

AI



:RecNow

-
- 20241015





20241015



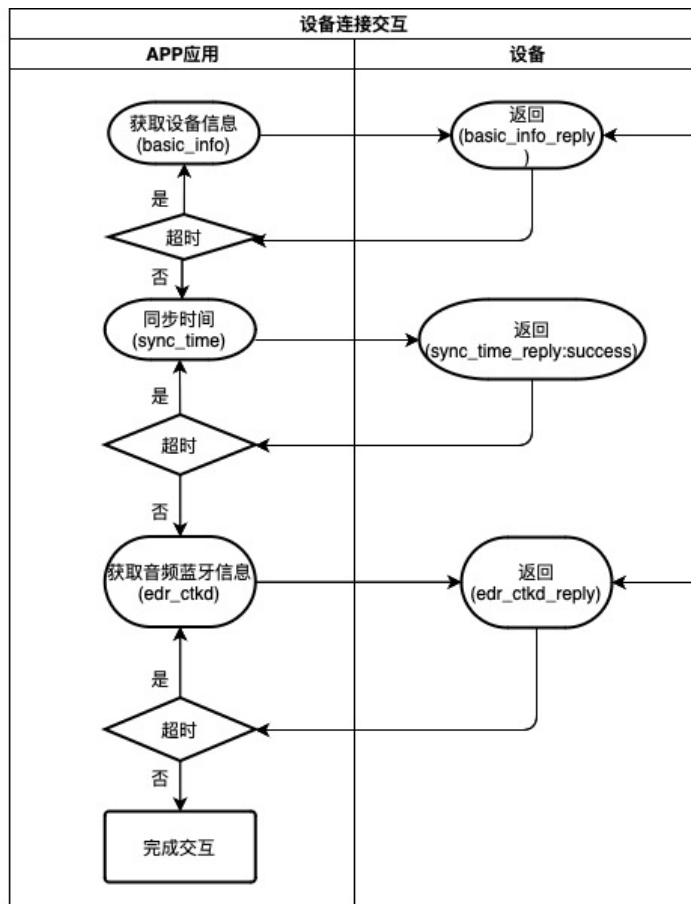
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"sw_version": 软件版本号 (string)
"battery": 电量 (string)
"rec_led": 录音灯 (string)
"rec_mode": 录音模式 自动/手动 (string)
"language": 语言 (string)
"sd_total": 总数目 (int)
"sd_capacity": sd卡剩余容量 (int) (MB)
"usb_otg": usb状态
"total_capacity": sd卡总容量 (int) (不含文件系统的容量)(MB)

"edr_name": 音频蓝牙名称
"mac_addr": mac地址
"connect_state": 音频蓝牙连接状态

超时重发一般重发一次

□□□□□□

APP端

蓝牙设备端

Step1:发送获取设备信息指令

```
{
  "method": "get",
  "id": "10002",
  "ver": "2.27",
  "data": "basic_info"
}
```

设备应答:

```
{
  "method": "basic_info_reply",
  "id": "10002",
  "ver": "V2.27",
  "data": [{"sw_version": "V2.27"}, {"battery": "80"},
  {"rec_led": "open"},
  {"rec_mode": "rec_head"},
  {"language": "EN"},
  {"sd_total": 9},
  {"sd_capacity": 981712},
  {"usb_otg": "open"},
  {"total_capacity": 1024}],
  "error": []
}
```

Step2:发送同步时间指令

```
{
  "method": "set",
  "id": "10003",
  "ver": "2.27",
  "data": {
    "sync_time": "20241030090047"
  }
}
```

设备应答:

```
{
  "method": "sync_time_reply",
  "id": "10003",
  "ver": "V2.27",
  "data": [{"sync_time": "success"}],
  "error": []
}
```

Step3: 获取BT信息

```
{
  "method": "get",
  "id": "10004",
  "ver": "2.27",
  "data": "edr_ctkd"
}
```

