# WL18xx TI Bluetooth Stack HDSM Demo App

Return to WL18xx AM335x TI Bluetooth Stack

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# **Demo Overview**

#### Note: : This instructions can be used to run this demo on the AM335x Platform.

This demo allows users to evaluate TI's WL18xx device by using the <u>AM335x platform (http://www.ti.com/tool/tmdxevm3358)</u>. The Headset profile allows the user to demonstrate the use of Headset profile on embedded device. The Headset profile is used to connect a headset or speakerphone with a mobile device or used to connect a Audio gateway with headset device to provide basic control and voice connections. The Headset profile supports two roles, Headset and Audio Gateway. This document demonstrates how to use both roles of the profile.

It is recommended that the user visits the kit setup <u>Getting Started Guide for AM335x (http://processors.wiki.ti.com/index.php/WL18xx\_AM335x\_TI\_Bluetooth\_Stack)</u> pages before trying the application described on this page.

## Instructions for platform audio routing

The am335x platform can route the Audio to the Microphone and Speakers Jacks on the development board. The audio can be routed only on development boards with the main board version 1.5 or later, Doughter board 1.2. Two audio devices should be added to the platform configuration- AM335xEVM and WILINK8BT. For reconfiguring the platform kernel, the user should download the SDK version 3.14.43 for the AM335x. After downloading the kernel and compilation under the Linux folder: ~/ti-processor-sdk-linux-am335x-evm-01.00.00.03/. For the kernel download and compilation instruction follow the link: TI Linux Kernel Users Guid (http://processors.wiki.ti.com/index.php/Linux\_Kernel\_Users\_Guide) For the BluetopiaPM environment follow the link: Bluetopia PM Build Process (http://processors.wiki.ti.com/index.php/TI\_Bluetooth\_Stack\_for\_WL18xx\_-\_Build\_Process) When the setup is ready go to the kernel folder: ~/ti-processor-sdk-linux-am335x-evm-01.00.00.03/board-support/linux\_3.14.43+gitAUTONIC+875c69b2c3-g875c89b. Then copy the following patch to the kernel folder and type: "git apply 0001-New-Feature-BT-PCM-integration-on-the-AM335x-EVM.PATCH".

hoNote: : Currently all Sitara boards 1.5 and later needs the following patch to route the Audio in HFRM Demo App:

Description	Patch type	Support for board	Link to patch
HFP AUdio route in the	Bug fix	All AM335x	<pre><patch> (https://gforge.ti.com/gf/download/user/10583/7930/0001-New-Feature-BT-PCM-integ</patch></pre>
Sitara Patch		variants	ration-on-the-AM335x-EVM.PATCH)

#### The patch requires recompiling the zImage:

make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- zImage cp arch/arm/boot/zImage [target-rootfs]/boot/	
After the new configurations done, the devices, AM335xEVM and WILINK8BT, should appear in /proc/asound/ folder on the platform's file system. The BluetopiaPM apply	lication

PNote: When using a CC256x controller you will need to change the init script in order to enable AVPR. You can use the following command in the AM335x device terminal

cp -f /lib/firmware/TIInit_6.7.16_avpr_on.bts /lib/firmware/TIInit_6.7.16.bts	

## **Running the Bluetooth Code**

Once the am335x is initialized on the terminal, follow the instructions; Enter to the Sample Application folder, for this example "cd BluetopiaPM/bin"

root@am335x-evm:~# cd BluetopiaPM/bin/	
rootwam335X-evm:~/BluetoplaPM/bln#	

# **Demo Application**

This section provides a description of how to use the demo application to connect smart phone over Bluetooth HSP profile, the same for the second smart phone. Bluetooth HSP is a simple Client-Server connection process with one side, the client, operating in the Audio-Gateway role and the other, the server, operating in the Headset role. We will setup the boards one as a Headset server and the second one as Audio gateway Client.

# **Headset Profile (HSP)**

## HDSM Client (HDSM\_AG)

To verify HDSM\_AG client role functionality, first run the "LinuxHDSM\_AG" executable, initialize, and power on the local device if necessary.

