



PA-60 Mobile Computer Programming Manual

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Overview

The **Argox** Mobile Computer Software Developer Kit (SDK) Help is intended to assist programmers with the creation of applications for **Argox** Mobile Computers running a Microsoft® Windows® .NET CE5.0 Operating System. It gives all of the details necessary for calling functions which control the devices on the **Argox** Mobile Computer or access the Value-added device module, such as Scanning and Wireless.

The help file is organized into two sections, one is the system related, and the other one is the value-added scanning functions providing the following information:

- Argox Mobile Computer standard Application Programming Interface (API) Definitions for system related.

Audio

Display

Keypad

Led and Vibrator Indicators

Battery Status

System Settings

- Argox Scanning device Application Programming Interface (API) Definitions

API definitions illustrate how to call a given function. The API definitions are structured with some information including prototypes, parameters, return values, examples and requirements for each API. The “Requirements” section gives the information on whether or not a device supports a specific API function and the files to be included.

SDK Functions

When user wants to use SDK to develop their own program, they should link DLL file or LIB file, and include header file SYSAPIAX.H.

There are two examples to show how to use LIB file and DLL file on their project. We will use Visual Studio 2005 to explain.

Example 1: Using LIB file.

At first you should include sysapiax.lib in your project.

```
#include "Sysapiax.h"

main()
{
    .....
    SetBacklightPWM(100, 100);
    .....
}
```

Example 2: Using DLL file.

```
HINSTANCE dllHandle = NULL;

typedef DWORD (_stdcall *pfnSetBacklightPWM)(int nACPowerPercent, int
nBatteryPercent);

pfnSetBacklightPWM    m_SetBacklightPWM;

main()
{
    dllHandle = LoadLibrary(L"SYSAPIAX.dll");
    m_SetBacklightPWM = (pfnSetBacklightPWM) :: GetProcAddress(dllHandle,
_T("SetBacklightPWM"));
    m_SetBacklightPWM(0, 0);
    FreeLibrary(dllHandle);
}
```

SYSAPIAX.DLL

In this SDK, we supply SYSAPIAX.DLL which includes several functions to allow programmer to control device drivers and system functions. User can use WINCE develop tool like Visual Studio 2005 to develop application program. The function description is given below.

Audio Related Functions

- [Audio_GetVolume](#) – Query the current volume setting.
- [Audio_SetVolume](#) – Set the volume setting.

Battery Related Function

- [GetBatteryStatus](#) – Gets main battery status.

Display Related Functions

- [BacklightOn](#) – Turn on or off screen backlight.
- [Display_QueryBacklightIntensity](#) – Query backlight intensity.
- [GetBacklightStatus](#) – Gets screen backlight status.
- [PowerOnLCD](#) – Turn on or off LCD power.
- [SetBacklightPWM](#) – Adjusts screen backlight brightness.
- [EnableTouchPanel](#) – Enable and disable touch panel.
- [GetTouchPanelStatus](#) – Query touch panel status

KeyPad Related Functions

- [EnablePowerButton](#) – Enable and disable power button.
- [GetAlphaMode](#) – Get the current input mode.
- [SendKbdVisualKey](#) – Sends a visual key to key buffer.
- [SetAlphaMode](#) – Change input mode.

LED Related Functions

- [GetKeypadLEDStatus](#) – Gets keypad LED status.
- [GoodReadLEDon](#) – Turn on and off good read LED.
- [KeypadLEDon](#) – Turn on or off keypad LED.

System Related Functions

- [CallSuspend](#) – Enter suspend mode.
- [EnableAutoConnect](#) – Turn auto-connect on and off.
- [RegisterAlphaKeyNotification](#) – Register a request with send a message when

the alpha key pressed.

- [ShowChineseIME](#) – Display and hide the Chinese IME.
- [ShowDeskTop](#) – Display and hide all icons on desktop.
- [ShowExploreToolbar](#) – Display and hide toolbar on windows explorer.
- [ShowTaskbar](#) – Display and hide taskbar.
- [UnregisterAlphaKeyNotification](#) – Unregister message request.

Vibrator Related Functions

- [VibratorOn](#) – On and off vibration indicator.

WLAN Related Functions

- [WL_Enable](#) – Enable WLAN.
- [WL_Disable](#) – Disable WLAN.

BlueTooth Related Functions

- [BT_Enable](#) – Enable Bluetooth Application.
- [BT_Disable](#) – Disable Bluetooth Application.
- [BT_On](#) – Enable Bluetooth Function.
- [BT_Off](#) – Disable Bluetooth Function.
- [SetDiscoverMode](#) – Enable/Disable the terminal is discoverable.
- [GetDiscoverMode](#) – Query terminal discoverable status.
- [SetSPPService](#) – Enable/Disable SPP Service.
- [GetSPPService](#) – Query SPP Service.
- [SetFTPService](#) – Enable/Disable FTP service.
- [GetFTPService](#) – Query FTP service status.
- [SetFTPWriteable](#) – Enable/Disable FTP service writeable.
- [GetFTPWriteable](#) – Query FTP service writeable status.
- [SetFTPShareFolder](#) – Setup the FTP share folder in terminal.
- [GetFTPShareFolder](#) – Query current FTP share folder in terminal.
- [InitSearchBTDevice](#) – Initial search information.
- [FindNextBTDevice](#) – retrieves the results of an Bluetooth device.
- [EndSearchBTDevice](#) – frees the search handle.
- [InitSearchFTPDevice](#) – Initial search the device supported FTP service.
- [FindFirstFTPDevice](#) – Get first device supported FTP service position.
- [FindNextFTPDevice](#) – Get next device supported FTP service position.
- [PairDevice](#) – Pair with device.
- [UnPairDevice](#) – Unpair with device.
- [GetComInfo](#) – Get com identifier index and amount.

-
- [ConnectDevice](#) – Connect to Bluetooth device for SPP or FTP.
 - [GetConnectStatus](#) – Query the device connected status.
 - [GetSPPClientChannel](#) – Get SPP channel.
 - [FindFirstFTPFile](#) – Get first file information from share folder in connected device.
 - [FindNextFTPFile](#) – Get next file information from share folder in connected device.
 - [GetFTPFile](#) – Get file from share folder in the connected device.
 - [PutFTPFile](#) – Send file to share folder in the connected device.
 - [CreateFTPFolder](#) – Create a new folder to share folder in the connected device.
 - [DeleteFTPFolder](#) – Delete folder from share folder in connected device.
 - [DeleteFTPFile](#) – Delete file from share folder in connected device.

Bluetooth Structure

- [CONNECT_INFO Structure](#) – CONNECT_INFO Information used by ConnectDevice.
- [FTP_FILE Structure](#) – FTP_FILE Information used by FindFirstFTPFile and FindNextFTPFile.

Audio Related Functions

Audio_GetVolume

This function queries the current volume setting.

```
DWORD Audio_GetVolume
{
    LPDWORD lpdwVolume
}
```

Parameters

lpdwVolume

[out] The current volume setting.

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, the return value is [E_FUNC_ERROR](#).

Example

```
DWORD dwResult, dwVolume;
dwResult = Audio_GetVolume(&dwVolume);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Audio_GetVolume fail"));
else
{
    CString strTemp;
    strTemp.Format(_T("Volume:      %d"),dwVolume);
    AfxMessageBox(strTemp);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.
Header: sysapi.h
Link Library: sysapi.lib
Link DLL: sysapi.dll
Device: PA60

Audio_SetVolume

This function sets the current volume setting.

```
DWORD Audio_SetVolume
{
    DWORD dwVolume
}
```

Parameters

dwVolume

[in] Specifies a new volume setting. The default setting is 0x99999999.

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, the return value is [E_FUNC_ERROR](#).

Example

```
DWORD dwResult,dwVolume;
dwVolume = 0x11111111;
dwResult = Audio_SetVolume(dwVolume);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Audio_SetVolume fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Battery Related Function

GetBatteryStatus

This function gets main battery status.

```
int GetBatteryStatus
{
}
```

Parameters

None.

Return Values

The return value can be one of the values in the following table.

Return value	Description
0	battery high
1	battery low
2	battery critical
3	battery charging
4	no battery
5	battery unknown

Example

```
switch (GetBatteryStatus())
{
case 0:
    AfxMessageBox(_T("Battery High"));
    break;
case 1:
    AfxMessageBox(_T("Battery Low"));
    break;
case 2:
    AfxMessageBox(_T("Battery Critical"));
    break;
case 3:
```

```
        AfxMessageBox(_T("Battery Charging"));
        break;
case 4:
        AfxMessageBox(_T("No Battery"));
        break;
case 5:
        AfxMessageBox(_T("Battery Unknown"));
        break;
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Display Related Functions

BacklightOn

This function will always turn on or off screen backlight.

```
DWORD BacklightOn
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether turn on screen backlight(TRUE) or turn off screen backlight(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

After this function turn on or off backlight, the backlight will always on or off. The backlight setting of display properties in control panel does not work until terminal resets.

Example

```
DWORD dwResult;
dwResult = BacklightOn(TRUE);
if(dwResult != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("BacklightOn fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Display_QueryBacklightIntensity

This function will return the backlight intensity of external power and battery power.

```
DWORD Display_QueryBacklightIntensity
{
    LPDWORD lpdwACBacklight,
    LPDWORD lpdwBatteryBacklight
}
```

Parameters

lpdwACBacklight

[out] The backlight intensity of external power.

lpdwBatteryBacklight

[out] The backlight intensity of battery power.

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_NULLPTR](#).

Remarks

The parameters will be one of the values in the following table.

Backlight intensity	Backlight brightness
4	super
3	normal
2	fine
1	micro
0	off

Example

```
DWORD dwResult, dwValue1, dwValue2;
dwResult = Display_QueryBacklightIntensity(&dwValue1, &dwValue2);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Display_QueryBacklightIntensity fail"));
else
{
    CString strTemp;
    strTemp.Format(_T("AC backlight intensity: %d, Battery backlight intensity: %d"), dwValue1, dwValue2);
    AfxMessageBox(strTemp);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetBacklightStatus

This function gets screen backlight status.

```
DWORD GetBacklightStatus  
{  
}  
}
```

Parameters

None.

