**Command API**

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# 1. General Description

This Document describes the current APP command API. We define APP control servicefor the Mobile APP to control device or get information from device.

In section 2, detail about the advertising data format.

In section 3, introduce about the APP service. Including command/response/notify/example.

# 2.BLE Control Service (Control Service)

## 2.1 BLE Service

There is on primary service for the APP BLE control service and 2 characteristics, one is the write channel and the other is notify channel. BLE service also support MTU size up to 247.

Primary service UUID: **436F756E-7472-796D-6174-65 001E7C0000**

RX Characteristic:

Property: write with response

UUID: **436F756E-7472-796D-6174-65 001E7C0001**

TX Characteristic

Property: notify

UUID: **436F756E-7472-796D-6174-65 001E7C0002**

## 2.2 Command/Response/Notify

The **Command** was from themobile APP, APP can get some information or set new setting to the device. And devicewill send the **Response** for the command result. Device will send **Notify** to APP when any status has change ondeviceside.

Data transfer role:

|  |  |
| --- | --- |
| Command | APP => Device |
| Response | Device => APP |
| Notify | Device => APP |

Table 2-1:

### 2.2.1 Packet Structure

Following table is the command/response/notify packet structure.

**Boot code：**The command packet structure starts with boot code 0xFF

**Set CMD:** The command from the mobile was a set command, need to set the bit to 1.

**Get CMD:** The command from the mobile was a set command, need to set the bit to 1.

**Notify CMD:** The device status has change and need to notify the mobile app, set the bit to 1.

**Command ID:** Each command has own ID.

**Payload length:** The payload length, command without the payload. Set to 0.

**Payload:** the information about the command.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Offset** |  | **MSB** |  |  |  |  |  |  | **LSB** |
| **Octet** | Bit | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
| **0** | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **1** | 8 | Set CMD | Get CMD | Notify CMD | Reserved | Command ID | | | |
| **2** | 16 | Command ID | | | | | | | |
| **3** | 24 | Payload length | | | | | | | |
| **4** | 32 | Payload | | | | | | | |

Table 2-2:

### 2.2.2 Command response error handing

The set command response header will be the same with set command from APP. Addition 1 byte “Result code” for  
the command status.

The get command response header will be the same with get command from APP.

|  |
| --- |
| **Result code (1 byte)** |
| 0x00: Success  0x01: Not Support  0x02: Disallow  0x03: No Resource  0x04: Format Error  0x05: Parameter Error  0xFF: Fail |

Table 2-3: Result code

# 3. Advertising Data Structure

|  |  |
| --- | --- |
| Manufacturer Specific Data | |
| Byte [0] | Payload length [27] |
| Byte [1] | BLE Type Value [0xFF] |
| Byte [2]  Byte [3] | Assigned by CMT |
| Byte [4]  Byte [5] | Assigned by CMT(include headphone type, e.g. TWS, or stereo) |
| Byte [6] | Byte7-Byte14Take the lower 8 bits of the addition result |
| Byte [7] | Earbud status or color(See Table 3-1) |
| Byte [8] | Classic bluetooth state(See Table 3-2) |
| Byte [9] | Primarybattery level, charging status(See Table 3-3) |
| Byte [10] | Secondarybattery level, charging status(See Table 3-4) |
| Byte [11] | charging case battery level, charging status(See Table 3-5) |
| Byte [12]  Byte [13]  Byte [14] | mobile phone mac address LAP（）  （If no mobile phone is currently paired, all are set to 0） |
| Byte [15] | Primary MAC address NAP（LSB） |
| Byte [16] | Primary MAC address NAP（MSB） |
| Byte [17] | Primary MAC address UAP |
| Byte [18] | PrimaryMAC address LAP（LSB） |
| Byte [19] | PrimaryMAC address LAP（MSB） |
| Byte [20] | PrimaryMAC address LAP（HSB） |
| Byte [21] | BLE advertisement count |
| Byte [22] | SecondaryMAC address NAP（LSB） |
| Byte [23] | SecondaryMAC address NAP（MSB） |
| Byte [24] | SecondaryMAC address UAP |
| Byte [25] | SecondaryMAC address LAP（LSB） |
| Byte [26] | SecondaryMAC address LAP（MSB） |
| Byte [27] | SecondaryMAC address LAP（HSB） |
| Byte [28] | Reserved |
| Byte [29] | Reserved |
| Byte [30] | Reserved |
| Byte [31] | Reserved |

|  |  |  |
| --- | --- | --- |
| Earbud status or color |  | Value |
| Bit7- Bit6 | Reserved  Right earbud connectable mode  Right earbud discoverable mode  Reserved | 0x00  0x01  0x02  0x03 |
| Bit5- Bit4 | Reserved  Left earbud connectable mode  Right earbud discoverable mode  Reserved | 0x00  0x01  0x02  0x03 |
| Bit3- Bit2 | Right earbudcolor1  color2  color3  color4 | 0x00  0x01  0x02  0x03 |
| Bit1- Bit0 | Left earbud color1  color2  color3  color4 | 0x00  0x01  0x02  0x03 |