Start the Server and the Demo application by typing "./SS1BTPM & ./LinuxHDSM\_AG"

root@am335x-evm:~/BluetopiaPM/bin# ./SS1BTPM & ./LinuxHDSM\_AG [1] 2054

Now the help screen is displayed

mana uptions: 1)	INITIALIZE	*
2)	Cleanup	*
3)	QueryDebugZoneMask	*
4)	SetDebugZoneMask	*
5)	ShutdownService	*
6)	RegisterEventCallback,	*
7)	UnRegisterEventCallback,	*
8)	OuervDevicePower	*
91	SetDevicePower	*
	0.0uervlocalDeviceProperties	*
10	)SetLocalDeviceName	*
12	)SetLocalClassOfDovise	*
12		
13	SetDiscoverable	*
14	SetConnectable	*
15	)SetPairable	*
16	)StartDeviceDiscovery	*
17	)StopDeviceDiscovery	*
18	<pre>Description</pre> )QueryRemoteDeviceList	*
19	)QueryRemoteDeviceProperties	*
20	)AddRemoteDevice	*
21	)DeleteRemoteDevice	*
22	DeleteRemoteDevices	*
23	PairWithRemoteDevice	*
24	)CancelPairWithRemoteDevice	*
25	)UnPairRemoteDevice	*
25	0uonyPomotoDovicoSonvicos	*
20		
27	RegisterAuthentication	*
28	UnkegisterAuthentication	*
29	)PINCodeResponse	*
30	)PassKeyResponse	*
31	.)UserConfirmationResponse	*
32	)ChangeSimplePairingParameters	*
33	)ConnectDevice	*
34	)DisconnectDevice	*
35	)ConnectionRequestResponse	*
36	ManageAudio	*
37	)SetSneakerGain	*
35	SetMicronhoneGain	*
20	))QuenyHeadsetSenvices	*
33	) Change Incoming Connection Flags	*
40	) Diantadiantian	
41	)kinginuication	*
42	)HDSRegisterEventCallback	*
43	)HDSUnRegisterEventCallback	*
44	)HDSRegisterDataCallback	*
45	)HDSUnRegisterDataCallback	*
46	)EnableBluetoothDebug	*

a) Initialize the profile by typing "1 1" or "Initialize 1".
b) Powering up the Bluetooth device by typing "9 1" or "SetDevicePower 1", if the device is already powered up you'll receive an error that the device is already powered up

Headset>Initialize 1
BTPM\_Initialize() Success: 0.
DEVM\_RegisterEventCallback() Success: 5.
Headset>SetDevicePower 1
echo 117 > /sys/class/gpio/gpio117/direction
echo 0 + /sys/class/gpio/gpio117/value
echo 1 > /sys/class/gpio/gpio117/value
echo 1 > /sys/class/gpio/gpio117/value
Echo 0 + /sys/class/gpio/gpio117/value
Echo 1 > /sys/class/gpio/gpio117/value
Echo 2 > /sys/class/gpio/gpio117/value
Echo 1 > /sys/class/gpio/gpio117/value
Echo 2 > /sys/class/gpio/gpio117/value
Echo 1 > /sys/class/gpio/gpio117/value
Echo 1 > /sys/class/gpio/gpio117/value
Echo 2 > /sys/class/gpio/gpio117/spice
Echo 2

# c) Register HDS Event and Data Callbacks.

Usage: HDSRegisterEventCallback [(0 = Non-Control Callback, 1 = Control Callback)].	
Headset>HDSRegisterEventCallback 1	
HDSM_Register_Event_Callback() Success: 1. Headset>	
Headset>HDSRegisterDataCallback	
HDSM_Register_Data_Event_Callback() Success: 2. Headset>	

### d) Register Authentication

Headset>RegisterAuthentication DEVM\_RegisterAuthentication() Success: 5. Headset>

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e) In order to make connection, we need to check the RFCOMM ID, use QueryRemoteDeviceServices function in order to discover SDP.