设备应答:

```
{
  "method": "edr_ctkd_reply",
  "id": "10004",
  "ver": "V2.27",
  "data": [{"edr_name": "RecNow8d8e8f"},
  {"mac_addr": "8a8b8c8d8e8f"},
  {"connect_state": "connected"}],
  "error": []
}
```



UUID

4.1 数据写入

- APP数据写入
uuid: 00010203-0405-0607-0809-0A0B0C0D2B16
操作 WRITE|WRITE_WITHOUT_RESPONSE
服务 service:00010203-0405-0607-0809-0A0B0C0D1911
- 设备数据 APP数据
uudi 00010203-0405-0607-0809-0A0B0C0D2B17
操作 READ|NOTIFY
服务 service:00010203-0405-0607-0809-0A0B0C0D1911

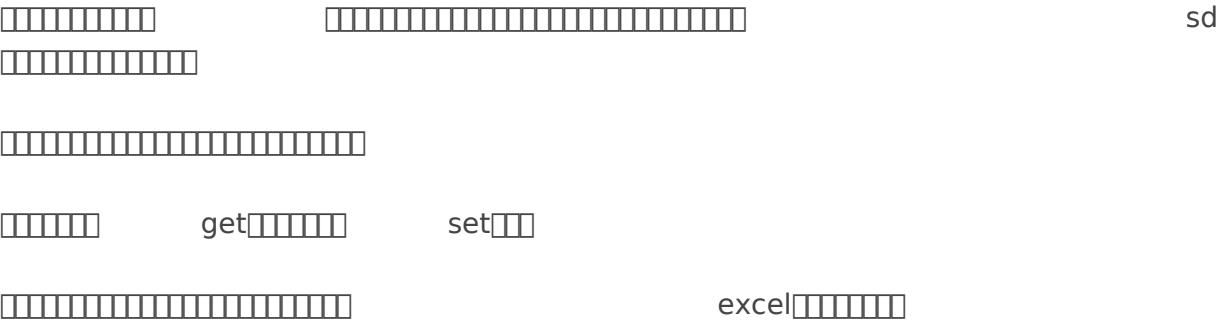
4.2 数据写入

- 设备数据 APP数据
uuid:00010203-0405-0607-0809-0A0B0C0D2B18
操作 READ|NOTIFY
服务 service 00010203-0405-0607-0809-0A0B0C0D1913

4.3 数据写入

- 设备数据 APP数据
uuid: 00010203-0405-0607-0809-0A0B0C0D2B22
操作 READ|NOTIFY
服务 service 00010203-0405-0607-0809-0a0b0c0d1913

5 数据交互



5.1 get数据

app数据

```
{
  "method": "get",
  "id": "123",
  "ver": "1.0",
  "data": "battery"
}
```

- method: "get" [00000000]
- id: [00000000] id [0000000000000000] id [000000]
- ver: [00000000]
- data [0000] key [0] battery [0000]

[00000000]

```
{
  "method": "battery_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    { "battery": "100" }
  ],
  "error": []
}
```

- method: xxxx_reply, xxxx [000000] key [0]
- id: [00000000] id [0000000000000000] id [000000]
- ver: [00000000]
- data [0000] key [0] value [0] battery [0000000000000000]
- error [0] [00000000]

5.2 set [000000]

app [000000]

```
{
  "method": "set",
  "id": "456",
  "ver": "1.0",
  "data": { "mic_status": "open" }
}
```


- method: "set"xxxxxxxx
- id:xxxxxx idxxxxxxxxxxxxxx idxxxx
- ver: xxxxxxx
- dataxxx key mic_statusxxxxxxxx "open"xx "close"xx

xxxxxxxx

```
{
  "method": "mic_status_reply",
  "id": "456",
  "ver": "1.0",
  "data":[
    {"mic_status":"success"}
  ],
  "error":[]
}
```

- method: xxxx_reply,xxxxxxxxxx key
- id:xxxxxx idxxxxxxxxxxxxxx idxxxx
- ver: xxxxxxx
- dataxxx key mic_statusxxxxxxxx "success"xxxxxxxx "xx "
- error xxxxxxx

