



Saveris Viewer setup instruction

Windows 7 64-bit
Windows XP 32-bit

Krys Krawczyk with Ricardo Jamarillo who has debugged the installation process

Windows 7

- The Saveris Viewer installation on the networked client computer requires manual SQL Server and Windows Firewall setting adjustments on the Saveris Pro server computer. This can cause damage if errors were made. Set the Restore point before proceeding. Ask your IT personnel to perform the settings and Viewer installation.
- The SQL Server has dynamic port range that needs to be fixed to a specific TCP communication port in range from 49152 to 65535. In this setup example we have used TCP 49682. The UDP ports should be set in range 1433-1434.
- Please note the setup order on following screen shots where
 - Windows 7 64-bit acts as Saveris Pro server
 - Windows 7 Saveris Pro will be seen in the Windows XP 32-bit Saveris Viewer.

Text file version

Saveris Viewer installation prerequisites for Windows 7 (64-bit)

System changes in Windows 7 64-bit

Changes required for a Windows 7 computer that hosts Saveris Pro program to communicate over the Ethernet network with other computers having Saveris Viewer clients.

Administrative rights are required, logon as Administrator.

Do not install Saveris Viewers on any networked computers before the SQL and Windows Firewall changes listed below are implemented.

If Saveris Viewers were installed, they must be uninstalled first.

SQL Server 2005 change

The SQL Server will work with the Saveris Viewer TCP port settings in range from 49151 to 65535. In this setup example we have used TCP 49682.

Go to Start / Microsoft SQL Server 2005 / Configuration Tools / SQL Server Configuration Manager

- Select SQL Server 2005 Network Configuration (32bit) in the left pane, double click Protocols for TSAVERIS in the right pane
- This opens Protocols for TSAVERIS in the left pane, double click TCP/IP in the right pane
- In the TCP/IP Properties window scroll to the bottom and delete entry in the IP All / Dynamic Ports. In the TCP Port below enter 49682, click OK button
- Confirm dialog "Any changes made will be saved..", don't reboot the computer yet.

Windows 7 Firewall settings change

Saveris Viewer requires TCP port settings in range from 49151 to 65535. In this setup example we have used the TCP 49682.

The UDP ports should be set in range 1433-1434.

Go to Windows Start button

- Select Control Panel / System Security
- Select Windows Firewall
- In Windows Firewall select Advanced Settings
- Select Inbound Rules in the left pane
- At the top of the right pane Click New Rule
- In the New Inbound Rule Wizard, Rule Type screen, select Port and click Next
- On the next the Protocol and Ports screen, right pane select "TCP in Does this rule to TCP or UDP?"
Select "Specific local ports:", enter 49682, click Next
- In the Action screen of the Wizard, right pane, select "Allow the connection", click Next
- In the Profile screen, right pane put checkmarks in all 3 choices Domain, Private and Public
- In the Name screen, right pane, next to Name enter Saveris TCP incoming (49682), click Finish
- Back at the Windows Firewall with Advanced Security screen select the New Rule again (right pane)
- In the New Inbound Rule Wizard, Rule Type screen, select Port and click Next
- In the Protocol and Ports screen, right pane, select UDP in "Does this rule apply to TCP or UDP?",
select "Specific local ports:" and enter range 1433-1434, click Next
- In the Action screen of the Wizard, right pane, select "Allow the connection", click Next
- In the Profile screen, right pane put checkmarks in all 3 choices Domain, Private and Public
- In the Name screen, right pane, next to Name enter Saveris UDP incoming (1433-1434), click Finish

Reboot computer, note the computer name (Start / right click Computer / Properties opens Control Panel\System and Security\System, Computer Name), start Saveris Startup Wizard, Saveris Professional Client.

Go to Start / Command Prompt or Start / All Programs / Accessories / Command Prompt. At the prompt enter ipconfig, note computer's IP address.

