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Slave Control API

RS485

- **BS2_GetSlaveDevice:** RS485
- **BS2_SetSlaveDevice:** 가/ /
- **BS2_GetSlaveExDevice:** CoreStation RS485
- **BS2_SetSlaveExDevice:** CoreStation 가/ /
- **BS2_SearchDevicesCoreStation:** CoreStation
- **BS2_SearchDevicesCoreStationEx:** [+ 2.6.3] CoreStation
. (host ip)
- **BS2_GetDevicesCoreStation:** CoreStation
- **BS2_AddOsdpStandardDevice:** [+ 2.9.1] OSDP 가
- **BS2_GetOsdpStandardDevice:** [+ 2.9.1] OSDP 가
- **BS2_GetAvailableOsdpStandardDevice:** [+ 2.9.1] OSDP
가
- **BS2_UpdateOsdpStandardDevice:** [+ 2.9.1] OSDP
- **BS2_RemoveOsdpStandardDevice:** [+ 2.9.1] OSDP
- **BS2_GetOsdpStandardDeviceCapability:** [+ 2.9.1] OSDP
가
- **BS2_SetOsdpStandardDeviceSecurityKey:** [+ 2.9.1] OSDP

SDK가

가

가

BS2Rs485SlaveDevice

```
typedef struct {
    uint32_t deviceID;
    uint16_t deviceType;
    uint8_t enableOSDP;
    uint8_t connected;
} BS2Rs485SlaveDevice;
```

1. *deviceID*

2. *deviceType*

3. *enableOSDP*

flag
 .
 .
 .

4. *connected*
 가 flag
 .
 .
 .

BS2Rs485SlaveDeviceEX

```
typedef struct {
    uint32_t deviceID;
    uint16_t deviceType;
    uint8_t enableOSDP;
    uint8_t connected;
    uint8_t channelInfo;
    uint8_t reserved[3];
} BS2Rs485SlaveDeviceEX;
```

1. *deviceID*

2. *deviceType*

3. *enableOSDP*

flag
 .
 .
 .

4. *connected*

가 flag
 .
 .
 .

5. *channelInfo*

Channel
 .
 .
 .

6. *reserved*

BS2OsdpStandardDevice

```
typedef struct {
    BS2_DEVICE_ID    deviceID;           ///< 4 bytes
    BS2_DEVICE_TYPE  deviceType;         ///< 2 bytes
    BS2_BOOL         enableOSDP;        ///< 1 byte
    BS2_BOOL         connected;         ///< 1 byte

    uint8_t          channelInfo;       ///< 1 byte
    uint8_t          osdpID;            ///< 1 byte
    BS2_BOOL         supremaSearch;     ///< 1 byte
    BS2_BOOL         activate;          ///< 1 byte

    BS2_BOOL         useSecure;         ///< 1 byte
} BS2OsdpStandardDevice;
```

```

  uint8_t          vendorCode[3];    ///< 3 bytes

  BS2_VERSION      fwVersion;      ///< 4 bytes

  uint8_t          modelNumber;    ///< 1 byte
  uint8_t          modelVersion;   ///< 1 byte
  BS2_BOOL         readInfo;       ///< 1 byte
  uint8_t          reserved[25];   ///< 25 byte (packing)
} BS20sdpStandardDevice;      ///< 48 bytes

