

**This information applies only to 64-bit operating systems Windows 7,
Windows Vista and Windows Server 2008 !!!**

Windows 7 / Vista / 2008 x64 Edition Support

Fax Voip uses a test-signed kernel-mode driver for *Virtual COM Ports* that will not load by default on [64 bit Windows 7](#), [Windows Vista](#) and [Windows Server 2008](#). When you install Fax Voip on [64 bit](#) operating systems [Windows 7](#), [Windows Vista](#) or [Windows Server 2008](#) please pay special attention to the selection of *Virtual COM Ports Driver* that will be used with Fax Voip modem lines.

Possible options are:

1. To operate with *Fax Voip Virtual COM Ports* and to use [DISABLE_INTEGRITY_CHECKS mode](#).
2. To operate with *Fax Voip Virtual COM Ports* and to use [TESTSIGNING=ON boot configuration option](#).
3. To operate with [3rd party Virtual COM Port drivers](#) (for example to install [Eltima Virtual Serial Port](#) software or [Eterlogic.com Virtual Serial Ports Emulator](#)) in the *NORMAL* boot mode of [64 bit](#) operation system.

Notes

- More details about installation on 64-bit systems can be found in the chapter [Run Setup Program \(Windows 7, Vista or Windows Server 2008 64 bit\)](#).
- To install *Fax Voip Virtual COM Ports* after installation of Fax Voip, you should first apply [DISABLE_INTEGRITY_CHECKS mode](#) or [TESTSIGNING=ON boot configuration option](#). This can be done manually or by using the *Fax Voip FaxModem Control Panel*.
- Fax Voip automatically detects the current boot configuration options. If Fax Voip is configured to operate with *Fax Voip Virtual COM Ports*, and the 64 bit operating system is loaded in *NORMAL* mode, you will be notified and will have to reconfigure Fax Voip program.

