X-pand into the Future

e u r e x *circular 037/02*

Date: Frankfurt, 30 April, 2002
Recipients: All Eurex members and vendors
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Information on the Start of Support for Windows XP

Related Eurex Circulars: 030/02

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Content may be most important for:	**Attachments:**
➲ IT / System Administration	Windows XP Migration Document

Summary:

In Circular 030/02 we informed you that, with the exception of @Eurex workstation installations, support for Windows XP would be provided on workstations for Eurex Release 5.0 from 6 May, 2002.

The Eurex 5.0 production and simulation software kits which were distributed on March 28 in relation to the Windows 2000 support can also be used for migration from Windows NT to Windows XP. The kits are available for download from our web-site “www.eurexchange.com” at the location ‘info for members > Eurex software kits’. Installation instructions and details of migration from Windows NT to Windows XP can be found in the “Windows XP Migration Document” attached to this circular.

For the introduction of Windows XP a modified version of the “Common Sizing Guidelines GATE 3.0” is available for download from the Eurex web-site ‘www.eurexchange.com’.

The sizing requirements for Windows XP are the same as those for Windows 2000.

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'info for members > Manuals >Technical manuals'.

The sizing requirements for Windows XP are the same as those for Windows 2000.

To allow a step-wise migration from Windows NT to Windows XP and/or Windows 2000, until the introduction of Eurex Release 6.0, Windows NT, Windows 2000 and Windows XP will be supported in parallel.

We would stress that in order to minimize risks we strongly recommend that the migration from Windows NT to Windows XP/Windows 2000 is carried out well in advance of the introduction of Eurex Release 6.0.

Thus, from 6 May, 2002 until the introduction of Eurex Release 6.0, the following MISS/Workstation combinations will be supported:

MISS	Workstation
Windows NT 4.0, SP5	Windows NT 4.0, SP5
Windows NT 4.0, SP5	Windows 2000, SP2
Windows 2000, SP2	Windows NT 4.0, SP5
Windows 2000, SP2	Windows 2000, SP2
Windows 2000, SP2	Windows XP Professional
Sun Solaris, Version 8	Windows NT 4.0, SP5
Sun Solaris, Version 8	Windows 2000, SP2
Sun Solaris, Version 8	Windows XP Professional
Sun Solaris, Version 8	Sun Solaris, Version 8

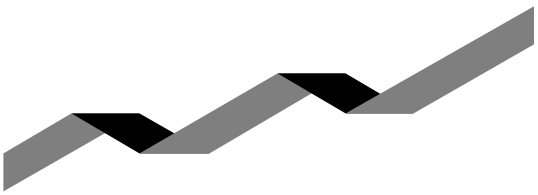
Frankfurt, 30 April, 2002

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Deutsche Börse



Windows XP Migration Document

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1 General

The purpose of this document is to provide the relevant information necessary for the migration to Windows XP. This includes in general

1. The supported Windows XP Professional configurations (chapter 2).
2. The Eurex, Xetra and GATE software which is Windows XP Professional compatible and the software distribution process (chapter 3).
3. The Windows XP Professional migration paths, (i.e.) the steps which have to be taken to perform a scratch installation of Windows XP, Professional, or upgrade Windows NT 4.0 to Windows XP, Professional, and subsequently install the Gate, Xetra and/or Eurex Software (chapters 4-7).
4. Windows XP Professional configuration issues which may occur (chapter 8).

Please refer to the “Windows 2000 Migration Document” for detailed information about the creation of user groups and users for Xetra and Eurex on Windows 2000 MISS’s.

2 Supported Windows XP Configurations

2.1 Supported Windows XP Operating Systems

The following operating system version of Windows XP will be supported:

	Workstation
Operating System:	Windows XP Professional
Service Pack:	Critical updates are recommended
Language:	English

Deutsche Börse tests have been performed with a Windows XP system configuration including the following updates (as of April 30, 2002).