```

1. *deviceID*

OSDP

2. *deviceType*

BS2_DEVICE_TYPE_3RD_OSDP_DEVICE

3. *enableOSDP*

true

4. *connected*

true OSDP 가

5. *channelInfo*

CoreStation40 0~4 5 가 ,

6. *osdpID*

OSDP

7. *supremaSearch*

OSDP RS485 , false

8. *activate*

9. *useSecure*

BS2_SetOsdpStandardDeviceSecurityKey

10. *vendorCode*

Vendor

11. *fwVersion*

OSDP FW

12. *modelNumber*

OSDP

13. *modelVersion*

OSDP

14. *readInfo*
vendorCode fwVersion, model , OSDP
가 master

15. reserved

BS2OsdpStandardDeviceAvailable

```

typedef struct {
    uint8_t          channelIndex;           ///< 1 byte
    BS2_OSDP_CHANNEL_TYPE channelType;        ///< 1 byte
    uint8_t          max0sdpDevice;          ///< 1 byte
    uint8_t          num0sdpAvailableDevice;  ///< 1 byte
    BS2_DEVICE_ID   deviceIDs[8];            ///< 4 x 8 = 32
} BS20sdpStandardDeviceInfo;                  ///< 36 bytes

bytes

```

1. *channelIndex*

OSDP 가

2. *channelType*

RS485 가

CoreStation40 가 0~4 5

OSDP 가

0

Suprema 가 , Suprema
channelType 1 OSDP 가 . OSDP , channelType
2 . Suprema 가 .
CoreStation40 Suprema , OSDP
OSDP 가 .
channelType 3 .
2 .
가 .

0	Normal
1	Suprema
2	OSDP
3	OSDP FULL

3. *maxOsdpDevice*

channelType 1 32 , 2 3 2
가

4. *numOsdpAvailableDevice*

가

5. *deviceIDs*

()

6. *numOfChannel*

CoreStation40 5

7. *reserved*8. *channels*

OSDP
8 가 , CoreStation40 5 가 0~4

9. *reserved1***BS2OsdpStandardNotify**

```
typedef struct {
    BS2_DEVICE_ID    deviceID;           ///< 4 bytes
    BS2_DEVICE_TYPE  deviceType;         ///< 2 bytes
    BS2_BOOL         enableOSDP;        ///< 1 byte
    BS2_BOOL         connected;         ///< 1 byte

    uint8_t          channelInfo;       ///< 1 byte
    uint8_t          osdpID;            ///< 1 byte
    BS2_BOOL         supremaSearch;     ///< 1 byte
    BS2_BOOL         activate;          ///< 1 byte

    BS2_BOOL         useSecure;         ///< 1 byte
    uint8_t          vendorCode[3];     ///< 3 bytes

    BS2_VERSION      fwVersion;         ///< 4 bytes

    uint8_t          modelNumber;       ///< 1 byte
    uint8_t          modelVersion;     ///< 1 byte
    BS2_BOOL         readInfo;          ///< 1 byte
    uint8_t          reserved[5];       ///< 5 bytes (packing)
} BS2OsdpStandardNotify;           ///< 48 bytes
```

1. *deviceID*

OSDP

2. *deviceType* BS2_DEVICE_TYPE_3RD_OSDP_DEVICE
3. *enableOSDP* true
4. *connected* true OSDP 가
5. *channelInfo* CoreStation40 0~4 5 가 ,
6. *osdpID* OSDP
7. *supremaSearch* OSDP RS485 , false
8. *activate* ,
9. *useSecure*

BS2_SetOsdpStandardDeviceSecurityKey

10. *vendorCode* Vendor
11. *fwVersion* OSDP FW
12. *modelNumber* OSDP
13. *modelVersion* OSDP
14. *readInfo* vendorCode fwVersion, model , OSDP
가 master
15. *reserved*

BS2OsdpStandardDeviceAdd

```
typedef struct {
    uint8_t          osdpID;           ///< 1 byte
```

```

    uint8_t          activate;           ///< 1 byte
    uint8_t          useSecureSession;  ///< 1 byte
    uint8_t          deviceType;        ///< 1 byte
    BS2_DEVICE_ID   deviceID;         ///< 4 bytes
} BS2OsdpStandardDeviceAdd;           ///< 8 bytes

