

# 问题背景

有些客户产品形态需要支持A2DP-SINK/AVRCP-CT功能。本文主要介绍AndroidO及后续版本如何支持这两个profile。

## 方案配置

- bdroid\_buildcfg.h

主要修改COD、A2DP\_SINK\_SUPPORT及IO\_CAP。请找到当前方案所使用的bdroid\_buildcfg.h文件进行修改，典型修改如下：

```
diff --git a/common/wireless/bluetooth/bdroid_buildcfg.h b/common/wireless/bluetooth/bdroid_buildcfg.h
index cb65952..c8c4522 100644
--- a/common/wireless/bluetooth/bdroid_buildcfg.h
+++ b/common/wireless/bluetooth/bdroid_buildcfg.h
@@ -20,6 +20,7 @@
/*
#define BTM_DEF_LOCAL_NAME    "Generic Bluetooth"
*/
+#define BTM_DEF_LOCAL_NAME "BT-SPEAKER"

@@ -28,7 +29,11 @@
-#define BTA_DM_COD            {0x1A, BTM_COD_MAJOR_COMPUTER, BTM_COD_MINOR_DIGITIZING_TABLET}
+#define BTA_DM_COD            {0x20, BTM_COD_MAJOR_AUDIO, BTM_COD_MINOR_HIFI_AUDIO}

#define BTA_GATT_DEBUG        FALSE

@@ -56,6 +61,7 @@
#define BTA_DM_PAGE_TIMEOUT    8192
-#define BTM_LOCAL_IO_CAPS_BLE    BTM_IO_CAP_KBDISP
+#define BTM_LOCAL_IO_CAPS        BTM_IO_CAP_NONE
+#define BTM_LOCAL_IO_CAPS_BLE    BTM_IO_CAP_NONE

#endif
```

- Bluetooth apk修改

可以直接修改ackages/apps/Bluetooth/res/values/config.xml文件，也可以通过overlay进行修改。典型修改如下：

```
diff --git a/common/overlay/overlay/packages/apps/Bluetooth/res/values/config.xml
b/common/overlay/overlay/packages/apps/Bluetooth/res/values/config.xml
index 5f1fc89..368ed51 100644
```

```

--- a/common/overlay/overlay/packages/apps/Bluetooth/res/values/config.xml
+++ b/common/overlay/overlay/packages/apps/Bluetooth/res/values/config.xml
@@ -14,4 +14,9 @@
-->
<resources>
  <bool name="profile_supported_hearing_aid">false</bool>
+ <bool name="profile_supported_a2dp">false</bool>
+ <bool name="profile_supported_a2dp_sink">true</bool>
+ <bool name="profile_supported_avrcp_target">false</bool>
+ <bool name="profile_supported_avrcp_controller">true</bool>
+ <bool name="a2dp_sink_automatically_request_audio_focus">true</bool>
</resources>

```

#### - avrcp-ct支持

请在product.mk内添加属性配置persist.bluetooth.enablenewavrcp=false：

```

diff --git a/ceres_b4.mk b/ceres_b4.mk
index cf47cc9..8e8641d 100644
--- a/ceres_b4.mk
+++ b/ceres_b4.mk
@@ -26,6 +26,7 @@ PRODUCT_PACKAGES += DragonAtt
PRODUCT_PACKAGES += SoundRecorder

PRODUCT_SYSTEM_DEFAULT_PROPERTIES += \
+ persist.bluetooth.enablenewavrcp=false \
  persist.sys.timezone=Asia/Shanghai \
  persist.sys.country=US \
  persist.sys.language=en

```

#### - IO\_CAP\_NONE支持

原生stack对BTM\_IO\_CAP\_NONE支持有问题，导致即使设置了该配置，还是要求确认PIN码，可按如下方式修改：

```

diff --git a/bta/dm/bta_dm_act.cc b/bta/dm/bta_dm_act.cc
index d1b260c19..265b56a7e 100644
--- a/bta/dm/bta_dm_act.cc
+++ b/bta/dm/bta_dm_act.cc
@@ -238,7 +238,11 @@ const tBTM_APPL_INFO bta_security = {&bta_dm_authorize_cback,
    &bta_dm_new_link_key_cback,
    &bta_dm_authentication_complete_cback,
    &bta_dm_bond_cancel_complete_cback,
+ #if (BTM_LOCAL_IO_CAPS != BTM_IO_CAP_NONE)
    &bta_dm_sp_cback,
+ #else

```

- always discoverable支持

AndroidO之后，默认只有在settings蓝牙设置界面才允许其他设备搜索到该设备，可以通过修改frameworks代码允许蓝牙always discoverable，修改如下：

## 功能测试

- ## 第三块里程碑