Table 3-1: Earbud status or color

|  |  |  |
| --- | --- | --- |
| Classic bluetooth state |  | Value |
| Bit7 | Reserved | 0x00 |
| Bit6 | Left and right are connected  Left and right are disconnected | 0x00  0x01 |
| Bit5 | out charging case state  In charging case state | 0x00  0x01 |
| Bit4 | Reserved |  |
| Bit3 | pair list is empty  pair list is not empty | 0x00  0x01 |
| Bit2 | disconnected  connected | 0x00  0x01 |
| Bit1 | charging case is close  charging case is open | 0x00  0x01 |
| Bit0 | Reserved |  |

Table 3-2: Classic Bluetooth state

|  |  |  |
| --- | --- | --- |
| Primary battery level, charging status |  | Value |
| Bit7 | Default  in charging state | 0x00  0x01 |
| Bit6- Bit0 | battery level | 0-100% |

Table 3-3: Primary battery level, charging status

|  |  |  |
| --- | --- | --- |
| Secondary battery level, charging status |  | Value |
| Bit7 | Default  in charging state | 0x00  0x01 |
| Bit6- Bit0 | battery level | 0-100% |

Table 3-4: Secondary battery level, charging status

|  |  |  |
| --- | --- | --- |
| charging case battery level, charging status |  | Value |
| Bit7 | Default  in charging state | 0x00  0x01 |
| Bit6- Bit0 | battery level | 0-100% |

Table 3-5: charging case battery level, charging status

# 4.Command

## Clear pairing history

|  |  |
| --- | --- |
| CommandType | Set CMD |
| Command ID | 0x8001 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x01 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-2) |

Table 4-1: Clear pairing history command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | 0x00 |
| Clear pairing history | 0x01 |

Table 4-2: Clear pairing history

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x01 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-3: Clear pairing history Response Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-4: Clear pairing history Support Matrix

## Device reset to factory settings

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8002 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x02 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-7) |

Table 4-5: Device reset to factory settings commandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | 0x00 |
| Device reset to factory settings | 0x01 |

Table 4-6: Device reset to factory settings

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x02 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-7: Device reset to factory settingsResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-8: Device reset to factory settings Support Matrix

## Set earbud light mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8004 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x04 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-10) |

Table 4-9:Earbud light mode commandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | 0x00 |
| Lamp effect mode 1 | 0x01 |
| Lamp effect mode 2 | 0x02 |
| Lamp effect mode 3 | 0x03 |
| Lamp effect mode 4 | 0x04 |
| Lamp effect mode N | N |

Table 4-10: Earbud light mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x04 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-11: Earbud light modeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-12:Earbud light modeSupport Matrix

## Get earbud light mode

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4004 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x04 |
| Length(Byte[2]) | 0 |

Table 4-13Get earbud light mode commandStructure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x04 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | (See Table 4-14) |

Table 4-14Earbud light modeResponse Structure

## Notificationearbud light mode

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2004 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x04 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Table 4-10 |

**Table 4-15**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-16Earbud light modeSupport Matrix

## Set in-ear detectionswitch

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8005 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x05 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-18) |

Table 4-17:In-ear detectionswitch commandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| Default-ON | 0x01 |

Table 4-18: In-ear detectionswitch

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x05 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-19: In-ear detectionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-20:In-ear detectionSupport Matrix

## Get in-ear detection switch

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4005 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x05 |
| Length(Byte[2]) | 0 |

Table 4-21:In-ear detectionswitchcommandStructure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x05 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Table 4-18 |

Table 4-22: In-ear detectionswitchResponse Structure

## Notification in-ear detection switch

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2005 |
| Datapack | |
| NotifyCMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x05 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Table 4-18 |

Table 4-23: Notificationin-ear detectionswitchStructure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-24:In-ear detectionswitchSupport Matrix

## Set noise cancelling modeand level

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8006 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x06 |
| Length(Byte[2]) | 2 |
| Byte [3] | (SeeTable 4-26) |
| Byte [4] | (See Table 4-26) |

