# SDK API User's Guide (Bluetooth)

Version 1.4.0

**Display Audio** 

Solution Team



#### Release information

The following changes have been make to this document.

#### **Change History**

Date	Change
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# Chap 1. Library information

# 1.1 Overview

• Library name : libnxbt.so

Interface class name : INX\_BTInterface header : INX\_BT.h

Dependency libraries

- Shared libraries: libappbt.so (Broadcom BT wrapper), libnxalsa.so (BT Nexell audio platform), libxml2.so (v2.9.7)
- Static library: libbsa.a (Broadcom BT stack, Included in libappbt.so)
- Operational prerequisites : bsa\_server (Bluetooth simple API server daemon)

# 1.2 INX BT class instance

The NXBT class provides functions to easily handle the broadcom BT stack

Header	#include <inx_bt.h></inx_bt.h>
Access class instance	extern INX_BT* getInstance(void)

# 1.3 List of all members for INX\_BT

```
INX_BT(void) {}
virtual ~INX_BT(void) {}

/* NXBT manager APIs */
virtual int32_t initDevManager(void) = 0;
virtual int32_t getVersionInfoBSA(BSA_version_info_t *bsa_version) = 0;
virtual void setRecoveryCommand(const char *command) = 0;
virtual int32_t enableAutoConnection(bool enable) = 0;
virtual bool isAutoConnection(void) = 0;
virtual void autoConnection(bool enable) = 0;
virtual void autoConnection(bool enable) = 0;
virtual int32_t requestLastAVKConnectedDevIndex(void) = 0;
virtual int32_t requestLastHSConnectedDevIndex(void) = 0;
virtual int32_t acceptPairing(void) = 0;
virtual int32_t rejectPairing(void) = 0;
virtual int32_t requestPairDevice(int32_t device_index) = 0;
virtual int32_t unpairDevice(int32_t device_index) = 0;
```

```
virtual int32_t enableAutoPairing(bool enable) = 0;
virtual bool isAutoPairing(void) = 0;
virtual int32_t enableDiscoverable(bool enable) = 0;
virtual bool isDiscoverable(void) = 0;
virtual int32_t renameLocalDevice(const char *name) = 0;
virtual char* getLocalDevName(void) = 0;
virtual unsigned char* getLocalAddress(void) = 0;
virtual int32_t getPairedDevCount(void) = 0;
virtual int32 t getPairedDevInfoByIndex(int32 t device index, char *name,
unsigned char *bd_addr) = 0;
virtual int32_t getPairedDevAddrByIndex(int32_t device_index,
unsigned char *bd_addr) = 0;
virtual int32_t getPairedDevNameByIndex(int32_t device_index, char *name) = 0;
virtual int32_t getPairedDevIndexByAddr(unsigned char *bd_addr) = 0;
virtual char* getPairedDevNameByAddr(unsigned char *bd_addr) = 0;
virtual void setALSADevName(const char *playback_avk, const char *playback_hs,
const char *capture_hs, const char *playback_hs_sco, const char *capture_hs_sco) = 0;
virtual int32_t startDiscovery(void) = 0;
virtual int32_t stopDiscovery(void) = 0;
virtual int32_t getDiscoveredDevCount(void) = 0;
virtual int32_t getDiscoveredDevInfoByIndex(int32_t device_index, char *name,
unsigned char *bd_addr, unsigned char *class_of_device, char *class_name,
int32_t *rssi) = 0;
virtual int32_t bondDevice(int32_t device_index) = 0;
virtual int32_t cancelBondingDevice(int32_t device_index) = 0;
/* NXBT AVK service APIs */
virtual int32 t openAudioAVK(void) = 0;
virtual void closeAudioAVK(void) = 0;
virtual bool isAudioStatusAVK(void) = 0;
virtual bool isConnectedAVK(void) = 0;
virtual int32_t connectToAVK(int32_t device_index) = 0;
virtual int32_t disconnectFromAVK(unsigned char *bd_addr) = 0;
virtual int32_t getConnectionNumberAVK(void) = 0;
virtual int32_t getConnectionDevAddrAVK(int32_t connected_index,
unsigned char *bd_addr) = 0;
virtual int32_t requestGetElementAttr(unsigned char *bd_addr) = 0;
virtual int32_t requestPlayerValues(unsigned char *bd_addr) = 0;
virtual int32_t playStartAVK(unsigned char *bd_addr) = 0;
virtual int32_t playStopAVK(unsigned char *bd_addr) = 0;
virtual int32_t playPauseAVK(unsigned char *bd_addr) = 0;
virtual int32_t playNextAVK(unsigned char *bd_addr) = 0;
```

```
virtual int32_t playPrevAVK(unsigned char *bd_addr) = 0;
virtual int32_t playerEqualizerAVK(unsigned char *bd_addr, unsigned char value) = 0;
virtual int32_t playerShuffleAVK(unsigned char *bd_addr, unsigned char value) = 0;
virtual int32_t playerRepeatAVK(unsigned char *bd_addr, unsigned char value) = 0;
virtual int32_t playerScanAVK(unsigned char *bd_addr, unsigned char value) = 0;
/* NXBT HS service APIs */
virtual bool isConnectedHS(void) = 0;
virtual int32_t requestCallIndicator(void) = 0;
virtual void requestCurrentCalls(void) = 0;
virtual int32_t getConnectionDevAddrHS(unsigned char *bd_addr) = 0;
virtual int32_t connectToHS(int32_t device_index) = 0;
virtual int32_t disconnectFromHS(void) = 0;
virtual int32_t pickUpCall(void) = 0;
virtual int32_t hangUpCall(void) = 0;
virtual int32_t openAudioHS(void) = 0;
virtual int32_t closeAudioHS(void) = 0;
virtual bool isOpenedAudioHS(void) = 0;
virtual void muteMicrophoneHS(bool mute) = 0;
virtual bool isMutedMicrophoneHS(void) = 0;
virtual int32_t dialPhoneNumber(const char *number) = 0;
