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BS2_SetCustomCardConfig

[+ 2.9.4] Custom smart card 설정을 저장합니다.

함수

```
#include "BS_API.h"

int BS2_SetCustomCardConfig(void* context, uint32_t deviceId, const
BS2CustomCardConfig* config);
```

[BS2CustomCardConfig 구조체 보기](#)

파라미터

- [In] *context* : Context
- [In] *deviceId* : 장치 식별자
- [Out] *config* : Custom smart card 정보를 설정할 포인터

반환값

성공적으로 수행될 경우 BS_SDK_SUCCESS를 반환하고, 에러가 발생할 경우 상응하는 에러 코드를 반환합니다.

함께 보기

[BS2_GetCustomCardConfig](#)

샘플코드(C++)

[sample_setcustomcardconfig.cpp](#)

```
ConfigControl cc(context);
BS2CustomCardConfig config = { , };

BS2_DEVICE_ID id = Utility::getSelectedDeviceID(device);
int sdkResult = cc.getCustomCardConfig(id, config);
if (BS_SDK_SUCCESS != sdkResult)
```

```
        return sdkResult;

        string msg = "Please enter a data type of cards. (0: Binary, 1:
ASCII, 2: UTF16, 3: BCS)";
        config.dataType =
        (BS2_CARD_DATA_TYPE)Utility::getInput<uint32_t>(msg);
        config.useSecondaryKey = Utility::isYes("Do you want to use
secondary key?");

        ostream oss;

        if (Utility::isYes("Do you want to change mifare custom card
settings?"))
        {
            memset(&config.mifare.primaryKey, 0x0,
sizeof(config.mifare.primaryKey));
            oss << "Please enter the hexadecimal " <<
sizeof(config.mifare.primaryKey) << "-bytes primary key for mifare
card." << endl;
            oss << " [Like 12 34 56 ... EF]" << endl;
            Utility::getLineHexString<uint8_t>(oss.str(),
config.mifare.primaryKey, sizeof(config.mifare.primaryKey));

            if (config.useSecondaryKey)
            {
                memset(&config.mifare.secondaryKey, 0x0,
sizeof(config.mifare.secondaryKey));
                oss.str("");
                oss << "Please enter the hexadecimal " <<
sizeof(config.mifare.secondaryKey) << "-bytes secondary key for mifare
card." << endl;
                oss << " [Like 12 34 56 ... EF]" << endl;
                Utility::getLineHexString<uint8_t>(oss.str(),
config.mifare.secondaryKey, sizeof(config.mifare.secondaryKey));
            }

            msg = "Please enter the start block index of mifare card.";
            config.mifare.startBlockIndex =
            (uint16_t)Utility::getInput<uint32_t>(msg);
            msg = "Please enter the card data size of mifare card.";
            config.mifare.dataSize =
            (uint8_t)Utility::getInput<uint32_t>(msg);
            msg = "Please enter the skip bytes of mifare card.";
            config.mifare.skipBytes =
            (uint8_t)Utility::getInput<uint32_t>(msg);
        }

        if (Utility::isYes("Do you want to change desfire custom card
settings?"))
        {
            memset(&config.desfire.primaryKey, 0x0,
```

```

sizeof(config.desfire.primaryKey));
    oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.primaryKey) << "-bytes primary key for desfire
card." << endl;
    oss << " [Like 12 34 56 ... EF]" << endl;
    Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.primaryKey, sizeof(config.desfire.primaryKey));

    if (config.useSecondaryKey)
    {
        memset(&config.desfire.secondaryKey, 0x0,
sizeof(config.desfire.secondaryKey));
        oss.str("");
        oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.secondaryKey) << "-bytes secondary key for
desfire card." << endl;
        oss << " [Like 12 34 56 ... EF]" << endl;
        Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.secondaryKey, sizeof(config.desfire.secondaryKey));
    }

    oss.str("");
    oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.appID) << "-bytes appID for desfire card." <<
endl;
    oss << " [Like 12 34 EF]" << endl;
    Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.appID, sizeof(config.desfire.appID));

    msg = "Please enter the fileID for desfire card.";
    config.desfire.fileID =
(uint8_t)Utility::getInput<uint32_t>(msg);
    msg = "Please enter a encryption type for desfire card. (0:
DES/3DES, 1: AES)";
    config.desfire.encryptionType =
(uint8_t)Utility::getInput<uint32_t>(msg);
    msg = "Please enter a operation mode for desfire card. (0:
Legacy, 1: Advanced(AppLevelKey))";
    config.desfire.operationMode =
(uint8_t)Utility::getInput<uint32_t>(msg);
    msg = "Please enter the card data size of desfire card.";
    config.desfire.dataSize =
(uint8_t)Utility::getInput<uint32_t>(msg);
    msg = "Please enter the skip bytes of desfire card.";
    config.desfire.skipBytes =
(uint8_t)Utility::getInput<uint32_t>(msg);

    if (config.desfire.operationMode ==
DESFIRECARD_OPERATION_MODE_APPLEVELKEY)
    {
        memset(&config.desfire.desfireAppKey.appMasterKey, 0x0,