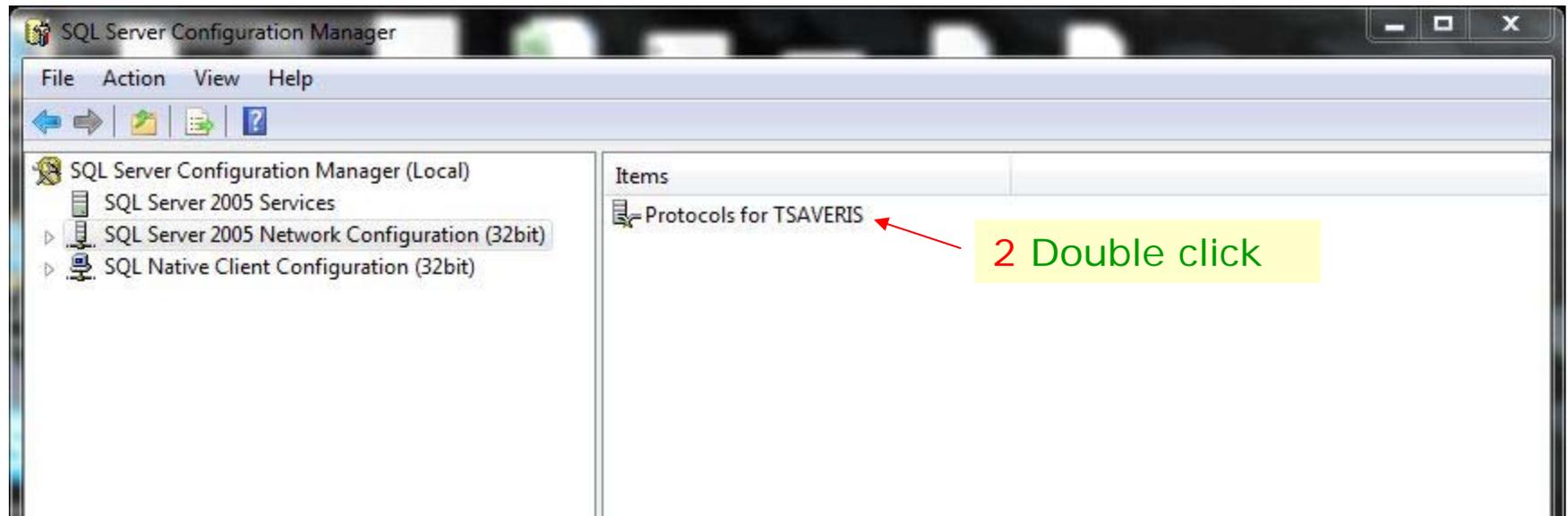
At the networked client machine (32 or 64-bit), install the Saveris Viewer from the Saveris Pro CD TestoSaverisViewer folder, and start setup.exe.

During installation of Saveris Viewer on the client computer please pay attention to the screen asking for the Saveris Server computer name:

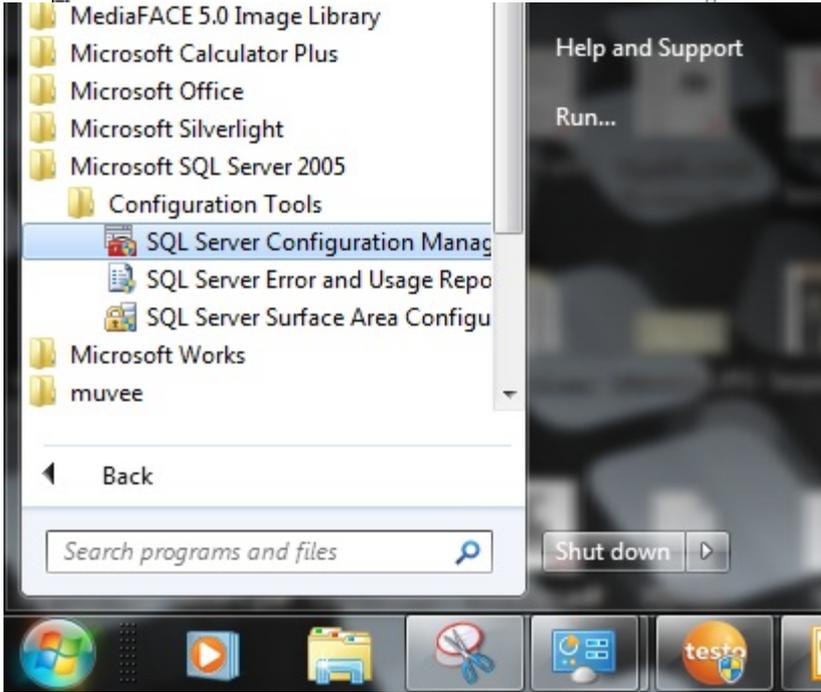
- Enter the computer name of the Saveris server computer, this will allow the Viewer to see computer even if the IP address will change.
- If you enter the IP address of the server computer, the Viewer will fail if the address changes. Make sure that the address is static when you use this option.
- If in doubt, use the computer's name instead of IP address.
- If the Viewer was installed with the IP address option, and fails to connect due to the server computer IP address change, check the IP address on the server computer using Start / Accessories / Command Prompt (CMD), enter ipconfig, Enter, note the IP address. If the IP address is different than the original Saveris address, uninstall the Viewer and reinstall with the address "name" option.

Start the Viewer from Start / All Programs / Testo / Testo Saveris Viewer. Select the project number from the Select Project dialog. The Saveris Viewer prevents users from manipulating system settings, gives no access to PDF reports, but allows acknowledging and commenting alarms, and reviewing past data in the off-line Calendar mode.