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Usage: QueryRemoteDeviceSe	vices [BD_ADDR] [Force Update] [Bytes to Query (specified if Force is 0)].
<pre>leadset&gt;QueryRemoteDeviceS</pre>	ervices 84DD209C58DD 1
ttompting Quony Romoto Do	rice 84007200/S900 Ean Services
EVM QueryRemoteDeviceServ	The apply solution of services.
leadset >	Juccess, of Total Namber Service System.
Remote Device Properties C	nanged.
D_ADDR: 84DD209C58D	
evice Flags: 0x800001CD	
onnect State: TRUE	
eadset>	
leadsets	Services Status. BN/EDN, SUCCESS.
Remote Device Properties C	nanzed.
D_ADDR: 84DD209C58D	
Vevice Flags: 0x800001CD	
erv. Known : TRUE	
leadset>	
emote Device Properties C	langea.
D_ADDK: 84002090580	
Connect State: FALSE	
leadset>	
Attempting Query Remote De DEVM_QueryRemoteDeviceServ Returned Service Data (813	ice 84DD209C58DD For Services. ices() Success: 813, Total Number Service Bytes: 813. Bytes):
Attempting Query Remote De DEVM_QueryRemoteDeviceServ Returned Service Data (813	ice 84DD209C58DD For Services. .ces() Success: 813, Total Number Service Bytes: 813. Bytes)
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Attempting Query Remote De VEVM_QueryRemoteDeviceServ teturned Service Data (813 Service Record: 2: Attribute ID 0x8000 Type: Unsigned Int Attribute TD 0x0001	<pre>ice 84DD209C58DD For Services. .ces() Success: 813, Total Number Service Bytes: 813. Bytes): • 0x00010002</pre>
ttempting Query Remote De EVM_QueryRemoteDeviceServ eturned Service Data (813 ervice Record: 2: Attribute ID 0x0000 Type: Unsigned Int Attribute ID 0x0001 Type: Data Element	<pre>ice 84DD209C58DD For Services. .ces() Success: 813, Total Number Service Bytes: 813. Bytes): e 0x00010002 iequence</pre>
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ttempting Query Remote De EVM_QueryRemoteDeviceServ eturned Service Data (813 ervice Record: 2: Attribute ID 0x0000 Type: Unsigned Int Attribute ID 0x0001 Type: UUID_16 = Attribute ID 0x0002 Type: UUID_16 = Attribute ID 0x0004 Type: Data Element Type: Data Element	<pre>: 0x0002000000 Side Services. .ces() Success: 813, Total Number Service Bytes: 813. Bytes): : 0x00010002 iequence hx1108 ix1203 : 0x00000005 iequence ti Sequence ti Sequence</pre>
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<pre>ttempting Query Remote De KEVM_QueryRemoteDeviceServ teturned Service Data (813</pre>	<pre>ice 8400209C5800 For Services. ces() Success: 813, Total Number Service Bytes: 813. Bytes) * 0x00010002 * equence * 10x00000005 * ex00000005 * ex00000005 * equence * 0x0100 * t Sequence * 0x0100 * t Sequence * 0x000 * 1 f = 0x02 * equence * 1 = 0x0555 * t = 0x000 * equence * 1 = 0x0555 * t = 0x000 * equence * t Sequence * ex0100 * equence * t Sequence * ex0100 * equence * t Sequence * ex0100 * equence * ex0100 * equence * t Sequence * ex0100 * equence * ex0100 * equence * t Sequence * ex0100 * equence * t Sequence * ex0100 * equence * t Sequence * ex0100 * equence * ex0100 * equence * t Sequence * ex0100 * equence * t Sequence * ex0100 * equence * t Sequence * t Seque</pre>
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Note: : The RFCOMM we are searching according to the spec is "UUID\_16 = 0x0003", that means the port id is "Unsigned Int = 0x02"

### f) Connect to the Headset

age: Connect [BD_ADDR] [Port Number (optional)] [Connection Flags (optional - 0 = No Flags, 1 = Authentication, 2 = Encryption, 3 = Authentication/Encryption)].	