Using Fax Voip Virtual Serial Port Driver

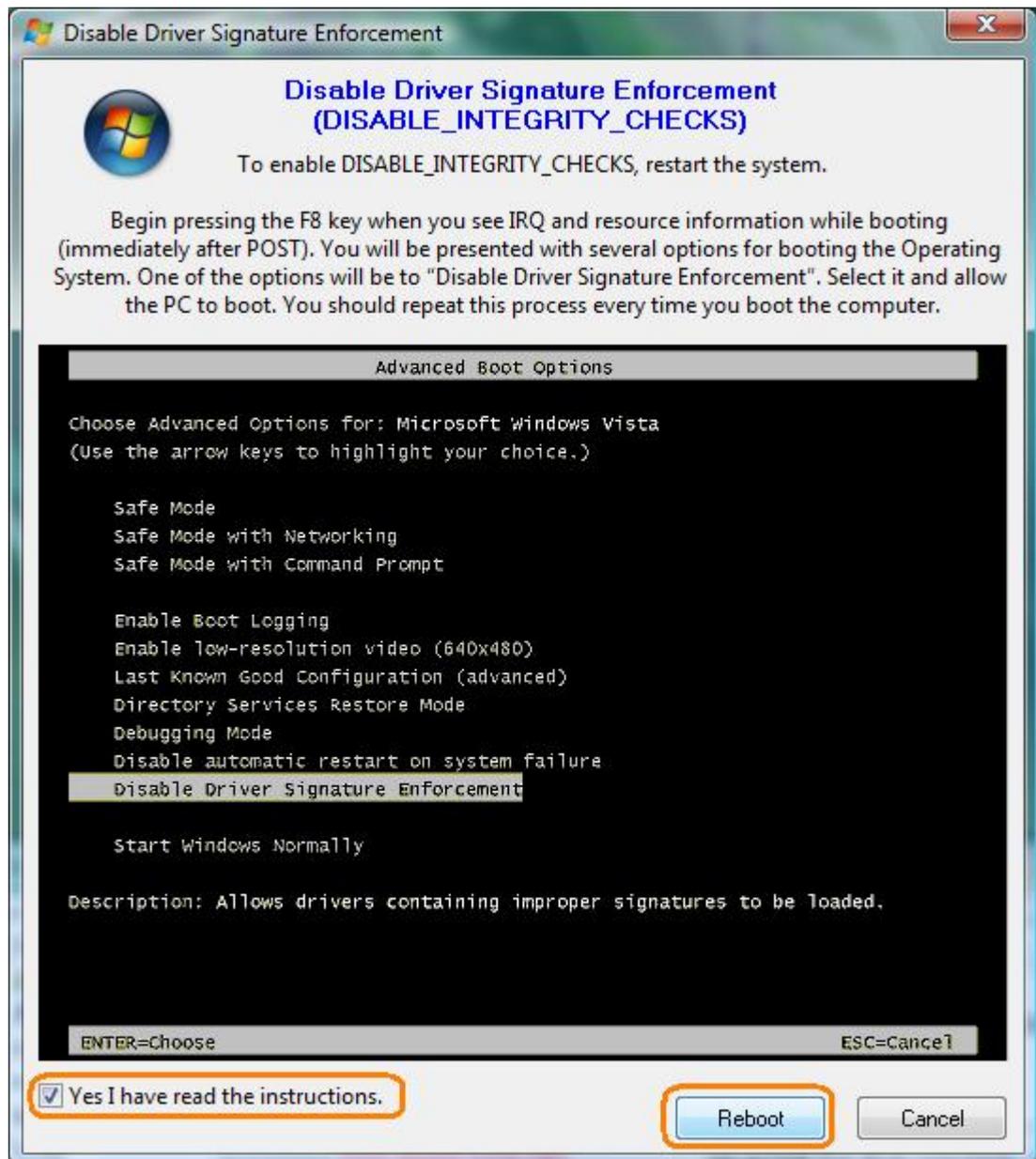
Fax Voip can not operate with *Fax Voip Virtual COM Ports* driver because of limitations of [64-bit](#) operating systems [Windows 7](#), [Windows Vista](#) and [Windows Server 2008](#), imposed by Microsoft. There are two ways to install / operate / uninstall with *Fax Voip Virtual COM Ports* on these operating systems.

- [DISABLE_INTEGRITY_CHECKS mode](#)
- [TESTSIGNING=ON boot configuration option](#)

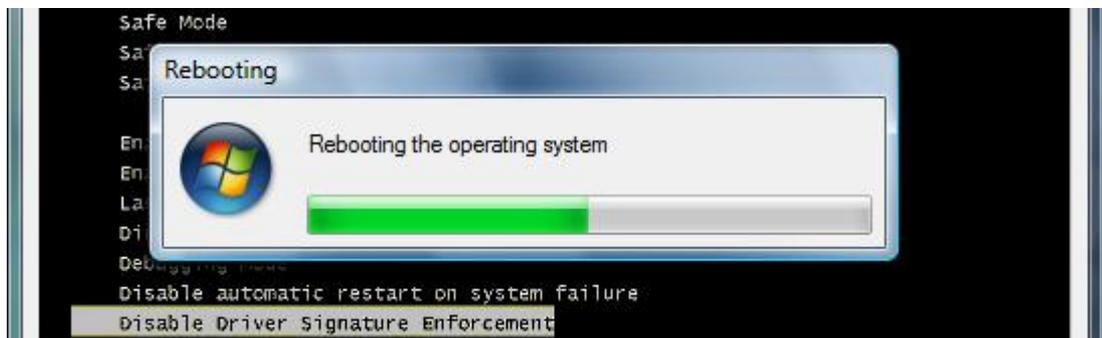
In the near future we do not plan to use the signed driver. Nevertheless, we will not object if you want to pay for a certificate and sign our driver for your use.