- Security Update, February 14, 2002 (Internet Explorer 6),
- Security Update, February 11, 2002 (Internet Explorer 6),
- System Recovered Error Message Update,
- Security Update, February 13, 2002 (MSXML 2.6 and 3.0),
- Security Update February 12, 2002,
- Critical Update, February 10, 2002,
- Critical Update, February 9, 2002,
- Security Update, December 17, 2001,
- Windows XP Application Compatibility Update,
- Remote Assistance Connection,
- Windows XP Update Package, October 25, 2001,
- Security Update, March 28, 2002 (Internet Explorer 6),
- Q311967: Security Update,
- Windows XP Application Compatibility Update, April 2002.

We strongly recommend to install at least the above mentioned updates.The updates can be found under the "critical" section within the "Windows Update" function.

2.2 Supported MISS and Workstation Combinations

From May 6, 2002 onwards, until the introduction of Eurex Release 6.0 (October 28, 2002) and Xetra Release 7.0 (August 19, 2002) the following MISS/workstation combinations will be supported:

MISS	Workstation
Sun Solaris, Version 8	Sun Solaris, Version 8
Sun Solaris, Version 8	Windows NT 4.0, SP 5
Sun Solaris, Version 8	Windows 2000, SP2
Sun Solaris, Version 8	Windows XP Professional
Windows NT 4.0, SP 5	Windows NT 4.0, SP 5
Windows NT 4.0, SP 5	Windows 2000, SP2
Windows 2000, SP2	Windows NT 4.0, SP 5
Windows 2000, SP2	Windows 2000, SP2
Windows 2000, SP2	Windows XP Professional

After the introduction of Xetra Release 7.0 and Eurex Release 6.0 on the above mentioned dates the support for Windows NT 4.0 on both MISS and workstation will be completely withdrawn.

3 Windows XP Software and Software Distribution

For the migration to Windows XP the specific Windows 2000 compatible Eurex, Xetra and GATE software kits have to be used.

Please note that @Eurex 5.0 Production and Simulation is not supported on Windows XP.

Deutsche Börse AG has already transferred the necessary software kits to Xetra and Eurex members / vendors during the kit Distribution of the respective Windows 2000 compatible Xetra / Eurex software which took place on March 28, 2002.

For @Xetra new kits will be provided which can be used for Windows NT, Windows 2000 and Windows XP Installations.

In order to avoid any potential problems caused as a result of an operating system upgrade from Windows NT to Windows XP, we recommend a scratch installation of the Windows XP operating system followed by the installation of the @Xetra Release 6.5 simulation and production software.

3.1 GATE Kits

For the GATE 3.0 environment the following kits have to be used.

GATE 3.0 simulation environment:

- GATE 3.0 Simulation Full kit: **gater30s_w2k.exe**
- GATE 3.0 Simulation Update kit: **gater30s_upd4.pl**

GATE 3.0 production environment:

- GATE 3.0 Production Full kit: **gater30_w2k.exe**
- GATE 3.0 Production Update kit: **gater30_upd3.pl**

3.2 Eurex Kits

For the Eurex 5.0 environment the following kits have to be used.

Eurex 5.0 simulation environment:

- Eurex 5.0 Simulation Full kit: **eurexr50s_w2k.exe**
- Eurex 5.0 Simulation Update kit: **eurexr50s_upd3.pl**

Eurex 5.0 production environment:

- Eurex 5.0 Production Full kit: **eurexr50.exe**
- Eurex 5.0 Production Update kit: **eurexr50_upd2.pl**

@Eurex Kits:

Please note that for @Eurex 5.0 simulation and production no Windows XP compatible kits will be provided.

3.3 Xetra Kits

For the Xetra 6.5 environment the following kits have to be used.

Xetra 6.5 simulation environment:

- Xetra 6.5 Simulation Full kit: **xetrar65s_w2k.exe**
- Xetra 6.5 Simulation Update kit: **xetrar65s_upd3.pl**

Xetra 6.5 production environment:

- Xetra 6.5 Production Full kit: **xetrar65_w2k.exe**
- Xetra 6.5 Production Update kit: **xetrar65_upd2.pl**

@Xetra Kits:

- @Xetra 6.5 Simulation Full kit: **install_XT65s_w2k.exe**
- @Xetra 6.5 Production Full kit: **install_XT65_w2k.exe**

The @Xetra kits are available for download on the Xetra website www.xetra.de under path '*Members only > @Xetra > @Xetra Software'.*