5.3 xxxxx

name	key	value	type	get	set
xxxx	battery	xxxxxxxx x	string	✓	x
xxxxxxx	sync_time	xxxxxx YYYYMMDDHHMM Mxxxxxx "20230801113301"	string	x	✓
xxxxxxx	cur_time	xxxxxxxx xxxxxx "20230801113301"	string	✓	x
xxxxxxx x	mic_status	"open"xx ,"close"xx	string	✓	✓
xx ibeaconxx	cur_ibeacon_id	xx "6" xxxx 6	string	✓	x

name	key	value	type	get	set
固件版本	sw_version	固件 "1.0" 版本号 1.0	string	✓	x
录音状态	rec_status	固件 "rec_start" 开始录音 "rec_start" 录音中	string	✓	x
录音模式	rec_mode	固件 "rec_auto" 录音模式 "rec_head" 录音头	string	✓	✓
SD卡容量	sd_capacity	固件 "490" 容量 490MB	string	✓	x
录音灯 开关	rec_led	"open"打开 ,"close"关闭	string	✓	✓
固件	cur_rec_state	固件状态 :"live" 录音中 : :"phone_in"电话 :"phone_out"电话 固件 "bt_music" 固件 null	string	✓	x
自动更新	auto_update	"open"打开 ,"close"关闭	string	✓	✓
usb接口	usb_otg_status	"open"打开 ,"close"关闭	string	✓	✓

6. 固件

固件版本

固件 APP

6.1 固件

app

```
{  
  "method": "get",  
}
```

```
"id": "123",
"ver": "1.0",
"data":"basic_info"
}
```

- method: 0000 "get"0
- id:00000000 id0000000000000000 id000000
- ver: 00000000
- data0000 "basic_info"0

000000000000

```
{
  "method": "basic_info_reply",
  "id": "123",
  "ver": "1.0",
  "data":
  [
    {"sw_version":"1.0"},
    {"battery":"100"},
    {"rec_led":"open"},
    {"rec_mode":"rec_auto"},
    {"language":"EN"},
    {"sd_total":65},
    {"sd_capacity":"490"}
    {"usb_otg":"open"}
    {"total_capacity":"512"}
  ]
  "error":[]
}
```

- method0000 "basic_info_reply"
- id:00000000 id0000000000000000 id000000
- ver: 00000000
- error0 00000000
- data:
 - sw_version: 0000
 - battery: 00
 - rec_led: led000
 - rec_mode: 000000
 - language: 00000000
 - sd_total: sd000000

- sd_capacity: 1024 MB
- usb_otg: 1 usb 1024 MB
- total_capacity: 1024 MB

6.2 1 SD 1024 MB

1024 MB 1024 MB

app 1024 MB

1024 MB 1024 MB

```
{
  "method": "get",
  "id": "123",
  "ver": "1.0",
  "data":{"sd_list":1}
}
```

- method: 1 "get"
- id:1024 id 1024 id 1024
- ver: 1024
- data1024 {"sd_list":1} 1024 1024

1024 MB

```
{
  "method":"sd_list_reply",
  "id":"123",
  "ver":"1.0",
  "data":[
    {"total":56}

    {"id":1,"size":512,"name":"320030003200330030003900300031003000390035003000310032002E006D0070003300"},

    {"id":2,"size":512,"name":"320030003200330030003900300031003000390035003000310033002E006D0070003300"},

    {"id":3,"size":512,"name":"320030003200330030003900300031003000390035003000310034002E006D0070003300"},
  ]
}
```

```

{"id":4,"size":512,"name":"320030003200330030003900300031003000390035003000310035002E006D00700
03300"},

{"id":5,"size":512,"name":"320030003200330030003900300031003000390035003000310036002E006D0070
003300"},

{"id":6,"size":512,"name":"320030003200330030003900300031003000390035003000310037002E006D00700
03300"},

{"id":7,"size":512,"name":"320030003200330030003900300031003000390035003000310038002E006D00700
03300"},

{"id":8,"size":512,"name":"320030003200330030003900300031003000390035003000310039002E006D00700
03300"},

{"id":9,"size":512,"name":"320030003200330030003900300031003000390035003000320030002E006D00700
03300"},

{"id":10,"size":512,"name":"320030003200330030003900300031003000390035003000320031002E006D0070
003300"},
"error":[]
}