Headset>ConnectDevice 84DD209C58DD Service Name: Headset. RFCOMM Port Number: 0x02. HDS Profile Version: 0x0102. HDSM\_Connect\_Remote\_Device: Function Successful. Headset> Remote Device Properties Changed. BD\_ADDR: 84DD209C58DD Device Flags: 0x800001CD Connect State: TRUE Headset> Remote Device Properties Changed. BD ADDR: . 84DD209C58DD Device Flags: 0x800001DD Encrypt State: TRUE Headset> hetHDSConnectionStatus, BD\_ADDR: 84DD209C58DD, Type: sctAudioGateway, Status: 0. Headset> hetHDSConnected, BD\_ADDR: 84DD209C58DD, Type: sctAudioGateway. Headset> hetHDSConnected, BD ADDR: 84DD209C58DD, Type: sctAudioGateway. Headset> .

#### g) Sending indications - Ring indication.

Jsage: RingIndication [BD_ADDR].	
Headset>RingIndication 84DD209C58DD	
HDSM_Ring_Indication: Function Successful. Headset>	

#### At the Head Set side (When using another AM335x as a Head Set device) you will see

hetHDSRingIndication, BD\_ADDR: D03972507A42. Headset>

#### h) In order to change Speaker gain, use "SetSpeakerGain" Command

Usage: SetSpeakerGain [BD_ADDR] [0 <= SpeakerGain <= 15].
SetSpeakerGain D03972507A42 5
HDS_Set_Remote_Speaker_Gain: Function Successful. Headset>

#### At the Head Set side (When using another AM335x as a Head Set device) you will see

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L\_\_\_\_\_

hetHDSSpeakerGainIndication, BD\_ADDR: D03972507A42, Type: sctHeadset, Speaker Gain: 5. Headset>

#### i) In order to change Microphone gain, use "SetMicrophoneGain" Command

Usage: SetMicrophoneGain [BD\_ADDR] [0 <= MicrophoneGain <= 15]. SetMicrophoneGain D03972507A42 5 HDSM\_Set\_Remote\_Microphone\_Gain(): Function Successful. Headset>

### At the Head Set side (When using another AM335x as a Head Set device) you will see

hetHDSMicrophoneGainIndication,	BD_ADDR: D03972507A42,	Type: sctHeadset,	Microphone Gain:	5.		
Headset>						

j)

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Usage: ManageAudio [BD_ADDR] [Release = 0, Setup = 1] [InBandRinging (0 = No, 1 = In Band Ringing) only valid if Setup = 1].
Headset>ManageAudio 84DD209C58DD 1 0
HDSM_Setup_Audio_Connection: Function Successful. Headset>
hetHDSAudioConnected, BD_ADDR: 84DD209C58DD, Type: sctAudioGateway. Headset>
hetHDSAudioConnected, BD_ADDR: 84DD209C58DD, Type: sctAudioGateway. Headset>

#### At the Head Set side (When using another AM335x as a Head Set device) you will see

hetHDSAudioConnected, BD_ADDR: D03972507A42, Type: sctHeadset. Headset>
k)
Headset>ManageAudio 84DD209C58DD 0
HDSM_Release_Audio_Connection: Function Successful. Headset>
At the Head Set side (When using another AM335x as a Head Set device) you will see
hetHDSAudioDisconnected, BD_ADDR: D03972507A42, Type: sctHeadset
meduset> hetHDSAudioDisconnected, BD_ADDR: D03972507A42, Type: sctHeadset Headset>
I) When You finish using the Head Set Device, Use "DisconnectDevice" Command
Usage: Disconnect [BD_ADDR].
Headset>DisconnectDevice 84DD209C58DD
hetHDSDisconnected, BD_ADDR: 84DD209C58DD, Type: sctAudioGateway, Reason: 0.
meduset> hetHDSDisconnected, BD_ADDR: 84DD209C58DD, Type: sctAudioGateway, Reason: 0. Headset>HDSM Disconnect Device: Function Successful.
Headset> Remote Device Researction Changed
BD_ADDR: 84DD209C58DD
Device Flags: 0X000000105
Encrypt State: FALSE Headset>

# HDSM Server (HDSM\_HS)

To verify HDSM\_HS server role functionality, first run the "LinuxHDSM\_HS" executable, initialize, and power on the local device if necessary.

