Pretec WHANTO CF/SD Barcode

Software Developer Kit

User Manual

WHANTO CF/SD Barcode SDK 1.2

Revision History

Version	Data	Editor	Content
1.0	2003/10/15	Knuth Ryan	BarcodeScanner SDK 1.0 has four functions including WMS_Open, WMS_Scan, WMS_Read and WMS_Close.
1.1	2004/2/28	Terry	Bar-code Scanner API 1.1adds new function WMS_SetConfig.
1.2	2004/5/28	Terry	Improved New WMS_Scan which combined old WMS_Scan and old WMS_Read.

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1. Introduction

The API of Bar-code Scanner SDK provided by PRETEC is a set of Windows CE DLLs. By using the API, uses can make easily their applications perform the following on PRETEC Barcode scanning products.

Initiate the inserting device and de-initiate the removing Device

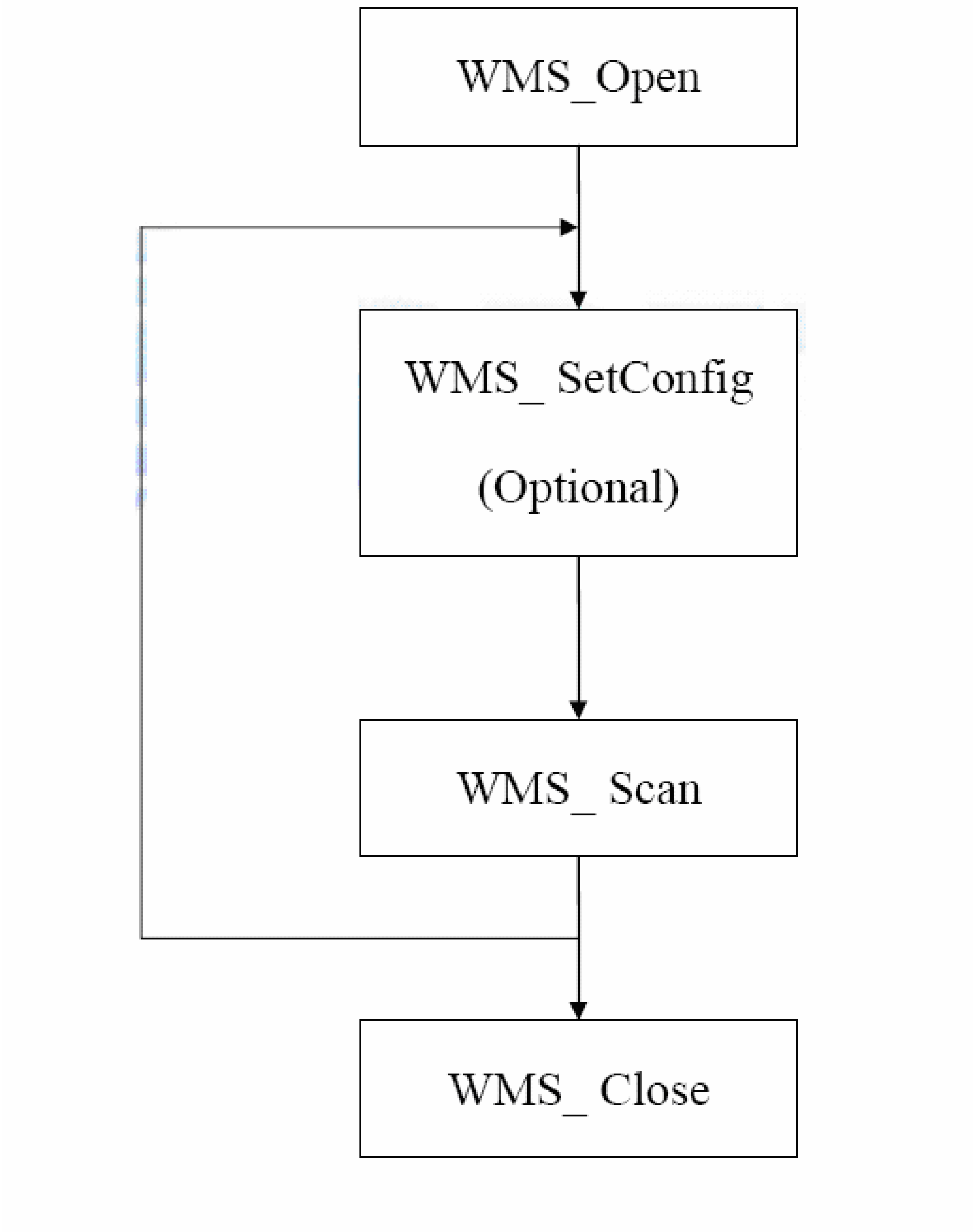
Trigger scanning on supported device

Receive barcode data from scanner

Configure the ability of supported device

2. Typical Flow

PRETEC Bar-Code Scanner SDK API set is concise and straight-forward. The following represents a typical flow in C application programs.



Next we will introduce the typical flow of the above figure step by step. First WMS_Open must be executed to initiate the Bar-Code device. Second you can use WMS_SetConfig to configure ability by modifying two parameters including barcode_type and barcode_case. If you don't execute WMS_SetConfig, the Bar-Code device will operate with default parameter values. Next you can use WMS_Scan to trigger the scanner of Bar-Code device and scan the barcode. If scanning successfully, you can get barcode data and length from WMS_Scan. Finally WMS_Close must be done to release memory before you terminate the program.

3. API Function Reference

These APIs include WMS_Open, WMS_SetConfig, WMS_Scan and WMS_Close. Next we will give a detail introduction in the following sectors.

3.1 WMS_Open

Description

The function initiates and opens Bar-Code scanner device for use.

BOOL WMS_Open (

CString **portname,*

DWORD *baudrate*);

Parameters

[in] portname

Pointer to a null-terminated string that specifies the name of the communication port to open. It's type should be "COM%d:". If the value isn't defined, the API will detect the correct one.

[in] baudrate