```

1. *osdpID*

OSDP 가 0~126

가

2. *activate*

, false

3. *useSecureSession*[BS2_SetOsdpStandardDeviceSecurityKey](#)4. *deviceType*

BS2_DEVICE_TYPE_3RD_OSDP_DEVICE

5. *deviceID*

0 master 가

BS2OsdpStandardDeviceUpdate

```

typedef struct {
    uint8_t          osdpID;           ///< 1 byte
    uint8_t          activate;         ///< 1 byte
    uint8_t          useSecureSession; ///< 1 byte
    uint8_t          deviceType;       ///< 1 byte
    BS2_DEVICE_ID   deviceID;        ///< 4 bytes
} BS2OsdpStandardDeviceUpdate;         ///< 8 bytes

```

1. *osdpID*

OSDP 가 0~126

가

2. *activate*

, false

3. *useSecureSession*

BS2_SetOsdpStandardDeviceSecurityKey

4. *deviceType*
 . BS2_DEVICE_TYPE_3RD_OSDP_DEVICE

5. *deviceID*

BS2OsdpStandardDeviceCapability

```
typedef struct {
    uint8_t compliance;
    uint8_t count;
} BS2OsdpStandardDeviceCapabilityItem;

typedef struct {
    BS2OsdpStandardDeviceCapabilityItem input;           ///< 2 bytes
    BS2OsdpStandardDeviceCapabilityItem output;          ///< 2 bytes
    BS2OsdpStandardDeviceCapabilityItem led;             ///< 2 bytes
    BS2OsdpStandardDeviceCapabilityItem audio;            ///< 2 bytes
    BS2OsdpStandardDeviceCapabilityItem textOutput;       ///< 2 bytes
    BS2OsdpStandardDeviceCapabilityItem reader;           ///< 2 bytes

    uint16_t recvBufferSize;                            ///< 2 bytes
    uint16_t largeMsgSize;                            ///< 2 bytes

    uint8_t osdpVersion;                            ///< 1 byte
    uint8_t cardFormat;                            ///< 1 byte
    uint8_t timeKeeping;                           ///< 1 byte
    uint8_t canCommSecure;                          ///< 1 byte

    BS2_BOOL crcSupport;                           ///< 1 byte
    BS2_BOOL smartCardSupport;                     ///< 1 byte
    BS2_BOOL biometricSupport;                     ///< 1 byte
    BS2_BOOL securePinEntrySupport;                ///< 1 byte

    uint8_t reserved[4];                           ///< 4 bytes
} BS2OsdpStandardDeviceCapability;                  ///< 28 bytes
```

1. *compliance*
 PD (function) (compliance level)
 input, output, led, audio, textOutput , OSDP

2. *count*
 PD (function) (number of objects) , 가
 OSDP

3. *input*

()

4. *output*

5. *led*

LED

6. *audio*

Buzzer

7. *textOutput*

8. *reader*

, count

9. *recvBufferSize*

PD가

10. *largeMsgSize*

PD가

11. *osdpVersion*

OSDP

12. *cardFormat*

, 01, 02, 03

OSDP

compliance level

13. *timeKeeping*

PD

OSDP 2.2

14. *canCommSecure*

15. *crcSupport*

16. *smartCardSupport*

17. *biometricSupport*

가 가

18. *securePinEntrySupport*

SPE(Secure PIN Entry)

19. *reserved*

BS2OsdpStandardDeviceResult

```
typedef struct {
    BS2_DEVICE_ID    deviceID;
    BS2_OSDP_RESULT  result;
} BS2OsdpStandardDeviceResult;
```

1. *deviceID*

2. *result*

OSDP 가 .

0	Success
1	Fail
2	Not available

BS2OsdpStandardDeviceSecurityKey

```
typedef struct {
    uint8_t    key[BS2_OSDP_STANDARD_KEY_SIZE];
    uint8_t    reserved[32];
} BS2OsdpStandardDeviceSecurityKey;
```

1. *key*

OSDP 16byte .

2. *reserved*

From:

<https://kb.supremainc.com/kbtest/> - **BioStar 2 Device SDK**

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