

Re: problem with RegQueryValueEx (long)

Source:

<http://www.tech-archive.net/Archive/VB/microsoft.public.vb.general.discussion/2006-01/msg00108.html>

- *From:* "Kjell" <Kjell@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 2 Jan 2006 13:22:02 -0800
-

Thanks Mike :-)

hmmmm, not sure I want you to examine any of my code.....
(anyway, that example was not my code.)

Kjell

"MikeD" wrote:

```
>
> "Kjell" <Kjell@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
> <news:35C10C4B-D866-447F-BEDE-264C962BB9A1@xxxxxxxxxxxxxxxxxxxx>
>> Below is a function that reads a value from Registry, my problem is that I
>> now need to read a REG_DWORD type of value, I think this is the same as
>> Hex
>> value.
>>
>> And it doesn't work, I think it has something to do that the below
>> function
>> can only read and return string values, which works fine.. (thanks to
>> Randy
>> Birch for provinding this as part of a sample from vbnet.com)
>>
>> If I remove the "And dwType = REG_SZ " part and some other stuff it still
>> doesn't work, so what do I have to do to read hex values??
>>
>> Function RegGetString(hInKey As Long, ByVal sSubKey As String, ByVal
>> sValName As String) As String
>> Dim RetVal, hSubKey As Long, dwType As Long, SZ As Long, r As Long, v$
>> Const REG_SZ = 1
>> Const KEY_QUERY_VALUE = &H1
>> Const ERROR_SUCCESS As Long = 0
>> RetVal = ""
>> r = RegOpenKeyEx(hInKey, sSubKey, 0, KEY_QUERY_VALUE, hSubKey)
>> If r <> ERROR_SUCCESS Then GoTo Quit_Now
>> SZ = 256: v$ = String$(SZ, 0)
>> r = RegQueryValueEx(hSubKey, sValName, 0, dwType, ByVal v$, SZ)
>> If r = ERROR_SUCCESS And dwType = REG_SZ Then
```

Re: problem with RegQueryValueEx (long)

```
>>RetVal = Left(v$, SZ - 1)
>>Else
>>RetVal = ""
>>End If
>>If hSubKey <> 0 Then r = RegCloseKey(hSubKey)
>>Quit_Now:
>>RegGetString = RetVal
>>End Function
>
>No, that code above is NOT going to work for getting a DWORD value.
>
>First, dwType needs to be REG_DWORD. Second, the output buffer (you used v$
>for this) needs to be Long and the buffer size (you used SZ for this) needs
>to be 4 (because a Long is 4 bytes). Third, you should have posted the
>declaration you were using for RegQueryValueEx. You may not have that
>declared that correctly for a DWORD. The buffer, being a Long that gets
>filled by the function, needs to be passed ByRef. Fourth, I would recommend
>opening the key using KEY_READ rather than just KEY_QUERY_VALUE (which might
>be too restrictive). Fifth, get rid of that GoTo Quit_Now! Yucky, yucky,
>poo, poo. Any programmers under my direction that did that would be taking a
>class in VB 101 (and you can bet your bottom dollar I'd be conducting more
>code reviews on that programmer). <g>
>
>Anyway.....here's my Registry class module. It's got methods for
>reading/writing string values, DWORD values, Binary values, enumerating
>keys, deleting keys, and more. It's completely self-contained. It has no
>dependencies on anything. Therefore, you can either make a DLL out of it you
>want or just include it as a module in any project. Feel free to use or
>modify it however you wish.
>
>Just copy between the BEGIN CODE and END CODE and paste into Notepad. When
>you save it, be SURE it has a .cls extension (Notepad defaults new files to
>..txt unless you include the entire file name in quotation marks).
>
>There *are* some minor inconsistencies because I wrote it over a period of
>time (about 3 years, on an as-needed basis for additional functionality.
>Also note that I never wrote the code for the DeleteKeyByEnumeration
>function (but never removed the method either) because, well, what's the
>point now? It's only necessary for NT4, and even then only if IE4 or greater
>is not installed (read the comments in the code). Giving it a quick
>look-see, I see I also never wrote the WriteBinaryValue method. I guess I've
>never needed to do that and forgot about it. Oh well. That can be an
>exercise for you. <g>
>
>-----BEGIN CODE
>VERSION 1.0 CLASS
>BEGIN
>MultiUse = -1 'True
>Persistable = 0 'NotPersistable
>DataBindingBehavior = 0 'vbNone
>DataSourceBehavior = 0 'vbNone
```