```

10 (total/10+1) 0

- method "sd_list_reply"
 - id: id id
 - ver:
 - error:
 - data:
 - id:
 - size:
 - name: ,utf8
- "320030003200330030003900300031003000390035003000310032002E006D0070
003300" 20230901095012.mp3 3200 2,3000 0,2E00
.,6D00 m, 7000 p

6.3

app

```
{
  "method": "get",
  "id": "123",
  "ver": "1.0",
  "data": "edr_ctkd"
}
```

- method: 4 "get"
- id: 4 id 16 id 4
- ver: 4
- data: 4 "edr_ctkd"

8

```
{
  "method": "edr_ctkd_reply",
  "id": "123",
  "ver": "1.0",
  "data":
  [
    {"edr_name": "RecNow616c"},
    {"mac_addr": "ae92afd2616c"},
    {"connect_state": "connected"}
  ],
  "error": []
}
```

- method: 4 "edr_ctkd_reply"
- id: 4 id 16 id 4
- ver: 4
- error: 4
- data:
 - edr_name 8, 8 4 mac 4
 - mac_addr 8 mac 4
 - connect_state 16 "connected"/"disconnected"

6.4 6 SD 6 (4)

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXX

sdXXXX app

XXXXXXXXXXXXXXXXXXXX

6.5 向 "XXXX" 发送 SDXXXX

appXXXX

```
{
  "method": "set",
  "id": "123",
  "ver": "1.0",
  "data": {
    "sd_del_name": "20240605105111.MP3"
  }
}
```

- method: XXX "set"
- id: XXXX idXXXXXXXXXXXX idXXXX
- ver: XXXXXX
- data
 - sd_del_nameXXXX
 - 20240605105111.MP3XXXX SDXXXX "MP3XXXX"

XXXXXXXXXXXX

```
{
  "method": "sd_del_name_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    {"sd_del_name": "success"}
  ],
  "error": []
}
```

- methodXXXX "sd_del_name_reply"
- id: XXXXXX idXXXXXXXXXXXX idXXXX
- ver: XXXXXX
- error[] XXXXXXX

- data:
 - sd_del_name[4] ,success[4]

6.6 设置 SD

设置 sd

app

```
{
  "method": "set",
  "id": "123",
  "ver": "1.0",
  "data": "sd_format"
}
```

- method: 设置 "set"
- id: 123 id 123 id 123
- ver: 1.0
- data: sd_format

sd_format

```
{
  "method": "sd_format_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    { "sd_format": "success" }
  ],
  "error": []
}
```

- method: sd_format_reply
- id: 123 id 123 id 123
- ver: 1.0
- error: []
- data:
 - sd_format[4] ,success[4]




6.7 设置

app[][][][][][][]

```
{
  "method": "s_begin_rec",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: `[]` "s_begin_rec"
- id: `[]` id `[]` id `[]`
- ver: `[]`
- params `[]`

[illegible]

 APP 00010203-0405-0607-0809-0A0B0C0D2B18


```
{
  "method": "e_rec_start",
  "id": "123",
  "ver": "1.0",
  "params": [{"rec_state": "live"}]
}
```

- method: "e_rec_start"
- id: id id id
- ver:
- error:
- params:
 - rec_state live phone_in phone_out null

6.8

--	--	--	--

app[][][][][][][]

```
{
  "method": "s_stop_rec",
  "id": "123",
```

```
"ver": "1.0",  
"params":[]  
}
```

- method: "s_stop_rec"
- id: id id
- ver:
- params

```
{  
  "method": "e_rec_stop",  
  "id": "123",  
  "ver": "1.0",  
  "params":[]  
}
```

- method "e_rec_stop"
- id: id id
- ver:
- error
- params:

6.9

app