Table 4-25:Noise Cancellingmode and levelcommandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| Default - ANC ON | 0x01 |
| Transparent | 0x02 |
| MODE 1 | 0x03 |
| MODE 2 | 0x04 |
| N | N |
| Byte [4] | Value |
| Noise Cancelling level | Default-100 |

Table 4-26: Noise Cancelling mode and level

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x06 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-23: Noise Cancelling mode and levelResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-27:Noise Cancellingmode and levelSupport Matrix

## Get noise cancelling modeand level

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4006 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x06 |
| Length(Byte[2]) | 0 |

Table 4-28: Getnoise cancellingmodeand level commandStructure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x06 |
| Length (Byte [2]) | 0x02 |
| Byte [3] | See Table 4-26 |
| Byte [4] | See Table 4-26 |

Table 4-29: Get noise cancellingmodeand levelResponse Structure

## Notification noise cancelling modeand level

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2006 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x06 |
| Length (Byte [2]) | 0x02 |
| Byte [3] | See Table 4-22 |
| Byte [4] | See Table 4-22 |

Table 4-30: Notification noise cancelling mode and level

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-31:Noise cancellingmode and levelSupport Matrix

## Set earbud volume

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8007 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x07 |
| Length(Byte[2]) | 1 |
| Byte [3] | SeeTable 4-33 |

Table 4-32:Set earbud volume commandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Mute | 0x00 |
| Set earbud volume | 10 |
| Volume level N | N |

Table 4-33: Set earbud volume

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x07 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-34: Set earbud volumeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-35:Set earbud volumeSupport Matrix

## Get earbud volume

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4007 |
| Datapack | |
| Get CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x07 |
| Length(Byte[2]) | 0 |

Table 4-36:Get earbud volume commandStructure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x07 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | (SeeTable 4-33) |

Table 4-37: Get earbud volumeResponse Structure

## Notification earbud volume

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2007 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x07 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-33 |

**Table 4-38 Notification earbud volume**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-39:Set earbud volumeSupport Matrix

## Set low latency mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8008 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x08 |
| Length(Byte[2]) | 1 |
| Byte [3] | (SeeTable 4-41) |

Table 4-40:Low latency mode commandStructure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default - OFF | 0x00 |
| ON | 0x01 |

Table 4-41: Low latency mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x08 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

**Table 4-42: Low latency modeResponse Structure**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Table 4-43: Low latency mode Support Matrix**

## Get low latency mode

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4008 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x08 |
| Length(Byte[2]) | 0 |

Table 4-44:Low latency mode commandStructure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x08 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | (SeeTable 4-41) |

**Table 4-45: Low latency modeResponse Structure**

## Notification low latency mode

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2008 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x08 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | (SeeTable 4-41) |

**Table 4-46:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-47:Low latency modeSupport Matrix

## Set touch sensitivity

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8009 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x09 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-49) |

Table 4-48: Set touch sensitivity command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Sensitivitylevel N | N |

Table 4-49: Set touch sensitivity

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x09 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-50: Set touch sensitivity Response Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-51: Set touch sensitivity Support Matrix

## Get touch sensitivitylevel

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4009 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x09 |
| Length(Byte[2]) | 0 |

Table 4-52: Get touch sensitivity level command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x09 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-49 |

Table 4-53: Get touch sensitivity level Response Structure

## Notification touch sensitivity level

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2009 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x09 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-49 |

**Table 4-54**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-55: Get touch sensitivity Support Matrix

## Set touch teaching mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x800A |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x0A |
| Length(Byte[2]) | 1 |
| Byte [3] | (SeeTable 4-57) |

Table 4-56:Touch test mode command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Exittouch teaching mode | 0x00 |
| Entertouch teaching mode | 0x01 |
| play | 0x02 |
| pause | 0x03 |
| PREV | 0x04 |
| Next | 0x05 |
| N | N |

Table 4-57: Touch test mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x0A |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-58: Touch Test ModeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-59: Touch test mode Support Matrix

## Set enter OTA mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x800B |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x0B |
| Length(Byte[2]) | 1 |
| Byte [3] | (SeeTable 4-61) |

Table 4-60:Set enter OTA mode command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | 0x00 |
| OTA Mode | 0x01 |

Table 4-61: Set enter OTA mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x0B |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-62: Set enter OTA modeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-63: Set enter OTA mode Support Matrix

## Get enter OTA modestatus

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x400B |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x0B |
| Length(Byte[2]) | 0 |

Table 4-64:Get enter OTA modestatuscommand Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x0B |
| Length (Byte [2]) | 0x01 |
| Byte [3] | (See Table 4-61) |