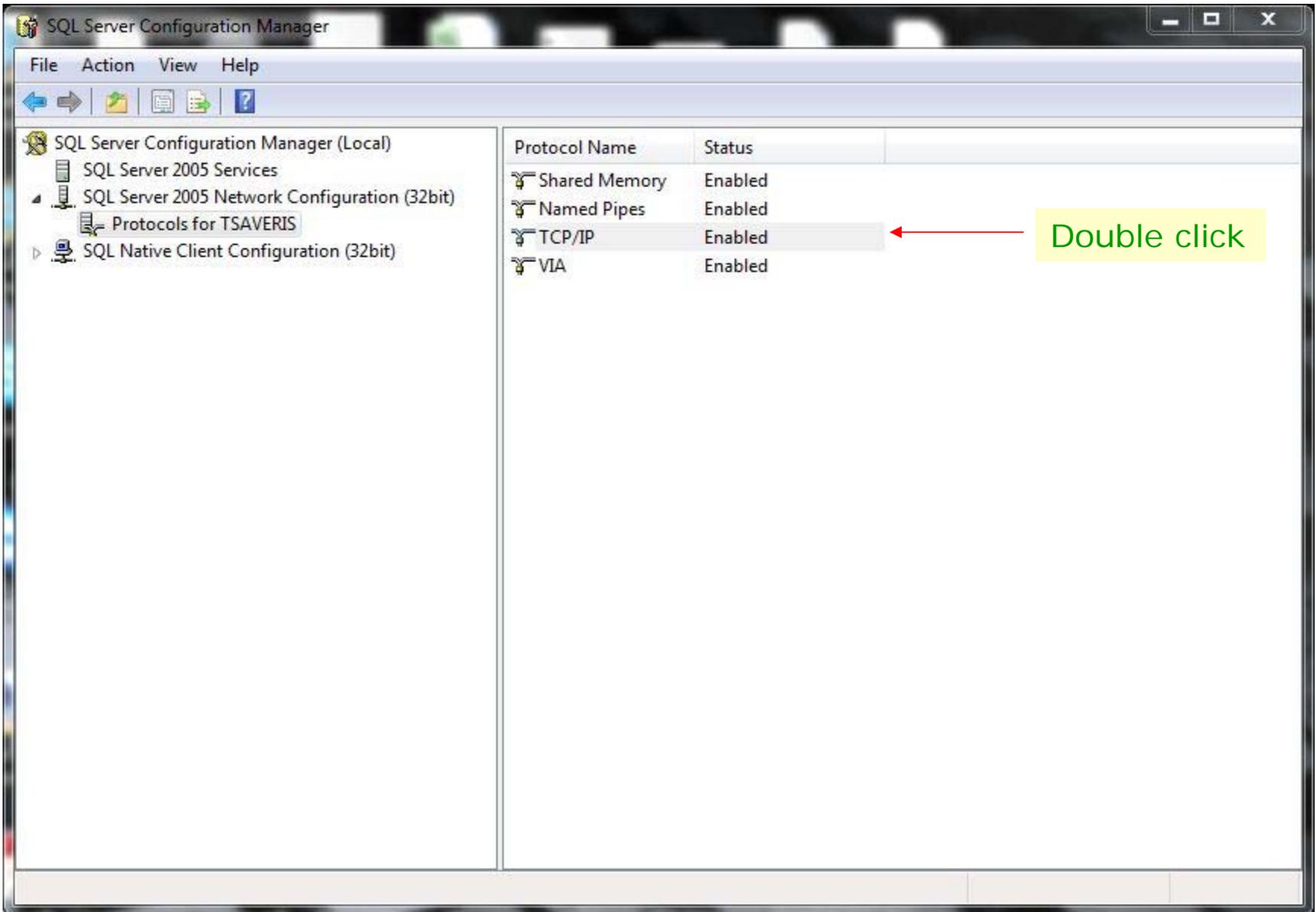
SQL Server 2005 Settings

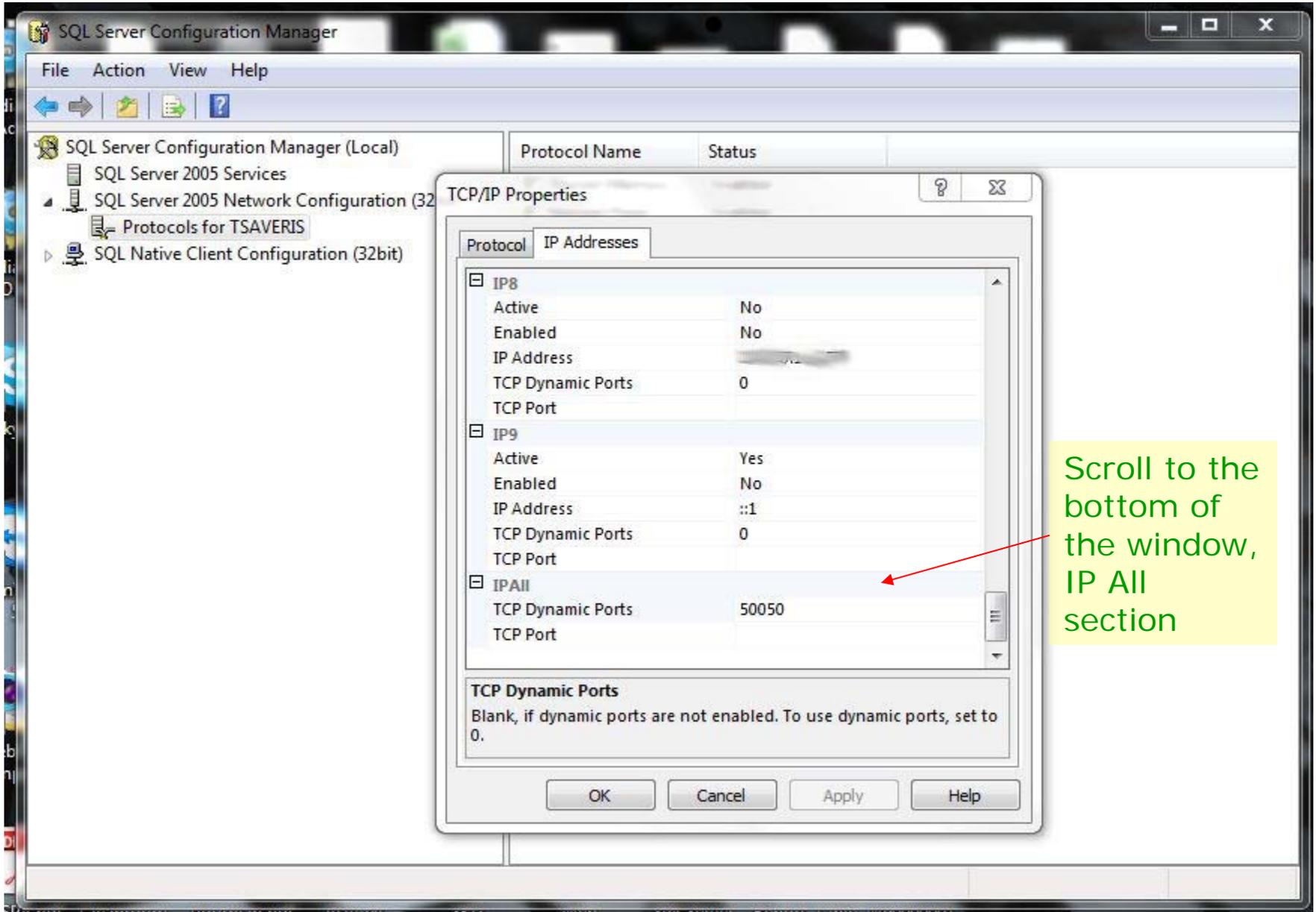


2 Double click



1
Windows 7
Go to Start Microsoft SQL Server 2005 /
Configuration Tools / SQL Server
Configuration Manager





Scroll to the bottom of the window, IP All section



- SQL Server Configuration Manager (Local)
 - SQL Server 2005 Services
 - SQL Server 2005 Network Configuration (32bit)
 - Protocols for TSAVERIS
 - SQL Native Client Configuration (32bit)

Protocol Name Status

TCP/IP Properties

Protocol IP Addresses

| | | | |
|-------------------------------------|-------|-------------------|-------|
| <input checked="" type="checkbox"/> | IP8 | Active | No |
| | | Enabled | No |
| | | IP Address | |
| | | TCP Dynamic Ports | 0 |
| | | TCP Port | |
| <input checked="" type="checkbox"/> | IP9 | Active | Yes |
| | | Enabled | No |
| | | IP Address | :::1 |
| | | TCP Dynamic Ports | 0 |
| | | TCP Port | |
| <input checked="" type="checkbox"/> | IPAll | TCP Dynamic Ports | |
| | | TCP Port | 49682 |