Return Values

The return value indicates whether screen backlight is 1 = screen backlight on or screen backlight is 0 = screen backlight off.

Example

```
DWORD dwResult;  
dwResult = GetBacklightStatus();  
if(dwResult == 1)  
    AfxMessageBox(_T("Backlight on"));  
else  
    AfxMessageBox(_T("Backlight off"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

PowerOnLCD

This function turns on or off LCD power.

```
DWORD PowerOnLCD
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether turn on LCD power(TRUE) or turn off LCD power(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

After calling this function with *bOn* is FALSE, terminal will only turn off LCD power. It means that terminal still works. You should call this function to turn on LCD power or reset terminal.

Example

```
DWORD dwResult;
dwResult = PowerOnLCD(FALSE); //power off LCD
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("PowerOnLCD fail"));
Sleep(3000);
dwResult = PowerOnLCD(TRUE); //power on LCD
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("PowerOnLCD fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

SetBacklightPWM

This function adjusts screen backlight brightness.

```
DWORD SetBacklightPWM
{
    int nACPowerPercent,
    int nBatteryPercent
}
```

Parameters

nACPowerPercent, nBatteryPercent

[in] One is brightness setting using AC power and the other is brightness setting using battery. These two members must be one of the values in the following table.

nPercent	Backlight brightness
100	super
75	normal
50	fine
25	micro
0	off

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

The Backlight Setting program in Control Panel sets screen backlight brightness. Called this function will also change the brightness in Backlight Setting. You can use this function or Backlight Setting program in Control Panel to adjust backlight brightness.

Example

```
DWORD dwResult = SetBacklightPWM(100,100);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("SetBacklightPWM fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

EnableTouchPanel

This function enable/disable the touch panel

```
DWORD EnableTouchPanel  
{  
    BOOL bEnable  
}
```

Parameters

bEnable

[in] Set TRUE to enable touch panel and FALSE to disable touch panel

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Example

```
DWORD dwResult = EnableTouchPanel(0);  
if(dwResult != E_FUNC_SUCCEEDED)  
    AfxMessageBox(_T("EnableTouchPanel fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetTouchPanelStatus

Query touch panel status

```
DWORD GetTouchPanelStatus
{
    LPBOOL lpEnable
}
```

Parameters

lpEnable

[out] The touch panel status.

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value are [E_FUNC_ERROR](#).

Example

```
BOOL bStatus;
DWORD dwResult = GetTouchPanelStatus(&bStatus);
if(dwResult != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("EnableTouchPanel fail"));
if(bStatus){
    ...
}
else{
    ...
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

KeyPad Related Functions

EnablePowerButton

This function will enable or disable power button.

```
DWORD EnablePowerButton
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether enable power button(TRUE) or disable power button(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

If the *bOn* parameter is FALSE, power button is disabled. The power button will not work when power button pressed. If terminal enters suspend mode, the power button will work once to wake up. When terminal wakes up, the power button is still disabled. Until this function calls with parameter TRUE to enable power button.

Example

```
DWORD dwResult;
dwResult = EnablePowerButton(FALSE);
if(dwResult != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("EnablePowerButton fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetKeypadAlphaMode

This function will get the current input mode.

```
DWORD GetKeypadAlphaMode  
{  
}  

```

Parameters

None.

Return Values

The return value can be one of the values in the following table.

Return value	Alpha mode
0	numeric mode
1	lowercase letter mode
2	uppercase lette mode

Example

```
DWORD dwResult;  
dwResult = GetKeypadAlphaMode();  
switch (dwResult){  
case 0:  
    AfxMessageBox(_T("Numeric mode"));  
    break;  
case 1:  
    AfxMessageBox(_T("Lowercase letter mode"));  
    break;  
case 2:  
    AfxMessageBox(_T("Uppercase letter mode"));  
    break;  
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

SendKbdVisualKey

This function sends a visual key to key buffer.

```
DWORD SendKbdVisualKey
{
    BYTE Key
}
```

Parameters

Key

[in] Specifies a virtual-key code.

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Example

```
CString strTemp;
strTemp = "VisualKey";
for(int i=0;i<strTemp.GetLength();i++)
    SendKbdVisualKey((unsigned char)strTemp.GetAt(i));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

SetKeypadAlphaMode

This function will change input mode.

```
DWORD SetKeypadAlphaMode
{
    int nMode
}
```

Parameters

nMode

[in] Flags for set input mode. This member must be one of the values in the following table.

Value	Alpha mode
0	numeric mode
1	lowercase letter mode
2	uppercase letter mode

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Example

```
DWORD dwResult;
dwResult = SetKeypadAlphaMode(1);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("SetKeypadAlphaMode fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

LED Related Functions

GetKeypadLEDStatus

This function gets keypad LED status.

```
BOOL GetKeypadLEDStatus  
{  
}  
}
```

Parameters

None.

Return Values

The return value indicates whether keypad LED is on(TRUE) or keypad LED is off(FALSE).

Example

```
BOOL bResult;  
bResult = GetKeypadLEDStatus();  
if(bResult == TRUE)  
    AfxMessageBox(_T("Keypad LED on"));  
else if(bResult == FALSE)  
    AfxMessageBox(_T("Keypad LED off"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GoodReadLEDOOn

This function turns on and off goodread LED.

```
DWORD GoodReadLEDOOn
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether turn on goodread LED(TRUE) or turn off goodread LED(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Example

```
DWORD dwResult;
dwResult = GoodReadLEDOOn(TRUE);
if(dwResult != E_FUNC_SUCCEED)
    AfxMessageBox(_T("GoodReadLEDOOn fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

KeypadLEDon

This function always turns on or off keypad LED.

```
DWORD KeypadLEDon
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether turn on keypad LED(TRUE) or turn off keypad LED(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

The KeyPad LED setting in Control Panel is used to set the Keypad LED operation to meet requirements. Called this function will change the KeyPad LED setting to always on or off. You can use this function or KeyPad LED setting in Control Panel to always turn on or off keypad LED.

Example

```
DWORD dwResult;
dwResult = KeypadLEDon(TRUE);
if(dwResult != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("KeypadLEDon fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

System Related Functions

CallSuspend

After called this function, terminal will enter suspend mode.

```
void CallSuspend  
{  
}
```

Parameters

None.

Return Values

None.

Example

```
//suspend device  
CallSuspend();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

EnableAutoConnect

The EnableAutoConnect function turns Autoconnect on and off.

```
BOOL EnableAutoConnect
{
    BOOL bEnable
}
```

Parameters

bEnable

[in] Flag that indicates whether ActiveSync is being automatically executed (TRUE) or ActiveSync is being not automatically executed (FALSE) when user plug cable into terminal.

Return Values

Return TRUE if the operation is successful; otherwise FALSE.

Remarks

After called EnableAutoConnect with bEnable set to TRUE, terminal will automatically execute ActiveSync program when user plug cable into terminal. After called EnableAutoConnect with bEnable set to FALSE, terminal will not automatically execute ActiveSync program when user plug cable into terminal.

Example

```
BOOL bResult;
bResult = EnableAutoConnect(TRUE);
if(bResult == FALSE)
    AfxMessageBox(_T("EnableAutoConnect fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

RegisterAlphaKeyNotification

Register the application to SYSAPIAX.dll, so that SYSAPIAX.dll will send a windows message to the application when the alpha key pressed.

```
DWORD RegisterAlphaKeyNotification
{
    HANDLE hWnd,
    UINT uMsg
}
```

Parameters

hWnd

[in] The window handle of the application that is to receive the message.

uMsg

[in] The message value that is to be sent when alpha key pressed.

Return Values

Return 0 if the operation is successful, otherwise return 1.

Remarks

The application should call `UnregisterAlphaKeyNotification` function to unregister message from the dll.

Example

```
if(RegisterAlphaKeyNotification(this->m_hWnd,WM_USER+0x0001))
    AfxMessageBox(_T("RegisterAlphaKeyNotification FAIL!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

ShowChineseIME

The ShowChineseIME function display and hide the Chinese IME.

```
BOOL ShowChineseIME
{
    BOOL bShow
}
```

Parameters

bShow

[in] Flag that indicates whether display the Chinese IME(TRUE) or hide the Chinese IME(FALSE).

Return Values

Return TRUE if the operation is successful; otherwise FALSE.

Remarks

The Chinese IME only support in Chinese OS. It will work after call this function and reset terminal.

Example

```
BOOL bResult;
bResult = ShowChineseIME(TRUE);
if(bResult == FALSE)
    AfxMessageBox(_T("ShowChineseIME fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

ShowDesktop

The ShowDesktop function display and hide all icons on desktop.

```
BOOL ShowDesktop
{
    BOOL bShow
}
```

Parameters

bShow

[in] Flag that indicates whether display the desktop(TRUE) or hide the desktop(FALSE).

Return Values

Return TRUE if the operation is successful; otherwise FALSE.

Remarks

After called this function with parameter FALSE, terminal will hide all icons on desktop. After called this function with parameter TRUE, terminal will display all icons which had already showed on desktop.

Example

```
BOOL bResult;
bResult = ShowDesktop(TRUE);
if(bResult == FALSE)
    AfxMessageBox(_T("ShowDesktop fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

ShowExploreToolbar

The ShowExploreToolbar function display and hide toolbar on windows explore.

```
BOOL ShowExploreToolbar
{
    BOOL bShow
}
```

Parameters

bShow

[in] Flag that indicates whether display the toolbar on windows explore (TRUE) or hide the toolbar on windows explore (FALSE).

Return Values

Return TRUE if the operation is successful; otherwise FALSE.

Remarks

The ShowExploreToolbar function only effect the windows explorers that opened already.

Example

```
BOOL bResult;
bResult = ShowExploreToolbar(TRUE);
if(bResult == FALSE)
    AfxMessageBox(_T("ShowExploreToolbar fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

ShowTaskbar

The ShowTaskbar function display and hide the taskbar.

```
BOOL ShowTaskbar
{
    BOOL bShow
}
```

Parameters

bShow

[in] Flag that indicates whether display the taskbar(TRUE) or hide the taskbar(FALSE).

