

SDK API User's Guide (Bluetooth)

Version 1.4.1

Display Audio

Solution Team



Release information

The following changes have been made to this document.

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Chap 1. Library information

1.1 Overview

- Library name : libnxbt.so
- Interface class name : INX_BT
- Interface 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>
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 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 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 registerMGTDisonnectedCbManager(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 *pObj, 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 *pObj, 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 *pObj, 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 *pObj, 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

<code>int32_t initDevManager(void)</code>
Description This function connects to bsa_server.
Arguments void
Return Value 0 : Success, -1 : Fail

2.1.2 getVersionInfoBSA

<code>int32_t getVersionInfoBSA(BSA_version_info_t *bsa_version)</code>
Description This function gets BSA version information.
Arguments bsa_version : Input structure to store BSA version <ul style="list-style-type: none"> - server_version : BSA server version - fw_version : Firmware version
Return Value 0 : Success, -1 : Fail

2.1.3 setRecoveryCommand

<code>void setRecoveryCommand(const char *command)</code>
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 isAutoPairing

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

<code>int32_t getPairedDevInfoByIndex(int32_t device_index, char *name, unsigned char *bd_addr)</code>
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

<code>int32_t getPairedDevAddrByIndex(int32_t device_index, unsigned char *bd_addr)</code>
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

<code>int32_t getPairedDevNameByIndex(int32_t device_index, char *name)</code>
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

<code>int32_t getPairedDevIndexByAddr(unsigned char *bd_addr)</code>
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

<code>char* getPairedDevNameByAddr(unsigned char *bd_addr)</code>

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

<code>void setALSADevName(const char *playback_avk, const char *playback_hs, const char *capture_hs, const char *playback_hs_sco, const char *capture_hs_sco)</code>
--

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

<code>int32_t startDiscovery(void)</code>

Description

This function starts device discovery

Arguments

void

Return Value

0 : Success, -1 : Fail

2.1.28 stopDiscovery

<code>int32_t stopDiscovery(void)</code>
--

Description

This function stops device discovery

Arguments

void
Return Value
0 : Success, -1 : Fail

2.1.29 **getDiscoveredDevCount**

<code>int32_t getDiscoveredDevCount(void)</code>
Description
This function gets the number of devices discovered.
Arguments
void
Return Value
The number of devices discovered

2.1.30 **getDiscoveredDevInfoByIndex**

<code>int32_t getDiscoveredDevInfoByIndex(int32_t device_index, char *name, unsigned char *bd_addr, unsigned char *class_of_device, char *class_name, int32_t *rssi)</code>
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**

<code>int32_t bondDevice(int32_t device_index)</code>
Description
This function bonds discovered device.
Arguments
device_index : Index of discovered device.
Return Value
0 : Success, -1 : Fail

2.1.32 **cancelBondingDevice**

<code>int32_t cancelBondDevice(int32_t device_index)</code>
Description

This function cancels the bonding of the device being bonded.
Arguments device_index : Index of the device being bonded
Return Value 0 : Success, -1 : Fail

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

<code>int32_t connectToAVK(int32_t device_index)</code>
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

<code>int32_t disconnectFromAVK(unsigned char *bd_addr)</code>
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

<code>int32_t getConnectionNumberAVK(void)</code>
Description This function gets the number of paired devices.
Arguments void
Return Value Number of AVK connected device

2.2.8 getConnectionDevAddrAVK

<code>int32_t getConnectionDevAddrAVK(int32_t connected_index, unsigned char *bd_addr)</code>
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

0 : Success, -1 : Fail

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

0 : Success, -1 : Fail

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

<code>int32_t requestCallIndicator(void)</code>

Description

This function requests indicator call string.

Arguments

void

Return Value

0 : Success, -1 : Fail

2.3.3 requestCurrentCalls

<code>int32_t requestCurrentCalls(void)</code>
--

Description

This function requests current call string.