virtual int32_t reDialPhoneNumber(void) = 0;
virtual int32_t setATCommandDTMF(char key) = 0;
virtual int32_t requestCallNumber(void) = 0;
virtual int32_t requestCallOperName(void) = 0;
virtual int32_t getCurrentBattChargingStatus(void) = 0;
virtual int32_t startVoiceRecognition(void) = 0;
virtual int32_t stopVoiceRecognition(void) = 0;
/* NXBT PBC service APIs */
virtual bool isConnectedPBC(void) = 0;
virtual int32_t connectToPBC(int32_t device_index) = 0;
virtual int32_t disconnectFromPBC(void) = 0;
virtual int32_t abortPBC(void) = 0;
virtual int32_t getContactFromPBC(void) = 0;
virtual int32_t getCallHistoryFromPBC(void) = 0;
/* NXBT MCE service APIs */
virtual bool isConnectedMCE(void) = 0;
virtual int32_t connectToMCE(int32_t device_index) = 0;
virtual int32_t disconnectFromMCE(void) = 0;
virtual int32_t abortMCE(void) = 0;
```

```
virtual int32_t startNotifyServerFromMCE(void) = 0;
virtual int32_t stopNotifyServerFromMCE(void) = 0;
virtual int32_t getParserBmsg(char *fullName, char *phoneNumber, char *msgBody) = 0;
/* NXBT UI callback register functions */
virtual void registerMGTOpenCbManager(void *pObj, void (*cbFunc)(void *, int32_t)) = 0;
virtual void registerMGTDisconnectedCbManager(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerPairingFailedCbManager(void *pObj, void (*cbFunc)(void *,
int32 t)) = 0;
virtual void registerDiscoveryCompleteCbManager(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerPairedDevicesCbManager(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerUnpairedDevicesCbManager(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerPairingRequestCbManager(void *pObj, void (*cbFunc)(void *, bool,
char *, unsigned char *, int32_t)) = 0;
virtual void registerLinkDownEventCbManager(void *pObj, void (*cbFunc)(void *,
unsigned char *, int32_t)) = 0;a
virtual void registerOpenFailedCbAVK(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerStreamingStartedCbAVK(void *pObj, void (*cbFunc)(void *, bool)) = 0;
virtual void registerStreamingStoppedCbAVK(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerConnectionStatusCbAVK(void *p0bj, void (*cbFunc)(void *, bool,
char *, unsigned char *)) = 0;
virtual void registerConnectionStatusCbAVKRC(void *pObj, void (*cbFunc)(void *,
bool)) = 0;
virtual void registerPlayStatusCbAVK(void *pObj, void (*cbFunc)(void *, int32_t)) = 0;
virtual void registerMediaElementCbAVK(void *pObj, void (*cbFunc)(void *, char *, char *,
char *, char *, int32_t)) = 0;
virtual void registerPlayPositionCbAVK(void *pObj, void (*cbFunc)(void *, int32_t,
int32_t)) = 0;
virtual void registerPlayerValuesCbAVK(void *pObj, void (*cbFunc)(void *, int32_t,
int32_t, int32_t, int32_t)) = 0;
virtual void registerListPlayerAttrCbAVK(void *pObj, void (*cbFunc)(void *, bool, bool,
bool, bool)) = 0;
virtual void registerListPlayerValuesCbAVK(void *pObj, void (*cbFunc)(void *, int32_t,
int32_t, unsigned char *)) = 0;
virtual void registerOpenFailedCbHS(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerConnectionStatusCbHS(void *pObj, void (*cbFunc)(void *, bool,
char *, unsigned char *)) = 0;
virtual void registerInbandRingSupportedCbHS(void *pObj, void (*cbFunc)(void *,
bool)) = 0:
virtual void registerCallStatusCbHS(void *pObj, void (*cbFunc)(void *, int32_t)) = 0;
virtual void registerBatteryStatusCbHS(void *p0bj, void (*cbFunc)(void *, int32_t)) = 0;
virtual void registerCallOperNameCbHS(void *pObj, void (*cbFunc)(void *, char *)) = 0;
```

```
virtual void registerCurrentCalllsCbHS(void *pObj, void (*cbFunc)(void *, char *)) = 0;
virtual void registerCallNumberCbHS(void *pObj, void (*cbFunc)(void *, char *)) = 0;
virtual void registerAudioMuteStatusCbHS(void *pObj, void (*cbFunc)(void *, bool,
bool)) = 0;
virtual void registerVoiceRecognitionStatusCbHS(void *pObj, void (*cbFunc)(void *,
unsigned short)) = 0;
virtual void registerIncommingCallNumberCbHS(void *pObj, void (*cbFunc)(void *,
char *)) = 0;
virtual void registerCallIndicatorCbHS(void *pObj, void (*cbFunc)(void *, char *)) = 0;
virtual void registerCallIndicatorParsingValuesCbHS(void *p0bj, void (*cbFunc)(void *,
int32_t, int32_t, int32_t, int32_t, int32_t, int32_t, int32_t)) = 0;
virtual void registerOpenFailedCbPBC(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerConnectionStatusCbPBC(void *pObj, void (*cbFunc)(void *, bool)) = 0;
virtual void registerNotifyGetPhonebookCbPBC(void *pObj, void (*cbFunc)(void *,
int32_t)) = 0;
virtual void registerListDataCbPBC(void *pObj, void (*cbFunc)(void *,
unsigned char *)) = 0;
virtual void registerOpenFailedCbMCE(void *pObj, void (*cbFunc)(void *)) = 0;
virtual void registerConnectionStatusCbMCE(void *p0bj, void (*cbFunc)(void *, bool)) = 0;
virtual void registerNotifyGetMessageCbMCE(void *pObj, void (*cbFunc)(void *)) = 0;
```



# Chap 2. Pure virtual functions

# 2.1 NXBT manager APIs

# 2.1.1 initDevManager

int32\_t initDevManager(void)

**Description** 

This function connects to bsa\_server.