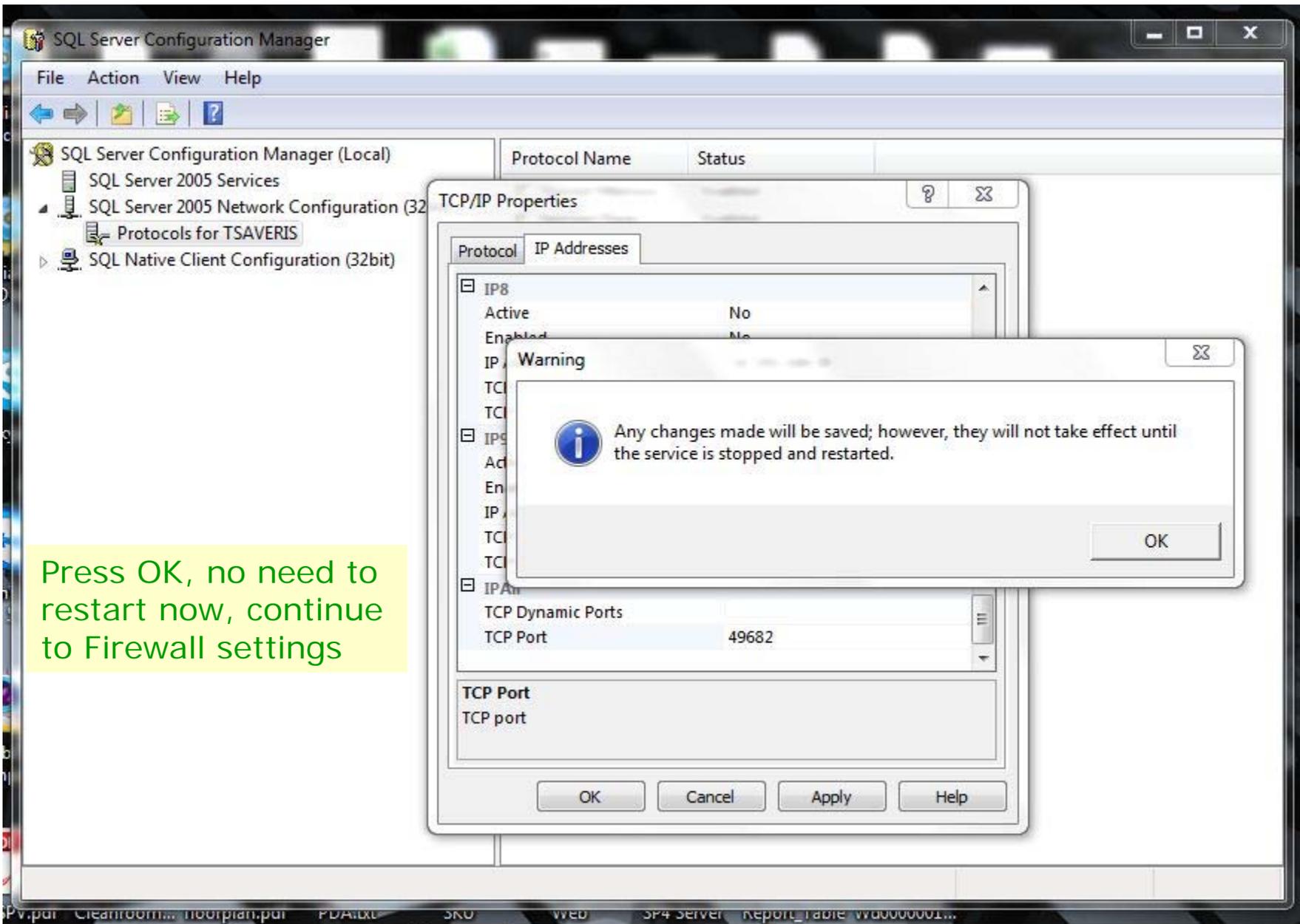
Delete Dynamic Port
Enter TCP Port 49682