Return Values

Return TRUE if the operation is successful; otherwise FALSE.

Remarks

After called this function, terminal will display or hide taskbar. If taskbar is hide by this function, it need to call this function to display taskbar again.

Example

```
BOOL bResult;
bResult = ShowTaskbar(TRUE);
if(bResult == FALSE)
    AfxMessageBox(_T("ShowTaskbar fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

UnRegisterAlphaKeyNotification

The UnregisterAlphaKeyNotification function requests that the application no longer receive alpha key pressed notification messages.

```
DWORD UnregisterAlphaKeyNotification  
{  
    HANDLE hWnd,  
}
```

Parameters

hWnd

[in] The window handle of the application.

Return Values

Return 0 if the operation is successful, otherwise return 1.

Example

```
if(UnregisterAlphaKeyNotification(this->m_hWnd))  
    AfxMessageBox(_T("UnregisterAlphaKeyNotification FAIL!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Vibrator Related Functions

VibratorOn

This function turns on or off Vibration indicator

```
DWORD VibratorOn
{
    BOOL bOn
}
```

Parameters

bOn

[in] Flag that indicates whether turn on vibrator(TRUE) or turn off vibrator LED(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, possible return value is [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

You can use this function to vibrate the terminal to indicate operator that some thing happened. Called this function will not change the “Scanner Vibrator” setting.

Example

```
DWORD dwResult;
dwResult = VibratorOn(TRUE);
if(dwResult != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("VibratorOn fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Wireless Related Function

WL_Enable

This function enable WLAN power.

```
BOOL WL_Enable  
{  
}
```

Parameters

None.

Return Values

If function succeeds, the return value is TRUE. If function fails, the return value is FALSE.

Example

```
DWORD dwResult;  
dwResult = WL_Enable();  
if(dwResult == 0)  
    AfxMessageBox(_T("Open wireless device fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

WL_Disable

This function disable WLAN power.

```
BOOL WL_Disable  
{  
}  
}
```

Parameters

None.

Return Values

If function succeeds, the return value is TRUE. If function fails, the return value is FALSE.

Example

```
DWORD dwResult;  
dwResult = WL_Disable();  
if(dwResult == 0)  
    AfxMessageBox(_T("Close wireless device fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Bluetooth Related Function

BT_Enable

This function enable Bluetooth application and power.

```
BOOL BT_Enable  
{  
}
```

Parameters

None.

Return Values

If function succeeds, the return value is TRUE. If function fails, the return value is FALSE.

Example

```
DWORD dwResult;  
dwResult = BT_Enable();  
if(dwResult == 0)  
    AfxMessageBox(_T("Open Bluetooth fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

BT_Disable

This function disable Bluetooth application and power.

```
BOOL BT_Disable  
{  
}
```

Parameters

None.

Return Values

If function succeeds, the return value is TRUE. If function fails, the return value is FALSE.

Example

```
DWORD dwResult;  
dwResult = BT_Disable();  
if(dwResult == 0)  
    AfxMessageBox(_T("Close Bluetooth fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

BT_On

To ENABLE the Bluetooth function and power.

```
BOOL BT_On  
{  
}  
}
```

Parameters

None.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [BT_ERR_CREATE_FAIL](#), [BT_ERR_INUSING](#).

Example

```
BOOL bResult;  
bResult = BT_On();  
if(bResult != E_FUNC_SUCCEED)  
    AfxMessageBox(_T("Bluetooth enable fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

BT_Off

To DISABLE the Bluetooth function and power.

```
void BT_Off
{
}
```

Parameters

None.

Returned Values

None

Example

```
BT_Off();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

SetDiscoverMode

Enable or disable terminal discovered mode.

```
DWORD SetDiscoverMode
{
    BOOL bEnable
}
```

Parameters

bEnable

[in] Flag that indicates whether to enable (TRUE) or disable (FALSE) the terminal discovered mode

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned value is [BT_ERR_SETTING_FAIL](#).

Example

```
If(SetDiscoverMode(TRUE) != E_FUNC_SUCCEED)
    AfxMessageBox("Setting fail");
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetDiscoverMode

Get terminal current discovered status.

```
BOOL GetDiscoverMode  
{  
}
```

Parameters

None

Returned Values

Return TRUE if terminal can be discovered, otherwise return FALSE.

Example

```
if(GetDiscoverMode())  
    AfxMessageBox(_T("Discover mode is enable"));  
Else  
    AfxMessageBox(_T("Discover mode is disable"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

SetSPPService

Enable or disable Bluetooth serial port profile service.

```
DWORD SetSPPService
{
    BOOL bEnable
}
```

Parameters

bEnable

[in] Flag that indicates whether to enable (TRUE) or disable (FALSE) the serial port profile service mode

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [BT_ERR_SETTING_FAIL](#), [BT_ERR_REG_DEV_FAIL](#), [BT_ERR_SPP_COM_FAIL](#).

Example

```
If(SetSPPService(TRUE) != E_FUNC_SUCCEED)
    AfxMessageBox("Setting fail");
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

GetSPPService

Get terminal current serial port profile service status.

```
BOOL GetSPPService  
{  
}  
}
```

Parameters

None

Returned Values

Return TRUE if SPP service is enable, otherwise return FALSE.

Example

```
if(GetSPPService())  
    AfxMessageBox(_T("SPP service is enable"));  
Else  
    AfxMessageBox(_T("SPP service is disable"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

SetFTPService

Enable or disable File Transfer Profile service.

```
DWORD SetFTPService
{
    BOOL bEnable
}
```

Parameters

bEnable

[in] Flag that indicates whether to enable (TRUE) or disable (FALSE) the File Transfer Profile service mode

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [BT_ERR_SETTING_FAIL](#).

Example

```
if(SetFTPService(TRUE) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Set FTP service fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetFTPService

Get terminal current File Transfer Profile service status.

```
BOOL GetFTPService
{
}
```

Parameters

None

Returned Values

Return TRUE if FTP service is enable, otherwise return FALSE.

Example

```
if(GetFTPService())
    AfxMessageBox(_T("FTP service is enable"));
Else
    AfxMessageBox(_T("FTP service is disable"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

SetFTPWriteable

Enable or disable File Transfer Profile writable.

```
DWORD SetFTPWriteable
{
    BOOL bWriteable
}
```

Parameters

bWriteable

[in] Flag that indicates whether to enable (TRUE) or disable (FALSE) the File Transfer Profile writeable mode

Returned Values

Return [E_FUNC_SUCCEEDED](#) if the operation is successful.

Example

```
if(SetFTPWriteable(TRUE) != E_FUNC_SUCCEEDED)
    AfxMessageBox(_T("Set FTP writeable fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetFTPWriteable

Get terminal current File Transfer Profile writeable status.

```
BOOL GetFTPWriteable  
{  
}  
}
```

Parameters

None

Returned Values

Return TRUE if FTP writeable is enable, otherwise return FALSE.

Example

```
if(GetFTPWriteable())  
    AfxMessageBox(_T("FTP service is writeable"));  
else  
    AfxMessageBox(_T("FTP service is diswriteable));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

SetFTPShareFolder

Setup the File Transfer Profile share folder.

```
DWORD SetFTPShareFolder
{
    WCHAR *strShareFolder
}
```

Parameters

strShareFolder

[in] The folder for File Transfer Profile.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned value is [E_FUNC_PAR_ERROR](#).

Example

```
if(SetFTPShareFolder("\\Temp") != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Set FTP Share Folder fail!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetFTPShareFolder

Get terminal current File Transfer Profile share folder.

```
DWORD GetFTPShareFolder
{
    WCHAR *strShareFolder,
    int *nFolderLen
}
```

Parameters

strShareFolder

[out] The buffer to receive the share folder string

nFolderLen

[in/out] The **strShareFolder** buffer max size. If terminal current share folder length > nFolderLen, the nFolderLen receive current share folder length.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_PAR_ERROR](#), [BT_ERR_INSUFFICIENT](#).

Remarks

If function return [BT_ERR_INSUFFICIENT](#), nFolderLen will receive the share folder length of terminal.

Example

```
WCHAR *strFolder;
int nFolderLen = 256;
strFolder = new WCHAR[nMax];
DWORD dwErr = GetFTPShareFolder(strFolder, & nFolderLen);
If(dwErr == BT\_ERR\_INSUFFICIENT){
    Delete strFolder;
    strFolder = new WCHAR[nFolderLen];
    GetFTPShareFolder(strFolder, & nFolderLen);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h
Link Library: sysapiax.lib
Link DLL: sysapiax.dll
Device: PA60

InitSearchBTDevice

This function initiates search information.

```
DWORD InitSearchBTDevice
{
    HANDLE *hLookup
}
```

Parameters

hLookup

[out] Handle to be used when calling the **FindNextBTDevice** &
EndSearchBTDevice function

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#)., [BT_ERR_DEVICE_ERROR](#).

Remarks

Must call **EndSearchBTDevice** function frees the handle after calls to the **InitSearchBTDevice** and **FindNextBTDevice** function.

Example

```
DWORD dwRe;
HANDLE hLookup;
ULONGLONG btAddress;
WCHAR szDeviceName[128];
dwRe = InitSearchBTDevice(&hLookup)
while(dwRe == E_FUNC_SUCCEED){
    dwRe = FindNextBTDevice(hLookup, szDeviceName, &btAddress, 256);
    if(dwRe == BT_ERR_DEVICE_ERROR)
        break;
    .....
}
EndSearchBTDevice(hLookup);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

FindNextBTDevice

This function retrieves the results of an nearby Bluetooth device search.

```
DWORD FindNextBTDevice
{
    HANDLE hLookup,
    LPTSTR szDeviceName,
    ULONGLONG *btAddress,
    int nNameLen
}
```

Parameters

hLookup

[in] Handle obtained from **InitSearchBTDevice** function

szDeviceName

[out] The buffer to receive the device name string

btAddress

[out] Receive the device address of 64-bit unsigned integer

nNameLen

[in] The **szDeviceName** buffer max size. If terminal device name length > nNameLen, the **szDeviceName** buffer store data of nNameLen length

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Remarks

Must call **EndSearchBTDevice** function frees the handle after calls to the **InitSearchBTDevice** and **FindNextBTDevice** function.