```

```

sizeof(config.desfire.desfireAppKey.appMasterKey));
    memset(&config.desfire.desfireAppKey.fileReadKey, 0x0,
sizeof(config.desfire.desfireAppKey.fileReadKey));
    memset(&config.desfire.desfireAppKey.fileWriteKey, 0x0,
sizeof(config.desfire.desfireAppKey.fileWriteKey));

    oss.str("");
    oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.desfireAppKey.appMasterKey) << "-bytes
appMasterKey for desfire card." << endl;
    oss << " [Like 12 34 56 ... EF]" << endl;
    Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.desfireAppKey.appMasterKey,
sizeof(config.desfire.desfireAppKey.appMasterKey));

    oss.str("");
    oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.desfireAppKey.fileReadKey) << "-bytes fileReadKey
for desfire card." << endl;
    oss << " [Like 12 34 56 ... EF]" << endl;
    Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.desfireAppKey.fileReadKey,
sizeof(config.desfire.desfireAppKey.fileReadKey));

    oss.str("");
    oss << "Please enter the hexadecimal " <<
sizeof(config.desfire.desfireAppKey.fileWriteKey) << "-bytes
fileWriteKey for desfire card." << endl;
    oss << " [Like 12 34 56 ... EF]" << endl;
    Utility::getLineHexString<uint8_t>(oss.str(),
config.desfire.desfireAppKey.fileWriteKey,
sizeof(config.desfire.desfireAppKey.fileWriteKey));

    msg = "Please enter the fileReadKeyNumber of desfire
card.";
    config.desfire.desfireAppKey.fileReadKeyNumber =
(uint8_t)Utility::getInput<uint32_t>(msg);
    msg = "Please enter the fileWriteKeyNumber of desfire
card.";
    config.desfire.desfireAppKey.fileWriteKeyNumber =
(uint8_t)Utility::getInput<uint32_t>(msg);
}

msg = "Please enter a smart card byte order. (0: MSB, 1: LSB)";
config.smartCardByteOrder =
(BS2_CARD_BYTE_ORDER)Utility::getInput<uint32_t>(msg);
msg = "Please enter a formatID.";
config.formatID = (BS2_UID)Utility::getInput<uint32_t>(msg);

```

```
return cc.setCustomCardConfig(id, config);
```

샘플코드(C#)