Arguments

void

Return Value

0: Success, -1: Fail

# 2.1.2 getVersionInfoBSA

int32\_t getVersionInfoBSA(BSA\_version\_info\_t \*bsa\_version)

Description

This function gets BSA version information.

Arguments

bsa\_version : Input structure to store BSA version

- server\_version : BSA server version

- fw\_version : Firmware version

Return Value

0: Success, -1: Fail

# 2.1.3 setRecoveryCommand

void setRecoveryCommand(const char \*command)

Description

This function sets bsa\_server command option for recovery.

**Arguments** 

command: bsa\_server command.

Return Value

void



# 2.1.4 enableAutoConnection

int32\_t enableAutoConnection(bool enable)

# Description

This function decides whether or not to apply the automatic connection scenario.

### **Arguments**

enable: True or false

#### **Return Value**

0: Success, -1: Fail

# 2.1.5 isAutoConnection

bool isAutoConnection(void)

### Description

This function checks automatic connection is true or false.

### **Arguments**

void

#### **Return Value**

True: Enabled, False: Disabled

# 2.1.6 autoConnection

void autoConnection(bool enable)

### Description

This function applies automatic connection.

### Arguments

enable: True or false

# Return Value

void

# 2.1.7 requestLastAVKConnectedDevIndex

int32\_t requestLastAVKConnectedDevIndex(void)

# Description

This function request latest AVK connected device index from the bt\_devices.xml.

# **Arguments**

void

#### Return Value

Device's index

# 2.1.8 requestLastHSConnectedDevIndex

int32\_t requestLastHSConnectedDevIndex(void)



# Description

This function request latest HS connected device index from the bt\_devices.xml.

### **Arguments**

void

#### **Return Value**

Device's index

# 2.1.9 acceptPairing

int32\_t acceptPairing(void)

# **Description**

This function accepts the pairing request.

# Arguments

void

#### Return Value

0: Success, -1: Fail

# 2.1.10 rejectPairing

int32\_t rejectPairing(void)

# Description

This function rejects the pairing request.

# Arguments

void

### Return Value

0: Success, -1: Fail

# 2.1.11 requestPairDevice

int32\_t requestPairDevice(int32\_t device\_index)

### Description

This function rejects the pairing request.

#### Arguments

device\_index : Index of the paired device.

### **Return Value**

0: Success, -1: Fail

# 2.1.12 unpairDevice

int32\_t unpairDevice(int32\_t device\_index)

# Description

This function unpairs the paired device.



Arguments

device\_index : Index of the paired device

Return Value

0 : Success, -1 : Fail

# 2.1.13 enableAutoPairing

int32\_t enableAutoPairing(bool enable)

Description

This function decides whether or not to apply automatic pairing.

Arguments

enable: True or false

Return Value

0: Success, -1: Fail

# 2.1.14 is AutoPairing

bool isAutoPairing(void)

**Description** 

This function checks the status of auto-pairing.

Arguments

void

Return Value

True: Enabled, False: Disabled

# 2.1.15 enableDiscoverable

int32\_t enableDiscoverable(bool enable)

Description

This function decides whether or not to apply the discoverable mode.

Arguments

enable: True or false

Return Value

0: Success, -1: Fail

# 2.1.16 isDiscoverable

bool isDiscoverable(void)

Description

This function checks the discoverable mode.

Arguments

void



# Return Value

True: Enabled, False: Disabled

# 2.1.17 renameLocalDevice

int32\_t renameLocalDevice(const char \*name)

### Description

This function changes the local device's name.

# Arguments

name: Name to be changed

# Return Value

0: Success, -1: Fail

# 2.1.18 getLocalDevName

char\* getLocalDevName(void)

# Description

This function reads the local device's name.

### **Arguments**

void

### Return Value

Local device's name

# 2.1.19 getLocalAddress

unsigned char\* getLocalAddress(void)

# Description

This function reads the local device's address.

# Arguments

void

# Return Value

Local device's address

# 2.1.20 getPairedDevCount

int32\_t getPairedDevCount(void)

### Description

This function gets the number of paired devices.

# Arguments

void

# Return Value



Number of paired devices

# 2.1.21 getPairedDevInfoByIndex

int32\_t getPairedDevInfoByIndex(int32\_t device\_index, char \*name, unsigned char \*bd\_addr)

### **Description**

This function retrieves information about devices paired by index.

# Arguments

device\_index : Index of the paired devices

name: Input buffer to store name

bd addr: Input buffer to store 6bytes address

#### Return Value

0: Success, -1: Fail

# 2.1.22 getPairedDevAddrByIndex

int32\_t getPairedDevAddrByIndex(int32\_t device\_index, unsigned char \*bd\_addr)

#### **Description**

This function retrieves address about devices paired by index.

#### **Arguments**

device\_index : Index of the paired devices

bd\_addr: Input buffer to store 6bytes address

# **Return Value**

0 : Success, -1 : Fail

# 2.1.23 getPairedDevNameByIndex

int32\_t getPairedDevNameByIndex(int32\_t device\_index, char \*name)

# **Description**

This function retrieves name about devices paired by index.

### Arguments

device\_index : Index of the paired devices

name: Input buffer to store name

# Return Value

0: Success, -1: Fail

# 2.1.24 getPairedDevIndexByAddr

int32\_t getPairedDevIndexByAddr(unsigned char \*bd\_addr)

### Description

This function retrieves index about devices paired by device's address.

#### **Arguments**



bd\_addr : Input buffer to store 6bytes address

#### **Return Value**

0: Success, -1: Fail

# 2.1.25 getPairedDevNameByAddr

char\* getPairedDevNameByAddr(unsigned char \*bd\_addr)

### Description

This function retrieves name about devices paired by devices's address.

#### Arguments

bd\_addr: Input buffer to store 6bytes address

#### Return Value

Paired device's name

# 2.1.26 setALSADevName

void setALSADevName(const char \*playback\_avk, const char \*playback\_hs, const char \*capture\_hs, const char \*playback\_hs\_sco, const char \*capture\_hs\_sco)

#### Description

This function sets ALSA device name.