Example

```
#define GET_NAP(_bt_addr)  ((USHORT) (((_bt_addr) &
(ULONGLONG)0xFFFF00000000) >> (8*4)) )

#define GET_SAP(_bt_addr)  ((ULONG) (((_bt_addr) &
(ULONGLONG)0x0000FFFFFFFF) >> (0)) )

DWORD dwRe;
```

```
HANDLE hLookup;
ULONGLONG btAddress;
WCHAR szAddress[16], szDeviceName[128];
dwRe = InitSearchBTDevice(&hLookup)
while(dwRe == E_FUNC_SUCCEED){
    dwRe = FindNextBTDevice(hLookup, szDeviceName, &btAddress, 256);
    if(dwRe == BT_ERR_DEVICE_ERROR)
        break;
    .....
    wsprintf(szAddress, L"%04X%08X", GET_NAP(btAddress),
GET_SAP(btAddress));
    .....
}
EndSearchBTDevice(hLookup);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

EndSearchBTDevice

This function frees the search handle.

```
DWORD EndSearchBTDevice  
{  
    HANDLE hLookup  
}
```

Parameters

hLookup

[in] Handle obtained from **InitSearchBTDevice** function

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
DWORD dwRe;  
HANDLE hLookup;  
ULONGLONG btAddress;  
WCHAR szDeviceName[128];  
dwRe = InitSearchBTDevice(&hLookup)  
while(dwRe == E_FUNC_SUCCEED){  
    dwRe = FindNextBTDevice(hLookup, szDeviceName, &btAddress, 256);  
    if(dwRe == BT_ERR_DEVICE_ERROR)  
        break;  
    .....  
}  
EndSearchBTDevice(hLookup);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

InitSearchFTPDevice

Initial search Bluetooth device support File Transfer Profile service.

```
DWORD InitSearchFTPDevice  
{  
}  
}
```

Parameters

None

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEEDED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
DWORD dwPos, dwRe;  
WCHAR szDeviceName[128];  
ULONGLONG btAddress;  
If(InitSearchFTPDevice() == E_FUNC_SUCCEEDED){  
    dwRe = FindFirstFTPDevice(&dwPos, szDeviceName, & btAddress, 256);  
    while(dwRe == E_FUNC_SUCCEEDED){  
        FindNextFTPDevice(&dwPos, szDeviceName, & btAddress, 256);  
        if(dwRe != E_FUNC_SUCCEEDED)  
            break;  
        .....  
    }  
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

FindFirstFTPDevice

Get the first searched device position information after calling `InitSearchFTPDevice()`.

```
DWORD FindFirstFTPDevice
{
    DWORD *dwPos,
    LPTSTR szDeviceName,
    ULONGLONG *btAddress,
    int nNameLen
}
```

Parameters

dwPos

[in/out] a reference to a position value returned by **FindFirstBTDevice** or **FindNextBTDevice** function

szDeviceName

[out] The buffer to receive the device name string

btAddress

[out] Receive the device address of 64-bit unsigned integer

nNameLen

[in] The **szDeviceName** buffer max size. If terminal device name length > nNameLen, the **szDeviceName** buffer store data of nNameLen length

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
#define GET_NAP(_bt_addr)  ((USHORT) (((_bt_addr) &
(ULONGLONG)0xFFFF00000000) >> (8*4)) )

#define GET_SAP(_bt_addr)  ((ULONG) (((_bt_addr) &
(ULONGLONG)0x0000FFFFFFFF) >> (0)) )

DWORD dwPos, dwRe;
WCHAR szDeviceName[128], szAddress[16];
ULONGLONG btAddress;
If(InitSearchFTPDevice() == E_FUNC_SUCCEED){
```

```
dwRe = FindFirstFTPDevice(&dwPos, szDeviceName, & btAddress, 256);
while(dwRe == E_FUNC_SUCCEED){
    FindNextFPTDevice(&dwPos, szDeviceName, & btAddress, 256);
    if(dwRe != E_FUNC_SUCCEED)
        break;
    .....
    wsprintf(szAddress, L"%04X%08X", GET_NAP(btAddress),
GET_SAP(btAddress));
    .....
}
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

FindNextFTPDevice

Get the next searched device position information.

```
DWORD FindNextFTPDevice
{
    DWORD *dwPos,
    LPTSTR szDeviceName,
    ULONGLONG *btAddress,
    int nNameLen
}
```

Parameters

dwPos

[in/out] a reference to a position value returned by **FindFirstBTDevice** or **FindNextBTDevice** function

szDeviceName

[out] The buffer to receive the device name string

btAddress

[out] Receive the device address of 64-bit unsigned integer

nNameLen

[in] The **szDeviceName** buffer max size. If terminal device name length > nNameLen, the **szDeviceName** buffer store data of nNameLen length

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
#define GET_NAP(_bt_addr)  ((USHORT) (((_bt_addr) &
(ULONGLONG)0xFFFF00000000) >> (8*4)) )

#define GET_SAP(_bt_addr)  ((ULONG) (((_bt_addr) &
(ULONGLONG)0x0000FFFFFFFF) >> (0)) )

DWORD dwPos, dwRe;
WCHAR szDeviceName[128], szAddress[16];
ULONGLONG btAddress;
If(InitSearchFTPDevice() == E_FUNC_SUCCEED){
```

```
dwRe = FindFirstFTPDevice(&dwPos, szDeviceName, & btAddress, 256);
while(dwRe == E_FUNC_SUCCEED){
    FindNextFPTDevice(&dwPos, szDeviceName, & btAddress, 256);
    if(dwRe != E_FUNC_SUCCEED)
        break;
    .....
    wsprintf(szAddress, L"%04X%08X", GET_NAP(btAddress),
GET_SAP(btAddress));
    .....
}
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

PairDevice

Pair terminal with other device.

```
DWORD PairDevice
{
    ULONGLONG btAddress
    unsigned char PinCode[16]
}
```

Parameters

btAddress

[in] The device address for pair with

PinCode

[in] The pin code for connection

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [BT_ERR_PAIR_FAIL](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
if(PairDevice(btAddress, PinCode) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Pair fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

UnPairDevice

Unpair terminal with other device.

```
DWORD UnPairDevice
{
    ULONGLONG btAddress
}
```

Parameters

btAddress

[in] The device address for unpair

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned value is [BT_ERR_DEVICE_ERROR](#).

Example

```
PairDevice(btAddress, PinCode);
.....
UnPairDevice(btAddress);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetComInfo

Get com identifier index and amount from device hardware.

```
DWORD GetComInfo
{
    int *nComSum,
    LPCWSTR pComValue,
    int *nComValueLen
}
```

Parameters

nComSum

[out] Receive the device com amount

pComValue

[out] The buffer to receive the device com identifier index

nComValueLen

[in/out] The **pComValue** buffer max size. If terminal com value length > nComValueLen, the nComValueLen receive current com value length.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned value is [E_FUNC_ERROR](#), [BT_ERR_INSUFFICIENT](#).

Remarks

If function return [BT_ERR_INSUFFICIENT](#), nComValueLen will receive the com value length of terminal.

Example

```
WCHAR * pComValue;
int nComSum = 0, nComValueLen = 10;
pComValue = new WCHAR[nComValueLen];
DWORD dwErr = GetComInfo(&nComSum, pComValue, & nComValueLen);
If(dwErr == BT_ERR_INSUFFICIENT){
    Delete pComValue;
    pComValue = new WCHAR[nComValueLen];
    GetComInfo(&nComSum, pComValue, & nComValueLen);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

ConnectDevice

Connect to Bluetooth device for SPP or FTP.

```
DWORD ConnectDevice
{
    ULONGLONG btAddress,
    CONNECT_INFO *Info,
    BOOL nConnect
}
```

Parameters

btAddress

[in] The device address for connect

Info

[in] The device connect information., see [CONNECT_INFO](#) data structure.

nConnect

[in] Connect status. 1 → connect, 0 → disconnect

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_CHANNEL](#), [BT_ERR_REG_DEV_FAIL](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
if(ConnectDevice(btAddress, &Info, 1) == E_FUNC_SUCCEED){
    .....
}
ConnectDevice(btAddress, &Info, 0);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetConnectStatus

Query the device connect status.

```
DWORD GetConnectStatus
{
    ULONGLONG btAddress,
    int nConnectType,
    LPCWSTR pCom,
    int *nStatus
}
```

Parameters

btAddress

[in] Bluetooth device address

nConnectType

[in] Connect profile type. 1 → Serial port profile, 2 → File transfer profile

pCom

[in] The connect com for Serial port profile, must be four characters long.

Contains "COM"+ com identifier index, for example "COM7". If

nConnectType parameter is 2 (FTP), **pCom** ben't to check

nStatus

[out] The device connect status

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned value is [E_FUNC_PAR_ERROR](#).

Example

```
GetConnectStatus(btAddress, 1, _T("COM7"), &nStatus);
if(nStatus)
    AfxMessageBox(_T("SPP Connect!!"));
else
    AfxMessageBox(_T("SPP Disconnect"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

GetSPPClientChannel

Get the device serial port profile channel.

```
DWORD GetSPPClientChannel
{
    ULONGLONG btAddress,
    int *nChannel
}
```

Parameters

btAddress

[in] The device address which to get SPP channel

nChannel

[out] Receive queried channel

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [BT_ERR_DEVICE_ERROR](#).

Example

```
if(GetSPPClientChannel(btAddress, &nChannel) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Get channel fail!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

FindFirstFTPFile

Get first file information from share folder in the connected device.

```
DWORD FindFirstFTPFile
{
    WCHAR *path,
    FTP_FILE *File
}
```

Parameters

path

[in] The path of connected device for search file.

File

[out] The first searched file information in the path, see [FTP_FILE](#) data structure.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#), [BT_ERR_FTP_DIR_FAIL](#), [BT_ERR_FTP_EMPTY_FILE](#).

Example

```
FTP_FILE File;
DWORD dwErr = FindFirstFTPFile(_T("\\"), &File);
If(dwErr==E_FUNC_SUCCEED){
    Do{
        .....
        dwErr = FindNextFTPFile(&File);
    }while(dwErr == E_FUNC_SUCCEED);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

FindNextFTPFile

Get next file information from share folder in the connected device.

```
DWORD FindNextFTPFile
{
    FTP_FILE *File
}
```

Parameters

File

[out] The received file information, see [FTP_FILE](#) data structure.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEEDED](#). If the action fails, possible returned values are [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#), [BT_ERR_FTP_EMPTY_FILE](#).