4 Eurex 5.0 Simulation Environment

4.1 Eurex 5.0 Simulation - Scratch Installation under Windows XP

Steps to be performed for the Scratch Installation of Eurex 5.0 in the simulation environment:

a. Install Windows XP Professional on the workstation as announced in Eurex circular 030/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the Windows XP GATE Simulation kits for Windows XP: **gater30s_w2k.exe** and **gater30s_upd4.pl.**

c. Install the Eurex 5.0 Simulation kits for Windows XP, Professional: **eurexr50s_w2k.exe** and **eurexr50s_upd3.pl.**

4.2 Eurex 5.0 Simulation - Upgrade from Windows NT 4.0 to Windows XP

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5, to Windows XP, Professional, in the Eurex 5.0 simulation environment:

a. Install the Windows XP GATE Simulation Update kit: **gater30s_upd4.pl.**

b. Install the Eurex 5.0 Simulation Update kit 3: **eurexr50s_upd3.pl.**

c. Upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional for the workstation as announced in Eurex circular 030/2002. Please note that Windows XP Professional is only supported for workstations.

4.3 @Eurex 5.0 Simulation

Please note that @Eurex 5.0 Simulation is not supported on Windows XP.

5 Eurex 5.0 Production Environment

5.1 Eurex 5.0 Production - Scratch Installation under Windows XP

Steps to be performed for the Scratch Installation of Eurex 5.0 in the production environment:

a. Install Windows XP Professional on the workstation as announced in Eurex circular 030/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the Windows XP GATE Production kits for Windows XP Professional: **gater30_w2k.exe** and **gater30_upd3.pl.**

c. Install the current Eurex 5.0 Production kit plus Eurex 5.0 Production Update 2 for Windows XP, Professional: **eurexr50.exe** and **eurexr50_upd2.pl.**

5.2 Eurex 5.0 Production - Upgrade from Windows NT 4.0 to Windows XP

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional in the Eurex 5.0 production environment:

a. Install the Windows XP GATE Production kit: **gater30_upd3.pl.**

b. Install the Eurex 5.0 Production Update 2: **eurexr50_upd2.pl.**

c. Upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional for the workstation as announced in Eurex circular 030/2002. Please note that Windows XP Professional is only supported for workstations.

5.3 @Eurex 5.0 Production

Please note that @Eurex 5.0 Production is not supported on Windows XP.

6 Xetra 6.5 Simulation Environment

6.1 Xetra 6.5 Simulation - Scratch Installation of Windows XP

Steps to be performed for the Scratch Installation of Xetra Release 6.5 in the simulation environment:

a. Install Windows XP Professional on the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the GATE 3.0 Simulation kits for Windows XP Professional: **gater30s_w2k.exe** and **gater30s_upd4.pl.**

c. Install the Xetra Release 6.5 Simulation kits for Windows XP Professional: **xetrar65s_w2k.exe** and **xetrar65s_upd3.pl.**

6.2 Xetra 6.5 Simulation - Upgrade from Windows NT 4.0 to Windows XP

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional in the Xetra Release 6.5 simulation environment:

Prerequisites: Xetra Release 6.5 Simulation Update kit 3 is installed.

a. Install the GATE 3.0 Simulation kit for Windows XP Professional: **gater30s_upd4.pl.**

b. Upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional, for the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional, is only supported for workstations.

c. No update of the Xetra Release 6.5 simulation software will be necessary.

6.3 @Xetra 6.5 Simulation - Scratch Installation of Windows XP

Steps to be performed for the scratch installation of the @Xetra Release 6.5 in the simulation environment:

a. Install Windows XP Professional on the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the @Xetra Release 6.5 Simulation kit for Windows XP Professional: **install_XT65s_w2k.exe.**

c. Please note @Xetra specific Windows XP configuration issues described in chapter 8.

6.4 @Xetra 6.5 Simulation - Upgrade from Windows NT 4.0 to Windows XP

Please note: In order to avoid any potential problems caused as a result of an operating system upgrade from Windows NT to Windows XP, we recommend a scratch installation of the Windows XP operating system followed by the installation of the @Xetra Release 6.5 simulation software.

