

Re: How to stop WZC Service in XP-SP2

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.win32.programmer.networks/2005-04/msg00323>

- From: "John K Gummadi" <john@xxxxxxxxxxx>
 - Date: Fri, 15 Apr 2005 12:25:24 +0200
-

With some patience debugging of my app, I found the following..

When I stop the service, I dont get Error 170 anymore (though I dont do all this stuff for disabling a particular NIC). I just do "net stop wzcsvc". But without "net stop" and just by trying WZCSetInterface, doesn't make any difference (It gives error 170).

OK, now that I know by doing "net stop", I could get rid of error 170, I'm trying to SET NDIS_802_11_SSID. Here I get error 2 ("The system cannot find the file specified"). Is this something related to the fact that I didn't disable NIC using WZCSetInterface or something else?

This is what I'm doing to SET NDIS_802_11_SSID..

```
1. hNdis = CreateFile("\\\\.\\Ndisuio", ...); //SUCCESS
2. DeviceIoControl (hNdis, IOCTL_NDISUIO_BIND_WAIT, ...); //SUCCESS
3. DeviceIoControl (hNdis, IOCTL_NDISUIO_OPEN_DEVICE,
L"\\DEVICE\\{CBBD6910-2191-4E07-8F88-6AB5FAABFE9B}", ...);
//SUCCESS (after "net stop")
4.
UCHAR buffer[sizeof(NDISUIO_SET_OID) + sizeof(NDIS_802_11_SSID)] = {NULL};
NDISUIO_SET_OID* poid = (NDISUIO_SET_OID*)buffer;
poid->Oid = OID_802_11_SSID;
memcpy(&poid->Data, &ndis, sizeof(NDIS_802_11_SSID));
DeviceIoControl (hNdis, IOCTL_NDISUIO_SET_OID_VALUE, poid,
sizeof(NDISUIO_SET_OID)+sizeof(NDIS_802_11_SSID), ...);
// This gives me Error 2.
```

Any ideas please?

Thanks,

- John.

"Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:OHDTMuZOFHA.3596@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

> Additionally !

> What you disable with the code is not NDISUIO but NIC adapter (so you

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have

```
> to set NIC's GUID not NDISUIO's ).
> Arkady
>
>
> "Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxx> wrote in message
> <news:OE1%23jnZOFHA.3156@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
>> Really , not that do disable for me inerface , but I was on the both
sides
>> ( user & kernel modes ) , so could check
>> if IOCTL come to my NDIS driver
>> Arkady
>>
>> "John K Gummedi" <john@xxxxxxxx> wrote in message
>> <news:OKEMsNZOFHA.3816@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
>>> Any clue Akardy?
>>>
>>> Thanks,
>>>
>>> – John.
>>>
>>> "John K Gummedi" <john@xxxxxxxx> wrote in message
>>> <news:uCKXbSQOFHA.2584@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
>>>> This is the structure (I've changed as you said before).
>>>> BYTE various_extensions[12]; //I've added at the end
>>>> And
>>>> DWORD dwReserved; //I've added between nWepStatus and dwCtlFlags
>>>> //////////////////////////////////////
>>>> typedef struct
>>>> {
>>>> #if defined(MIDL_PASS)
>>>> [string] LPWSTR wszGuid;
>>>> #else
>>>> LPWSTR wszGuid;
>>>> #endif
>>>>
>>>> #if defined(MIDL_PASS)
>>>> [string] LPWSTR wszDescr;
>>>> #else
>>>> LPWSTR wszDescr;
>>>> #endif
>>>>
>>>> ULONG ulMediaState;
>>>> ULONG ulMediaType;
>>>> ULONG ulPhysicalMediaType;
>>>> INT nInfraMode;
>>>> INT nAuthMode;
>>>> INT nWepStatus;
>>>> DWORD dwReserved; //Added by john
>>>> DWORD dwCtlFlags; // control flags (see INTFCTL_* defines)
>>>> DWORD dwCapabilities; // capabilities flags (see INTFCAP_* defines)
```