Disable Driver Signature Enforcement (DISABLE_INTEGRITY_CHECKS)

Begin pressing the *F8* key when you see IRQ and resource information while booting (immediately after POST). You will be presented with several options for booting Windows 7, Vista or Windows Server 2008. One of the options will be to "*Disable Driver Signature Enforcement*". Select it and allow the computer to boot. To be possible to operate with *Fax Voip Virtual COM Ports*, you should repeat this process every time you boot the computer.



5. Read the instructions, select the **Yes I have read the instructions** option and then click **Reboot** to reboot the operating system.



6. Begin pressing the F8 key when you see IRQ and resource information while booting (immediately after POST). You will be presented with several options for booting Windows 7, Vista or Windows Server 2008. One of the options will be to *"Disable Driver Signature Enforcement"*. Select it and allow the PC to boot. You should manually repeat this procedure every time you boot the computer.

TESTSIGNING Boot Configuration Option

The TESTSIGNING boot configuration option determines whether [Windows 7](#), [Windows Vista](#) or [Windows Server 2008](#) will load any type of test-signed kernel-mode code. This option is not set by default, which means test-signed kernel-mode drivers will not load by default on 64-bit versions of [Windows 7](#), [Windows Vista](#) or [Windows Server 2008](#).

To enable test-signing, use the following **BCDEdit** command:

Bcdedit.exe -set TESTSIGNING ON

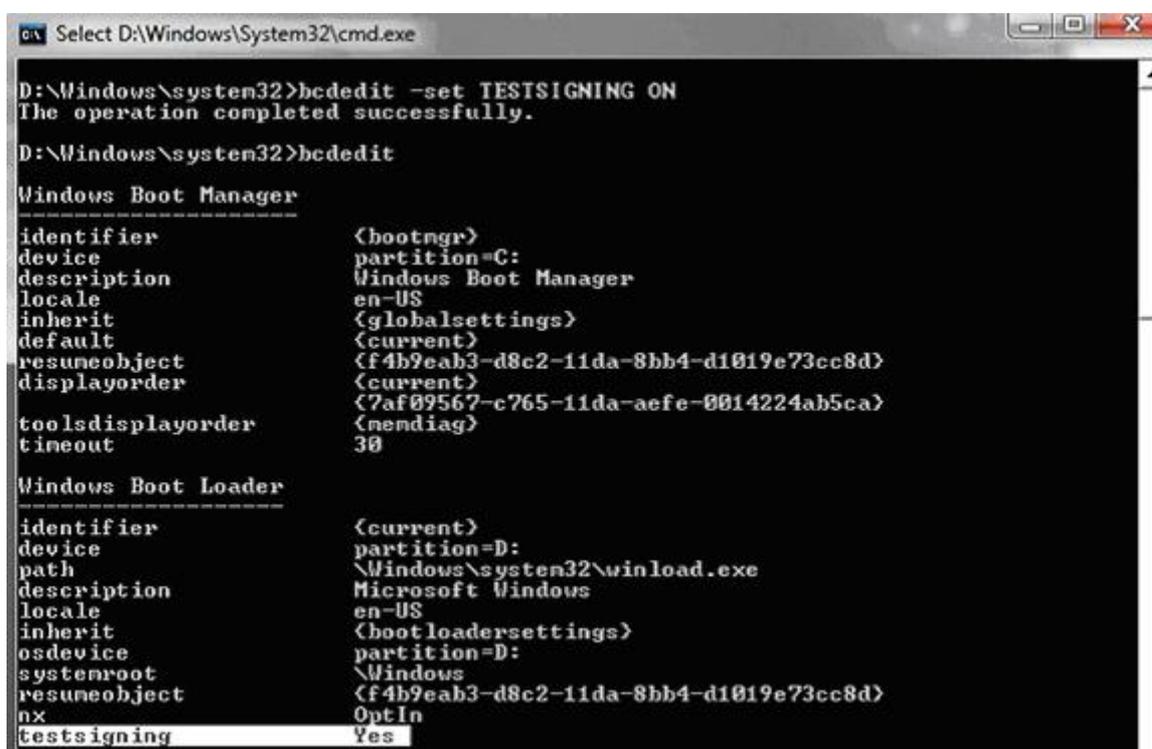
To disable test-signing, use the following **BCDEdit** command:

Bcdedit.exe -set TESTSIGNING OFF

After running the **BCDEdit** command, **restart the computer** for the change to take effect.

