

# UG05 Dynamic Library Interface Description

<b>theme</b>	<b>UG05 Dynamic Library Interface Description</b>
<b>version</b>	V1.1.0.1
<b>content</b>	<b>UG05 Dynamic Library Interface Description</b>
<b>creation time</b>	February 21, 2020
<b>founder</b>	<b>Leon</b>
<b>turnover time</b>	July 9, 2024

## Document change record

Changed by	date	Change content
Leon		

## Main review opinions of documents

Product group

reviewers	date	idea

QA group

reviewers	date	idea

## development platform

Development environment and tools

tool	function
C++	Description of dynamic library file interface

### Dependency library description

Document name	<b>explain</b>
UG05Sign.dll	Signature dynamic library

## UG05Sign dynamic library environment support

system	Windows XP、Windows 7、Windows 8、Windows 10

## Description of UG05Sign dynamic library interface

-----1.

/\*\*\*\*\*

\* Parameter: None

\* Return value: 0: successful opening; Other values: Failed to open.

\*\*\*\*\*/

**int UgeeOpenDevice();**

-----2.

/\*\*\*\*\* \*

parameters:

Parameter 1: Signature Pen Width

Parameter 2: Signature image path (never put it in the system packing path)

\* Return value: 0: success; Other values: failed

\*\*\*\*\*/

**int UgeeStartSign(int penWidth, const char\* szSignPath);**

-----3

/\*\*\*\*\* \*

parameters:

Parameter 1: Fingerprint quality

Parameter 2: fingerprint image path (never put it in the system packing path)

\* Return value: 0: success; Other values: failed

\*\*\*\*\*/

**int UgeeStartFinger(int quality, const char\* szFingerPath);**

```

-----4
/*****
* parameters:
    Parameter 1: Signature Pen Width
    Parameter 2: Signature image path (never put it in the system packing path)
    Parameter 3: Fingerprint image quality
    Parameter 4: fingerprint image path (never put it in the system packing path)
* Return value: 0: success; Other values: failed
*****/

```

```

int UgeeStartFinger(int penWidth,const char* SignPath,int quality, const
char* szFingerPath);

```

---

```

-----5
/*****
* Parameter: Callback function pointer
* Return value: 0: success; Other values: failed
*****/

```

```

int UgeeGetBase64CallBack(BASE64_FUNC func);
    typedef int(__stdcall* BASE64_FUNC)(const char*
szBase64);

```

---

```

-----6
/*****
* Parameter: None
* Return value: 0: success; Other values: failed
*****/

```

```

int UgeeCloseDevice();

```

---

```

-----7
/*****
* Parameter: None
* Return value: Finger ANSITemplate
*****/

```

```

Const char* UgeeGetANSITemplate();

```

---

```

-----8
/*****
* Parameter: None
* Return value: Finger ISOTemplate
*****/
Const char* UgeeGetISOTemplate();

```

---

```

-----9
/*****
Parameter:
Parameter 1: template1
Parameter 2: template2
*
* Return value: Compare Value
*****/
int UgeeCompareTemplate(const char*
tempalte1, const char* tempalte2);

```

---

```

-----10
/*****
Parameter:
Parameter 1: pointer
* Return value:
*****/
void UgeeFreeString(char* str);

```

---

# Example of C# calling c++Dll interface

## 1、Declaration of function

```
//OpenDevice(0:success;other:failed)
[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, EntryPoint =
"UgeeOpenDevice")]
public extern static int UgeeOpenDevice();

//StartSign
[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, EntryPoint =
"UgeeStartSign")]
public extern static int UgeeStartSign(int penWidth, string SignPath);

//GetBase64CallBack private delegate int
UgeeGetBase64CallBack_delegate(string Base64);

[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, CharSet =
CharSet.Ansi, EntryPoint = "UgeeGetBase64CallBack")]
private extern static int UgeeGetBase64CallBack(UgeeGetBase64CallBack_delegate
callback);

//CloseDevice(0:success;other:failed)
[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, EntryPoint =
"UgeeCloseDevice")]
public extern static int UgeeCloseDevice();

// UgeeStartFinger
[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, EntryPoint =
"UgeeStartFinger")]
public extern static int UgeeStartFinger(int quality, string szFingerPath);

// UgeeStartSignFinger
[DllImport("UG05Sign.dll", CallingConvention = CallingConvention.StdCall, EntryPoint =
"UgeeStartSignFinger")
]
public extern static int UgeeStartSignFinger(int penWidth, string SignPath,int quality,
string szFingerPath);
```

## 2. Register the callback function

```
//Register the callback function
UgeeGetBase64CallBack_delegate callback = new
UgeeGetBase64CallBack_delegate(BASE64_FUNC);
UgeeGetBase64CallBack(callback);
```

## 3. The implementation of callback function.

```
/// <summary>
///response function
/// </summary>
/// <param name="status"></param>
/// <returns></returns>
private int BASE64_FUNC(string Base64)
{ try
{
    pbSignImg.BackgroundImage = ConvertBase64ToFile(Base64);
    pbSignImg.Refresh(); return 0;
} catch
(Exception ex)
{
    MessageBox.Show(ex.ToString());
return -1;
}
}
```