

# P/Invoke of CallBack with char\* params: return error

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.interop/2006-02/msg00155.html>

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  - *Date:* Tue, 14 Feb 2006 13:13:26 -0800
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Hi there,

I am trying to P/Invoke a DLL able to perform a wifi scan.

There is a poll method to which I have to pass a pointer to a function. Then the native code will call back the passed function which has char\* parameters.

I tried to write my P/Invoke (see below) but when I run the application, I get an exception when the "poll" method is called. The exception has the following message: Attempted to read or write protected memory. This is often an indication that other memory is corrupt.

As far as I read, I am not sure that my "delegate" is correct. I am also unsure about how I should translate the "char \*" in C#.

Your help (and code snippets) will be greatly appreciated! Thanks a lot!

Lionel Reyero

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Here is the .h I want to P/Invoke

```
#ifndef __COMMON_SPOTTER_H__
#define __COMMON_SPOTTER_H__

typedef void (*SawAPFunction)(char *bssid, char *ssid, int rss,int wep,int
infrMode);

/* returns 0 on success, -1 on failure */
int spotter_init();

void spotter_shutdown();

/* returns 0 on success, -1 on failure */
```

## P/Invoke of Callback with char\* params: return error

```
int spotter_poll(SawAPFunction fn);
```

```
#endif /* __COMMON_SPOTTER_H__ */
```

```
=====
```

Here is the P/Invoke I have done:

```
public delegate void Callback(IntPtr bssid, IntPtr ssid, int rss, int  
wep, int infrMode);
```

```
class Spotter  
{
```

```
[DllImport("spotter.dll",  
EntryPoint="_Java_org_placelab_spotter_WiFiSpotter_spotter_1init@8")]  
public static extern int init();
```

```
[DllImport("spotter.dll", EntryPoint =  
"_Java_org_placelab_spotter_WiFiSpotter_spotter_1shutdown@8")]  
public static extern void shutdown();
```

```
[DllImport("spotter.dll", EntryPoint =  
"_Java_org_placelab_spotter_WiFiSpotter_spotter_1poll@8")]  
public static extern int poll(Callback x);
```

```
public static void AP_detected(IntPtr bssid, IntPtr ssid, int rss,  
int wep, int infrMode)
```

```
{  
  
}  
}  
.
```