Re: problem with RegQueryValueEx (long)

```
> MTSTransactionMode = 0 'NotAnMTSObject
> END
> Attribute VB_Name = "Registry"
> Attribute VB_GlobalNameSpace = False
> Attribute VB_Creatable = False
> Attribute VB_PredeclaredId = False
> Attribute VB_Exposed = False
> Option Explicit
>
> Private m_lError As Long
>
> 'Required for RegEnumKeyEx and RegQueryInfoKey
> Private Type FILETIME
> lLowDateTime As Long
> lHighDateTime As Long
> End Type
>
> Private Declare Function RegOpenKeyEx Lib "advapi32.dll" Alias
> "RegOpenKeyExA" (ByVal hKey As Long, ByVal lpszSubKey As String, dwOptions
> As Long, ByVal samDesired As Long, lpHKey As Long) As Long
> Private Declare Function RegOpenKey Lib "advapi32.dll" Alias "RegOpenKeyA"
> (ByVal hKey As Long, ByVal lpSubKey As String, phkResult As Long) As Long
> Private Declare Function RegCreateKey Lib "advapi32" Alias "RegCreateKeyA"
> (ByVal hKey As Long, ByVal lpszSubKey As String, phkResult As Long) As Long
> Private Declare Function RegCreateKeyEx Lib "advapi32.dll" Alias
> "RegCreateKeyExA" (ByVal hKey As Long, ByVal lpSubKey As String, ByVal
> Reserved As Long, ByVal lpClass As String, ByVal dwOptions As Long, ByVal
> samDesired As Long, lpSecurityAttributes As Long, phkResult As Long,
> lpdwDisposition As Long) As Long
> Private Declare Function RegDeleteKey Lib "advapi32" Alias "RegDeleteKeyA"
> (ByVal hKey As Long, ByVal lpszSubKey As String) As Long
> Private Declare Function RegDeleteValue Lib "advapi32.dll" Alias
> "RegDeleteValueA" (ByVal hKey As Long, ByVal lpValueName As String) As Long
> Private Declare Function RegCloseKey Lib "advapi32.dll" (ByVal hKey As Long)
> As Long
> Private Declare Function RegQueryValueEx Lib "advapi32.dll" Alias
> "RegQueryValueExA" (ByVal hKey As Long, ByVal lpszValueName As String, ByVal
> lpdwRes As Long, lpdwType As Long, lpDataBuff As Any, nSize As Long) As Long
> Private Declare Function RegQueryValue Lib "advapi32.dll" Alias
> "RegQueryValueA" (ByVal hKey As Long, ByVal lpSubKey As String, ByVal
> lpValue As String, lpcbValue As Long) As Long
> Private Declare Function RegSetValueEx Lib "advapi32.dll" Alias
> "RegSetValueExA" (ByVal hKey As Long, ByVal lpszValueName As String, ByVal
> dwRes As Long, ByVal dwType As Long, lpDataBuff As Any, ByVal nSize As Long)
> As Long
> Private Declare Function RegConnectRegistry Lib "advapi32.dll" (ByVal
> lpMachineName As String, ByVal hKey As Long, phkResult As Long) As Long
> Private Declare Function RegFlushKey Lib "advapi32.dll" (ByVal hKey As Long)
> As Long
> Private Declare Function RegEnumKeyEx Lib "advapi32.dll" Alias
> "RegEnumKeyExA" (ByVal hKey As Long, ByVal dwIndex As Long, ByVal lpName As
```

