

Re: Using the Exchange Backup API

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.mfc/2005-07/msg02186.html>

- *From:* "Viraj" <Viraj@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 29 Jul 2005 11:28:02 -0700
-

Hello Jeff,

Thanks for the reply.

I made the changes as suggested by you. My final code is

```
-----  
BOOL BackupExchangeServer(HINSTANCE g_hESEDll)  
{  
    BACKUP_NODE_TREE* pMNUBackupNodeTree = NULL;  
    typedef HRESULT (ESEBACK_API *HrESEBackupRestoreGetNodes) (IN WCHAR*  
        wszComputerName,OUT PBACKUP_NODE_TREE *ppBackupNodeTree);  
  
    HrESEBackupRestoreGetNodes fnMNUBackupRestoreGetNodes = NULL;  
    fnMNUBackupRestoreGetNodes = (HrESEBackupRestoreGetNodes) GetProcAddress  
        (g_hESEDll,"HrESEBackupRestoreGetNodes");  
    HRESULT hr;  
    if(fnMNUBackupRestoreGetNodes)  
        hr = (fnMNUBackupRestoreGetNodes) (NULL, &pMNUBackupNodeTree);  
    if(hr == S_OK)  
        return MNU_EXCHANGE_BKP_SUCCESS;  
    else  
        return MNU_EXCHANGE_BKP_FAILURE;  
}
```

This code does not compile. I think it cannot get ESEBACK_API which has been added to the typedef of the function.

The compilation errors with line numbers as well as with the original line is copied below.

```
-----  
Compiling...  
MNUExchangeBkpUtils.cpp  
//Line 14 typedef HRESULT (ESEBACK_API *HrESEBackupRestoreGetNodes) (IN  
// WCHAR* wszComputerName,OUT PBACKUP_NODE_TREE *ppBackupNodeTree);  
MNUExchangeBkpUtils.cpp(14) : error C2143: syntax error : missing ')' before  
'*'  
MNUExchangeBkpUtils.cpp(14) : error C2143: syntax error : missing ';' before  
'*'  
MNUExchangeBkpUtils.cpp(14) : error C2065: 'HrESEBackupRestoreGetNodes':  
undeclared identifier
```

Re: Using the Exchange Backup API

```
MNUExchangeBkpUtils.cpp(14) : error C2059: syntax error : ')'
MNUExchangeBkpUtils.cpp(14) : error C2065: 'wszComputerName' : undeclared
identifier
MNUExchangeBkpUtils.cpp(14) : error C2275: 'WCHAR' : illegal use of this
type as an expression c:\program files\microsoft visual
studio\vc98\include\winnt.h(144) : see declaration of 'WCHAR'
MNUExchangeBkpUtils.cpp(14) : error C2065: 'ppBackupNodeTree' : undeclared
identifier
MNUExchangeBkpUtils.cpp(14) : error C2275: 'PBACKUP_NODE_TREE' : illegal use
of this type as an expression
mnuexchangebkpstructs.h(106) : see declaration of 'PBACKUP_NODE_TREE'
MNUExchangeBkpUtils.cpp(14) : error C2100: illegal indirection

//Line 16 HrESEBackupRestoreGetNodes fnMNUBackupRestoreGetNodes = NULL;
MNUExchangeBkpUtils.cpp(16) : error C2146: syntax error : missing ';' before
identifier 'fnMNUBackupRestoreGetNodes'
MNUExchangeBkpUtils.cpp(16) : error C2065: 'fnMNUBackupRestoreGetNodes' :
undeclared identifier

//Line 17 fnMNUBackupRestoreGetNodes = (HrESEBackupRestoreGetNodes)
GetProcAddress (g_hESEDll,"HrESEBackupRestoreGetNodes");
MNUExchangeBkpUtils.cpp(17) : error C2146: syntax error : missing ';' before
identifier 'GetProcAddress'
Error executing cl.exe.
MNUExchangeBackup.exe – 12 error(s), 0 warning(s)
```

What could possibly be reason the error ? and what could be the fix ?

Also is there a .h or a .lib file available which has functions of the Exchange Backup and Restore API ?

Thanks in advance,
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"Jeff Partch [MVP]" wrote:

```
> "Viraj" <Viraj@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
> news:022E6942-85CC-464C-9040-CAEDA84ECE77@xxxxxxxxxxxxxxxxxxxx
> > Hello Scot,
> >
> > Thanks for the reply. I made the correction as directed by you. Also I
> > created PBACKUP_NODE_TREE as typedef struct BACKUP_NODE_TREE
> > *PBACKUP_NODE_TREE ;
> >
> > Now the final code is:
```

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```
>> -----
> -----
>> BOOL BackupExchangeServer(HINSTANCE g_hESEDll)
>> {
>>   BACKUP_NODE_TREE* pMNUBackupNodeTree = NULL;
>>   typedef HRESULT (* HrESEBackupRestoreGetNodes) (IN WCHAR*
>>   wszComputerName,OUT PBACKUP_NODE_TREE *ppBackupNodeTree);
>>   HrESEBackupRestoreGetNodes fnMNUBackupRestoreGetNodes = NULL;
>>   fnMNUBackupRestoreGetNodes = (HrESEBackupRestoreGetNodes) GetProcAddress
>>   (g_hESEDll,"HrESEBackupRestoreGetNodes");
>>   HRESULT hr;
>>   if(fnMNUBackupRestoreGetNodes)
>>   hr = (fnMNUBackupRestoreGetNodes) (NULL, &pMNUBackupNodeTree);
>>   if(hr == S_OK)
>>   return MNU_EXCHANGE_BKP_SUCCESS;
>>   else
>>   return MNU_EXCHANGE_BKP_FAILURE;
>> }
>> -----
> -----
>>
>> This code compiles properly, but the application fails during execution of
>> HrESEBackupRestoreGetNodes. The error message I get is
>> -----
>> Debug Error!
>> Program: C:\...\MNUExchangeBackup.exe
>> Module:
>> File: i386\chkesp.c
>> Line: 42
>> Ther value of ESP was not properly saved across a function call. This is
>> usually a result of calling a function declared with one calling
> convention
>> with a function pointer declared with a different calling convention.
>> -----
>>
>> What could possibly be the error ?
>
> typedef HRESULT (ESEBACK_API* HrESEBackupRestoreGetNodes) (IN WCHAR*
> wszComputerName,OUT PBACKUP_NODE_TREE *ppBackupNodeTree);
>
> ---
> Jeff Partch [VC++ MVP]
>
>
>
> .
```

• *References:*

- ◆ *Using the Exchange Backup API*

Re: Using the Exchange Backup API

◇ *From:* Viraj

◆ ***Re: Using the Exchange Backup API***

◇ *From:* Scot T Brennecke

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◇ *From:* Jeff Partch [MVP]

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- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***