To use **BCDEdit**, the user must be a member of the Administrators group on the system and run the command from an elevated command prompt. To open an elevated command prompt, create a desktop shortcut to **Cmd.exe**, right-click on the **Cmd.exe** shortcut, and select **Run as administrator**.

The following figure shows the result of using the **BCDEdit** command-line tool to enable test-signing.



```

D:\Windows\system32>bcdedit -set TESTSIGNING ON
The operation completed successfully.

D:\Windows\system32>bcdedit

Windows Boot Manager
-----
identifier           <bootmgr>
device               partition=C:
description          Windows Boot Manager
locale               en-US
inherit              <globalsettings>
default              <current>
resumeobject         {f4b9eab3-d8c2-11da-8bb4-d1019e73cc8d}
displayorder         <current>
toolsdisplayorder   {7af09567-c765-11da-aefe-0014224ab5ca}
timeout              30

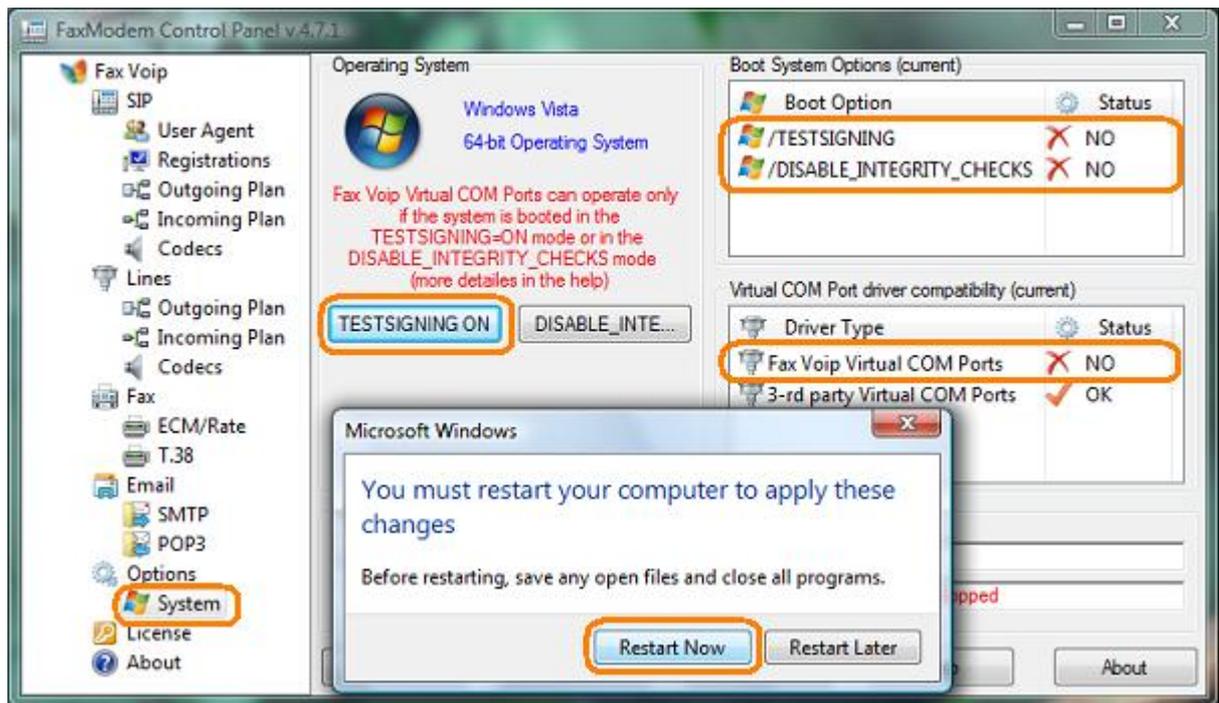
Windows Boot Loader
-----
identifier           <current>
device               partition=D:
path                 \Windows\system32\winload.exe
description          Microsoft Windows
locale               en-US
inherit              <bootloadersettings>
osdevice             partition=D:
systemroot           \Windows
resumeobject         {f4b9eab3-d8c2-11da-8bb4-d1019e73cc8d}
nx                   OptIn
testsigning          Yes