Specifies the baud rate at which the communication device operates. The default baud rate value is 9600 bps.

Return Values

If the function succeeds, the return value is nonzero.
If the function fails, the return value is zero.

3.2 WMS_SetConfig

Description

The function configures the ability of supported device.

BOOL WMS_SetConfig(

unsigned long *barcode_type*,

BYTE *barcode_case***);**

Parameters

[in] barcode_type

Specifies the barcode type which the scanner can scan.

BARCODE_TYPE_ALL

enables reading of all supported barcode symbology (default)

BARCODE_TYPE_UPC_A

enables reading of barcode symbology UPCA.

BARCODE_TYPE_EAN_13

enables reading of barcod symbology EAN13.

BARCODE_TYPE_EAN_8

enables reading of barcode symbology EAN8.

BARCODE_TYPE_UPC_E

enables reading of barcode symbology UPCE.

BARCODE_TYPE_CODE_39

enables reading of barcode symbology Code 39.

BARCODE_TYPE_CODE_32

enables reading of barcode symbology Code 32.

BARCODE_TYPE_CODE_128

enables reading of barcode symbology Code 128.

BARCODE_TYPE_INTERLEAVE_25

enables reading of barcode symbology Interleaved 25.

BARCODE_TYPE_CODABAR

enables reading of barcode symbology CODABAR.

[int] barcode_case

Specifies the case of received barcode data.

BARCODE_CASE_NOT_CHANGED

keep original bar-code data case (default)

BARCODE_CASE_UPPER_CASE

change received bar-code data into upper case

BARCODE_CASE_LOWER_CASE

change received bar-code data into lower case

Return Values

If the function succeeds, the return value is nonzero.
If the function fails, the return value is zero.

3.3 WMS_Scan

Description

The function triggers scanner and begins to scanbarcode. If scanning successfully, it will return barcode data and length.

BOOL WMS_Scan (

BYTE *data

int *length);

Parameters

[out] data

Pointer to a null-terminated string. If scanning successfully, barcode data is returned.

[out] length

Specifies the length of received barcode data.

Return Values

If the function succeeds, the return value is nonzero.
If the function fails, the return value is zero.

3.4 WMS_Close

Description

The function closes scanner and releases the memory allocated by **WMS_Open**.

```
BOOL WMS_Close ();
```

Parameters

None

Return Values

If the function succeeds, the return value is nonzero.
If the function fails, the return value is zero.