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional in the @Xetra Release 6.5 simulation environment:

a. Install @Xetra Release 6.5 Simulation kit for Windows XP Professional: **install_XT65s_w2k.exe.**

b. Upgrade the workstation from Windows NT 4.0, Service Pack 5, to Windows XP Professional as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

c. Please note @Xetra specific Windows XP configuration issues described in chapter 8.

7 Xetra 6.5 Production Environment

7.1 Xetra 6.5 Production - Scratch Installation of Windows XP

Steps to be performed for the Scratch Installation of Xetra Release 6.5 in the production environment:

a. Install Windows XP Professional on the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the GATE 3.0 Production kits for Windows XP Professional: **gater30_w2k.exe** and **gater30_upd3.pl.**

c. Install the Xetra Release 6.5 Production kit for Windows XP Professional: **xetrar65_w2k.exe** and **xetrar65_upd2.pl.**

7.2 Xetra 6.5 Production - Upgrade from Windows NT 4.0 to Windows XP

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5 to Windows XP Professional in the Xetra Release 6.5 production environment:

Prerequisites: Xetra Release 6.5 Production Update kit 2 is installed.

a. Install the GATE 3.0 Production Update kit for Windows XP Professional: **gater30_upd3.pl.**

b. Upgrade Windows NT 4.0, Service Pack 5 to Windows XP Professional for the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

c. No update of the Xetra Release 6.5 production software will be necessary.

7.3 @Xetra 6.5 Production - Scratch Installation of Windows XP

Steps to be performed for the Scratch Installation of @Xetra Release 6.5 in the production environment:

a. Install Windows XP Professional on the workstation as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

b. Install the @Xetra Release 6.5 Production kit for Windows XP Professional: **install_XT65_w2k.exe.**

c. Please note @Xetra specific Windows XP configuration issues described in chapter 8.

7.4 @Xetra 6.5 Production – Upgrade from Windows NT 4.0 to Windows XP

Please note: In order to avoid any potential problems caused as a result of an operating system upgrade from Windows NT to Windows XP, we recommend a scratch installation of the Windows XP operating system followed by the installation of the @Xetra Release 6.5 production software.

Steps to be performed to upgrade Windows NT 4.0, Service Pack 5, to Windows XP Professional in the @Xetra Release 6.5 production environment.

a. Install @Xetra Release 6.5 Production kit for Windows XP Professional: **install_XT65_w2k.exe.**

b. Upgrade the workstation from Windows NT 4.0, Service Pack 5, to Windows XP Professional as announced in Xetra circular 056/2002. Please note that Windows XP Professional is only supported for workstations.

c. Please note @Xetra specific Windows XP configuration issues described in chapter 8.

8 Windows XP Configuration Issues

8.1 LANA Network Card Mapping

In opposition to Windows NT, Windows XP Professional does not necessarily map “LANA 0” to the first network interface card or to the TCP/IP protocol. This may be the case if more than one network interface card is installed or if other network protocols than TCP/IP or additional network protocols besides TCP/IP will be used. In this case it will not be possible to start the architecture and the following error message occurs:

OsaUtlGetHostID: Not supported on this Version of NT.

The correct mapping of the LANA 0 to the TCP/IP protocol can be checked by executing the \opt\gate\basexx\bin\nthostid program. If the LANA 0 is correctly mapped the Hostid of the Network Adapter will be displayed. If the above error message is displayed the tool “lanacfg.exe” has to be installed to map “LANA 0” to the first network interface card or the TCP/IP protocol.

8.1.1 Enable Netbios over TCP/IP (see e.g.: Q258832)

Enable NetBIOS over TCP/IP on the workstation:

1. Click Start, point to Settings, Control Panel and then click Network Connection.
2. Right-click Local Area Connection, and then click Properties.
3. Click Internet Protocol (TCP/IP), and then click Properties.
4. Click Advanced, and then click the WINS tab.

Click Enable NetBIOS over TCP/IP.

8.1.2 Use of the LANACFG Tool

Please note that as of April 30, 2002 the LANACFG tool provided for download on the Microsoft website http://corporate.windowsupdate.microsoft.com is not compatible with Windows XP.