Re: problem with RegQueryValueEx (long)

```
> String, lpcbName As Long, ByVal lpReserved As Long, ByVal lpClass As String,
> lpcbClass As Long, lpftLastWriteTime As FILETIME) As Long
> Private Declare Function RegEnumValue Lib "advapi32.dll" Alias
> "RegEnumValueA" (ByVal hKey As Long, ByVal dwIndex As Long, ByVal lpName As
> String, lpcbName As Long, ByVal lpReserved As Long, lpdwType As Long,
> lpValue As Any, lpcbValue As Long) As Long
> Private Declare Function RegQueryInfoKey Lib "advapi32.dll" Alias
> "RegQueryInfoKeyA" (ByVal hKey As Long, ByVal lpClass As String, lpcbClass
> As Long, ByVal lpReserved As Long, lpcSubKeys As Long, lpcbMaxSubKeyLen As
> Long, lpcbMaxClassLen As Long, lpcValues As Long, lpcbMaxValueNameLen As
> Long, lpcbMaxValueLen As Long, lpSecurityDescriptor As Long,
> lpftLastWriteTime As FILETIME) As Long
>
> 'The following functions require Win98/2000 OR Win95/NT with IE4 or greater.
> 'Since these are relatively new API functions, they are not listed in the
> 'WIN32API.TXT file included with VB5/6.
> Private Declare Function SHDeleteKey Lib "shlwapi.dll" Alias "SHDeleteKeyA"
> (ByVal hKey As Long, ByVal pszSubKey As String) As Long
>
>
> 'Error codes returned from Registry functions.
> Const ERROR_SUCCESS As Long = 0&
> Const ERROR_BADDB As Long = 1009&
> Const ERROR_BADKEY As Long = 1010&
> Const ERROR_CANTOPEN As Long = 1011&
> Const ERROR_CANTREAD As Long = 1012&
> Const ERROR_CANTWRITE As Long = 1013&
> Const ERROR_OUTOFMEMORY As Long = 14&
> Const ERROR_INVALID_PARAMETER As Long = 87&
> Const ERROR_ACCESS_DENIED As Long = 5&
> Const ERROR_NO_MORE_ITEMS As Long = 259&
> Const ERROR_MORE_DATA As Long = 234&
>
> 'These are application-defined error codes
> Const ERROR_INVALID_HKEY_FORMAT As Long = vbObjectError + 1
> Const ERROR_INVALID_HKEY_HANDLE As Long = vbObjectError + 2
>
> 'Registry value types
> Const REG_NONE As Long = 0& ' No value type
> Const REG_SZ As Long = 1& ' Unicode nul
> terminated string
> Const REG_EXPAND_SZ As Long = 2& ' Unicode nul
> terminated string
> ' (with environment
> variable references)
> Const REG_BINARY As Long = 3& ' Free form binary
> Const REG_DWORD As Long = 4& ' 32-bit number
> Const REG_DWORD_LITTLE_ENDIAN As Long = 4& ' 32-bit number
> (same as REG_DWORD)
> Const REG_DWORD_BIG_ENDIAN As Long = 5& ' 32-bit number
> Const REG_LINK As Long = 6& ' Symbolic Link
```

Re: problem with RegQueryValueEx (long)

```
> (unicode)
> Const REG_MULTI_SZ As Long = 7& ' Multiple Unicode
> strings
> Const REG_RESOURCE_LIST As Long = 8& ' Resource list in
> the resource map
> Const REG_FULL_RESOURCE_DESCRIPTOR As Long = 9& ' Resource list in
> the hardware description
> Const REG_RESOURCE_REQUIREMENTS_LIST As Long = 10&
>
> 'Registry Read/Write permissions:
> Const KEY_QUERY_VALUE As Long = &H1&
> Const KEY_SET_VALUE As Long = &H2&
> Const KEY_CREATE_SUB_KEY As Long = &H4&
> Const KEY_ENUMERATE_SUB_KEYS As Long = &H8&
> Const KEY_NOTIFY As Long = &H10&
> Const KEY_CREATE_LINK As Long = &H20&
> Const READ_CONTROL As Long = &H20000
> Const WRITE_DAC As Long = &H40000
> Const WRITE_OWNER As Long = &H80000
> Const SYNCHRONIZE As Long = &H100000
> Const STANDARD_RIGHTS_REQUIRED As Long = &HF0000
> Const STANDARD_RIGHTS_READ As Long = READ_CONTROL
> 'Const STANDARD_RIGHTS_WRITE As Long = READ_CONTROL
> Const STANDARD_RIGHTS_WRITE As Long = (READ_CONTROL)
> Const STANDARD_RIGHTS_EXECUTE As Long = READ_CONTROL
> Const KEY_READ As Long = STANDARD_RIGHTS_READ Or
> KEY_QUERY_VALUE Or KEY_ENUMERATE_SUB_KEYS Or KEY_NOTIFY
> Const KEY_WRITE As Long = STANDARD_RIGHTS_WRITE Or
> KEY_SET_VALUE Or KEY_CREATE_SUB_KEY
> Const KEY_EXECUTE As Long = KEY_READ
>
> Private Const VER_PLATFORM_WIN32_NT As Long = 2
>
> Private Type OsVersionInfo
> dwVersionInfoSize As Long
> dwMajorVersion As Long
> dwMinorVersion As Long
> dwBuildNumber As Long
> dwPlatform As Long
> szCSDVersion As String * 128
> End Type
>
> Private Declare Function GetVersionEx Lib "Kernel32.dll" Alias
> "GetVersionExA" (lpStruct As OsVersionInfo) As Long
>
> Private m_bIsWinNT As Boolean
>
> Private Type DLLVERSIONINFO
> cbSize As Long
> dwMajor As Long
> dwMinor As Long
```