Table 4-65: Get enter OTA modeStatusResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-66: Get enter OTA modeStatus Support Matrix

## Set time synchronization

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x800C |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x0C |
| Length(Byte[2]) | 3 |
| Byte [3]- Byte [5] | (SeeTable 4-68) |

Table 4-67: time synchronization command Structure

|  |  |
| --- | --- |
| Byte [3]- Byte [5] | Value |
| Second | 0x00 |
| Minute | 0x01 |
| Hour | 0x02 |

Table 4-68: time synchronization

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x0C |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-67: time synchronizationResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-69: time synchronization Support Matrix

## Set touch function switch

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x800D |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x0D |
| Length(Byte[2]) | 1 |
| Byte [3] | (SeeTable 4-71) |

Table 4-70: Touch function switch command Structure

|  |  |
| --- | --- |
| Touch function switch | Value |
| Enable touchfunction | 0x00 |
| Disable touchfunction | 0x01 |

Table 4-71: Touch function switch

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x0D |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-72: Touch function switchResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-73: Touch function switch Support Matrix

## Get touch function switch

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x400D |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x0D |
| Length(Byte[2]) | 0 |

Table 4-72: Touch function switch command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x0D |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-71 |

Table 4-73: Touch function switchResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-74: Touch function switch Support Matrix

## Getearbudmacaddress

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x400F |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x0F |
| Length(Byte[2]) | 0 |

Table 4-75: Get earbud mac address command Structure

|  |  |
| --- | --- |
| Get earbud mac address | Value |
| MAC address NAP | Byte [3] |
| MAC address NAP | Byte [4] |
| MAC address UAP | Byte [5] |
| MAC address LAP | Byte [6] |
| MAC address LAP | Byte [7] |
| MAC address LAP | Byte [8] |

Table 4-76: Get earbud mac address

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x0F |
| Length (Byte [2]) | 0x06 |
| Byte [3] - Byte [8] | See Table 4-76 |

Table 4-77: Get earbud mac addressResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-78: Get earbud mac address Support Matrix

## Set left and right channel balance

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8010 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x10 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-80) |

Table 4-79: Left and right channel balance command Structure

|  |  |
| --- | --- |
| Left and right channel balance | Value |
| Volume level | N |

Table 4-80: Left and right channel balance

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x10 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-81: Left and right channel balanceResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-82: Left and right channel balance Support Matrix

## Get left and right channel balance

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4010 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x10 |
| Length(Byte[2]) | 0 |

Table 4-83: Left and right channel balance command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x10 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-80 |

Table 4-84: Left and right channel balanceResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-85: Left and right channel balance Support Matrix

## Set multipoint switch

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8011 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x11 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-87 |

Table 4-86: Set multipoint switch command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0x01 |

Table 4-87: Setmultipoint switch

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x11 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-88:Set multipoint switch Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-89: Setmultipoint switch Support Matrix

## Get multipoint switch

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4011 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x11 |
| Length(Byte[2]) | 0 |

Table 4-90: Get multipoint switch command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x11 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-87 |

Table 4-91:Getmultipoint switch Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-92:Getmultipoint switch Support Matrix

## Change device name

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8012 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x12 |
| Length(Byte[2]) | N |
| Byte [3]-Byte[N] | (SeeTable 4-94) |

Table 4-93: Change device name command Structure

|  |  |
| --- | --- |
| Byte [3]-Byte[N] | Value |
| Device Name | Byte [3]-Byte[N]  UTF8-encoded string |

Table 4-94: Change device name

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x12 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-95: Change device name Response Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-96: Change device name Support Matrix

## Get device name

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4012 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x12 |
| Length(Byte[2]) | 0 |

Table 4-97: Change device name command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x12 |
| Length (Byte [2]) | 0x01 |
| Byte [3]-Byte[N] | See Table 4-94 |

Table 4-98: Change device name Response Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-99: Change device name Support Matrix

## Start switching of voice prompt

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8013 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x13 |
| Length(Byte[2]) | N |
| Byte [3] - Byte[N] | (See Table 4-101) |

Table 4-100:Start switching of voice prompt command Structure

|  |  |
| --- | --- |
| Byte [3]- Byte[N] | Value |
| Byte [3]- Byte[N] | N |

Table 4-101: Start switching of voice prompt

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x13 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-102: Start switching of voice promptResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-103: Start switching of voice prompt Support Matrix

## Get identifier of voice prompt

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4013 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x13 |
| Length(Byte[2]) | 0 |