#### **Arguments**

playback\_avk : device for AVK playback.

playback\_hs: device for HS playback.

capture\_hs: device for HS capture.

playback\_hs\_sco : device for HS SCO playback capture\_hs\_sco : device for HS SCO capture

#### Return Value

void

# 2.1.27 startDiscovery

int32\_t startDiscovery(void)

# Description

This function starts device discovery

# Arguments

void

### **Return Value**

0: Success, -1: Fail

# 2.1.28 stopDiscovery

int32\_t stopDiscovery(void)

**Description** 



This function stops device discovery

### **Arguments**

void

#### **Return Value**

0: Success, -1: Fail

# 2.1.29 getDiscoveredDevCount

int32\_t getDiscoveredDevCount(void)

### **Description**

This function gets the number of devices discovered.

#### **Arguments**

void

#### Return Value

The number of devices discovered

# 2.1.30 getDiscoveredDevInfoByIndex

int32\_t getDiscoveredDevInfoByIndex(int32\_t device\_index, char \*name, unsigned char
\*bd\_addr, unsigned char \*class\_of\_device, char \*class\_name, int32\_t \*rssi)

### **Description**

This function retrieves information about devices discovered by index.

#### Arguments

device\_index : Index of the discovered devices

name: Input buffer to store name

bd\_addr : Input buffer to store 6bytes address

class\_of\_device : Input buffer to store 3bytes class

class\_name: Input buffer to store class name

### **Return Value**

0: Success, -1: Fail

# 2.1.31 bondDevice

int32\_t bondDevice(int32\_t device\_index)

# Description

This function bonds discovered device.

#### **Arguments**

device\_index : Index of discovered device.

# Return Value



# 2.1.32 cancelBondingDevice

int32\_t cancelBondDevice(int32\_t device\_index)

# Description

This function cancels the bonding of the device being bonded.

# Arguments

device\_index : Index of the device being bonded

### **Return Value**



# 2.2 NXBT AVK service APIs

# 2.2.1 openAudioAVK

int32\_t openAudioAVK(void)

### Description

This function opens the AVK ALSA audio device.

### **Arguments**

void

#### **Return Value**

0: Succeed, -1: Failed, -2: HS audio is currently running

# 2.2.2 closeAudioAVK

void closeAudioAVK(void)

### Description

This function closes the AVK ALSA audio device.

# Arguments

void

#### Return Value

void

# 2.2.3 isAudioStatusAVK

bool isAudioStatusAVK(void)

# **Description**

This function checks whether it is opened with AVK ALSA audio device.

# Arguments

void

### Return Value

True: Opened, False: Closed or Not opened

# 2.2.4 isConnectedAVK(void)

bool isConnectedAVK(void)

### Description

This function checks whether it is connected with AVK service.

# Arguments

void

### **Return Value**

True: Connected, False: Disconnected



# 2.2.5 connectToAVK

int32\_t connectToAVK(int32\_t device\_index)

### **Description**

This function tries to connect to the AVK profile service.

### **Arguments**

device\_index : Index of the paired devices

#### **Return Value**

0: Success, -1: Fail, -2: Cancel

# 2.2.6 disconnectFromAVK

int32\_t disconnectFromAVK(unsigned char \*bd\_addr)

### Description

This function tries to disconnect from AVK profile service.

#### Arguments

bd addr: Address of AVK connected device

#### **Return Value**

0: Success, -1: Fail

# 2.2.7 getConnectionNumberAVK

int32\_t getConnectionNumberAVK(void)

### Description

This function gets the number of paired devices.

### **Arguments**

void

# Return Value

Number of AVK connected device

# 2.2.8 getConnectionDevAddrAVK

int32\_t getConnectionDevAddrAVK(int32\_t connected\_index, unsigned char \*bd\_addr)

#### Description

This function gets the address of AVK connected device by index.

# Arguments

connected\_index : Index of AVK connected device

bd\_addr : Input buffer to store 6bytes address

# Return Value



# 2.2.9 requestGetElementAttr

int32\_t requestGetElementAttr(unsigned char \*bd\_addr)

### Description

This function requests for getting elements.

### **Arguments**

bd\_addr: Address of AVK connected device

#### **Return Value**

0: Success, -1: Fail

# 2.2.10 requestPlayerValues

int32\_t requestPlayerValues(unsigned char \*bd\_addr)

### Description

This function requests for player setting values.

#### Arguments

bd addr: Address of AVK connected device

#### Return Value

0: Success, -1: Fail

# 2.2.11 playStartAVK

int32\_t playStartAVK(unsigned char \*bd\_addr)

# Description

This function starts audio playback.

# Arguments

bd\_addr: Address of AVK connected device

### Return Value

0: Success, -1: Fail

# 2.2.12 playStopAVK

int32\_t playStopAVK(unsigned char \*bd\_addr)

### Description

This function stops audio playback.

#### Arguments

bd\_addr : Address of AVK connected device

# **Return Value**

0: Success, -1: Fail

# 2.2.13 playPauseAVK

int32\_t playPauseAVK(unsigned char \*bd\_addr)



### **Description**

This function pauses audio playback.

### **Arguments**

bd\_addr: Address of AVK connected device

#### **Return Value**

0: Success, -1: Fail

# 2.2.14 playNextAVK

int32\_t playNextAVK(unsigned char \*bd\_addr)

#### Description

This function plays the next song.

#### **Arguments**

bd\_addr: Address of AVK connected device

#### Return Value

0: Success, -1: Fail

# 2.2.15 playPrevAVK

int32\_t playPrevAVK(unsigned char \*bd\_addr)

# Description

This function plays the previous song.

# Arguments

bd\_addr : Address of AVK connected device

# **Return Value**

0: Success, -1: Fail

# 2.2.16 playEqualizerAVK

int32\_t playEqualizerAVK(unsigned char \*bd\_addr, unsigned char value)

### Description

This function sets the equalizer mode.