Re: problem with RegQueryValueEx (long)

```
> dwBuildNumber As Long
> dwPlatformID As Long
> End Type
>
> Private Declare Function LoadLibrary Lib "kernel32" Alias "LoadLibraryA"
> (ByVal lpLibFileName As String) As Long
> Private Declare Function FreeLibrary Lib "kernel32" (ByVal hLibModule As
> Long) As Long
> Private Declare Function GetProcAddress Lib "kernel32" (ByVal hModule As
> Long, ByVal lpProcName As String) As Long
> Private Declare Function DllGetVersion Lib "Shell32" (pdvi As
> DLLVERSIONINFO) As Long
>
>
> Private Declare Sub CopyMemory Lib "kernel32" Alias "RtlMoveMemory"
> (Destination As Any, Source As Any, ByVal Length As Long)
>
> Private Function DeleteKey9x(KeyName As String, SubKeyToDelete As String) As
> Boolean
>
> Dim hKey As Long
> Dim lRet As Long
> Dim hMainKey As Long
>
> ResetError
>
> hMainKey = GetHKEYHandle(KeyName)
>
> If hMainKey Then
> 'Open the key
> lRet = RegOpenKeyEx(hMainKey, KeyName, 0&, KEY_WRITE, hKey)
> If lRet = ERROR_SUCCESS Then
> 'Key was opened successfully; delete specified subkey
> lRet = RegDeleteKey(hKey, SubKeyToDelete)
>
> If lRet = ERROR_SUCCESS Then
> DeleteKey9x = True
> Else
> DeleteKey9x = False
> m_lError = lRet
> End If
>
> lRet = RegCloseKey(hKey)
> Else
> DeleteKey9x = False
> m_lError = lRet
> End If
> End If
>
> End Function
>
```

Re: problem with RegQueryValueEx (long)

```
> Public Function DoesKeyExist(ByVal KeyName As String) As Boolean
>
> Dim hMainKey As Long
> Dim lRet As Long
> Dim hKey As Long
>
> ResetError
>
> hMainKey = GetHKEYHandle(KeyName)
>
> If hMainKey Then
> 'Open the key
> lRet = RegOpenKeyEx(hMainKey, KeyName, 0&, KEY_READ, hKey)
> If lRet = ERROR_SUCCESS Then
> DoesKeyExist = True
> lRet = RegCloseKey(hKey)
> Else
```

• **References:**

- ◆ **[Re: problem with RegQueryValueEx \(long\)](#)**
◇ From: MikeD

- Prev by Date: **[Re: Identify folder location](#)**
- Next by Date: **[Re: Problem with Doevents](#)**
- Previous by thread: **[Re: problem with RegQueryValueEx \(long\)](#)**
- Next by thread: **[Re: mscomm, can I force read only 1 byte to buffer?](#)**
- Index(es):
 - ◆ **[Date](#)**
 - ◆ **[Thread](#)**