Example

```
FTP_FILE File;
DWORD dwError = FindFirstFTPFile(_T("\\"), &File);
If(dwErr == E_FUNC_SUCCEEDED){
    Do{
        .....
        dwErr = FindNextFTPFile(&File);
    }while(dwErr == E_FUNC_SUCCEEDED);
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

GetFTPFile

Get file from share folder in the connected device.

```
DWORD GetFTPFile
{
    LPCWSTR pTargetFile
}
```

Parameters

pTargetFile

[in] The file to get from connected device

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#).

Example

```
if(GetFTPFile(_T(\\record.txt)) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Get file fail!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

PutFTPFile

Send file to share folder in the connected device.

```
DWORD PutFTPFile
{
    LPCWSTR pSourceFile,
    LPCWSTR pTargetPath
}
```

Parameters

pSourceFile

[in] The source file in the share folder to transfer to connected device.

pTargetPath

[in] The target path in the connected device to save file.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#).

Example

```
if(PutFTPFile(_T(\\Temp\\record.txt), _T(\\Collect)) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Put file fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

CreateFTPFolder

Create a new folder to share folder in the connected device.

```
DWORD CreateFTPFolder
{
    LPCWSTR pTarget
}
```

Parameters

pTarget

[in] The folder which be created to share folder in the connected device

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#).

Example

```
if(CreateFTPFolder(_T("\\ FTP Folder") != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Create folder fail!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapiax.h

Link Library: sysapiax.lib

Link DLL: sysapiax.dll

Device: PA60

DeleteFTPFolder

Delete folder from share folder in connected device.

```
DWORD DeleteFTPFolder
{
    LPCWSTR pTarget
}
```

Parameters

pTarget

[in] The folder will be deleted from share folder in the connected device

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#).

Example

```
if>DeleteFTPFolder(_T("\\FTP Folder")) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Delete folder fail!!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

DeleteFTPFile

Delete file from share folder in connected device.

```
DWORD DeleteFTPFile
{
    LPCWSTR pTarget
}
```

Parameters

pTarget

[in] The file will be deleted from share folder in the connected device.

Returned Values

If the action succeeds, the returned value is [E_FUNC_SUCCEED](#). If the action fails, possible returned values are [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#), [BT_ERR_DEVICE_NOT_CONNECT](#).

Example

```
if(DeleteFTPFile(_T("\\ FTP Folder \\record.txt")) != E_FUNC_SUCCEED)
    AfxMessageBox(_T("Delete file fail!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: sysapi.h

Link Library: sysapi.lib

Link DLL: sysapi.dll

Device: PA60

Bluetooth Structure

CONNECT_INFO Structure

This setting file contains information used by [ConnectDevice](#) .

```
Struct CONNECT_INFO
{
    int nChannel;
    int nConnectType;
    WCHAR strCom[6];
}
```

Members

nChannel

The connect channel for Serial port profile

nConnectType

Connect profile type. 1 → Serial port profile, 2 → File transfer profile

strCom

The connect com for Serial port profile, must be four characters long.. Contains "COM"+ com identifier index, for example "COM7". If **nConnectType** member is 2 (FTP), **strCom** ben't to check

Structure Information

Header: sysapi.h

Device: PA60

FTP_FILE Structure

This setting file contains information used by [FindFirstFTPFile](#), [FindNextFTPFile](#) .

```
Struct FTP_FILE
{
    int nFileType;
    WCHAR strPath[260];
    WCHAR strFile[260];
    DWORD dwFileSize;
}
```

Members

nFileType

File object profile type. 0 → File, 1 → Folder

strPath

The file path

strFile

The file name; It will be null if the object is a folder

dwFileSize

The file size , in bytes; It will be 0 if the object is a folder.

Structure Information

Header: sysapi.h

Device: PA60

SCANAPIAX.DLL

We supply SCANAPIAX.DLL to allow programmer to control scan device status. There are several functions for user to use. User can use WINCE develop tool which like Visual Studio 2005 to develop application program to control scanner.

In this library, there are three different ways to control scanner module. These are API_SCAN, Scan2Key and Scanner related functions. Each related function can be used to control scanner module in different way. These three related functions can not be used at the same time. User should decide a suitably way to develop application. The following shows functions description.

API_SCAN Related Functions

User use API_SCAN related functions to register application to SCANAPIAX.dll. API_SCAN functions will send messages to report all activities, including error messages and scan data ready.

- [API_Register](#) – Register the application to SCANAPIAX.dll
- [API_Unregister](#) – Un-register the application from SCANAPIAX.dll
- [API_GetBarData](#) – Get barcode data into the buffer.
- [API_GetBarDataLength](#) – Return the scan data length.
- [API_GetBarType](#) – Return the barcode type.
- [API_GetError](#) – Get the error code.
- [API_GetSysError](#) – Return the system error code.
- [API_GoodRead](#) – Play sound and flash LED.
- [API_LoadSettingFromFile](#) – Loader scanner setting form file.
- [API_Reset](#) – Reset the scanner setting to default status.
- [API_ResetBarData](#) – Clear the data buffer that the next new scan data can come in.
- [API_SaveSettingToFile](#) – Save current scanner setting to file.
- [API_SaveSettingsToScanner](#) – Write the current scanner setting into scanner.
- [S2K_IsLoad](#) – Check the scan.exe is running or not.
- [S2K_Load](#) – Load or unload the scan.exe.
- [SCAN_QueryStatus](#) – Query scanner setting.
- [SCAN_SendCommand](#) – Send scanner command to change scanner status.
- [SCAN_ResumeSystem](#) – Enable/Disable scan key to resume system.
- [SCAN_BatchSetting](#) – Setup scanner in batch command.
- [SCAN_BatchRead](#) – Read scanner setting in batch command.
- [GetScannerDevice](#) – Get scanner engine type.
- [SCAN_EnablePowerOnAlert](#)—Setupt scanner light power on alert status

-
-
- [SCAN_GetPowerOnAlert](#)—Get scanner power on alert status
 - [SCAN_BatchSetting_V1](#) – Setup scanner in batch command.
 - [SCAN_BatchRead_V1](#) – Read scanner setting in batch command.

[Scan2Key Related Functions](#)

User use Scan2Key related functions to control scan.exe program. When scan.exe is loaded, scan data will send to key buffer. User application can be get scan data just like standard keyboard input.

- [PT_OpenScan2Key](#) – Execute scan.exe to scan barcode data into Terminal key buffer.
- [PT_CloseScan2Key](#) – Close scan.exe.
- [PT_SetToDefault](#) – Reset the scanner setting.

[Scanner Related Functions](#)

User use Scanner related functions to control scanner module without messages. When user use Scanner related functions, scan data will store in system buffer.

- [PT_EnableScanner](#) – Enable scanner to scan barcode.
- [PT_DiableScanner](#) – Disable scanner.
- [PT_CheckBarcodeData](#) – Check whether there is barcode data on system buffer.
- [PT_GetBarcodeData](#) – Get barcode data and type from system buffer.
- [PT_SetDeault](#) – Reset the scanner setting to default value.

[Scan Key Related Functions](#)

- [EnableTriggerKey](#) – Enable and disable scan key.
- [GetLibraryVersion](#) – Get the library version.
- [GetTriggerKeyStatus](#) – Get scan key status.
- [PressTriggerKey](#) – Trigger scan key.
- [TriggerKeyStatus](#) – Get scan key press status.

[Scan Command Table](#)

The scan command table of terminal is used for SCAN_QueryStatus and SCAN_SendCommand functions. The scan command provides the different way to setup scan settings.

When user wants to use this library, user should link SCANAPIAX.DLL, SCANAPIAX.LIB and the relate functions header file (SCANAPIAX.H).

API_SCAN Related Functions

API_Register

Register the application to SCANAPIAX.dll, so that SCANAPIAX.dll can communication with the application. It will also open scanner module to working mode.

```
BOOL API_Register
{
    HWND hwnd
}
```

Parameters

hwnd

[in] the window handle which library will send message to report all activities of scanner.

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Remarks

The application must call `API_Unregister` to unregister from the dll and close scanner module after done with scanner. The messages can be one of the followings:

`SM_DATA_READY` : Indicates that scan data is successfully reading and ready to retrieve.

`SM_ERROR_SYS` : Indicates a system error, which is caused by calling system function. Call `API_GetSysError` to get the system error code.

`SM_ERROR_API` : Indicates an error. Call `API_GetError` to get error code.

Example

```
if(!API_Register(theApp.GetMainWnd()->m_hWnd))
    AfxMessageBox(_T("API_Register FAIL!!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_Unregister

Unregister the application from SCANAPIAX.dll and close scanner module.

```
void API_Unregister  
{  
}
```

Parameters

None

Return Values

None.

Example

```
API_Unregister();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GetBarData

Get Barcode into the buffer. When you get the message SM_DATA_READY, call this function to get the barcode data.

```
UINT API_GetBarData
{
    LPBYTE buffer,
    UINT * uiLength,
    UINT * uiBarType
}
```

Parameters

buffer

[out] buffer for string scanned data.

uiLength

[in/out] buffer size

uiBarType

[out] barcode type

Return Values

Return 1 if the operation is successful, otherwise return 0.

Remarks

If the buffer size is less than scan data, function return 0 and the parameter uiLength return the size of the buffer to get barcode data.