```
{  
  "method": "s_recover",  
  "id": "123",  
  "ver": "1.0",  
  "params":[]  
}
```

- method: "s_recover"
- id: id id
- ver:
- params

```
{
  "method": "s_recover_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    {"s_recover": "suceess"}
  ],
  "error": []
}
```

- method: `s_recover_reply`
- id: `123` id: `123` id: `123`
- ver: `1.0`
- error: `[]`
- data: `{ "s_recover": "suceess" }`

6.10 `s_reset`

app: `s_reset`

```
{
  "method": "s_reset",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: `s_reset`
- id: `123` id: `123` id: `123`
- ver: `1.0`
- params: `[]`

`s_reset_reply`

```
{
  "method": "s_reset_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    {"s_reset": "suceess"}
  ]
}
```

```

    ],
    "error":[]
}

```

- method[] "s_reset_reply"
- id:[] id[] id[]
- ver: []
- error[] [] key
- data:{"s_reset":"suceess"}[]

6.11 []

app[]

```

{
  "method":"s_ble_disconnect",
  "id": "123",
  "ver": "1.0",
  "data":[]
}

```

- method: [] "s_ble_disconnect"
- id:[] id[] id[]
- ver: []
- data[]

[]

```

{
  "method":"s_ble_disconnect_reply",
  "id": "123",
  "ver": "1.0",
  "params":[]
}

```

- method[] "s_ble_disconnect_reply"
- id:[] id[] id[]
- ver: []
- error[] [] key
- params:{"s_reset":"suceess"}[]

6.12 请求

app 请求

```
{
  "method": "s_remove_binding",
  "id": "123",
  "ver": "1.0",
  "data": []
}
```

- method: 请求 "s_remove_binding"
- id: 请求 id 请求 id
- ver: 版本
- data: 数据

响应

```
{
  "method": "s_remove_binding_reply",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: 响应 "s_remove_binding_reply"
- id: 请求 id 请求 id
- ver: 版本
- error: 错误 key
- params: 参数

6.13 响应

app 响应

```
{
  "method": "s_dut_test_mode",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: [] "s_dut_test_mode"
- id: [] id [] id []
- ver: []
- params []

```
{
  "method": "s_dut_test_mode_reply",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: "s_dut_test_mode_reply"
- id: id id id
- ver:
- error: key
- params:

7.

--	--	--	--

 / app

app, app

7.1 | | | | | | | |--|--|--|--|--|--| | | | | | | | |--|--|--|--|--|--|

[illegible]

```
{
  "method": "e_rec_start",
  "id": "123",
  "ver": "1.0",
  "params": [{"rec_state": "live"}]
}
```

- method: 方法 "e_rec_start"
- id: 请求ID id 应用ID id
- ver: 版本号
- params:

APP 请求

```
{
  "method": "e_rec_start_reply",
  "id": "123",
  "ver": "1.0",
  "data": [{"e_rec_start": "success"}],
  "error": []
}
```

- method: 方法 "e_rec_start_reply"
- id: 请求ID id 应用ID id
- ver: 版本号
- data:

7.2 请求

请求ID

应用ID

```
{
  "method": "e_rec_stop",
  "id": "123",
  "ver": "1.0",
  "data": []
}
```

- method: 方法 "e_rec_stop"
- id: 请求ID id 应用ID id
- ver: 版本号
- params:

APP 请求

```
{
  "method": "e_rec_stop_reply",
```

```

    "id": "123",
    "ver": "1.0",
    "data": [{"e_rec_stop": "success"}],
    "error": []
}

```

- method: "e_rec_stop_reply"
- id: id app id
- ver:
- data: {"e_rec_stop": "success"} app

7.3 BLE

APP

APP

APP

```

{
  "method": "e_ble_disconnected",
  "id": "233",
  "ver": "V1.31",
  "data": []
}

```

- method: "e_ble_disconnected"
- id: id app id
- ver:
- data:

APP