Start the Server and the Demo application by typing "./SS1BTPM & ./LinuxHDSM\_HS"  $\,$ 

root@am335x-evm:~/BluetopiaPM/bin# ./S51BTPM & ./LinuxHDSM_HS
[1] 1674
i

## Now the help screen is displayed

*****	***************************************	*****		
* Command	Options: 1) Initialize	*		
ĸ	2) Cleanup	*		
ĸ	3) QueryDebugZoneMask	*		
¢	<ol><li>SetDebugZoneMask</li></ol>	*		
¢	<ol><li>ShutdownService</li></ol>	*		
¢	<ol><li>RegisterEventCallback,</li></ol>	*		
	<ol><li>UnRegisterEventCallback,</li></ol>	*		
¢	<ol><li>QueryDevicePower</li></ol>	*		
¢	<ol><li>SetDevicePower</li></ol>	*		
k .	10)QueryLocalDeviceProperties	*		
ĸ	11)SetLocalDeviceName	*		
k .	12)SetLocalClassOfDevice	*		
ĸ	13)SetDiscoverable	*		
*	14)SetConnectable	*		
k .	15)SetPairable	*		
£	16)StartDeviceDiscovery	*		
k .	17)StopDeviceDiscovery	*		
ĸ	18)QueryRemoteDeviceList	*		
ĸ	19)QueryRemoteDeviceProperties	*		
¢	20)AddRemoteDevice	*		
	21)DeleteRemoteDevice	*		
	22)DeleteRemoteDevices	*		
	23)PairWithRemoteDevice	*		
	24)CancelPairWithRemoteDevice	*		
	25)UnPairRemoteDevice	*		
	26)QueryRemoteDeviceServices	*		
	27)RegisterAuthentication	*		
£	28)UnRegisterAuthentication	*		
	29)PINCodeResponse	*		
	30)PassKeyResponse	*		
	31)UserConfirmationResponse	*		
£	32)ChangeSimplePairingParameters	*		
ĸ	33)ConnectDevice	*		
ĸ	34)DisconnectDevice	*		
k.	35)ConnectionRequestResponse	*		
k.	36)ManageAudio	*		
ĸ	37)SetSpeakerGain	*		
k.	38)SetMicrophoneGain	*		
к	39)QueryHeadsetServices	*		
1	40)ChangeIncomingConnectionFlags	*		
*	41)SendButtonPress	*		

