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# SDK API

The followings are a set of APIs that initialize device management information and that are used for dynamic memory control and PIN code generation.

- BS2_Version: Returns the SDK version.
- BS2_AllocateContext: Allocates the device management Context.
- BS2_ReleaseContext: Releases the device management Context.
- BS2_Initialize: Initializes the device management Context.
- BS2_ReleaseObject: Releases dynamic memory.
- BS2_MakePinCode: Encrypts the PIN.
- BS2_MakePinCodeWithKey: Encryptes PIN code with the user-defined PIN encryption key. [+ 2.7.1]
- BS2_SetMaxThreadCount: Specifies the maximum thread count.
- BS2_ComputeCRC16CCITT: Calculates the CRC-16 CCITT checksum.
- BS2_GetCardModel: Retrieves the supported card models.
- BS2_GetDataEncryptKey: Gets the encryption key for the device.
- BS2_SetDataEncryptKey: Changes the user defined PIN encryption key. [+ 2.7.1]
- BS2_RemoveDataEncryptKey: Removes the encryption key for the device.
- BS2_SetDeviceSearchingTimeout : Specifies the device searching time.
- BS2_SetDebugFileLog : Retrieves debugging file log.

## Structure

### BS2EncryptKey

```
enum
{
    BS2_ENC_KEY_SIZE = 32,
};

typedef struct
{
    uint8_t key[BS2_ENC_KEY_SIZE];
    uint8_t reserved[32];
} BS2EncryptKey;
```

1. *key*
The key value used by the device.

2. *reserved*
Reserved space.