Table 4-104: Get identifier of voice prompt command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x13 |
| Length (Byte [2]) | N |
| Byte [3]- Byte [N] | Assigned by CMT |

Table 4-105: Get identifier of voice promptResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-106: Get identifier of voice prompt Support Matrix

## Get audio codec format

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4015 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x15 |
| Length(Byte[2]) | 0 |

Table 4-107: Get audio codec formatcommand Structure

|  |  |
| --- | --- |
| Data | Value |
| Default | 0x00 |
| SBC | 0X01 |
| AAC | 0X02 |
| APTX | 0X03 |
| APTX-HD | 0X04 |

Table 4-108: Get audio codec format

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x15 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-108 |

Table 4-109:Get audio codec formatResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-110: Get audio codec format Support Matrix

## Set volume level of voice prompt

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8016 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x16 |
| Length(Byte[2]) | 1 |
| Byte [3] | (See Table 4-112) |

Table 4-111: Set volume level of voice promptcommand Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Volume level N | N |

Table 4-112:Set volume level of voice prompt

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x16 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-113: Set volume level of voice promptResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-114: Set volume level of voice prompt Support Matrix

## Get volume level of voice prompt

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4016 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x16 |
| Length(Byte[2]) | 0 |

Table 4-115: Get volume level of voice promptcommand Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x16 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-112 |

Table 4-116: Get volume level of voice promptResponse Structure

## Notification volume level of voice prompt

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2016 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x16 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-112 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-117: Get volume level of voice prompt Support Matrix

## Set shutdown time

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8017 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x17 |
| Length(Byte[2]) | 4 |
| Byte [3] | (SeeTable 4-119) |
| Byte [4] | (SeeTable 4-119) |

Table 4-118: Set shutdown time command Structure

|  |  |
| --- | --- |
|  | Value |
| shutdown time Byte [3] - Byte [4] | Minutes |
| remaining time Byte [5] - Byte [6] | Minutes |

Table 4-119: Set shutdown time

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x17 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-120: Set shutdown timeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-121: Set shutdown time Support Matrix

## Get shutdown time

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4017 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x17 |
| Length(Byte[2]) | 0 |

Table 4-122: Get shutdown time command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x17 |
| Length (Byte [2]) | 0x04 |
| Byte [3]- Byte [4] | See Table 4-119 |
|  |  |

Table 4-123: Get shutdown timeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-120: Get shutdown time Support Matrix

## Set camera switch

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8018 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x18 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-125 |

Table 4-124: Get camera switch command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0X01 |

Table 4-125: Get camera switch

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x18 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-126: Get camera switchResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-127: Get camera switch Support Matrix

## Get Camera switchstate

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4018 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x18 |
| Length(Byte[2]) | 0 |

Table 4-128: Get camera switch state command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x18 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Table 4-125 |

Table 4-129: Get camera switch stateResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-130: Get camera switch state Support Matrix

## Set standby time

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8019 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x19 |
| Length(Byte[2]) | 2 |
| Byte [3] | (SeeTable 4-132) |
|  |  |

Table 4-131: Set standby time command Structure

|  |  |
| --- | --- |
| Byte [3] - Byte [4] | Value |
| Byte [3] - Byte [4] | minutes |

Table 4-132: Set standby time

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x19 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-133: Set standby timeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-134: Set standby time Support Matrix

## Get standby time

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4019 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x19 |
| Length(Byte[2]) | 0 |

Table 4-135: Get standby time command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x19 |
| Length (Byte [2]) | 0x02 |
| Byte [3]-Byte[4] | SeeTable 4-132 |

Table 4-136: Get standby timeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-137: Get standby time Support Matrix

## Set EQ mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x801A |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x1A |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-139 |

Table 4-138: Set EQ modecommand Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | EQ1-0x21 |
| User-defined EQ | 0x01 |
| Vokalen Sound 1 | 0x11 |
| Vokalen Sound 2 | 0x12 |
| Vokalen Sound 3 | 0x13 |
| Vokalen Sound N | 0x13+N |
| EQ1 | 0x21 |
| EQ2 | 0x22 |
| EQ3 | 0x23 |
| EQ-N | 0x23+N |

Table 4-139: Set EQ mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x1A |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-140: Set EQ modeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-141: EQ setting Support Matrix

## Get EQ mode

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x401A |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x1A |
| Length(Byte[2]) | 0 |

Table 4-142: Get EQ mode command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x1A |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Table 4-139 |

Table 4-143: Get EQ modeResponse Structure

## Notification EQ mode

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x201A |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x1A |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-139 |