<ul> <li>44)HDSkegisterDataCallback</li> <li>45)HDSUnRegisterDataCallback</li> </ul>	
* 46)EnableBluetoothDebug * * Help, Quit. *	
a) Initialize the profile by typing "1 1" or "Initialize 1". b) Powering up the Bluetooth device by typing "9 1" or "SetDevicePower 1", if the device is already powered up you'll receive an error th is already powered up	nat the device
Headset>Initialize 1	
BTPM_Initialize() Success: 0. DEVM_RegisterEventCallback() Success: 5. Headset>SetDevicePower 1	
<pre>icho 117 &gt; /sys/class/gpio/export ish: line 0: echo: write error: Device or resource busy icho out &gt; /sys/class/gpio/gpio117/value icho 1 &gt; /sys/class/gpio/gpio117/value icho 1 &gt; /sys/class/gpio/gpio117/value ist COMM PORT (/dev/tty51): 1 Changing HCI baud rate to 3000000 Status: Executing BTS Script /lib/firmware/TIInit_12.10.28.bts. istatus: BTS Script successfully executed. DEVM_POwerOnDevice() Success: 0. Headset&gt; Device Powered On. Headset&gt;</pre>	
c) Register HDS Event and Data Callbacks.	
Usage: HDSRegisterEventCallback [(0 = Non-Control Callback, 1 = Control Callback)].	
Headset>HDSRegisterEventCallback 1	
Headset>	
Headset>HDSRegisterDataCallback	
HDSM_Register_Data_Event_Callback() Success: 2. Headset>	
Headset>RegisterAuthentication	
DEVM_RegisterAuthentication() Success: 5. Headset>	
e) In order to make connection, we need to check the RFCOMM ID, use QueryRemoteDeviceServices function in order to discover SDF	Þ.
Usage: QueryRemoteDeviceServices [BD_ADDR] [Force Update] [Bytes to Query (specified if Force is 0)].	
Headset>QueryRemoteDeviceServices 84DD209C58DD 1	
Attempting Query Remote Device 84DD209C58DD For Services. DFVM OueryRemoteDeviceServices() Success: 0. Total Number Service Bytes: 0.	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed.	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800001CD Guerer 6 device Flags:	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. 8D_ADDR: 84DD209C58DD Device Flags: 0x80001CD Connect State: TRUE Headset> Remote Device RADD209C58DD Services Status: BR/EDR. SUCCESS	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x800001CD Connect State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed.	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x800001CD Connect State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. 8D_ADDR: 84DD209C58DD Device Flags: 0x800001CD	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x800001CD Connert State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x800001CD Serv. Known : TRUE Headset>	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800081CD Connect State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. 84DD209C58DD Device Flags: 0x800081CD Serv. Known : TRUE Headset> Remote Device Properties Changed. 84DD209C58DD Device Flags: 0x800081CD Serv. Known : TRUE Headset> Remote Device Properties Changed. 84DD209C58DD Device Flags: 0x800081CD Serv. Known : TRUE	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x80001CD Connect State: TRUE Headset> Remote Device ADD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. 84DD209C58DD Device Flags: 0x80001CD Serv. Known : TRUE Headset> Remote Device Properties Changed. 8D_ADDR: 84DD209C58DD Device Flags: 0x80001CD Serv. Known : RUE Headset> Remote Device Properties Changed. 8D_ADDR: 84DD209C58DD Device Flags: 0x8000125 Serv. Known : RUE Headset>	
Attempting Query Remote Device 84DD209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. 80_ADDR: 84DD209C58DD Device Flags: 0x800001CD (connect State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. 80_ADDR: 84DD209C58DD Device Flags: 0x800001CD Serv. Known : TRUE Headset> Remote Device Properties Changed. 80_ADDR: 84DD209C58DD Device Flags: 0x800001CD Serv. Known : TRUE Headset> Remote Device State: FALSE Headset>	
Attempting Query Remote Device 84DD209C58DD For Services. DFVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset> Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800001CD Connect State: TRUE Headset> Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800001CD Serv.Known : TRUE Headset> Remote Device Properties Changed. B0_ADR: 84DD209C58DD Device Flags: 0x800001S5 Connect State: FALSE Headset> Headset> Remote Device State: 84DD209C58DD 0 2000 Attempting Query Remote DeviceServices 84DD209C58DD 0 2000	
Attempting Query Remote Device 840D0209C58DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headsets Remote Device Properties Changed. B0_ADDR: 84D0209C58DD Device Flags: 0x800001D Gonnert State: TRUE Headset> Remote Device Properties Changed. 8D_ADDR: 84D0209C58DD Services Status: BR/EDR, SUCCESS. Headset> Remote Device Properties Changed. 8D_ADDR: 84D0209C58DD Device Flags: 0x800001D Serv. Known :: TRUE Headset> Remote Device Properties Changed. 8D_ADDR: 84D0209C58DD Device Flags: 0x800001D Device Flags: 0x80001D Device Flags: 0x80001D Device Flags:	
Attempting Query Remote Device S4DD209CS8DD For Services. DEVM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. HeadSet> Remote Device Properties Changed. By ADD209CS8DD Services Status: BR/EDR, SUCCESS. HeadSet> Remote Device MaDD209CS8DD Services Status: BR/EDR, SUCCESS. HeadSet> Remote Device Flags: 0x800001CD Serv. Known : TNUE HeadSet> Remote Device Properties Changed. By ADDR: 84DD209CS8DD Device Flags: 0x8000812S Service Flags: 0x8000812S Service Flags: 0x8000812S Connect State: FALSE HeadSet> HeadSet> HeadSet> HeadSet> HeadSet> HeadSet> HeadSet> HeadSet> HeadSet> HeadSet: SALSE HeadSet> HeadSet: SALSE HeadSet> HeadSet: SALSE HeadSet: SALSE HEADSE	
<pre>Attempting Query Remote Device 84DD209C58DD For Services. DPEM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset&gt; Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device 84DD209C58DD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800001CD Serv. Known : TRUE Headset&gt; Remote Device Properties Changed. B0_ADDR: 84DD209C58DD Device Flags: 0x800001SD Device Flags: 0x800001SD Device Flags: 0x800001S5 Connect State: FALSE Headset&gt; Headset&gt;QueryRemoteDeviceServices 84DD209C58DD 0 2000 Attempting Query Remote Device 84DD209C58DD 0 2000 Attempting Query Remote Devices: 84DD209C58DD 0 2000 Attempting Duery Remote Devices: 84DD209C58DD For Service Bytes: 813. Returned Service Data (813 Bytes): Attempting Duery Remote Device Service Bytes: 813. Attempting Duery Remote Device Service Bytes: 813. Attempting Duery Remote Device Service Bytes: 813. Attempting Duery Remote Device Service Bytes: 813. Attempti</pre>	
<pre>Attempting Query Remote Device 84DD209CSBDD For Services. DFM_QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset&gt; Remote Device Properties Changed. BQ_ADDR: s4DD209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device RADD209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device Properties Changed. BQ_ADDR: s4DD209CSBDD Device: Flags: 0x800010D Servic. Rigs: 0x800010D Servic. Rigs: 0x800010D Device: Flags: 0x80000D Device: Flags: 0x80000D Device: Flags: 0x8000D Device: Flags: 0x800D Device: Flags: 0x80D Device: 0x80D Device: 0x80D Device: 0x80D Dev</pre>	
<pre>Attempting Query Remote Device 8400209CSBDD For Services. DEVM QueryRemoteDeviceServices() Success: 0, Total Number Service Bytes: 0. Headset&gt; Remote Device Properties Changed. BQ.JODR: 8400209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device Properties Changed. BQ.JODR: 8400209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Remote Device Properties Changed. BQ.JODR: 8400209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Benote Device Properties Changed. BQ.JODR: 8400209CSBDD Services Status: BR/EDR, SUCCESS. Headset&gt; Server. Known : TRUE Headset&gt; Remote Device Properties Changed. BQ.JODR: 8400209CSBDD Devices Status: BR/EDR SUCCESS. Headset&gt; Headset</pre>	