# Arguments

bd\_addr: Address of AVK connected device

value: Equalizer mode

### Return Value

0: Success, -1: Fail

# 2.2.17 playShuffleAVK

int32\_t playShuffleAVK(unsigned char \*bd\_addr, unsigned char value)

**Description** 



This function sets the shuffle mode.

#### **Arguments**

bd\_addr : Address of AVK connected device

value : Shuffle mode

#### Return Value

0: Success, -1: Fail

# 2.2.18 playRepeatAVK

int32\_t playRepeatAVK(unsigned char \*bd\_addr, unsigned char value)

### **Description**

This function sets the repeat mode.

# Arguments

bd\_addr : Address of AVK connected device

value: Repeat mode

# Return Value

0: Success, -1: Fail

# 2.2.19 playScanAVK

int32\_t playScanAVK(unsigned char \*bd\_addr, unsigned char value)

# Description

This function sets the scan mode.

# Arguments

bd\_addr: Address of AVK connected device

value : Scan mode

# Return Value



# 2.3 NXBT HS service APIs

# 2.3.1 isConnectedHS

bool isConnectedHS(void)

# Description

This function checks whether it is connected with HS service.

# Arguments

void

#### **Return Value**

True: Connected, False: Disconnected

# 2.3.2 requestCallIndicator

int32\_t requestCallIndicator(void)

### Description

This function requests indicator call string.

# Arguments

void

#### Return Value

0: Success, -1: Fail

# 2.3.3 requestCurrentCalls

int32\_t requestCurrentCalls(void)

# **Description**

This function requests current call string.

# Arguments

void

# Return Value

0 : Success, -1 : Fail

# 2.3.4 getConnectionDevAddrHS

int32\_t getConnectionDevAddrHS(unsigned char \*bd\_addr)

### Description

This function gets the address of HS connected device by index.

# Arguments

bd addr: Address of HS connected device

# Return Value



# 2.3.5 connectToHS

int32\_t connectToHS(int32\_t device\_index)

Description

This function tries to connect to the HS profile service.

**Arguments** 

device\_index : Index of the paired devices

Return Value

0: Success, -1: Fail

# 2.3.6 disconnectFromHS

int32\_t disconnectFromHS(void)

**Description** 

This function tries to disconnect from HS profile service.

**Arguments** 

void

**Return Value** 

0: Success, -1: Fail

# 2.3.7 pickUpCall

int32\_t pickUpCall(void)

Description

This function picks up the call.

Arguments

void

Return Value

0: Success, -1: Fail

# 2.3.8 hangUpCall

int32\_t hangUpCall(void)

Description

This function hangs up the call.

Arguments

void

**Return Value** 

0 : Success, -1 : Fail

# 2.3.9 openAudioHS

int32\_t openAudioHS(void)



Description

This function opens HS audio.

Arguments

void

**Return Value** 

0: Success, -1: Fail

# 2.3.10 closeAudioHS

int32\_t closeAudioHS(void)

**Description** 

This function closes HS audio.

Arguments

void

**Return Value** 

0: Success, -1: Fail

# 2.3.11 isOpenedAudioHS

bool isOpenedAudioHS(void)

Description

This function checks audio HS is opened.

Arguments

void

**Return Value** 

True: Enabled, False: Disabled

# 2.3.12 muteMicrophoneHS

void muteMicrophoneHS(bool mute)

Description

This function decides whether or not to mute microphone.

Arguments

mute: True or false

**Return Value** 

void

# 2.3.13 isMutedMicrophoneHS

bool isMutedMicrophoneHS(void)

Description

This function checks mic is muted.



Arguments

void

Return Value

True: Enabled, False: Disabled

# 2.3.14 dialPhoneNumber

int32\_t dialPhoneNumber(const char \*number)

Description

This function tries to dial.

Arguments

number: Destination phone number

**Return Value** 

0: Success, -1: Fail

# 2.3.15 reDialPhoneNumber

int32\_t reDialPhoneNumber(void)

**Description** 

This function tries to redial.

Arguments

void

Return Value

0: Success, -1: Fail

# 2.3.16 setATCommandDTMF

int32\_t setATCommandDTMF(char key)

Description

This function sends AT command.

Arguments

key: Dial keypad's key

Return Value

0 : Success, -1 : Fail

# 2.3.17 requestCallNumber

int32\_t requestCallNumber(void)

Description

This function requests my phone call number.

Arguments

void



# Return Value

0: Success, -1: Fail

# 2.3.18 requestCallOperName

int32\_t requestCallOperName(void)

### Description

This function requests the call operator's name.

# **Arguments**

void

### Return Value

0: Success, -1: Fail

# 2.3.19 getCurrentBattChargingStatus

int32\_t getCurrentBattChargingStatus(void)

# **Description**

This function gets battery status value.

### **Arguments**

void

# Return Value

Battery charging status value  $(0 \sim 5)$ 

# 2.3.20 startVoiceRecognition

int32\_t startVoiceRecognition(void)

### **Description**

This function starts voice recognition.

### Arguments

Void

### **Return Value**

0: Success, -1: Fail

# 2.3.21 stopVoiceRecognition

int32\_t stopVoiceRecognition(void)

# Description

This function stops voice recognition.

### Arguments

Void

# Return Value



# 2.4 NXBT PBC service APIs

# 2.4.1 isConnectedPBC

bool isConnectedPBC(void)

### **Description**

This function checks whether it is connected with PBC service.

# Arguments

void

#### **Return Value**

True: Connected, False: Disconnected

# 2.4.2 connectToPBC

int32\_t connectToPBC(int32\_t device\_index)

#### Description

This function tries to connect to the PBC profile service.

### **Arguments**

device\_index : Index of the paired devices

#### Return Value

0: Success, -1: Fail

# 2.4.3 disconnectFromPBC

int32\_t disconnectFromPBC(void)

### **Description**

This function tries to disconnect from the PBC profile service.

# **Arguments**

void

# Return Value

0: Success, -1: Fail

# 2.4.4 abortPBC

int32\_t abortPBC(void)

### Description

This function tries to abort the PBC profile service.