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```
> >>> RAW_DATA rdSSID; // encapsulates the SSID raw binary
> >>> RAW_DATA rdBSSID; // encapsulates the BSSID raw binary
> >>> RAW_DATA rdBSSIDList; // encapsulates one WZC_802_11_CONFIG_LIST
> >> structure
> >>> RAW_DATA rdStSSIDList; // encapsulates one WZC_802_11_CONFIG_LIST
> >> structure
> >>> RAW_DATA rdCtrlData; // data for various control actions on the
> >>> interface
> >>>
> >>> #ifdef UNDER_CE
> >>> BOOL bInitialized; // To track caller that freeing
> >>> // the same structure more than one time..
> >>> #endif
> >>>
> >>> DWORD nWPAMCastCipher;
> >>>
> >>> BYTE various_extensions[12]; //Added by John for XP SP2
> >>> } INTF_ENTRY, *PINTF_ENTRY;
> >>> //////////////////////////////////////
> >>>
> >>>
> >>> "Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxx> wrote in message
> >>> news:OZ0ISKQOFHA.164@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>> > Yes , that way ,but did you change the struct as in link I wrote,
btw
> >> the
> >>> > function returned me error but did the job , I wrote about that
> >>> > Arkady
> >>> >
> >>> > "John K Gummadi" <john@xxxxxxxx> wrote in message
> >>> > news:uqIwC2POFHA.3544@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>> > > Hi Akardy,
> >>> > >
> >>> > > Yes, I did (I replied to your mail-id). Thanks agian. I've got one
> >> more
> >>> > > question, can you please have a look?
> >>> > > ////////////////////////////////////// Code
> >>> > > //////////////////////////////////////
> >>> > > DWORD dwStatus = WZCQueryInterface(NULL, INTF_ALL, &ie,
> >>> > > &dwOutFlags);
> >>> > > CString szDesc = ie.wszDescr;
> >>> > > msg.Format("StopWZCService: After WZCQueryInterface, \nwszDescr =
%s
> >>> > > \nStatus = %d
> >>> > > \ndwOutFlags = %d \nCtlFlags = %d", szDesc,
> >>> > > dwStatus,
> >>> > > dwOutFlags, ie.dwCtlFlags);
> >>> > > //Gives me Description properly! So, I assume WZCQueryInterface
> >>> > > worked
> >>> > > AfxMessageBox(msg);
> >>> > >
```

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```
> >>>> > //Now, to disable WZC for this adapter, I do the following..
> >>>> > ie.dwCtlFlags &= ~INTF_ENABLED;
> >>>> > dwStatus = WZCSetInterface(NULL, INTF_ALL, &ie, &dwOutFlags);
> >>>> > msg.Format("StopWZCService: After WZCSetInterface, Status = %d
> >>>> > \ndwOutFlags
> >>>> > = %d \nCtlFlags = %d",
> >>>> > dwStatus, dwOutFlags, ie.dwCtlFlags);
> >>>> > AfxMessageBox(msg);
> >>>> >
> >>>>
> >>>>
> >>>>
////////////////////////////////////
> >>>> > //////////////////////////////////
> >>>> >
> >>>> > // WZCSetInterface returns zero (which I suppose is SUCCESS) but I
> >>>> > still
> >>>> > can't get "IOCTL_NDISUIO_OPEN_DEVICE" to work. It returns 170
("The
> >>>> > requested resource is in use.").
> >>>> >
> >>>> > Is this how I should be doing with WZCSetInterface? Am I missing
> >>>> > something?
> >>>> >
> >>>> > Thanks,
> >>>> >
> >>>> > John.
> >>>> >
> >>>> >
> >>>> > "Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxx> wrote in message
> >>>> > <news:e9T0pNPOFHA.2520@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>>> >> I believe that you received the H :)
> >>>> >> Arkady
> >>>> >>
> >>>> >>
> >>>> >> "John K Gumjadi" <john@xxxxxxxxxxx> wrote in message
> >>>> >> <news:eOXFdoOQFHA.1392@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>>> >>> Thanks a lot for the help Akardy!
> >>>> >>>
> >>>> >>> -John.
> >>>> >>>
> >>>> >>> "Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxx> wrote in message
> >>>> >>> <news:O9vRFFOQFHA.3356@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>>> >>>> Here raw_data , in a moment I'll send you the file
> >>>> >>>>
> >>>> >>>> Arkady
> >>>> >>>>
> >>>> >>>> //-----
> >>>> >>>>
> >>>> >>>> // [P]RAW_DATA: generic description of a BLOB
> >>>> >>>>
> >>>> >>>> typedef struct
```