A Windows XP compatible LANACFG tool will be provided on member request.
In this case, please contact Deutsche Börse Customer Technical Support:
Telephone: +49-69-2101-8400 or Fax: +49-69-2101-8401

The LANACFG tool is a command-line tool used to view and change the lana mappings on your computer. This functionality was removed from the user interface in Windows XP Professional but can be added back with this tool. You only need this tool if you have a specific reason for modifying the lana mappings, or you have a legacy network application whose lana mappings must be modified to function correctly.

Once you have received the LANACFG Tool you should copy the executable file (lanacfg.exe) into the WINNT\SYSTEM32 subdirectory. If an existing version of the tool is already present in this directory it should be replaced. Open a command prompt window (“DOS Box”) and change directories to the WINNT\SYSTEM32 directory. To run the LANACFG Tool simply type ‘lanacfg’. If you run lanacfg without any parameters, you will be presented with 4 command line options to use.

showlanapaths	- Show bind paths and component descriptions for each lana.
setlananumber	- Change the lana number of a bind path.
rewritelanainfo	- Verify and write out lana info to the registry.
showlanadiag	- Show lana diagnostic info.

If you run "lanacfg showlanapaths", the LANA number information will display to the screen. However if you run "lanacfg showlanapaths>lanaconfig.txt", a text file called lanaconfig.txt will be created with the same information. The 'lanacfg showlanapaths' will basically give you a list of what LANA numbers are configured, and where they go. The output will look something like:

Lana: 0

-->NWLink NetBIOS

Lana: 3

-->WINS Client(TCP/IP) Protocol-->Internet Protocol (TCP/IP)-->NETGEAR FA310TX Fast Ethernet Adapter (NGRPCI)

In the example, there are 2 LANA numbers, number 0 going to NWLink and number 3 going through TCP/IP. To change the lana numbers to the recommended configuration, you need to do a series of:

$ lanacfg setlananumber OldLanaNumber NewLanaNumber commands to reorder them.
In the example, after doing:

$ lanacfg setlananumber 0 1

$ lanacfg setlananumber 3 0

The output from 'lanacfg showlanapaths' should now look similar to this:

Lana: 0

-->WINS Client(TCP/IP) Protocol-->Internet Protocol (TCP/IP)-->NETGEAR FA310TX Fast Ethernet Adapter (NGRPCI)

Lana: 1

-->NWLink NetBIOS

which puts the WINS Client(TCP/IP) Protocol-->Internet Protocol (TCP/IP) as the default lana number (LANA 0).

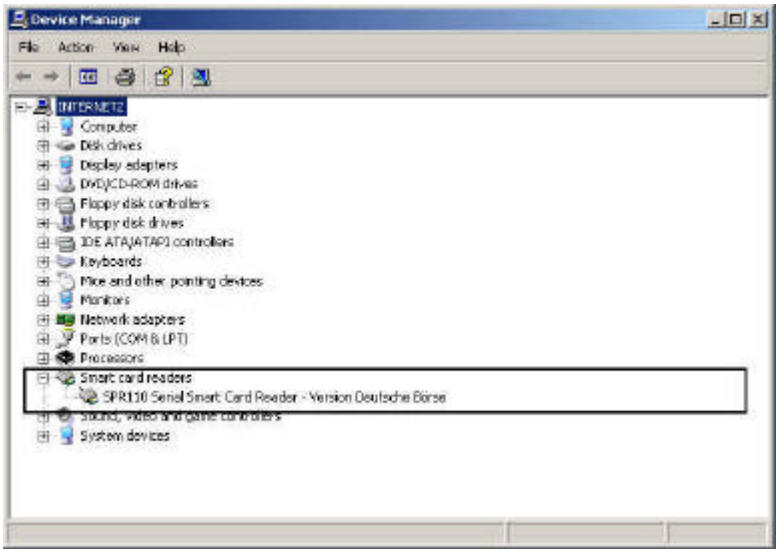
The new settings must now be written to the registry using the command:

$ lanacfg rewritelanainfo

The machine MUST now be rebooted!