# Arguments

void

### **Return Value**



# 2.4.5 getContactFromPBC

int32\_t getContactFromPBC(void)

# Description

This function imports contacts from PBC profile service.

# Arguments

void

### **Return Value**

0: Success, -1: Fail

# 2.4.6 getCallHistoryFromPBC

int32\_t getCallHistoryFromPBC(void)

# Description

This function gets the call log from PBC profile service.

#### Arguments

void

### **Return Value**



# 2.5 NXBT MCE service APIs

# 2.5.1 isConnectedMCE

bool isConnectedMCE(void)

### **Description**

This function checks whether it is connected with MCE service.

# Arguments

void

#### **Return Value**

True: Connected, False: Disconnected

# 2.5.2 connectToMCE

int32\_t connectToMCE(int32\_t device\_index)

#### Description

This function tries to connect to the MCE profile service.

### **Arguments**

device\_index : Index of the paired devices

#### **Return Value**

0: Success, -1: Fail

# 2.5.3 disconnectFromMCE

int32\_t disconnectFromMCE(void)

### **Description**

This function tries to disconnect from the MCE profile service.

# Arguments

device\_index : Index of the paired devices

# Return Value

0: Success, -1: Fail

# 2.5.4 abortMCE

int32\_t abortMCE(void)

### Description

This function tries to abort the MCE profile service.

# Arguments

void

### **Return Value**



# 2.5.5 startNotifyServerFromMCE

int32\_t startNotifyServerFromMCE(void)

### Description

This function starts MNS(Message Notification Server) from the MCE profile service.

### **Arguments**

void

#### **Return Value**

0: Success, -1: Fail

# 2.5.6 stopNotifyServerFromMCE

int32\_t stopNotifyServerFromMCE(void)

# **Description**

This function stops MNS(Message Notification Server) from the MCE profile service.

#### Arguments

void

#### **Return Value**

0: Success, -1: Fail

# 2.5.7 getParserBmsg

int32\_t getParserBmsg(char \*fullName, char \*phoneNumber, char \*msgBody)

# Description

This function gets the parsed B message.

### **Arguments**

fullName: The sender

phoneNumber: Sender's phone number

msgBody: Message content

# Return Value



# 2.6 NXBT UI callback register functions

# 2.6.1 registerMGTOpenCbManager

void registerMGTOpenCbManager(void \*pObj, void (\*cbFunc)(void \*, int32\_t))

### **Description**

Notify when MGT is successfully open.

#### Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Result
  - → 0: Success, -1: Fail

# Return Value

void

# 2.6.2 registerMGTDisconnectedCbManager

void registerMGTDisconnectedCbManager(void \*pObj, void (\*cbFunc)(void \*))

### **Description**

Notify when MGT is disconnected.

# **Arguments**

pObj UI handler

cbFunc UI callback stub function

Private handler

# Return Value

void

# 2.6.3 registerDiscoveryCompleteCbManager

void registerDiscoveryCompleteCbManager(void \*pObj, void (\*cbFunc)(void \*))

### Description

Notify when discovery is complete.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

# Return Value

void



# 2.6.4 registerPairingFailedCbManager

void registerPairingFailedCbManager(void \*pObj, void (\*cbFunc)(void \*, int32\_t))

### Description

Notify when pairing is failed.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Fail reason
  - → 0x05 : Rejected

#### Return Value

void

# 2.6.5 registerPairedDevicesCbManager

void registerPairedDevicesCbManager(void \*pObj, void (\*cbFunc)(void \*))

# **Description**

Notify when paired device list is updated.

#### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

#### **Return Value**

void

# 2.6.6 registerUnpairedDevicesCbManager

void registerUnpairedDevicesCbManager(void \*pObj, void (\*cbFunc)(void \*))

### **Description**

Notify when device is unpaired.

#### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

# Return Value

void

# 2.6.7 registerPairingRequestCbManager

void registerPairingRequestCbManager(void \*pObj, void (\*cbFunc)(void \*, bool, char \*,
unsigned char \*, int32\_t))



### Description

Notify when receive the pairing request.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Automatic mode
- Device's name
- Device's address
- Pairing code (6 digits)

### Return Value

void

# 2.6.8 registerLinkDownEventCbManager

void registerLinkDownEventCbManager(void \*pObj, void (\*cbFunc)(void \*, unsigned char \*,int32\_t))

#### **Description**

Notify when receive the link down event.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Device's address
- Reason code
  - → 0x08 : RF signal is disconnected
  - → 0x13 : Turn off the BT module on the remote device or unpair the connected local device
  - $\rightarrow$  0x16: Unpairing connected remote devices from the local device

### **Return Value**

void

# 2.6.9 registerOpenFailedCbAVK

void registerOpenFailedCbAVK(void \*pObj, void (\*cbFunc)(void \*))

# Description

Notify when AVK open is failed.

#### **Arguments**

pObj UI handler



- Private handler

Return Value

void

# 2.6.10 registerStreamingStartedCbAVK

void registerStreamingStartedCbAVK(void \*pObj, void (\*cbFunc)(void \*, bool))

#### Description

Notify when A2DP streaming is started.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

- True: ALSA open succeed, False: ALSA open failed

#### Return Value

void

# 2.6.11 registerStreamingStoppedCbAVK

void registerStreamingStoppedCbAVK(void \*pObj, void (\*cbFunc)(void \*))

# Description

Notify when A2DP streaming is stopped.

# Arguments

pObj UI handler

cbFunc UI callback stub function

Private handler

#### **Return Value**

void

# 2.6.12 registerConnectionStatusCbAVK

void registerConnectionStatusCbAVK(void \*pObj, void (\*cbFunc)(void \*, bool, char \*,
unsigned char \*))

### Description

Notify when AVK connection status is changed.

# Arguments

pObj UI handler

- Private handler
- Connection status
- Device's name



Device's address

### Return Value

void

# 2.6.13 registerConnectionStatusCbAVKRC

void registerConnectionStatusCbAVKRC(void \*pObj, void (\*cbFunc)(void \*, bool))

#### Description

Notify when AVKRC connection status is changed.

#### Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Connection status

#### Return Value

void

# 2.6.14 registerPlayStatusCbAVK

void registerPlayStatusCbAVK(void \*pObj, void (\*cbFunc)(void \*, int32\_t))

# Description

Notify when play status is changed.

# **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Play Status
  - $\rightarrow$  0x00 : Stopped
  - $\rightarrow$  0x01 : Playing
  - $\rightarrow$  0x02 : Paused

#### Return Value

void

# 2.6.15 registerMediaElementCbAVK

void registerMediaElementCbAVK(void \*pObj, void (\*cbFunc)(void \*, char \*, char \*, char \*,
char \*, int32\_t))

# Description

Notify when media elements are updated.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Title
- Artist
- Album
- Genre
- Playing time (milliseconds)

# Return Value

void

# 2.6.16 registerPlayPositionCbAVK

void registerPlayPositionCbAVK(void \*pObj, void (\*cbFunc)(void \*, int32\_t, int32\_t))

### **Description**

Notify when play position is updated.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Play position (milliseconds)
- Play duration (milliseconds)

#### **Return Value**

void

# 2.6.17 registerPlayerValuesCbAVK

void registerPlayerValuesCbAVK(void \*pObj, void (\*cbFunc)(void \*, int32\_t, int32\_t, int32\_t, int32\_t))

# Description

Notify when player setting values are updated.

### **Arguments**

pObj UI handler

- Private handler
- Equalizer mode
  - 0x01 : Off
  - 0x02 : On
- Repeat mode
  - 0x01 : Off
  - 0x02 : Single
  - 0x03 : All
  - 0x04 : Group
- Shuffle mode



■ 0x01 : Off

■ 0x03 : Group

Scan mode

■ 0x01 : Off

■ 0x03 : Group

### **Return Value**

Void

# 2.6.18 registerListPlayerAttrCbAVK

void registerListPlayerAttrCbHS(void \*pObj, void (\*cbFunc)(void \*, bool, bool, bool))

### Description

Notify when player attribute list is received.

### Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Equalizer mode
  - TRUE : Enabled, FALSE : Disabled
- Repeat mode
  - TRUE : Enabled, FALSE : Disabled
- Shuffle mode
  - TRUE : Enabled, FALSE : Disabled
- Scan mode
  - TRUE : Enabled, FALSE : Disabled

#### **Return Value**

void

# 2.6.19 registerListPlayerValuesCbAVK

void registerListPlayerValuesCbHS(void \*pObj, void (\*cbFunc)(void \*, int32\_t, int32\_t,
unsigned char \*))

### **Description**

Notify when player value list is received.

### **Arguments**

pObj UI handler

- Private handler
- Number of values
- Player attribute ID
  - Equalizer: 0x01
    Repeat: 0x02
  - Shuffle : 0x02
  - Scan: 0cx04



Values

#### Return Value

void

# 2.6.20 registerOpenFailedCbHS

void registerOpenFailedCbHS(void \*pObj, void (\*cbFunc)(void \*))

# **Description**

Notify when HS open is failed.

### Arguments

pObj UI handler

cbFunc UI callback stub function

Private handler

#### **Return Value**

void

# 2.6.21 registerConnectionStatusCbHS

void registerConnectionStatusCbHS(void \*pObj, void (\*cbFunc)(void \*, bool, char \*,
unsigned char \*))

### Description

Notify when HS connection status is changed.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Connection status
- Device's name
- Device's address

### **Return Value**

void

# 2.6.22 registerInbandRingSupportedCbHS

void registerInbandRingSupportedCbHS(void \*pObj, void (\*cbFunc)(void \*, bool))

## Description

Notify that in-band ring is supported or not.

# **Arguments**

pObj UI handler

- Private handler
- Supported or not



# Return Value

void

# 2.6.23 registerCallStatusCbHS

void registerCallStatusCbHS(void \*pObj, void (\*cbFunc)(void \*, int32\_t))

### Description

Notify when call status is changed.

### Arguments

pObj UI handler

cbFunc UI callback stub function

Private handler

- Call status

→ 0x00 : UNKNOWN\_CALL

 $\rightarrow$  0x01 : HANG\_UP\_CALL

→ 0x02 : INCOMMING\_CALL

→ 0x03: READY\_OUTGOING\_CALL

→ 0x04 : OUTGOING\_CALL

 $\rightarrow$  0x05 : PICK\_UP\_CALL

→ 0x06: DISCONNECTED\_CALL

# Return Value

void

# 2.6.24 registerBatteryStatusCbHS

void registerBatteryStatusCbHS(void \*pObj, void (\*cbFunc)(void \*, int32\_t))

# Description

Notify when the battery status changes or when the value is requested.

# **Arguments**

pObj UI handler

cbFunc UI callback stub function

Private handler

- Battery charging status value  $(0 \sim 5)$ 

### **Return Value**

void

# 2.6.25 registerCallOperNameCbHS

void registerCallOperNameCbHS(void \*pObj, void (\*cbFunc)(void \*, char \*))

#### **Description**

Notify when the operator'name is requested.



#### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

- Call operator's name

#### Return Value

void

# 2.6.26 registerCurrentCallIsCbHS

void registerCurrentCalllsCbHS(void \*pObj, void (\*cbFunc)(void \*, char \*)

#### Description

Notify when receive the CLCC event.