Example

```
if(message == SM_DATA_READY){
    CString    strBarData,strBarType;
    UINtSize, uiType, i;
    char  *pBuf;

    uiSize = uiType = 0;
    API_GetBarData(NULL,  &uiSize, &uiType);
    if(uiSize == 0)
        strBarData = _T("No Data");
    else{
```

```
pBuf = (char *)new char[uiSize+1];
memset(pBuf, 0, uiSize+1);
API_GetBarData((LPBYTE)pBuf, &uiSize, &uiType);
strBarType.Format(_T("%d"), uiType);
for(i = 0 ; i < strlen(pBuf); i++)
    strBarData += *(pBuf+i);
}
AfxMessageBox( _T("Type:") + strBarType + _T("\r\nBarcode:") +
strBarData);
return 0;
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GetBarDataLength

Get the scan data length.

```
UINT API_GetBarDataLength
{
}
```

Parameters

None

Return Values

Scan data length

Example

```
if(message == SM_DATA_READY){
    CString strData;
    UINT uiSize, uiType, i, uiLength;
    char *pBuf;
    uiLength = API_GetBarDataLength();
    if(uiLength == 0)
        strData = _T("No Data");
    else{
        uiSize = uiLength+1;
        pBuf = (char *)new char[uiSize];
        memset(pBuf, 0, uiSize);
        API_GetBarData((LPBYTE)pBuf, &uiSize, &uiType);
        for(i = 0 ; i < strlen(pBuf); i++)
            strData += *(pBuf+i);
    }
    AfxMessageBox(strData);
    return 0;
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GetBarType

Get the barcode type.

```
UINT API_GetBarType  
{  
}  
}
```

Parameters

None

Return Values

Return the barcode type

Remarks

value	Barcode	value	Barcode
BC_CODE11(100)	Code 11	BC_UPCA(113)	UPCA
BC_CODE39(101)	Code 39	BC_UPCE(114)	UPCE
BC_CODE93(102)	Code 93	BC_MATRIX_25(115)	Matrix 25
BC_CODE128(103)	Code 128	BC_PDF417(116)	PDF 417
BC_CODABAR(104)	Codabar	BC_CODE16K(117)	Code 16k
BC_EAN8(105)	EAN8	BC_CHINAPOST(118)	China Post
BC_EAN13(106)	EAN13	BC_RSS14(119)	RSS 14
BC_INDUSTRIAL_25(107)	Industrial 2 of 5	BC_RSS_LIMITED(120)	RSS Limited
BC_INTERLEAVED_25(108)	Interleaved 2 of 5	BC_RSS_EXPANDED(121)	RSS Expanded
BC_STANDARD_25(109)	Standard 2 of 5	BC_PHARMACODE39(122)	Pharama code39
BC_MSI_PLESSEY(110)	MSI Plessey	BC_MICRO_PDF(123)	Micro PDF
BC_UK_PLESSEY(111)	UK Plessey	BC_EANUCC(124)	UCC.EAN composite
BC_TELEPEN(112)	Telepen		

Example

```
uiType = API_GetBarType();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GetError

Get the error code.

```
DWORD API_GetError  
{  
}  
}
```

Parameters

None

Return Values

The return value can be one of the following table:

Constant	Value	Description
ERR_WRITE_FAIL	WM_USER+1	Send commands to scanner module failed.
ERR_SETTING_FAIL	WM_USER+2	Set scanner setting failed.
ERR_SCANNER_NOT_OPEN	WM_USER+3	Open scanner module failed.
ERR_INVALID_FILE	WM_USER+4	Invalid setting file.

Example

```
dwError = API_GetError();  
strMess.Format(_T("API Error Code: %d"), dwError);  
AfxMessageBox(strMess);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GetSysError

Get the system error code.

```
DWORD API_GetSysError  
{  
}  
}
```

Parameters

None

Return Values

Return the system error code that is returned by GetLastError(). The description of system error code can be find in MSDN.

Example

```
dwError = API_GetSysError();  
strMess.Format(_T("System Error Code: %d"), dwError);  
AfxMessageBox(strMess);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_GoodRead

This function plays a sound when buzzer indication of scan module is enable and flashes the goodread LED when the LED indication of scan module is enable.

```
void API_GoodRead
{
}
```

Parameters

None

Return Values

None.

Remarks

Use *API_GoodRead()* to indicate user barcode data is scanned. The buzzer indication of scan module can be set by scan configuration program in control panel. The LED indication of scan module can be set by *SCAN_SendCommand()* function. If buzzer and LED indication are disable, the *API_GoodRead* will do nothing.

Example

```
API_GoodRead();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_LoadSettingsFromFile

Load scanner setting from file.

```
BOOL API_LoadSettingsFromFile
{
    LPCTSTR filename
}
```

Parameters

filename

[in] the scanner setting file(*.axs)

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
CString strFile;
CFileDialog    dlg(TRUE, NULL, NULL, OFN_FILEMUSTEXIST |
OFN_PATHMUSTEXIST);

if(dlg.DoModal() != IDOK)
    return;

strFile = dlg.GetPathName();
if(theApp.m_API_LoadSettingsFromFile(strFile))
    AfxMessageBox(_T("Load form file Succeed"));
else
    AfxMessageBox(_T("Load from file Fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_Reset

Reset the scanner setting to the default.

```
BOOL API_Reset  
{  
}  
}
```

Parameters

None

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
if(API_Reset())  
    AfxMessageBox(_T("Reset Succeed"));  
else  
    AfxMessageBox(_T("Reset Fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_ResetBarData

Clear the data buffer that the next new scan data can come in.

```
void API_ResetBarData
{
}
```

Parameters

None

Return Values

None.

Example

```
API_ResetBarData();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_SaveSettingsToFile

Save current scanner settings to file. The extension file name is “axs”.

```
BOOL API_SaveSettingsToFile
{
    LPCTSTR filename
}
```

Parameters

filename

[in] the file name for the setting file.

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
CString strFile;
CFileDialog dlg(FALSE, _T("axs"), NULL, OFN_CREATEPROMPT, _T("Scanner
Settings Files (*.axs) |*.axs || "));

if(dlg.DoModal() != IDOK)
    return;

strFile = dlg.GetPathName();
if(API_SaveSettingsToFile(strFile))
    AfxMessageBox(_T("Save to file Succeed"));
else
    AfxMessageBox(_T("Save to file Fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

API_SaveSettingsToScanner

Write the current scanner setting into scanner.

```
BOOL API_SaveSettingsToScanner  
{  
}
```

Parameters

None

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
if(API_SaveSettingsToScanner())  
    AfxMessageBox(_T("Save to Scanner Succeed"));  
else  
    AfxMessageBox(_T("Save to Scannere Fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

S2K_IsLoad

Check the application scan.exe(scan barcode data into key buffer) is running.

```
BOOL S2K_IsLoad
{
}
```

Parameters

None

Return Values

The return value TRUE indicates that scan.exe is running. The return value FALSE indicates that scan.exe is not running.

Example

```
if(S2K_IsLoad()){
    AfxMessageBox(_T("scan.exe load"));
}
else
    AfxMessageBox(_T("scan.exe does not load"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

S2K_Load

Load or unload the scan.exe.

```
BOOL S2K_Load
{
    BOOL bLoad,
    DWORD dwTimeOut
}
```

Parameters

bLoad

[in] To set true to load scan.exe and false to unload scan.exe

dwTimeOut

[in] When unload scan.exe it will wait until the scan.exe closed or timeout by this parameter.

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
if(S2K_Load(FALSE,1000)){
    AfxMessageBox(_T("unload scan.exe success"));
}
else
    AfxMessageBox(_T("unload scan.exe failed"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_QueryStatus

Query current scanner setting.

```
BOOL SCAN_QueryStatus
{
    int nCommand1,
    int nCommand2,
    char *pReturn
}
```

Parameters

nCommand1

[in] See [scan command table](#).

nCommand2

[in] See [scan command table](#).

pReturn

[out] The current scanner setting. This buffer size must be large than 100.

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Remarks

The *pReturn* value is depending on *nCommand1* and *nCommand2*. The *nCommand1* and *nCommand2* decide which scanner setting to be queried.

Example

```
char      *pValue;
pValue = (char *)new char[100];
memset(pValue, 0, 100);
//query Buzzer indication setting
SCAN_QueryStatus(5, 3, pValue);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapi.h

Link Library: scanapi.lib

Link DLL: scanapi.dll

Device: PA60

SCAN_SendCommand

Send scanner command to change scanner status.

```
BOOL SCAN_SendCommand
{
    int nCommand1,
    int nCommand2,
    char *pValue
}
```

Parameters

nCommand1

[in] See [scan command table](#).

nCommand2

[in] See [scan command table](#).

pValue

[in] See [scan command table](#).

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
//Enable Buzzer indication setting
if(SCAN_SendCommand(5, 3, "1"))
    AfxMessageBox(_T("Setup complete"));
else
    AfxMessageBox(_T("Setup false"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_ResumeSystem

Enable/Disable scan key to resume system

```
DWORD SCAN_ResumeSystem
{
    BOOL bOn
}
```

Parameters

bOn
[in]

Return Values

Return 0 if function succeed; return the system error code that is returned by GetLastError(). The description of system error code can be find in MSDN..

Example

```
//Enable scan key to resume system
if(SCAN_ResumeSystem(1) == 0)
    AfxMessageBox(_T("Enable scan key to resume system succeed"));
else
    AfxMessageBox(_T("Enable scan key to resume system fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_BatchSetting

Setup scanner in batch command

```
DWORD SCAN_BatchSetting
{
    ScannerSetting setting
}
```

Parameters

setting

[in] The scanner setting configure. The barcode setting refer to [scan command table](#).