Attribute ID 0x0004	
Type: Data Element Sequence	
Type: Data Element Sequence	
Type: UUID_16 = 0x0100	
Type: Data Element Sequence	
Type: UUID_16 = 0x0003	
Type: Unsigned Int = 0x04	
Attribute ID 0x0006	
Type: Data Element Sequence	
Type: Unsigned Int = 0x656E	
Type: Unsigned Int = 0x006A	
Type: Unsigned Int = 0x0100	
Attribute ID 0x0009	
Type: Data Element Sequence	
Type: Data Element Sequence	
Type: UUID_16 = 0x1108	
Type: Unsigned Int = 0x0102	
Attribute ID 0x0100	
Type: Text String = Headset - AG	
L	

**Note:** : The RFCOMM we are searching according to the spec is "UUID\_16 = 0x0003", that means the port id is "Unsigned Int = 0x04'

#### f) Connect to the Audio Gateway

Usage: Connect [BD_ADDR] [Port Number (optional)] [Connection Flags (optional - 0 = No Flags, 1 = Authentication, 2 = Encryption, 3 = Authentication/Encryption)].
L
Headset>ConnectDevice 84DD209C58DD
, Service Name: Headset - AG.
RFCOMM Port Number: 0x04.
HDS Profile Version: 0x0102.
HDSM_connect_Remote_Device: Function Successful.
Headset>
Remote Device Properties Changed.
BD_ADDR: 84DD209C58DD
pevice Flags: 0x800001CD
Connect State: TRUE
Headset>
Remote Device Properties Changed.
IBD_ADDR: 84DD209CSBDD
Device Flags: 0x800001DD
Lecrypt State: IRUE
Headset>
merubsconnectionstatus, bu_Abuk: 8400209CS800, Type: SctHeadset, Status: 0.
ineduser/
Mechants du Audre de Canada de C
nicaust/ hotHDSC/papartad_BD_ADDPQADD2AQCSQDDTypacrtHoodcat
headoat

g) In order to Answer a call or Disconnect active call use "SendButtonPress" Command