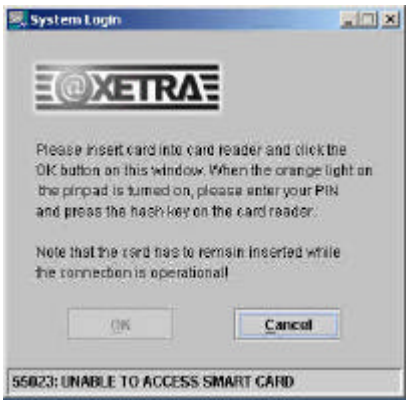
8.2 @Xetra Smart Card Reader Recognition

During scratch and upgrade installation of the Windows XP Professional operating system the Smart Card Reader delivered by Deutsche Börse AG for the use with the @Xetra Release 6.5 application will automatically be recognized.

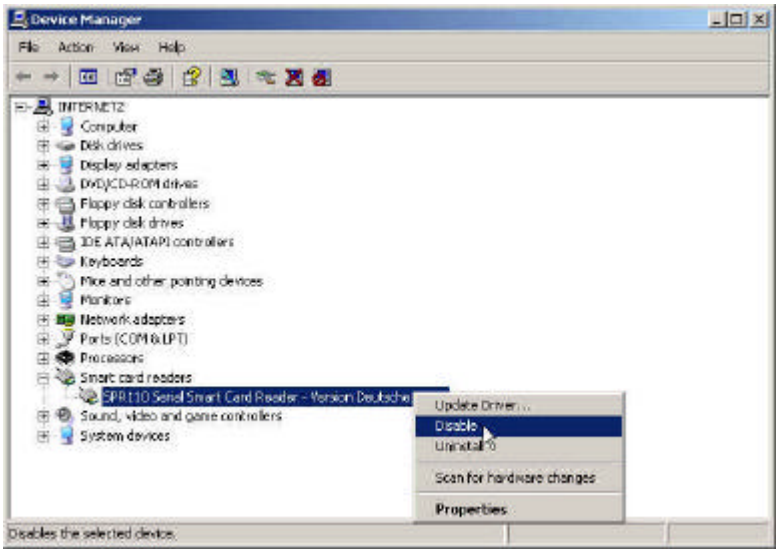


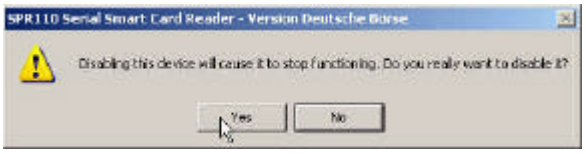
The card reader driver supplied with Windows XP Professional is not suitable for the @Xetra application and must be disabled.

Failure to disable the Windows XP driver will result in the @Xetra Release 6.5 application being unable to recognize the card reader as shown below:

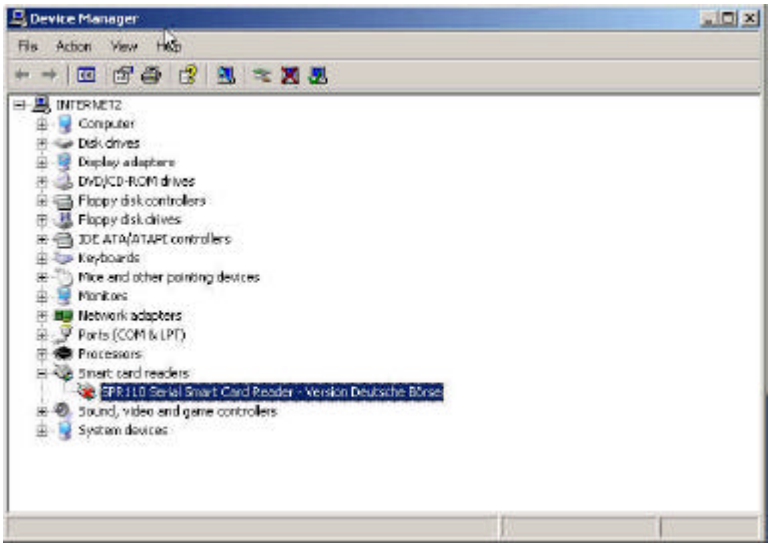


To disable the Windows XP driver for the card reader, open the Device Manager and select the card reader by clicking on it with the Right Mouse Button. On the context menu select the option “Disable”.





Confirm the disabling of the driver by pressing the “Yes” button on the dialogue, which will appear.



The card reader will now appear in the Device Manager with a red cross next to it indicating that it has been successfully disabled.