Return Values

Return: FALSE if the operation is success, otherwise return SM_ERROR_SYSTEM, SM_ERROR_API,

Example

```
ScannerSetting    setting;
setting.Code11.m_uiRead = 1;
setting.Code39.m_uiRead = 1;
.....
SCAN_BatchSetting(setting);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_BatchRead

Read scanner setting in batch command

```
DWORD SCAN_BatchRead  
{  
    ScannerSetting *setting  
}
```

Parameters

setting

[in] The buffer is to receive scanner setting configure. The barcode setting refer to [scan command table](#).

Return Values

Return FALSE if the operation is success, ERR_SCANNER_NOT_OPEN if the scanner is not opened.

Example

```
ScannerSetting    setting;  
SCAN_BatchRead(&setting);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

GetScannerDevice

Get scanner device type

```
DWORD GetScannerDevice  
{  
}  
}
```

Parameters

None

Return Values

Return FALSE if the scanner device is not ready

1 → 1D scanner engine

2 → 2D scan engine

Example

```
int nDevice;  
nDevice = GetScannerDevice();  
If(nDevice == 1){ // 1D scanner  
}  
Else if(nDevice == 2){ // 2D scanner  
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_EnablePowerOnAlert

Set the scanner light power on alert status

```
DWORD SCAN_EnablePowerOnAlert
{
    int nEnable
}
```

Parameters

nEnable

[in] TRUE to enable scanner light when scanner power on and False to dable scanner light when scanner power on

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, possible return value are [ERR_SCANNER_NOT_OPEN](#), [E_FUNC_PAR_ERROR](#), [E_SCAN_SETTING_FAIL](#).

Example

```
int nError;
nError = SCAN_EnablePowerOnAlert(TRUE);
If(nError == 0){ // Function succeed
}
else{           // Function fail
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_GetPowerOnAlert

Get scanner power on alert status

```
int SCAN_GetPowerOnAlert
{
}
```

Parameters

None

Return Values

Return: FALSE if the scanner power on alert is disable

1 if the scanner power on alert is enable

Example

```
If(SCAN_GetPowerOnAlert()){    // Scanner power on alert is enable
}
else){    // Scanner power on alert is disable
}
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_BatchSetting_V1

Setup scanner in batch command

```
DWORD SCAN_BatchSetting_V1
{
    ScannerSetting_V1 setting
}
```

Parameters

setting

[in] The scanner setting configure. The barcode setting refer to [scan command table](#).

Return Values

Return: FALSE if the operation is success, otherwise return SM_ERROR_SYSTEM, SM_ERROR_API,

Remark:

It can setup more setting than SCAN_BatchSetting()

7-1(Scanning mode), 7-2(Standby duration), 7-12(Stand mode)

Example

```
ScannerSetting_V1      setting;
setting.Code11.m_uiRead = 1;
setting.Code39.m_uiRead = 1;
.....
SCAN_BatchSetting_V1(setting);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

SCAN_BatchRead_V1

Read scanner setting in batch command

```
DWORD SCAN_BatchRead_V1
{
    ScannerSetting_V1 *setting
}
```

Parameters

setting

[out] The buffer is to receive scanner setting configure. The barcode setting refer to [scan command table](#).

Return Values

Return FALSE if the operation is success, ERR_SCANNER_NOT_OPEN if the scanner is not opened.

Remark:

It can get more setting than SCAN_BatchRead()

7-1(Scanning mode), 7-2(Standby duration), 7-12(Stand mode)

Example

```
ScannerSetting_V1    setting;
SCAN_BatchRead_V1(&setting);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

Scan2Key Related Functions

PT_OpenScan2Key

Execute scan.exe to scan barcode data into Terminal key buffer.

```
BOOL PT_OpenScan2Key  
{  
      
}
```

Parameters

None

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
BOOL bResult;  
bResult = PT_OpenScan2Key();  
if(!bResult)  
    AfxMessageBox(_T("PT_OpenScan2Key fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PT_CloseScan2Key

Close scan.exe.

```
void PT_CloseScan2Key
{
}
```

Parameters

None

Return Values

None.

Example

PT_CloseScan2Key()

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PT_SetToDefault

Reset the scanner setting. All scanner setting will reset to default value.

```
int PT_SetToDefault
{
}
```

Parameters

None

Return Values

Return 1 if the operation is successful, otherwise return 0.

Example

```
if(!PT_SetToDefault())
    AfxMessageBox(_T("PT_SetToDefault fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

Scanner Related Functions

PT_EnableScanner

Enable scanner to scan barcode. This function creates a thread to get scan data from scanner module and store scan data in the system buffer. Application can use function call PT_GetBarcodeData to get scan data from system buffer.

```
int PT_EnableScanner
{
}
```

Parameters

None

Return Values

Return

0 if the operation is successful,

ERR_INVALID_SCANNER_VER if scanner firmware is invalid

1 if the operation is fail

Example

```
if(PT_EnableScanner())
    AfxMessageBox(_T("PT_EnableScanner fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PT_DisableScanner

This function will close scanner module.

```
void PT_DisableScanner  
{  
}
```

Parameters

None

Return Values

None.

Example

```
PT_DisableScanner();
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PT_CheckBarcodeData

Check whether there is available barcode data in system buffer.

```
BOOL PT_CheckBarcodeData  
{  
}
```

Parameters

None

Return Values

This function returns TRUE if there are barcode data in system buffer. This function returns FALSE if there are no barcode data in system buffer.

Example

```
if(PT_CheckBarcodeData())  
    m_strScanData = _T("There are barcode data in system buffer");  
else  
    m_strScanData = _T("There are no barcode data in system buffer ");
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PT_GetBarcodeData

Get Barcode data and type from system buffer.

```
BOOL PT_GetBarcodeData
{
    UINT * uiBarType,
    Char * pBuffer,
    UINT * uiMaxBufferLen
}
```

Parameters

uiBarType

[out] barcode type.

pBuffer

[out] buffer for storing scanned data..

uiMaxBufferLen

[in/out] The max buffer size

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Remarks

If the buffer size is less than scan data, function return 0 and the parameter *uiMaxBufferLen* return the size of barcode data.

Example

```
if(PT_CheckBarcodeData()){
    if(PT_GetBarcodeData(&uiBarType, pBarData, &uiMaxLen)){
        for(i = 0 ; i < strlen(pBarData) ; i++)
            m_strScanData += *(pBarData + i);
    }
    else
        m_strScanData = _T("Can't get scan data");
}
else
    m_strScanData = _T("No Scan Data");
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h
Link Library: scanapiax.lib
Link DLL: scanapiax.dll
Device: PA60

PT_SetDefault

Reset the scanner setting to default value.

```
BOOL PT_SetDefault  
{  
}  
}
```

Parameters

None

Return Values

Return TRUE if the operation is successful, otherwise return FALSE.

Example

```
if(PT_SetDefault())  
    AfxMessageBox(_T("PT_SetDefault succeed"));  
else  
    AfxMessageBox(_T("PT_SetDefault fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

Scan Key Related Functions

EnableTriggerKey

This function will enable or disable scan key.

```
DWORD EnableTriggerKey
{
    BOOL bEnable
}
```

Parameters

bEnable

[in] Flag that indicates whether enable scan key(TRUE) or disable scan key(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEEDED](#). If function fails, the return value is [E_FUNC_ERROR](#), [E_FUNC_PAR_ERROR](#).

Remarks

This function is meaningful only if scanner is opened. The warm reset will enable scan key automatically.

Example

```
BOOL bResult;
bResult = EnableTriggerKey(TRUE);
if(bResult)
    AfxMessageBox(_T("EnableTriggerKey Succeed"));
Else
    AfxMessageBox(_T("EnableTriggerKey Fail"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

GetLibraryVersion

Get library version number.

```
int GetLibraryVersion  
{  
}
```

Parameters

None

Return Values

The version number. If the return value is 101, it means that dll version is 1.01

Example

```
int nVersion;  
CString strTemp;  
nVersion = GetLibraryVersion();  
strTemp.Format(_T("Version = %d"), nVersion);  
AfxMessageBox(strTemp);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

GetTriggerKeyStatus

This function will get scan key status.

```
DWORD GetTriggerKeyStatus  
{  
}
```

Parameters

None.

Return Values

The return value 1 indicates that scan key is enable. The return value 0 indicates that scan key is disable.

Example

```
if(GetTriggerKeyStatus())  
    AfxMessageBox(_T("scan key ensable!"));  
else  
    AfxMessageBox(_T("scan key disable!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

PressTriggerKey

This function will trigger scan key.

```
DWORD PressTriggerKey
{
    BOOL bPress
}
```

Parameters

bPress

[in] Flag that indicates whether press scan key(TRUE) or release scan key(FALSE).

Return Values

If function succeeds, the return value is [E_FUNC_SUCCEED](#). If function fails, the return value is [E_FUNC_ERROR](#).

Remarks

This function is meaningful only if scanner is opened.

Example

```
PressTriggerKey(TRUE);
Sleep(1000);
PressTriggerKey(FALSE);
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

TriggerKeyStatus

This function will get scan key press status.

```
DWORD TriggerKeyStatus  
{  
}  
}
```

Parameters

None.

Return Values

The return value 1 indicates that scan key is pressed. The return value 0 indicates that scan key is released.

Example