Table 4-144

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-145: Get EQ mode Support Matrix

## Set user defined EQ

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x801B |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x1B |
| Length(Byte[2]) | N |
| Byte [3]-Byte[N] | See Table 4-147 |

Table 4-146: Set user defined EQ command Structure

|  |  |
| --- | --- |
| Data | Value |
| Byte [3]-Byte[22] | N |

Table 4-147: Set user defined EQ

**Example：**

Master Gain\*100、IIR TYPE 、freq、Gain \* 100、Q\*100

Master Gain=1、NUM=5 、[IIR TYPE=1, freq=32, Gain=2, q=0.5]、[IIR TYPE=2, freq=64,Gain=3,q=0.8]

Byte [4]-Byte[N]: 00 64 05 01 00 20 00 C8 00 32 02 00 40 00 2C 01 50 00

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x1B |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-148: Set user defined EQ Response Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-149: Set user defined EQ Support Matrix

## Get user defined EQ

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x401B |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x1B |
| Length(Byte[2]) | 0 |

Table 4-150: Get user defined EQ command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x1B |
| Length (Byte [2]) | N |
| Byte [3] | Table 4-147 |

Table 4-151: Get user defined EQResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-152: Get user defined EQ Support Matrix

## Sendsmusic event

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x801C |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x1C |
| Length(Byte[2]) | 1 |
| Byte [3] | SeeTable 4-153-1 |

Table 4-153: Music event command Structure

|  |  |
| --- | --- |
| Music feature event | Value |
| Default | 0x00 |
| Play | 0x01 |
| Pause | 0x02 |
| PREV | 0x03 |
| Next | 0x04 |
| N | N |

Table 4-153-1: Music event

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x1C |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-154: Music eventResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-155: Music event Support Matrix

## Sends call event

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x801D |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x1D |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-156-1 |

Table 4-156: Call event command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| answer | 0x00 |
| Hangup | 0x01 |
| Reject | 0x02 |

Table 4-156-1: Call event

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x1D |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-157: Call eventResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-158: Call eventSupport Matrix

## Sends button event

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x801E |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x1E |
| Length(Byte[2]) | 1 |
| Byte [3] | SeeTable 4-160 |

Table 4-159: Sends button event command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| click | 0x00 |
| double-click | 0x01 |
| N | N |

Table 4-160: Sends button event

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x1E |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-161: Sends button eventResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-163: Sends button event Support Matrix

## Get battery level

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x401F |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x1F |
| Length(Byte[2]) | 0 |

Table 4-170: Get battery level command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x1F |
| Length (Byte [2]) | 0x03 |
| Byte [3] | (See Table 3-3) |
| Byte [4] | (See Table 3-4) |
| Byte [5] | (See Table 3-5) |

Table 4-171: Get battery levelResponse Structure

## Notification battery level

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x201F |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x1F |
| Length (Byte [2]) | 0x03 |
| Byte [3] | (See Table 3-3) |
| Byte [4] | (See Table 3-4) |
| Byte [5] | (See Table 3-5) |

**Table 4-172**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-173: Get battery level Support Matrix

## Setlanguage

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8020 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x20 |
| Length(Byte[2]) | 1 |
| Byte [3] | (SeeTable 4-175) |

Table 4-174: Set language command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Default | 0x00 |
| -English | 0x01 |
| 中文 | 0x02 |
| N | N |

Table 4-175: Set language mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x20 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-178: Set languageResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-180: Set language Support Matrix

## Get PCBA Version

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4021 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x21 |
| Length(Byte[2]) | 0 |

Table 4-181: Get PCBA Version command Structure

|  |  |
| --- | --- |
| Example : V 1.2.3 | Value |
| 1 | 0x01 |
| 2 | 0x02 |
| 3 | 0x03 |

Table 4-182: Get PCBA Version

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x21 |
| Length (Byte [2]) | 0x03 |
| Byte [3] – Byte[5] | SeeTable 4-182 |

Table 4-183: Get PCBA VersionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-184: Get PCBA Version Support Matrix

## Get APIversion

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4022 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x22 |
| Length(Byte[2]) | 1 |

Table 4-185: Get API version command Structure

|  |  |
| --- | --- |
| Example : V 1.2.3 | Value |
| 1 | 0x01 |
| 2 | 0x02 |
| 3 | 0x03 |

Table 4-186: Get API version

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x22 |
| Length (Byte [2]) | 0x03 |
| Byte [3] - Byte [5] | Table 4-186 |

Table 4-187: Get API versionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-188: Get API version Support Matrix