```

When the **BCDEdit** option for test-signing is enabled, Windows does the following: Displays a watermark with the text “**Test Mode**” in all four corners of the desktop, to remind users the system has test-signing enabled. The operating system loader and the kernel load drivers that are signed by any certificate. The certificate validation is not required to chain up to a trusted root certification authority. However, each driver image file must have a digital signature.

To apply TESTSIGNING boot configuration option via Fax Voip FaxModem Control Panel

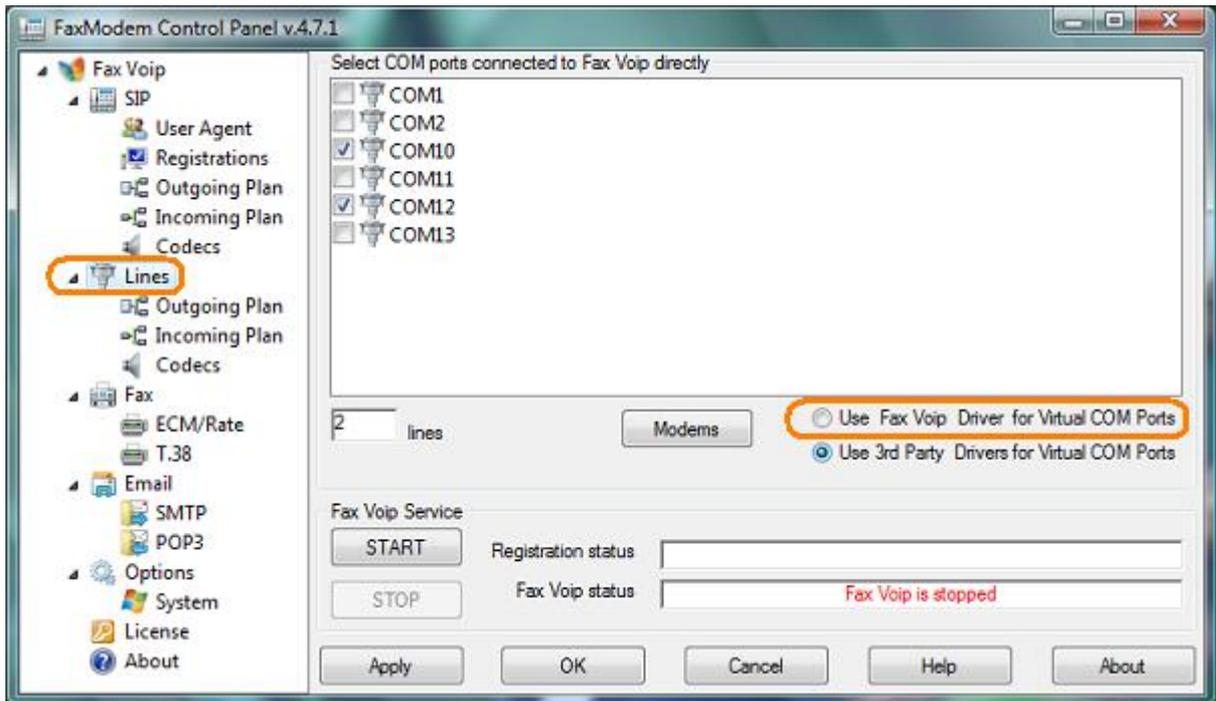
1. Open **Fax Voip FaxModem Control Panel**.
2. Click **Options** in TreeView, and then click **System**.
3. In the Operation System pane click **TESTSIGNING ON** button.