sample_setcustomcardconfig.cs

```
BS2CustomCardConfig config;
Console.WriteLine("Try to get CustomCardConfig");
BS2ErrorCode result =
(BS2ErrorCode)API.BS2_GetCustomCardConfig(sdkContext, deviceID, out
config);
if (BS2ErrorCode.BS_SDK_SUCCESS != result)
    return;

Util.HighlightLine("Please enter a data type of cards. (0: Binary,
1: ASCII, 2: UTF16, 3: BCS)", "data type");
Console.Write(">>>> ");
config.dataType = Util.GetInput((byte));

Util.HighlightLine("Do you want to use secondary key?", "use
secondary key");
Console.Write(">>>> ");
bool useSecondaryKey = Util.IsYes();
config.useSecondaryKey = Convert.ToByte(useSecondaryKey);

Util.HighlightLine("Do you want to change mifare custom card
settings? [Y/n]", "mifare custom card");
Console.Write(">>>> ");
if (Util.IsYes())
{
    int sizeOfKey = config.mifare.primaryKey.Length;
    Array.Clear(config.mifare.primaryKey, , sizeOfKey);
    string tempStr = String.Format("Please enter the hexadecimal {0}-
bytes primary key for mifare card. [KEY1-KEY2-...-KEY6]",
sizeOfKey);
    Util.HighlightLineMulti(tempStr, "primary key", "mifare card");
    Console.Write(">>>> ");
    enterSmartcardKey(config.mifare.primaryKey);

    if (useSecondaryKey)
    {
        sizeOfKey = config.mifare.secondaryKey.Length;
        Array.Clear(config.mifare.secondaryKey, , sizeOfKey);
        tempStr = String.Format("Please enter the hexadecimal {0}-
bytes secondary key for mifare card. [KEY1-KEY2-...-KEY6]", sizeOfKey);
        Util.HighlightLineMulti(tempStr, "secondary key", "mifare
card");
        Console.Write(">>>> ");
    }
}
```

```
        enterSmartcardKey(config.mifare.secondaryKey);
    }

    Util.HighlightLineMulti("Please enter the start block index of
mifare card.", "start block index", "mifare card");
    Console.Write(">>>> ");
    config.mifare.startBlockIndex = Util.GetInput((UInt16));

    Util.HighlightLineMulti("Please enter the card data size of
mifare card.", "card data size", "mifare card");
    Console.Write(">>>> ");
    config.mifare.dataSize = Util.GetInput((byte));

    Util.HighlightLineMulti("Please enter the skip bytes of mifare
card.", "skip bytes", "mifare card");
    Console.Write(">>>> ");
    config.mifare.skipBytes = Util.GetInput((byte));
}

Util.HighlightLine("Do you want to change desfire custom card
settings? [Y/n]", "desfire custom card");
Console.Write(">>>> ");
if (Util.IsYes())
{
    int sizeOfKey = config.desfire.primaryKey.Length;
    Array.Clear(config.desfire.primaryKey, , sizeOfKey);
    string tempStr = String.Format("Please enter the hexadecimal
{0}-bytes primary key for desfire card. [KEY1-KEY2-...-KEY6]",
sizeOfKey);
    Util.HighlightLineMulti(tempStr, "primary key", "desfire
card");
    Console.Write(">>>> ");
    enterSmartcardKey(config.desfire.primaryKey);

    if (useSecondaryKey)
    {
        sizeOfKey = config.desfire.secondaryKey.Length;
        Array.Clear(config.desfire.secondaryKey, , sizeOfKey);
        tempStr = String.Format("Please enter the hexadecimal {0}-
bytes secondary key for desfire card. [KEY1-KEY2-...-KEY6]",
sizeOfKey);
        Util.HighlightLineMulti(tempStr, "secondary key", "desfire
card");
        Console.Write(">>>> ");
        enterSmartcardKey(config.desfire.secondaryKey);
    }

    sizeOfKey = config.desfire.appID.Length;
    Array.Clear(config.desfire.appID, , sizeOfKey);
    tempStr = String.Format("Please enter the hexadecimal {0}-bytes
appID for desfire card. [KEY1-KEY2-...-KEY6]", sizeOfKey);
```

```
Util.HighlightLineMulti(tempStr, "appID", "desfire card");
Console.Write(">>>> ");
enterSmartcardKey(config.desfire.appID);

