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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:** [+ 2.8.4] OSDP 가
- **BS2_GetOsdpStandardDevice:** [+ 2.8.4] OSDP 가
- **BS2_GetAvailableOsdpStandardDevice:** [+ 2.8.4] OSDP
가
- **BS2_UpdateOsdpStandardDevice:** [+ 2.8.4] OSDP
- **BS2_RemoveOsdpStandardDevice:** [+ 2.8.4] OSDP
- **BS2_GetOsdpStandardDeviceCapability:** [+ 2.8.4] OSDP
가
- **BS2_SetOsdpStandardDeviceSecurityKey:** [+ 2.8.4] 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***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
가지 master15. *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 {
    BS20sdpStandardDeviceCapabilityItem input;           ///< 2 bytes
    BS20sdpStandardDeviceCapabilityItem output;          ///< 2 bytes
    BS20sdpStandardDeviceCapabilityItem led;             ///< 2 bytes
    BS20sdpStandardDeviceCapabilityItem audio;            ///< 2 bytes
    BS20sdpStandardDeviceCapabilityItem textOutput;       ///< 2 bytes
    BS20sdpStandardDeviceCapabilityItem 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
} BS20sdpStandardDeviceCapability;                   ///< 28 bytes

```

1. compliance

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

2. count

PD (function) (number of objects) , が
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

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

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