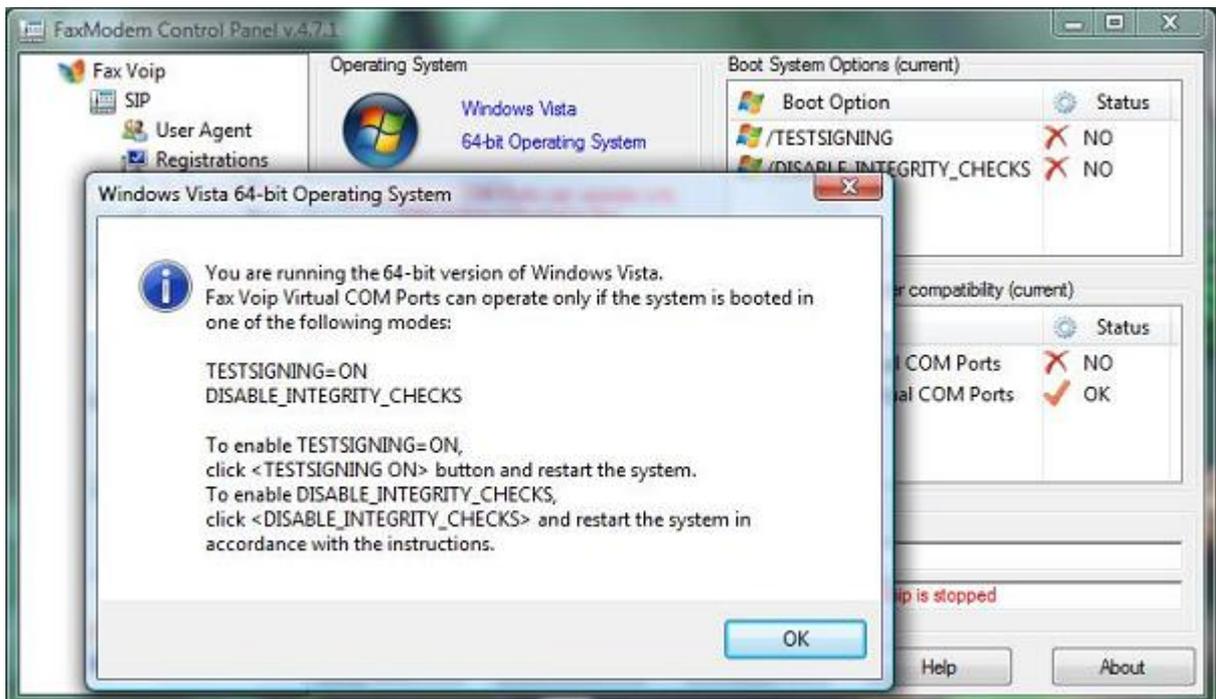
4. Click **Restart Now** to reboot the operating system and apply **TESTSIGNING=ON** boot configuration option.

Troubleshooting

Not able to select *Use Fax Voip Driver for Virtual COM Ports* option.