Arguments

void

Return Value

0 : Success, -1 : Fail

2.3.4 getConnectionDevAddrHS

<code>int32_t getConnectionDevAddrHS(unsigned char *bd_addr)</code>

Description

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

Arguments

bd_addr : Address of HS connected device
--

Return Value

0 : Success, -1 : Fail

2.3.5 connectToHS

<code>int32_t connectToHS(int32_t device_index)</code>
--

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

<code>int32_t dialPhoneNumber(const char *number)</code>
Description This function tries to dial.
Arguments number : Destination phone number
Return Value 0 : Success, -1 : Fail

2.3.15 reDialPhoneNumber

<code>int32_t reDialPhoneNumber(void)</code>
Description This function tries to redial.
Arguments void
Return Value 0 : Success, -1 : Fail

2.3.16 setATCommandDTMF

<code>int32_t setATCommandDTMF(char key)</code>
Description This function sends AT command.
Arguments key : Dial keypad's key
Return Value 0 : Success, -1 : Fail

2.3.17 requestCallNumber

<code>int32_t requestCallNumber(void)</code>
Description This function requests my phone call number.
Arguments void
Return Value 0 : Success, -1 : Fail

2.3.18 requestCallOperName

<code>int32_t requestCallOperName(void)</code>
--

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 ~ 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
0 : Success, -1 : Fail

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

<code>int32_t connectToPBC(int32_t device_index)</code>
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

<code>int32_t disconnectFromPBC(void)</code>
Description
This function tries to disconnect from the PBC profile service.
Arguments
void
Return Value
0 : Success, -1 : Fail

2.4.4 abortPBC

<code>int32_t abortPBC(void)</code>
Description
This function tries to abort the PBC profile service. If this function is executed while the phonebook is being downloaded, the download is stopped.
Arguments
void
Return Value
0 : Success, -1 : Fail

2.4.5 getContactFromPBC

<code>int32_t getContactFromPBC(void)</code>
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 0 : Success, -1 : Fail

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. Running this function while the message is downloading will stop the download.
Arguments void
Return Value 0 : Success, -1 : Fail

2.5.5 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 0 : Success, -1 : Fail

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 registerMGTDisonnectedCbManager

void registerMGTDisonnectedCbManager(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
	<ul style="list-style-type: none"> - Private handler - Device's address - Reason code <ul style="list-style-type: none"> ➔ 0x08 : RF signal is disconnected ➔ 0x13 : Turn off the BT module on the remote device or unpair the connected local device ➔ 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
cbFunc	UI callback stub function
	<ul style="list-style-type: none"> - 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
	<ul style="list-style-type: none"> - 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

cbFunc UI callback stub function

- 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
 - ➔ 0x00 : Stopped
 - ➔ 0x01 : Playing
 - ➔ 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
	<ul style="list-style-type: none"> - 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
cbFunc	UI callback stub function
	<ul style="list-style-type: none"> - Private handler - Equalizer mode <ul style="list-style-type: none"> ■ 0x01 : Off ■ 0x02 : On - Repeat mode <ul style="list-style-type: none"> ■ 0x01 : Off ■ 0x02 : Single ■ 0x03 : All ■ 0x04 : Group - Shuffle mode <ul style="list-style-type: none"> ■ 0x01 : Off ■ 0x02 : All ■ 0x03 : Group - Scan mode <ul style="list-style-type: none"> ■ 0x01 : Off ■ 0x02 : All ■ 0x03 : Group
Return Value	
Void	