Util.HighlightLineMulti("Please enter the fileID of desfire
card.", "fileID", "desfire card");
Console.Write(">>>> ");
config.desfire.fileID = Util.GetInput((byte));

Util.HighlightLineMulti("Please enter a encryptionType of
desfire card. (0: DES/3DES, 1: AES)", "encryptionType", "desfire
card");
Console.Write(">>>> ");
config.desfire.encryptionType = Util.GetInput((byte));

Util.HighlightLineMulti("Please enter a operationMode of
desfire card. (0: Legacy, 1: Advanced(AppLevelKey))", "operationMode",
"desfire card");
Console.Write(">>>> ");
config.desfire.operationMode = Util.GetInput((byte));

Util.HighlightLineMulti("Please enter the card data size of
desfire card.", "card data size", "desfire card");
Console.Write(">>>> ");
config.desfire.dataSize = Util.GetInput((byte));

Util.HighlightLineMulti("Please enter the skip bytes of desfire
card.", "skip bytes", "desfire card");
Console.Write(">>>> ");
config.desfire.skipBytes = Util.GetInput((byte));

if (config.desfire.operationMode ==
Convert.ToByte(BS2DesfireCardOperation.BS2_DESFIRECARD_OPERATION_MODE_A
PPLEVELKEY))
{
    int sizeOfAppMasterKey =
config.desfire.desfireAppKey.appMasterKey.Length;
    int sizeOfFileReadKey =
config.desfire.desfireAppKey.fileReadKey.Length;
    int sizeOfFileWriteKey =
config.desfire.desfireAppKey.fileWriteKey.Length;
    Array.Clear(config.desfire.desfireAppKey.appMasterKey, ,
sizeOfAppMasterKey);
    Array.Clear(config.desfire.desfireAppKey.fileReadKey, ,
sizeOfFileReadKey);
    Array.Clear(config.desfire.desfireAppKey.fileWriteKey, ,
sizeOfFileWriteKey);

    tempStr = String.Format("Please enter the hexadecimal {0}-
bytes appMasterKey for desfire card. [KEY1-KEY2-...-KEY6]",
sizeOfAppMasterKey);
```



```
        Util.HighlightLineMulti(tempStr, "appMasterKey", "desfire
card");
        Console.Write(">>>> ");
enterSmartcardKey(config.desfire.desfireAppKey.appMasterKey);

        tempStr = String.Format("Please enter the hexadecimal {0}-
bytes fileReadKey for desfire card. [KEY1-KEY2-...-KEY6]",
sizeofFileReadKey);
        Util.HighlightLineMulti(tempStr, "fileReadKey", "desfire
card");
        Console.Write(">>>> ");
enterSmartcardKey(config.desfire.desfireAppKey.fileReadKey);

        tempStr = String.Format("Please enter the hexadecimal {0}-
bytes fileWriteKey for desfire card. [KEY1-KEY2-...-KEY6]",
sizeofFileWriteKey);
        Util.HighlightLineMulti(tempStr, "fileWriteKey", "desfire
card");
        Console.Write(">>>> ");
enterSmartcardKey(config.desfire.desfireAppKey.fileWriteKey);

        Util.HighlightLineMulti("Please enter the fileReadKeyNumber
of desfire card.", "fileReadKeyNumber", "desfire card");
        Console.Write(">>>> ");
        config.desfire.desfireAppKey.fileReadKeyNumber =
Util.GetInput((byte));

        Util.HighlightLineMulti("Please enter the
fileWriteKeyNumber of desfire card.", "fileWriteKeyNumber", "desfire
card");
        Console.Write(">>>> ");
        config.desfire.desfireAppKey.fileWriteKeyNumber =
Util.GetInput((byte));
    }
}

    Util.HighlightLine("Please enter a smart card byte order. (0: MSB,
1: LSB)", "smart card byte order");
    Console.Write(">>>> ");
    config.smartCardByteOrder = Util.GetInput((byte));

    Util.HighlightLine("Please enter a formatID.", "formatID");
    Console.Write(">>>> ");
    config.formatID = Util.GetInput((UInt32));

    Console.WriteLine("Trying to set CustomCardConfig.");
    result = (BS2ErrorCode)API.BS2_SetCustomCardConfig(sdkContext,
deviceID, ref config);
    if (result != BS2ErrorCode.BS_SDK_SUCCESS)
    {
        Console.WriteLine("Got error({0}).", result);
    }
}
```

```
}
```

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