```

{
  "method": "e_ble_disconnected",
  "id": "123",
  "ver": "V1.31",
  "data": [{"e_ble_disconnected": "success"}],
  "error": []
}

```


- method: "e_ble_disconnected"
- id: id app id
- ver:
- data: {"e_ble_disconnected": "success"} app
 APP

7.4

 0-100 30

```
{
  "method": "e_battery",
  "id": "123",
  "ver": "1.0",
  "data": [{"e_battery": 100}]
}
```

- method: "e_battery"
- id: id app id
- ver:
- data: {"e_battery": 100} 100

APP

```
{
  "method": "e_battery_reply",
  "id": "123",
  "ver": "1.0",
  "data": [{"e_battery": "success"}],
  "error": []
}
```

- method: "e_battery_reply"
- id: id app id
- ver:
- data: {"e_battery": "success"} app

7.5

XXXXXXXXXX

XXXXXXXXXX

```
{
  "method": "e_bt_connected",
  "id": "233",
  "ver": "V1.31",
  "data": []
}
```

- method: XXX "e_bt_connected"X
- id: XXXXXXXX idX appXXXXXX idXXXXXX
- ver: XXXXXXXX
- dataX {"e_battery":100}XXXXX 100

APPXXXXXXXX

```
{
  "method": "e_bt_connected_reply",
  "id": "123",
  "ver": "1.0",
  "data": [{"e_bt_connected": "success"}],
  "error": []
}
```

- methodXXXX "e_bt_connected_reply"
- id: XXXXXXXX idX appXXXXXX idXXXXXX
- ver: XXXXXXXX
- data: {"e_bt_connected": "success"}XX appXXXXXX

7.6 XXXXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

```
{
  "method": "e_bt_disconnected",
  "id": "233",
  "ver": "V1.31",
```

```
"data":[]
}
```

- method: 0000 "e_bt_connected"
- id:00000000 id 0 app00000000 id00000000
- ver: 00000000
- data 0 {"e_battery":100}000000 100

APP00000000

```
{
  "method":"e_bt_connected_reply",
  "id": "123",
  "ver": "1.0",
  "data":[{"e_bt_disconnected":"success"}],
  "error":[]
}
```

- method0000 "e_bt_connected_reply"
- id:00000000 id 0 app00000000 id00000000
- ver: 00000000
- data:{"e_bt_disconnected":"success"}00 app00000000

7.7 0000000000

0000000000

```
{
  "method": "s_recover_reply",
  "id": "123",
  "ver": "1.0",
  "data":[
    {"s_recover":"suceess"}
  ],
  "error":[]
}
```

- method: 0000 "s_recover_reply"
- id:00000000 id 0 app00000000 id00000000
- ver: 00000000
- data 0

APP[] [] [] [] [] []

```
{
  "method": "recover_ready",
  "id": "123",
  "ver": "1.0",
  "data": []
}
```

- method: [] [] [] "recover_ready"
- id: [] [] [] [] [] [] id [] app [] [] [] [] [] id [] [] [] [] [] []
- ver: [] [] [] [] [] [] []
- data:

7.8 [] [] [] []

[] [] [] [] [] [] [] [] [] []

```
{
  "method": "s_reset_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    { "s_reset": "suceess" }
  ],
  "error": []
}
```

- method: [] [] [] "s_reset_reply" []
- id: [] [] [] [] [] [] id [] app [] [] [] [] [] id [] [] [] [] [] []
- ver: [] [] [] [] [] [] []
- data []

APP[] [] [] [] [] []

```
{
  "method": "s_reset_reply",
  "id": "123",
  "ver": "1.0",
  "data": []
}
```

```
}
```

- method: "s_reset_reply"
- id: id app id
- ver:
- data:

8. SD

SD uuid 00010203-0405-0607-0809-0A0B0C0D2B22

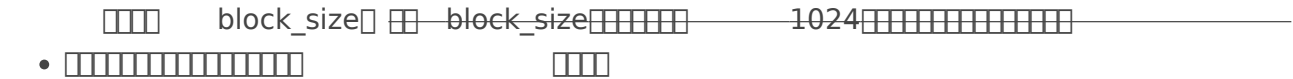
8.1 APP SD

,APP ,

app

