ISO 19794-4 Support Java

Programmer's Manual

Ver 1.x

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Chapter 1 Introduction

com.nitgen.SDK.BSP.NBioBSPISO4JNI Module is intended to help you develop using ISO 19794-4 data format under Java environment.

This module is compatible with com.nitgen.SDK.BSP.NBioBSPJNI Module and it operates with NBioBSPISO4JNI.dll.

Chapter 2   Components

ISO 19794-4 folder created from the installation is as follows:

■ Linux folder

bin : contains libNExportRawToISO.so to support x86 or x64.

Inc : contains header files to help you develop.

Samples : contains sample files.

■ Windows folder

bin : contains NExportRawToISO.dll and test program to support x86 or x64

DotNet : contains NITGEN.SDK.NBioBSPISO4.dll and test program for .NET-compatible.

inc : contains header files to help you develop.

Lib : contains NExportRawToISO.lib to support x86 or x64.

Sample C++ : contains files for C++ compatible sample.

Sample DotNet : .contains files for .NET-compatible sample.

■ Java Wrapper

Library for Java is contained in "eNBioBSP SDK for java". (v1.4.4.0 or higher)

Chapter 3 NBioBSPISO4JNI Class

■ NBioBSPISO4JNI.COMPRESS_MOD

Defined value assigned by Nitgen to compress a raw image

Literal	Value	Mean
NONE	0	No compression
WSQ	1	WSQ

■ NBioBSPISO4JNI.NIMPORTRAW

Contains a raw image.

Type	Name	Description
byte	FingerID	Finger index Refer to NBioAPI_FINGER_ID in "eNBioBSP SDK"
short	ImgWidth	Width of image
short	ImgHeight	Height of image
byte[]	Data	Image data

■ NBioBSPISO4JNI.NIMPORTRAWSET

Contains raw image set

Type	Name	Description
byte	Count	The number of data
NIMPORTRAW[]	RawData	Array of NIMPORTRAW data

■ NBioBSPISO4JNI.ISOBUFFER

Contains ISO 19794-4 data buffer

Type	Name	Description
byte[]	data	ISO 19794-4 데이터 배열

■ Method

```
int ExportRawToISOV1(
                     NBioBSPJNI.Export.AUDIT AuditData,
                     ISOBUFFER ISOBuf,
                     boolean bIsRollDevice,
                     byte CompressMode)
```

Description

Converts from fingerprint raw data to ISO 19794-4 data using fingerprint image captured by

"com.nitgen.SDK.BSP.NBioBSPJNI" Module and returns error code.

Parameters

NBioBSPJNI.Export.AUDIT AuditData

[in] fingerprint image structure captured by com.nitgen.SDK.BSP.NBioBSPJNI Module

ISOBUFFER ISOBuf

[out] ISO 19794 data

boolean bIsRollDevice

[in] image type

Value	Description
True	Roll image
false	Flat image

byte nCompressMod

[in] Compression type (refer to COMPRESS_MOD)

Return Value

int

Error Code of eNBioBSP SDK

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```
int ExportRawToISOV2(
                    byte FingerID,
                    short ImgW,
                    short ImgH,
                    byte[] RawBuf,
                    ISOBUFFER ISOBuf,
                    boolean bIsRollDevice,
                    byte CompressMode)
```

Description

Converts from fingerprint raw image to ISO 19794-4 data from fingerprint image captured by eNBioBSP SDK Module and

returns error code.

Parameters

    byte FingerID

        [in] Finger index (refert to NBioAPI_FINGER_ID of "eNBioBSP SDK")

    short ImgW

        [in] Width of raw image

    short ImgH

        [in] Height of raw image

    byte[] RawBuf

        [in] Array of raw image data

    ISOBUFFER ISOBuf

        [out] ISO 19794 data

    boolean bIsRollDevice

        [in] image type

Value	Description
True	Roll image
false	Flat image

    byte nCompressMod

        [in] Compression type (refer to COMPRESS_MOD)

Return Value

    int

        Error Code of eNBioBSP SDK

```
int ImportISOToRaw(ISOBUFFER ISOBuf, NIMPORTRAWSET RawSet)
```

Description

Converts from ISO 19794-4 data to fingerprint raw image and returns error code.

Parameters
    ISOBUFFER ISOBuf
        [in] ISO 19794-4 data
    NIMPORTRAWSET ImportRawSet
        [out] Returns raw image data in ISOBuf.

Return Value
    int
        Error Code of eNBioBSP SDK