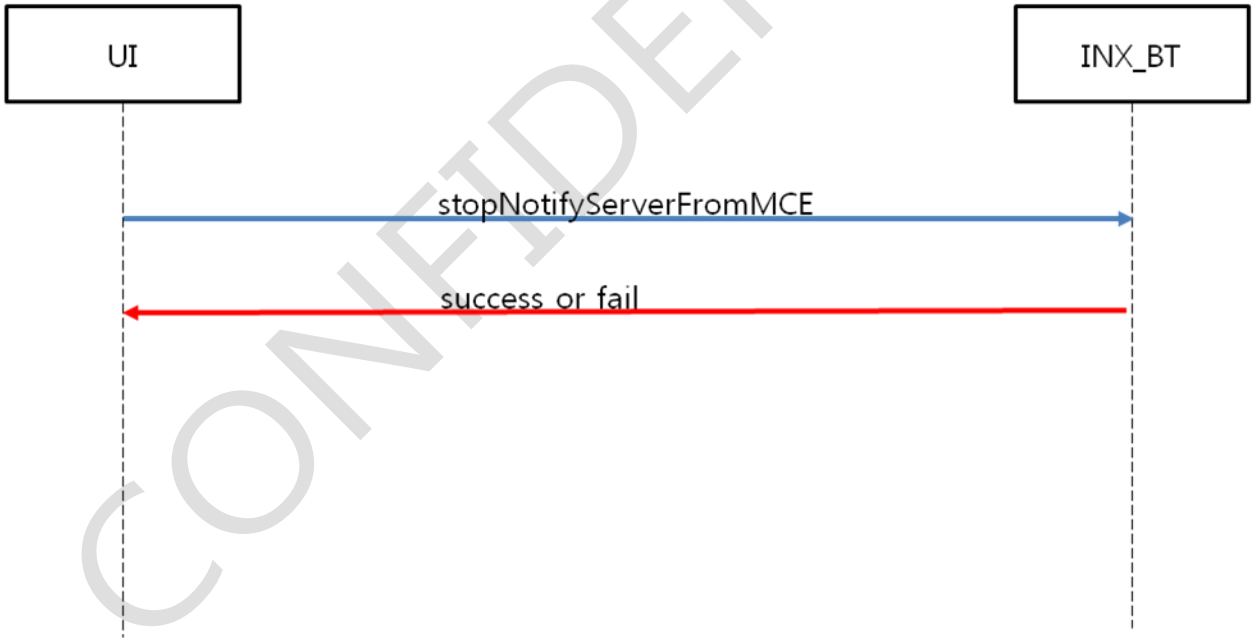
2.5.2 MCE disconnection



2.5.3 Start MCE notification server



2.5.4 Stop MCE notification server



2.5.5 Get message