```
{
  "method": "s_update_start",
  "id": "123",
  "ver": "1.0",
  "params": [
    { "file_name": "20240605103744.MP3" },
    { "block_index": 0 },
    { "block_size": 1024 }
  ]
}
```

- method: "s_update_start"
 - id: id id
 - ver:
 - params
 - file_name
 - block_index: 0 , 0 , n
 - block_size: 1024
- offset=block_index*block_size;
- block_size mtu



SD uuid 00010203-0405-0607-0809-0A0B0C0D2B22

```
{
  "method": "s_update_start_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    { "mtu": "186" },
    { "file_size": "2048" },
    { "file_name": "320030003200330030003900
      300031003000390035003000310032002E00
      6D0070003300" }
  ],
  "error": []
}
```

- method "s_update_start_reply"
- id: id
- ver:
- error: key
- data:
 - mtu: mtu, ,
 - file_size: , :
 - file_name: utf8 "202308101901.mp3"

SD

sd,

- byte0~byte1: [0x55, 0xAA]
- byte2~byte3: () block_size block_size
- byte4~byte7: () block_index
- crc: crc

8 (crc)

XXXXXXXXXX

[85, 170, 1, 246, 1, 2, 3, 4, 255, 243, 200, 196, 0, 10, 146, 70, 24, 0, 56, 68, 117, 0, 49, 144, 120, 91, 249, 236, 99, 121, 3, 255, 255, 255, 255, 255, 255, 255, 255, 247, 255, 255, 255, 255, 255, 253, 122, 184, 65, 221, 255, 255, 255, 255, 255, 255, 255, 191, 255, 255, 255, 252, 192,.....]

block_size=[1,246] 0x01F6=502; block_index=[1 2 3 4] 0x01020304=16909060

XXXXXXXX 8XXXX [85, 170, 1, 246, 1 2 3 4]

XXXXXXXXXX (XXXXXX crcXXXX)

8.2 APPXXXX SDXXXX

appXXXXXX

```
{
  "method": "s_update_cancel",
  "id": "123",
  "ver": "1.0",
  "params": []
}
```

- method: XXX "s_update_cancel"
- id:XXXXXX idXXXXXXXXXXXX idXXXX
- ver: XXXXXXX
- params

XXXXXXXXXX

SDXXXXXX uuid 00010203-0405-0607-0809-0A0B0C0D2B22
XXXXXXXXXXXX

```
{
  "method": "s_update_cancel_reply",
  "id": "123",
  "ver": "1.0",
  "data": [
    { "s_update_cancel": "succeess" }
  ],
  "error": []
}
```

```
}
```

- method: "s_update_cancel_reply"
- id: id
- ver:
- error: key
- data: {"s_update_cancel": "suceess"}

8.3 APP SD

app

```
{  
  "method": "s_update_pause",  
  "id": "123",  
  "ver": "1.0",  
  "params": []  
}
```

- method: "s_update_pause"
- id: id
- ver:
- params:

SD uuid 00010203-0405-0607-0809-0A0B0C0D2B22

```
{  
  "method": "s_update_pause_reply",  
  "id": "123",  
  "ver": "1.0",  
  "data": [  
    {"s_update_pause": "suceess"}  
  ],  
  "error": []  
}
```

- method: "s_update_pause_reply"
- id: id

- ver: []
- error [] key
- data: {"s_update_pause":"suceess"} []

8.4 []

[]

```
{
  "method":"s_update_end",
  "id":"123",
  "ver":"1.0",
  "params":[]
}
```

- method: [] "s_update_end"
- id:[] id [] id []
- ver: []
- params []

APP []

[]

```
{
  "method":"s_update_end_reply",
  "id":"123",
  "ver":"1.0",
  "data":[
    {"s_update_end_reply":"suceess"}
  ],
  "error":[]
}
```

- method [] "s_update_end_reply"
- id:[] id [] id []
- ver: []
- error [] key
- data: {"s_update_end_reply":"suceess"} []

[]