# **Arguments**

pObj UI handler

cbFunc UI callback stub function

- → Private handler
- CLCC string
  - <idx>,<dir>,<status>,<mode>,<mprty>[,<number>,<type>]
    - <idx>
      - The numbering (starting with 1) of the call given by the sequence of setting up or receiving the calls (active, held or waiting) as seen by the served subscriber
    - ◆ <dir>
      - 0 (outgoing), 1 (incoming)
    - <status>
      - 0 = Active
      - 1 = Held
      - 2 = Dialing (outgoing calls only)
      - 3 = Alerting (outgoing calls only)
      - 4 = Incoming (incoming calls only)
      - 5 = Waiting (incoming calls only)
    - <mode>
      - 0 (Voice), 1 (Data), 2 (FAX)
    - <mprty>
      - 0 (Not Multiparty), 1 (Multiparty)
    - lack <number> (optional)
      - Phone number
    - ◆ <type> (optional)
      - values 128-143: The phone number format may be a national or international format, and may contain prefix and/or escape digits
      - values 144-159: The phone number format is an international number, including the country code prefix
      - values 160-175 : National number. No prefix nor escape digits included

### **Return Value**

void



# 2.6.27 registerCallNumberCbHS

void registerCallNumberCbHS(void \*pObj, void (\*cbFunc)(void \*, char \*))

# Description

Notify when my phone call number is requested.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- My phone call number

#### **Return Value**

void

# 2.6.28 registerAudioMuteStatusCbHS

void registerAudioMuteStatusCbHS(void \*pObj, void (\*cbFunc)(void \*, bool, bool))

### **Description**

Notify when audio HS and mic mute status are changed.

# **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Mute status
- Audio HS status

#### Return Value

void

# 2.6.29 registerVoiceRecognitionStatusCbHS

void registerVoiceRecognitionStatusCbHS(void \*pObj, void (\*cbFunc)(void \*, unsigned short))

### Description

Notify when voice recognition status is changed.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Voice recognition status

# Return Value

void



# 2.6.30 registerIncommingCallNumberCbHS

registerIncommingCallNumberCbHS(void \*pObj, void (\*cbFunc)(void \*, char \*))

#### **Description**

Notify the phone number when is incomming call.

#### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- → Private handler
- → CLIP string
  - CLIP string structure (Calling line identification notification)
    - <number>, type>
      - <number>
        - Phone number
      - <type>
        - values 128-143: The phone number format may be a national or international format, and may contain prefix and/or escape digits
        - values 144-159: The phone number format is an international number, including the country code prefix
        - values 160-175: National number. No prefix nor escape digits included

#### **Return Value**

void

# 2.6.31 registerCallIndicatorCbHS

void registerCallIndicatorCbHS(void \*pObj, void (\*cbFunc)(void \*, char \*))

#### **Description**

Notify when receive the CIND event.

### **Arguments**

pObj UI handler

- → Private handler
- → CIND string
- → CIND string structure (Call indicator)
  - <ind>,<value>
    - ◆ <ind>: Order index of the indicator within the list retrieved from the AG with the AT+CIND=? command. The first element of the list shall have <ind>=1
    - <value> : Current status of the indicator
      - call
        - 0 means there are no calls in progress
        - 1 means at least one call is in progress
      - callheld
        - 0 No calls held
        - 1 Call is placed on hold or active/held calls swapped
        - 2 Call on hold, no active call



- callsetup
  - 0 means not currently in call set up
  - 1 means an incoming call process ongoing
  - 2 means an outgoing call set up is ongoing
  - 3 means remote party being alerted in an outgoing call
- service
  - 0 implies no service. No Home/Roam network available
  - 1 implies presence of service. Home/Roam network available
- signal
  - Ranges from 0 to 5
- roam
  - 0 means roaming is not active
  - 1 means a roaming is active
- battchg
  - Ranges from 0 to 5
- **→** Example
  - 1st: ("call",(0,1)),("callsetup",(0-3)),("service",(0-1)),("signal",(0-5)), ("roam",(0,1)),("battchg",(0-5)),("callheld",(0-2))
  - 2st: 0,0,1,5,0,4,0

### **Return Value**

void

# 2.6.32 registerCallIndicatorParsingValuesCbHS

void registerCallIndicatorParsingValuesCbHS(void \*pObj, void (\*cbFunc)(void \*, int32\_t, int32\_t,

### Description

Notify when receive the CIND event. (Parsing values)

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Service
- callind
- call\_setup
- roam
- signal\_strength
- battery

# **Return Value**

void

# 2.6.33 registerOpenFailedCbPBC

void registerOpenFailedCbPBC(void \*pObj, void (\*cbFunc)(void \*))

#### **Description**

Notify when PBC open is failed.



#### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler

#### Return Value

void

# 2.6.34 registerConnectionStatusCbPBC

void registerConnectionStatusCbPBC(void \*pObj, void (\*cbFunc)(void \*, bool))

#### **Description**

Notify when PBC connection status is changed.

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Connection status

### Return Value

void

# 2.6.35 registerNotifyGetPhoneBookCbPBC

void registerNotifyGetPhoneBookCbPBC(void \*pObj, void (\*cbFunc)(void \*))

### Description

Notify when contact or call log is received.

It is created as 'pb data.vcf' file in "/etc/bluetooth/"

### Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler

#### Return Value

void

# 2.6.36 registerListDataCbPBC

void registerListDataCbPBC(void \*pObj, void (\*cbFunc)(void \*, unsigned char \*))

### Description

Notify when list message is received.

### **Arguments**

pObj UI handler



- Private handler
- List data

#### Return Value

void

# 2.6.37 registerOpenFailedCbMCE

void registerOpenFailedCbMCE(void \*pObj, void (\*cbFunc)(void \*))

# Description

Notify when MCE open is failed.

### Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler

#### Return Value

void

# 2.6.38 registerConnectionStatusCbMCE

void registerConnectionStatusCbMCE(void \*pObj, void (\*cbFunc)(void \*, bool))

# Description

Notify when MCE connection status is changed.

# Arguments

pObj UI handler

cbFunc UI callback stub function

- Private handler
- Connection status

# Return Value

void

# 2.6.39 registerNotifyGetMessageCbMCE

void registerNotifyGetMessageCbMCE(void \*pObj, void (\*cbFunc)(void \*))

### **Description**

Notify when SMS message is received.

It is created as 'get\_msg.txt' file in "/etc/bluetooth/"

### **Arguments**

pObj UI handler

cbFunc UI callback stub function

- Private handler



Return Value	
void	