## Get sales region

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4023 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x23 |
| Length(Byte[2]) | 0 |

Table 4-189: Get sales region command Structure

|  |  |
| --- | --- |
| Example : | Value |
| Global | 0x00 |
| China | 0x01 |
| N | N |

Table 4-190: Get sales region

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x23 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-190 |

Table 4-191: Get sales regionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-192: Get sales region Support Matrix

## Get chipset info

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4024 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x24 |
| Length(Byte[2]) | 0 |

Table 4-193: Get chipset info command Structure

|  |  |
| --- | --- |
| Chipset info | Value |
| Byte [3] | 1-Qualcomm  2-BES  3- AIROHA |
| Byte [4] | Chip Type |

Table 4-194: Get chipset info

example

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Byte3 Byte4 | 1 | 2 | 3 | N |
| 1 | QCC3071 | QCC3072 |  |  |
| 2 | BES2600IHC | BES2700H |  |  |
| 3 |  |  |  |  |
| N |  |  |  |  |

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x24 |
| Length (Byte [2]) | 0x02 |
| Byte [3] - Byte[N] | See Table 4-194 |

Table 4-195: Get chipset infoResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-196: Get chipset info Support Matrix

## Set side tone control status

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8025 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID(Byte[1]) | 0x25 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-190 |

Table 4-197: Set side tone control status command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0X01 |

Table 4-198: Set side tone control status

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x25 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-199: Set side tone control statusResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-200: Set side tone control status Support Matrix

## Get side tone control status

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4025 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x25 |
| Length(Byte[2]) | 0 |

Table 4-201: Get side tone control status command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x25 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-198 |

Table 4-202: Get side tone control statusResponse Structure

## Notification side tone control status

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2025 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x25 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-198 |
|  |  |

**Table 4-203**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-204: Get side tone control status Support Matrix

## Set standby mode actively

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8026 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x26 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-206 |

Table 4-205: Set standby mode actively command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0X01 |

Table 4-206: Set standby mode actively

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x26 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-207: Set standby mode activelyResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-208: Set standby mode actively Support Matrix

## Get standby mode actively

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4026 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x26 |
| Length(Byte[2]) | 0 |

Table 4-209:Get standby mode actively command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x26 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-206 |

Table 4-210: Get standby mode activelyResponse Structure

## Notification standby mode actively

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2026 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x26 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-206 |
|  |  |

**Table 4-211**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-212: Get standby mode actively Support Matrix

## Set keys redefinition

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8027 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x27 |
| Length(Byte[2]) | 4 |
| Byte [3] | See Table 4-206 |

Table 4-213: Set keys redefinition command Structure

|  |  |
| --- | --- |
| data | Envent Value |
|  |  |
| Byte[3] | L /R earbud |
| Byte[4] | MFB/VOL KEY… |
| Byte[5] | 单击/双击/三击/长按… |
| Byte[6] | PLAY/PAUSE.... |
|  |  |

Table 4-214: Set keys redefinition

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x27 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-215: Set keys redefinitionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-216: Set keys redefinition actively Support Matrix

## Get keys redefinition

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4027 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x27 |
| Length(Byte[2]) | 0 |

Table 4-217: Get keys redefinition command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x27 |
| Length (Byte [2]) | 4 |
| Byte [3] | See Table 4-214 |

Table 4-218: Get keys redefinitionResponse Structure

## Notification keys redefinition

|  |  |
| --- | --- |
| Command Type | Notify CMD |
| Command ID | 0x2027 |
| Datapack | |
| Notify CMD(Byte [0]) | 0x20 |
| ID (Byte [1]) | 0x27 |
| Length (Byte [2]) | 4 |
| Byte [3] | See Table 214 |
|  |  |

**Table 4-218-1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-219: keys redefinition Support Matrix

## Set Voice Noise Reduction Mode

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8028 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x28 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-221 |

Table 4-220: Set Voice Noise Reduction Mode command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| default | 0x00 |
| Mode1 | 0X01 |
| N | N |

Table 4-221: Set Voice Noise Reduction Mode

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x28 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-222: Set Voice Noise Reduction ModeResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-223: Set Voice Noise Reduction Mode Support Matrix

## Get Voice Noise Reduction Mode

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4028 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x28 |
| Length(Byte[2]) | 0 |

Table 4-224:Get Voice Noise Reduction Mode command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x28 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-221 |

Table 4-225: Get Voice Noise Reduction ModeResponse Structure

## Get firmware version

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4029 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID(Byte[1]) | 0x29 |
| Length(Byte[2]) | 0 |