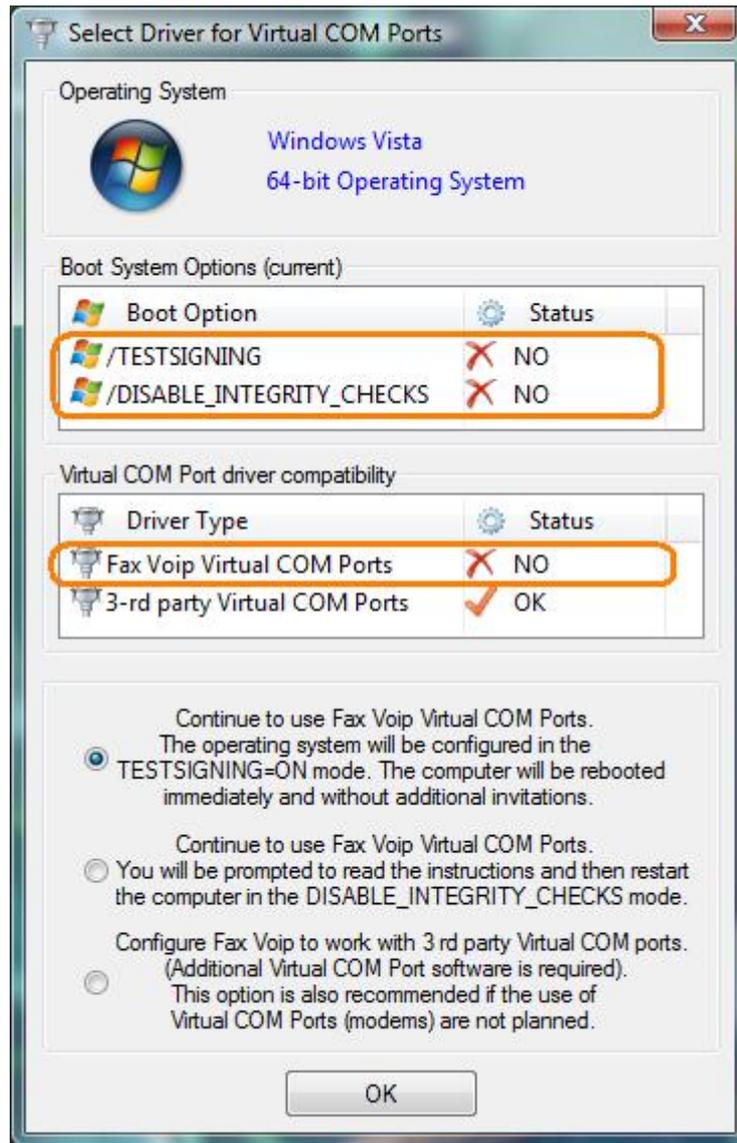
FaxVoip display a warning message and switches to **System** panel.



Cause: the 64 bit operation system Windows 7, Windows Vista or Windows Server 2008 is booted in the *NORMAL* mode.

Solution: you should restart your operation system in the *DISABLE_INTEGRITY_CHECKS* mode or with *TESTSIGNING=ON* boot configuration option.

Fax Voip displays the *Select Driver for Virtual COM Ports* dialog window.



Cause: Fax Voip was originally configured to work with *Fax Voip Virtual COM Ports*. The 64 bit operation system Windows 7, Windows Vista or Windows Server 2008 is booted in the *NORMAL* mode.

Solution: select one of the options and then click **OK**. More details can be found in the chapter [Run Setup Program \(Windows 7, Vista or Windows Server 2008 64 bit\)](#).

Using 3-rd party Virtual Serial Port Drivers

Fax Voip can operate with *third-party drivers* for *Virtual COM Ports*. This is especially important for users of new 64-bit Windows operating systems, because some third-party drivers can operate in the *NORMAL* boot mode on those systems. We have tested Fax Voip with different drivers, and can recommend [Eltima Virtual Serial Port Driver](#) and [Eterlogic.com Virtual Serial Ports Emulator](#). May also use other drivers, but should take into account that not all manufacturers support the fax transmission with Serial Port emulation. If you want to use third-party drivers, it is desirable to install the selected program before installing Fax Voip and read the relevant documentation. More details can be found in the section [Using Fax Voip with Virtual COM Port Soft](#) of this User Guide.