2.6.18 registerListPlayerAttrCbAVK

void registerListPlayerAttrCbHS(void *pObj, void (*cbFunc)(void *, bool, bool, bool, bool))	
Description	
Notify when player attribute list is received.	
Arguments	

pObj	UI handler
cbFunc	UI callback stub function
	<ul style="list-style-type: none"> - Private handler - Equalizer mode <ul style="list-style-type: none"> ■ TRUE : Enabled, FALSE : Disabled - Repeat mode <ul style="list-style-type: none"> ■ TRUE : Enabled, FALSE : Disabled - Shuffle mode <ul style="list-style-type: none"> ■ TRUE : Enabled, FALSE : Disabled - Scan mode <ul style="list-style-type: none"> ■ 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
cbFunc	UI callback stub function
	<ul style="list-style-type: none"> - Private handler - Number of values - Player attribute ID <ul style="list-style-type: none"> ■ Equalizer : 0x01 ■ Repeat : 0x02 ■ Shuffle : 0x03 ■ 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
	<ul style="list-style-type: none"> - 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	<p>pObj UI handler</p> <p>cbFunc UI callback stub function</p> <ul style="list-style-type: none"> - 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	<p>pObj UI handler</p> <p>cbFunc UI callback stub function</p> <ul style="list-style-type: none"> - 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	<p>pObj UI handler</p> <p>cbFunc UI callback stub function</p> <ul style="list-style-type: none"> - Private handler - Call status <ul style="list-style-type: none"> ➔ 0x00 : UNKNOWN_CALL ➔ 0x01 : HANG_UP_CALL

<ul style="list-style-type: none"> ➔ 0x02 : INCOMMING_CALL ➔ 0x03 : READY_OUTGOING_CALL ➔ 0x04 : OUTGOING_CALL ➔ 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 <ul style="list-style-type: none"> - Private handler - Battery charging status value (0 ~ 5)
Return Value void

2.6.25 registerCallOperNameCbHS

void registerCallOperNameCbHS(void *pObj, void (*cbFunc)(void *, char *))
Description Notify when the operator's name is requested.
Arguments pObj UI handler cbFunc UI callback stub function <ul style="list-style-type: none"> - Private handler - Call operator's name
Return Value void

2.6.26 registerCurrentCallsCbHS

void registerCurrentCallsCbHS(void *pObj, void (*cbFunc)(void *, char *))
Description Notify when receive the CLCC event.
Arguments pObj UI handler

cbFunc	UI callback stub function
	<ul style="list-style-type: none"> ➔ Private handler ➔ CLCC string <ul style="list-style-type: none"> ■ <idx>,<dir>,<status>,<mode>,<mprty>[,<number>,<type>] ◆ <idx> <ul style="list-style-type: none"> ● 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> <ul style="list-style-type: none"> ● 0 (outgoing), 1 (incoming) ◆ <status> <ul style="list-style-type: none"> ● 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> <ul style="list-style-type: none"> ● 0 (Voice), 1 (Data), 2 (FAX) ◆ <mprty> <ul style="list-style-type: none"> ● 0 (Not Multiparty), 1 (Multiparty) ◆ <number> – (optional) <ul style="list-style-type: none"> ● Phone number ◆ <type> – (optional) <ul style="list-style-type: none"> ● 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

<code>void registerAudioMuteStatusCbHS(void *pObj, void (*cbFunc)(void *, bool, bool))</code>
Description Notify when audio HS and mic mute status are changed.
Arguments pObj UI handler cbFunc UI callback stub function <ul style="list-style-type: none"> - Private handler - Mute status - Audio HS status
Return Value void

2.6.29 registerVoiceRecognitionStatusCbHS

<code>void registerVoiceRecognitionStatusCbHS(void *pObj, void (*cbFunc)(void *, unsigned short))</code>
Description Notify when voice recognition status is changed.
Arguments pObj UI handler cbFunc UI callback stub function <ul style="list-style-type: none"> - Private handler - Voice recognition status
Return Value void

2.6.30 registerIncommingCallNumberCbHS

<code>registerIncommingCallNumberCbHS(void *pObj, void (*cbFunc)(void *, char *))</code>
Description Notify the phone number when is incomming call.
Arguments pObj UI handler cbFunc UI callback stub function <ul style="list-style-type: none"> ➔ Private handler ➔ CLIP string <ul style="list-style-type: none"> ■ CLIP string structure (Calling line identification notification) <ul style="list-style-type: none"> ◆ <number>, type> <ul style="list-style-type: none"> ● <number> <ul style="list-style-type: none"> ■ Phone number ● <type>