# Usage: SendButtonPress [BD\_ADDR].

#### Answer Call

\_\_\_\_\_

Headset>SendButtonPress 84DD209C58DD HDSM\_Send\_ButtonPress: Function Successful. Headset> Remote Device Properties Changed. BD\_ADDR: 84DD209C58DD COD: 0x1C0424 Headset> Headset> Headset> Headset> Headset> Headset> Headset> Headset>

At the Audio Gateway side (When using another AM335x as a Audio Gateway device) you will see

hetHDSAudioConnected, BD\_ADDR: D03972507A42, Type: sctAudioGateway. Headset> hetHDSAudioConnected, BD\_ADDR: D03972507A42, Type: sctAudioGateway. Headset>

#### **Disconnect Call**

. . . . . . . . . . . . . .

Headset>SendButtonPress 84DD209C58DD HDSM\_Send\_Button\_Press: Function Successful. Headset> hetHDSAudioDisconnected, BD\_ADDR: 84DD209C58DD, Type: sctHeadset Headset> hetHDSAudioDisconnected, BD\_ADDR: 84DD209C58DD, Type: sctHeadset Headset>

At the Audio Gateway side (When using another AM335x as a Audio Gateway device) you will see

hetHDSAudioDisconnected, BD\_ADDR: D03972507A42, Type: sctAudioGateway Headset> hetHDSAudioDisconnected, BD\_ADDR: D03972507A42, Type: sctAudioGateway Headset>

,						,		
Usage: SetSpeakerGain [BD_ADDR] [0 <= SpeakerGain <= 15].								
Usage: SetMicrophoneGain [BD_ADDR] [0 <= MicrophoneGain <= 15].								
i) You can Setup or release your audio connection, by using "ManageAudio" command								
Usage: ManageAudio [BD_ADDR] [Release = 0, Setu	p = 1].							
j) When You finish using the Audio Gateway Device, Use "DisconnectDevice" Command								
Usage: Disconnect [BD_ADDR].								
Headset>DisconnectDevice 84DD209C58DD								
hetHDSDisconnected, BD_ADDR: 84DD209C58DD, Type Headset> hetHDSDisconnected, BD_ADDR: 84DD209C58DD, Type Headset>HosM_Disconnect_Device: Function Succes Headset> Remote Device Properties Changed. BD_ADDR: 84DD209C58DD Device Flags: 0x8000185 Connect State: FALSE Encrypt State: FALSE Headset>	: sctHeadset, Reason: 0. : sctHeadset, Reason: 0. sful.							
Keystor            {               For technical support on MultiCore devices, please post your questions in the C6000 MultiCore Forum               For related to the BIOS MultiCore SDK (MCSDK), please use the BIOS Forum               For related to the article WL18xx TI Bluetooth          Please post only comments related to the article WL18xx TI Bluetooth               Please BIO	ne=       C2000=For         technical       support on         ticCore devices,       the C2000         ase post your       post on         ustions in the       post your         000 MultiCore       questions         um       00 The         questions       C2000         fed to the       Forum.         VS MultiCore       post only         K (MCSDK),       comments         about the       about the         about the       atticle         post only       WL18xx TI         ts related to the       Bluetooth         WL18xx       TI         Stack       HDSM         poend App       here.	MSI DaVinci=For tech technical sup, support on MSI DaVincoplease plea post your you, questions on que Forum. Please Forr post only Please comments only about the corr atticle abo WL18xx TI artito Bluetooth WLT Stack HDSM Blue Demo App Stat here. Dem	P430=For hnical OMAP35x=Fo port on technical P430 support on ase post OMAP please r post your estions on questions on a MSP430 The OMAP um. Forum. Please ase post post only comments about the article cle WL18xx TI 18xx TI Bluetooth etooth Stack HDSM ck HDSM Demo App mo App here. e.	OMAPL1=For technical support on OMAP please post your questions on The OMAP Forum. Please post only comments about the article WL18xx TI Bluetooth Stack HDSM Demo App here.	MAVRK=For technical support on MAVRK please post your questions on The MAVRK Toolbox Forum. Please post only comments about the article WL18xx TI Bluetooth Stack HDSM Demo App here.	For technical su please post you questions at http://e2e.ti.con Please post onl comments abou article WL18xx Bluetooth Stac HDSM Demo A here. }}		
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