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```
> >>> >>> >>>
> >>> >>> {
> >>> >>>
> >>> >>> DWORD dwDataLen;
> >>> >>>
> >>> >>> #if defined(MIDL_PASS)
> >>> >>>
> >>> >>> [unique, size_is(dwDataLen)] LPBYTE pData;
> >>> >>>
> >>> >>> #else
> >>> >>>
> >>> >>> LPBYTE pData;
> >>> >>>
> >>> >>> #endif
> >>> >>>
> >>> >>> } RAW_DATA, *PRAW_DATA;
> >>> >>>
> >>> >>> "John K Gummadi" <john@xxxxxxxxxx> wrote in message
> >>> >>> <news:OSKLXsNOFHA.1884@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> >>> >>> > "wzcapi.h" please, anyone??
> >>> >>> >
> >>> >>> > "John K Gummadi" <john@xxxxxxxxxx> wrote in message
> >>> >>> > <news:uIpJFGNQFHA.2972@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> >>> >>> > > Akardy,
> >>> >>> >>>
> >>> >>> >>> I agian have compile problems with "RAW_DATA". Can you give
> >>> >>> >>> me
> >>> >>> the
> >>> >>> > header
> >>> >>> >>> file (wzcapi.h ) please?
> >>> >>> >>>
> >>> >>> >>> My mail ID: john@xxxxxxxxxx
> >>> >>> >>>
> >>> >>> >>> Thanks,
> >>> >>> >>>
> >>> >>> >>> John.
> >>> >>> >>>
> >>> >>> >>>
> >>> >>> >>> "John K Gummadi" <john@xxxxxxxxxx> wrote in message
> >>> >>> >>> <news:eInlm0MOFHA.3704@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> >>> >>> >>> > Thanks a lot! Will bug you again if I get problems in
> >>> >>> >>> > implementing
> >>> >>> > that
> >>> >>> >>> :-)
> >>> >>> >>> >
> >>> >>> >>> > -John.
> >>> >>> >>> >
> >>> >>> >>> > "Arkady Frenkel" <arkadyf@xxxxxxxxxxxxxxxxxxxx> wrote in
> >>> >>> >>> > message
> >>> >>> >>> > <news:#93UfvMOFHA.3196@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> >>> >>> >>> > > That from wzcapi.h :
```

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```
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> //-----
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // [PJINTF_ENTRY: contains everything an RPC client
needs
> >>> to
> >>>> > know
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // about an interface. It is used in conjunction with
> >>>> >>>>>>>>>> RpcQueryInterface.
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // Flags below are to be used to specify what info is
> >>> queried
> >>>> > for
> >>>> >>>>>>>>>> the
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // interface. Guid field is not covered since this is
the
> >>> key
> >>>> >>>>>>>>>> of
> >>>> >>>>>>>>>> the
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // structure so it has to be specified eather way.
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> typedef struct
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> {
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #if defined(MIDL_PASS)
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> [string] LPWSTR wszGuid;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #else
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> LPWSTR wszGuid;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #endif
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #if defined(MIDL_PASS)
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> [string] LPWSTR wszDescr;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #else
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> LPWSTR wszDescr;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #endif
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> ULONG ulMediaState;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> ULONG ulMediaType;
```