Table 4-164: Get firmware version command Structure

|  |  |
| --- | --- |
| Example V1.2.3 | Value |
| 1 | 0X01 |
| 2 | 0X02 |
| 3 | 0X03 |

Table 4-167: Get firmware version

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x29 |
| Length (Byte [2]) | 0x03 |
| Byte [3] | See Table 4-167 |

Table 4-168: Get firmware versionResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-169: Get firmware version Support Matrix

## Getproduct info

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4030 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x30 |
| Length(Byte[2]) | 0 |

Table 4-226:Getproduct info command Structure

|  |  |
| --- | --- |
| product info | Value |
| model number | Byte 3 – Byte 10 |
| serial number | Byte 10 – Byte N |

Table 4-227: Getproduct info

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x30 |
| Length (Byte [2]) | N |
| Byte [3] | See Table 4-227 |

Table 4-228: Voice Noise Reduction ModeResponse Structure

## Set voice assistantControl

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8031 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x31 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-221 |

Table 4-229: Set voice assistant command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0x01 |

Table 4-230: Set voice assistantcontrol

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x31 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-231: Set voice assistantResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-232: Set voice assistant Support Matrix

## Getvoice assistantControl

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4031 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x31 |
| Length(Byte[2]) | 0 |

Table 4-234:Get voice assistant command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x31 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | See Table 4-230 |

Table 4-235: Getvoice assistantResponse Structure

## Set flashing lights（find my）

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8032 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x32 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-237 |

Table 4-236: Set flashing lights command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0x01 |

Table 4-237: Set flashing lights

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x32 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-238: Set flashing lightsResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-239: Set flashing lights Support Matrix

## Set harsh sound（find my）

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8033 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x33 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-241 |

Table 4-240: Set harsh sound command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| OFF | 0x00 |
| ON | 0x01 |

Table 4-241: Set harsh sound

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x33 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-242: Set harsh soundResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-243: Set harsh soundSupport Matrix

## Set Vokalen Sound

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8034 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x34 |
| Length(Byte[2]) | N |
| Byte [3]-Byte[N] | See Table 4-245 |

Table 4-244: Set Vokalen Sound command Structure

|  |  |
| --- | --- |
| Data | Value |
| Byte [3]  Default | Mode N  0 |
| Byte [4]-Byte[N] | EQ DATA |

Table 4-245: Set Vokalen Sound

**Example：**

Master Gain\*100、IIR TYPE 、freq、Gain \* 100、Q\*100

Master Gain=1、NUM=5 、[IIR TYPE=1, freq=32, Gain=2, q=0.5]、[IIR TYPE=2, freq=64,Gain=3,q=0.8]

Byte [4]-Byte[N]: 00 64 05 01 00 20 00 C8 00 32 02 00 40 00 2C 01 50 00

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x34 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-246: Set Vokalen SoundResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-247: Set Vokalen Sound Support Matrix

## Get Vokalen Sound

|  |  |
| --- | --- |
| Command Type | Get CMD |
| Command ID | 0x4034 |
| Datapack | |
| Get CMD(Byte[0]) | 0x40 |
| ID (Byte[1]) | 0x34 |
| Length(Byte[2]) | 0 |

Table 4-248: Get Vokalen Sound command Structure

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x40 |
| ID (Byte [1]) | 0x34 |
| Length (Byte [2]) | 1 |
| Byte [3] | MODE N |

Table 4-249: Get Vokalen SoundResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-250: Get Vokalen Sound Support Matrix

## Restore default settings

|  |  |
| --- | --- |
| Command Type | Set CMD |
| Command ID | 0x8035 |
| Datapack | |
| Set CMD(Byte[0]) | 0x80 |
| ID (Byte[1]) | 0x35 |
| Length(Byte[2]) | 1 |
| Byte [3] | See Table 4-252 |

Table 4-251: Restore default settings command Structure

|  |  |
| --- | --- |
| Byte [3] | Value |
| Restore default settings | 0x01 |
|  |  |

Table 4-252: Restore default settings

**Response Structure**

|  |  |
| --- | --- |
| Datapack | |
| Response CMD(Byte [0]) | 0x80 |
| ID (Byte [1]) | 0x35 |
| Length (Byte [2]) | 0x01 |
| Byte [3] | Result code(See Table 2-3) |

Table 4-253: Restore default settingsResponse Structure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supported models** | | | | | | | |
| 001 | 013 | 018 |  |  |  |  |  |
| ⚫ | ⚫ | ⚫ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Table 4-254: Restore default settings Support Matrix