<ul style="list-style-type: none"> ■ 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 cbFunc UI callback stub function	
<ul style="list-style-type: none"> ➔ Private handler ➔ CIND string <ul style="list-style-type: none"> ■ CIND string structure (Call indicator) <ul style="list-style-type: none"> ◆ <ind>,<value> <ul style="list-style-type: none"> ● <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 <ul style="list-style-type: none"> ■ call <ul style="list-style-type: none"> ◆ 0 means there are no calls in progress ◆ 1 means at least one call is in progress ■ callheld <ul style="list-style-type: none"> ◆ 0 No calls held ◆ 1 Call is placed on hold or active/held calls swapped ◆ 2 Call on hold, no active call ■ callsetup <ul style="list-style-type: none"> ◆ 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 <ul style="list-style-type: none"> ◆ 0 implies no service. No Home/Roam network available ◆ 1 implies presence of service. Home/Roam network available ■ signal <ul style="list-style-type: none"> ◆ Ranges from 0 to 5 ■ roam <ul style="list-style-type: none"> ◆ 0 means roaming is not active ◆ 1 means a roaming is active ■ battchg <ul style="list-style-type: none"> ◆ Ranges from 0 to 5 ■ Example <ul style="list-style-type: none"> ◆ 1st : ("call",(0,1)),("callsetup",(0-3)),("service",(0-1)),("signal",(0-5)), 	

<p>◆ ("roam",(0,1)),("battchg",(0-5)),("callheld",(0-2)) 2st : 0,0,1,5,0,4,0</p>
<p>Return Value</p> <p>void</p>

2.6.32 registerCallIndicatorParsingValuesCbHS

<pre>void registerCallIndicatorParsingValuesCbHS(void *pObj, void (*cbFunc)(void *, int32_t, int32_t, int32_t, int32_t, int32_t, int32_t))</pre>
<p>Description</p> <p>Notify when receive the CIND event. (Parsing values)</p>
<p>Arguments</p> <p>pObj UI handler</p> <p>cbFunc UI callback stub function</p> <ul style="list-style-type: none"> - Private handler - Service - callind - call_setup - roam - signal_strength - battery
<p>Return Value</p> <p>void</p>

2.6.33 registerOpenFailedCbPBC

<pre>void registerOpenFailedCbPBC(void *pObj, void (*cbFunc)(void *))</pre>
<p>Description</p> <p>Notify when PBC open is failed.</p>
<p>Arguments</p> <p>pObj UI handler</p> <p>cbFunc UI callback stub function</p> <ul style="list-style-type: none"> - Private handler
<p>Return Value</p> <p>void</p>

2.6.34 registerConnectionStatusCbPBC

<pre>void registerConnectionStatusCbPBC(void *pObj, void (*cbFunc)(void *, bool))</pre>
<p>Description</p> <p>Notify when PBC connection status is changed.</p>

Arguments	
pObj	UI handler
cbFunc	UI callback stub function
-	Private handler
-	Connection status
Return Value	
void	

2.6.35 registerNotifyGetPhoneBookCbPBC

<code>void registerNotifyGetPhoneBookCbPBC(void *pObj, void (*cbFunc)(void *))</code>	
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

<code>void registerListDataCbPBC(void *pObj, void (*cbFunc)(void *, unsigned char *))</code>	
Description	
Notify when list message is received.	
Arguments	
pObj	UI handler
cbFunc	UI callback stub function
-	Private handler
-	List data
Return Value	
void	

2.6.37 registerOpenFailedCbMCE

<code>void registerOpenFailedCbMCE(void *pObj, void (*cbFunc)(void *))</code>	
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	