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```
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> ULONG ulPhysicalMediaType;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> INT nInfraMode;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> INT nAuthMode;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> INT nWepStatus;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> DWORD dwCtlFlags; // control flags (see INTFCTL_*
> >>>> >>>>>>>>>> defines)
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> DWORD dwCapabilities; // capabilities flags (see
> >>>> >>>>>>>>>> INTFCAP_*
> >>>> >>>>>>>>>> defines)
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> RAW_DATA rdSSID; // encapsulates the SSID raw binary
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> RAW_DATA rdBSSID; // encapsulates the BSSID raw binary
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> RAW_DATA rdBSSIDList; // encapsulates one
> >>>> >>>>>>>>>> WZC_802_11_CONFIG_LIST
> >>>> >>>>>>>>>> structure
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> RAW_DATA rdStSSIDList; // encapsulates one
> >>>> >>>>>>>>>> WZC_802_11_CONFIG_LIST
> >>>> >>>>>>>>>> structure
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> RAW_DATA rdCtrlData; // data for various control
actions
> >>>> >>>>>>>>>> on
> >>>> the
> >>>> >>>>>>>>>> interface
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #ifdef UNDER_CE
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> BOOL bInitialized; // To track caller that freeing
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> // the same structure more than one time..
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> #endif
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> DWORD nWPAMCastCipher;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> } INTF_ENTRY, *PINTF_ENTRY;
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> "John K Gummadi" <john@xxxxxxxxxxx> wrote in message
> >>>> >>>>>>>>>> <news:O%234FBsMQFHA.576@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> >>>> >>>>>>>>>> Thanks Akardy,
> >>>> >>>>>>>>>>
> >>>> >>>>>>>>>> I have read that topic and what I need is the basic
```


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> >>>> >
> >>>
> >>
ks/browse_thread/thread/8ca9722da4870f0a/a925a934bc215987?q=arkadyf+INTF_ENT
> >>> >>> >>> >>> >>> RY&rnum=2#a925a934bc215987
> >>> >>> >>> >>> >>> Arkady
> >>> >>> >>> >>> >>>
> >>> >>> >>> >>> >>> "John K Gummadi" <john@xxxxxxxx> wrote in message
> >>> >>> >>> >>> >>> news:eD3M12DOFHA.3928@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> >>> >>> >>> >>> >>> >>> Hello All,
> >>> >>> >>> >>> >>>
> >>> >>> >>> >>> >>> I'm working on a WiFi tool that scans, connects to
> >>> >>> >>> >>> >>> >>> accesspoints,
> >>> >>> >>> >>> >>> >>> etc.,
> >>> >>> >>> >>> >>> >>> So
> >>> >>> >>> >>> >>> >>> far on XP SP1, I'm able to stop WZC before my app
> >>> >>> >>> >>> >>> >>> (by
> >>> >>> >>> >>> >>> >>> simply
> >>> >>> >>> >>> >>> >>> executing
> >>> >>> >>> >>> >>> >>> "net
> >>> >>> >>> >>> >>> >>> stop wzcsvc"). It stops successfully and I'm able
to
>>> get
>>>> >>>> handle
>>>> >>>> >>>> to
>>>> >>>> >>>> >>>> the
>>>> >>>> >>>> >>>> >>>> WLAN
>>>> >>>> >>>> >>>> >>>> >>>> adapter and I could send different commands to set
>>>> >>>> >>>> >>>> >>>> >>>> WEP
>>>> >>>> >>>> >>>> >>>> >>>> key,
>>>> >>>> >>>> >>>> >>>> >>>> connect,
>>>> >>>> >>>> >>>> >>>> >>>> etc.,
>>>> >>>> >>>> >>>> >>>> >>>>
>>>> >>>> >>>> >>>> >>>> >>>> OK, now when I do the same in SP2 machine, though
>>>> >>>> >>>> >>>> >>>> >>>> the
>>>> WZC
>>>> >>>> >>>> >>>> >>>> >>>> service
>>>> >>>> >>>> >>>> >>>> >>>> appears
>>>> >>>> >>>> >>>> >>>> >>>> have stopped, I can't get
IOCTL_NDISUIO_OPEN_DEVICE
>>>> >>>> >>>> >>>> >>>> >>>> >>>> to
>>>> >>>> >>>> >>>> >>>> >>>> >>>> work
>>>> >>>> >>>> >>>> >>>> >>>> >>>> with
>>>> >>>> >>>> >>>> >>>> >>>> >>>> DeviceIOControl. I get some error that says
>>>> >>>> >>>> >>>> >>>> >>>> >>>> something
>>>> like
>>>>> >>>>> it
>>>>> >>>>> is
>>>>> >>>>> in
>>>>> >>>>> use
>>>>> >>>>> >>>>> already. And I read in newgroups that from SP2,

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