```
if(TriggerKeyStatus())  
    AfxMessageBox(_T("scan key pressed!"));  
else  
    AfxMessageBox(_T("scan key release!"));
```

Requirements

OS Versions: Windows CE 5.0 and later.

Header: scanapiax.h

Link Library: scanapiax.lib

Link DLL: scanapiax.dll

Device: PA60

Scan Command Table

Command1	Command2	Value
5 Indication	2 LED indication	0: Disable 1: Enable(*)
	3 Buzzer indication	0: Disable 1: Enable(*)
6 Transmission	7 Code ID position	0: Before code data(*) 1: After code data
	8 Code ID transmission	0: Disable(*) 1: Proprietary ID 2: AIM ID
	9 Code length transmission	0: Disable(*) 1: Enable
	10 Code name transmission	0: Disable(*) 1: Enable
	11 Case conversion	0: Disable(*) 1: Upper case 2: Lower case
7 Scan	1 Scanning Mode	1: Momentary(*) 4: Continue
	2 Standby duration	0 ~ 99(default: 6)
	4 Double confirm	0 ~ 9(default: 0)
	6 Global min. code length	0 ~ 64(default: 4)
	7 Global max. code length	0 ~ 64(default: 63)
	8 Inverted image scan	0: Disable(*) 1: Enable
	12 Stand mode(※1)	0: LED ON(*) 1: LED OFF
8 String setting	2 Suffix characters setting	0x00 ~ 0xff ASCII code(default: 0x0D) 22 characters.

	3 Preamble characters settings	0x00 ~ 0xff ASCII code(default: NULL) 22 characters.
	4 Postamble characters settings	0x00 ~ 0xff ASCII code(default: NULL) 22 characters.
10 Code 11	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable 1: One digit(*) 2: Two digits
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: 0)
11 Code 39	1 Read	0: Disable 1: Enable(*)
	2 Check-sum verification	0: Disable(*) 1: Enable
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 20(default: 0) 20: Truncate characters before space
	7 Truncate ending	0 ~ 15(default: 0)
	8	0x00 ~ 0xff ASCII code(1 or 2 bytes)

	Code ID setting	(default: *)
	10 Format	0: Standard(*) 1: Full ASCII
	13 Start/stop transmission	0: Disable(*) 1: Enable
12 Code 93	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable 1: Enable(*)
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: &)
13 Code 128	1 Read	0: Disable 1: Enable(*)
	2 Check-sum verification	0: Disable 1: Enable(*)
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: #)

	10 Format	0: Standard(*) 1: UCC.EAN 128
	12 UCC/EAN 128 ID setting	0x00 ~ 0xff ASCII code(1 bytes) (default: #)
	13 Concatenation code	0x00 ~ 0xff ASCII code(1 bytes) (default: 0x1D)
14 Codabar	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable(*) 1: Enable
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: %)
	10 Start/stop type	0: ABCD/ABCD(*) 1: abcd/abcd 2: ABCD/TN*E 3: abcd/tn*e
	11 Start/stop transmission	0: Disable(*) 1: Enable
15 EAN 8	1 Read	0: Disable 1: Enable(*)
	3 Check-sum transmission	0: Disable 1: Enable(*)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: FF)

	10 Supplement digits	0: None(*) 1: 2 digits 2: 5 digits 3: 2, 5 digits 4: UCC/EAN 128 5: 2, UCC/EAN 128 6: 5, UCC/EAN 128 7: All
	11 Truncation/expansion	0: None(*) 1: Truncate leading zero 2: Expand to EAN 13
	12 Expansion	0: Disable(*) 1: Enable
16 EAN 13	1 Read	0: Disable 1: Enable(*)
	3 Check-sum transmission	0: Disable 1: Enable(*)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: F)
	10 Supplement digits	0: None(*) 1: 2 digits 2: 5 digits 3: 2, 5 digits 4: UCC/EAN 128 5: 2, UCC/EAN 128 6: 5, UCC/EAN 128 7: All
	12 ISBN/ISSN conversion	0: Disable(*) 1: Enable
17 Industrial 2 of 5	1 Read	0:Disable(*) 1:Enable
	4 Max. code length	0 ~ 64(default: 0)
	5	0 ~ 64(default: 0)

	Min. code length	
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: i)
18 Interleaved 2 of 5	1 Read	0: Disable 1: Enable(*)
	2 Check-sum verification	0: Disable(*) 1: Enable
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: i)
19 Standard 2 of 5	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable(*) 1: Enable
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes)

	Code ID setting	(default: i)
20 MSI Plessey	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable 1: Mod 10(*) 2: Mod 10/10 3: Mod 11/10
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: @)
21 UK Plessey	1 Read	0: Disable(*) 1: Enable
	2 Check-sum verification	0: Disable 1: Enable(*)
	3 Check-sum transmission	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 0)
	5 Min. code length	0 ~ 64(default: 0)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: @)
22 Telepen	1 Read	0: Disable(*) 1: Enable
	2	0: Disable(*)

	Check-sum verification	1: Enable
	3	0: Disable(*)
	Check-sum transmission	1: Enable
	4	0 ~ 64(default: 0)
	Max. code length	
	5	0 ~ 64(default: 0)
	Min. code length	
	6	0 ~ 15(default: 0)
	Truncate leading	
23 UPCA	7	0 ~ 15(default: 0)
	Truncate ending	
	8	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: S)
	Code ID setting	
	10	0: Numeric(*)
	Format	1: Full ASCII
	1	0: Disable
	Read	1: Enable(*)
	3	0: Disable
	Check-sum transmission	1: Enable(*)
	6	0 ~ 15(default: 0)
	Truncate leading	
	7	0 ~ 15(default: 0)
	Truncate ending	
	8	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: A)
	Code ID setting	
	10	0: None(*)
	Supplement digits	1: 2 digits 2: 5 digits 3: 2, 5 digits 4: UCC/EAN 128 5: 2, UCC/EAN 128 6: 5, UCC/EAN 128 7: All
	11	0: None
	Truncate/expansion	1: Truncate leading zero(*) 2: Expand to EAN 13
24 UPCE	1	0: Disable
	Read	1: Enable(*)

	3	0: Disable 1: Enable(*)
	6	0 ~ 15(default: 0)
	7	0 ~ 15(default: 0)
	8	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: E)
	10	0: None(*) 1: 2 digits 2: 5 digits 3: 2, 5 digits 4: UCC/EAN 128 5: 2, UCC/EAN 128 6: 5, UCC/EAN 128 7: All
	11	0: None(*) 1: Truncate leading zero 2: Expand to EAN 13 3: Expand to UPCA
	12	0: Disable(*) 1: Enable
	13	0: Disable(*) 1: Enable
25 Matrix 25	1	0: Disable(*) 1: Enable
	2	0: Disable(*) 1: Enable
	3	0: Disable(*) 1: Enable
	4	0 ~ 64(default: 0)
	5	0 ~ 64(default: 0)
	6	0 ~ 15(default: 0)
	7	0 ~ 15(default: 0)

	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: B)
26 PDF-417 (2D mode only)	1 Read	0: Disable 1: Enable(*)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: NULL)
	10 Escape sequence Transmit	0: Disable(*) 1: Enable
27 Code-16K (2D model only)	1 Read	0: Disable(*) 1: Enable
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: NULL)
28 China post	1 Read	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 11)
	5 Min. code length	0 ~ 64(default: 11)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: t)
29 RSS 14	1 Read	0: Disable(*) 1: Enable
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)

	Truncate ending	
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: R4)
	11 UCC/EAN 128 emulation	0: Disable(*) 1: Enable
30 RSS Limited	1 Read	0: Disable(*) 1: Enable
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: RL)
	11 UCC/EAN 128 emulation	0: Disable(*) 1: Enable
31 RSS Expanded	1 Read	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 99(default: 99)
	5 Min. code length	0 ~ 99(default: 1)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: RX)
	11 UCC/EAN 128 emulation	0: Disable(*) 1: Enable
32 Italian Pharmacode 39	1 Read	0: Disable(*) 1: Enable
	4 Max. code length	0 ~ 64(default: 12)
	5 Min. code length	0 ~ 64(default: 9)
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)

	Truncate ending	
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: p)
	10 Leading “A”	0: Disable(*) 1: Enable
33 MicroPDF (2D model only)	1 Read	0: Disable(*) 1: Enable
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: U)
	10 Escape sequence transmit	0: None 1: GLI protocol 2: ECI protocol(*)
34 EAN.UCC composite (2D model only)	1 Read	0: Disable(*) 1: Enable
	6 Truncate leading	0 ~ 15(default: 0)
	7 Truncate ending	0 ~ 15(default: 0)
	8 Code ID setting	0x00 ~ 0xff ASCII code(1 or 2 bytes) (default: RC)
	11 UCC/EAN 128 emulation	0: Disable(*) 1: Enable

※1: Stand mode: Normally activated with continuous mode. If set as LED “Off” , the scanner red beam will turn off automatically in case not used, but will turn on again immediately when scanning bar codes.

Function Return Values

Constant	Value	Description
E_FUNC_SUCCEED	0x00000000	The function returned without error.
E_FUNC_ERROR	0x00000001	The function returned error.
E_FUNC_NULLPTR	0x00000002	A null pointer was passed to the function.
E_FUNC_PAR_ERROR	0x00000003	An invalid parameter was passed to the function.
E_SCAN_FUNC_SUCCEED	0x00000000	Scanner work succeed
E_SCAN_INVALID_HANDLE	0x00000001	Scanner not ready maybe other application using
E_SCAN_SETTING_FAIL	0x00000003	Setting scanner fail
E_SCAN_INSUFFICIENT_BUFFER	0x00000004	The buffer to receive scan data is too small
E_SCAN_NODATA	0x00000005	There is no scan data
E_SCAN_TIMEOUT	0x00000006	Get scan data timeout
SM_DATA_READY	WM_APP+1	Barcode data is ready
SM_ERROR_SYSTEM	WM_APP+2	System error, call API_GetSysError to get system error code
SM_ERROR_API	WM_APP+3	API error, call API_GetError() to get api error code
ERR_WRITE_FAIL	WM_USER+1	Write data to scanner fail
ERR_SETTING_FAIL	WM_USER+2	Setting scanner configure fail
ERR_SCANNER_NOT_OPEN	WM_USER+3	Scanner device is not open
ERR_INVALID_FILE	WM_USER+4	Assigned file is invalid
ERR_TIMEOUT	WM_USER+5	Wait scanner respond timeout
ERR_INVALID_SCANNER_VER	WM_USER+6	Invalid scanner firmware version
BT_ERR_CREATE_FAIL	0x00001001	BlueTooth module startup fail
BT_ERR_INUSING	0x00001002	BlueTooth module is using by other application
BT_ERR_DEVICE_ERROR	0x00001003	BlueTooth Initial setting fail
BT_ERR_SETTING_FAIL	0x00001004	BlueTooth setup fail
BT_ERR_REG_DEV_FAIL	0x00001005	Register communication port fail
BT_ERR_SPP_COM_FAIL	0x00001006	SPP service com open fail
BT_ERR_INSUFFICIENT	0x00001007	The buffer for receive data is insufficient
BT_ERR_PAIR_FAIL	0x00001008	Pair to device fail
BT_ERR_CHANNEL	0x00001009	SPP channel error

BT_ERR_FTP_SERVER_REJECT	0x00001010	FTP server reject connect request
BT_ERR_DIVICE_NOT_CONNECT	0x00001011	FTP service device not connect
BT_ERR_FTP_DIR_FAIL	0x00001012	Search the direction fail
BT_ERR_FTP_EMPTY_FILE	0x00001013	No more file data
BT_ERR_CONNECTED	0x00001014	The device had connected

// WM_USER 0x0400, WM_APP 0x8000