OK → OK

Cancel

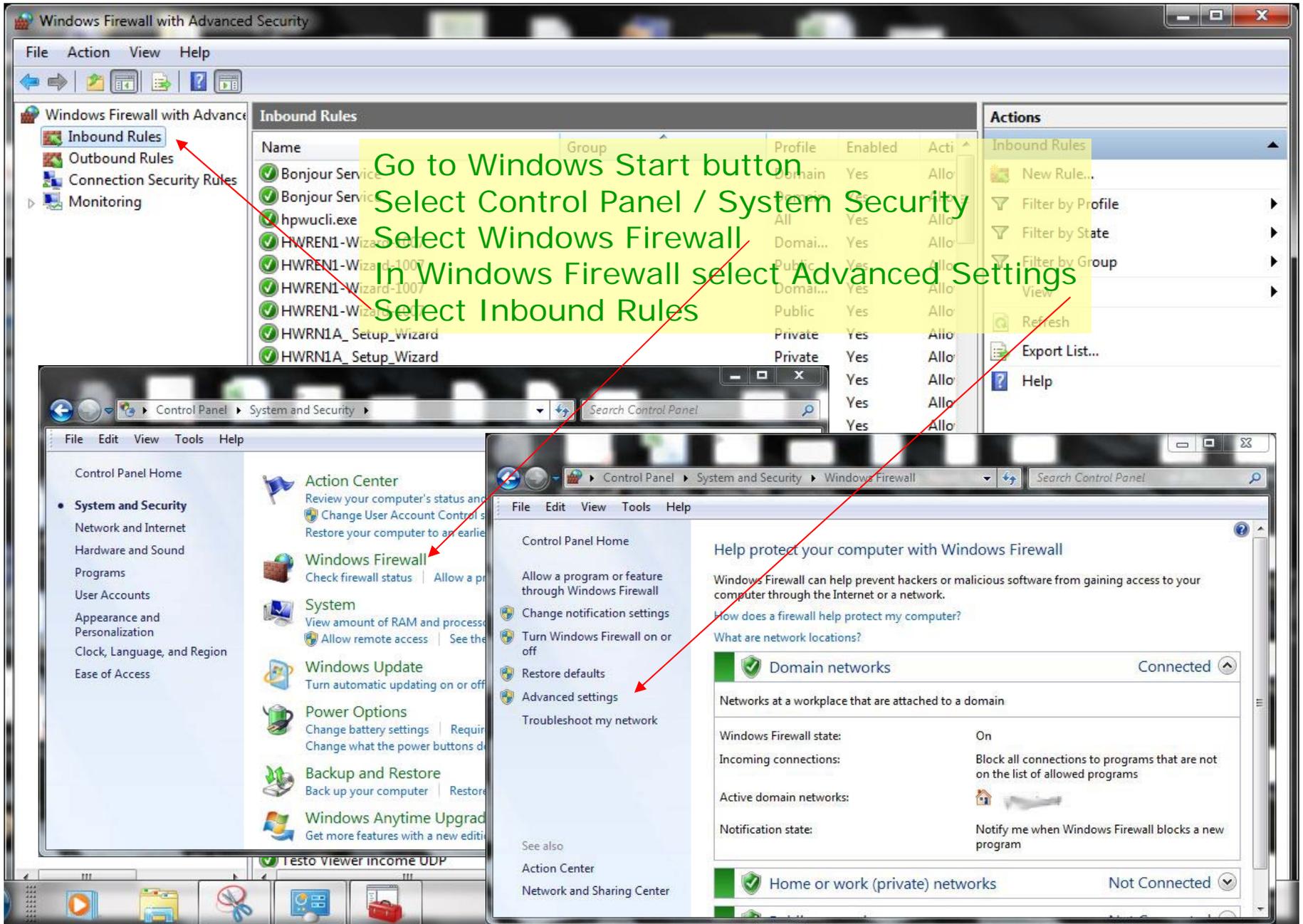
Apply

Help



Press OK, no need to restart now, continue to Firewall settings

Windows 7 Firewall Settings



New Inbound Rule Wizard

Rule Type

Select the type of firewall rule to create.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

What type of rule would you like to create?

- Program**
Rule that controls connections for a program.
- Port**
Rule that controls connections for a TCP or UDP port.
- Predefined:**

Rule that controls connections for a Windows experience.
- Custom**
Custom rule.

[Learn more about rule types](#)

< Back **Next >** Cancel

Click New Rule
Select Port
Click Next

Actions

Inbound Rules

- New Rule...
- Filter by Profile
- Filter by State
- Filter by Group

View

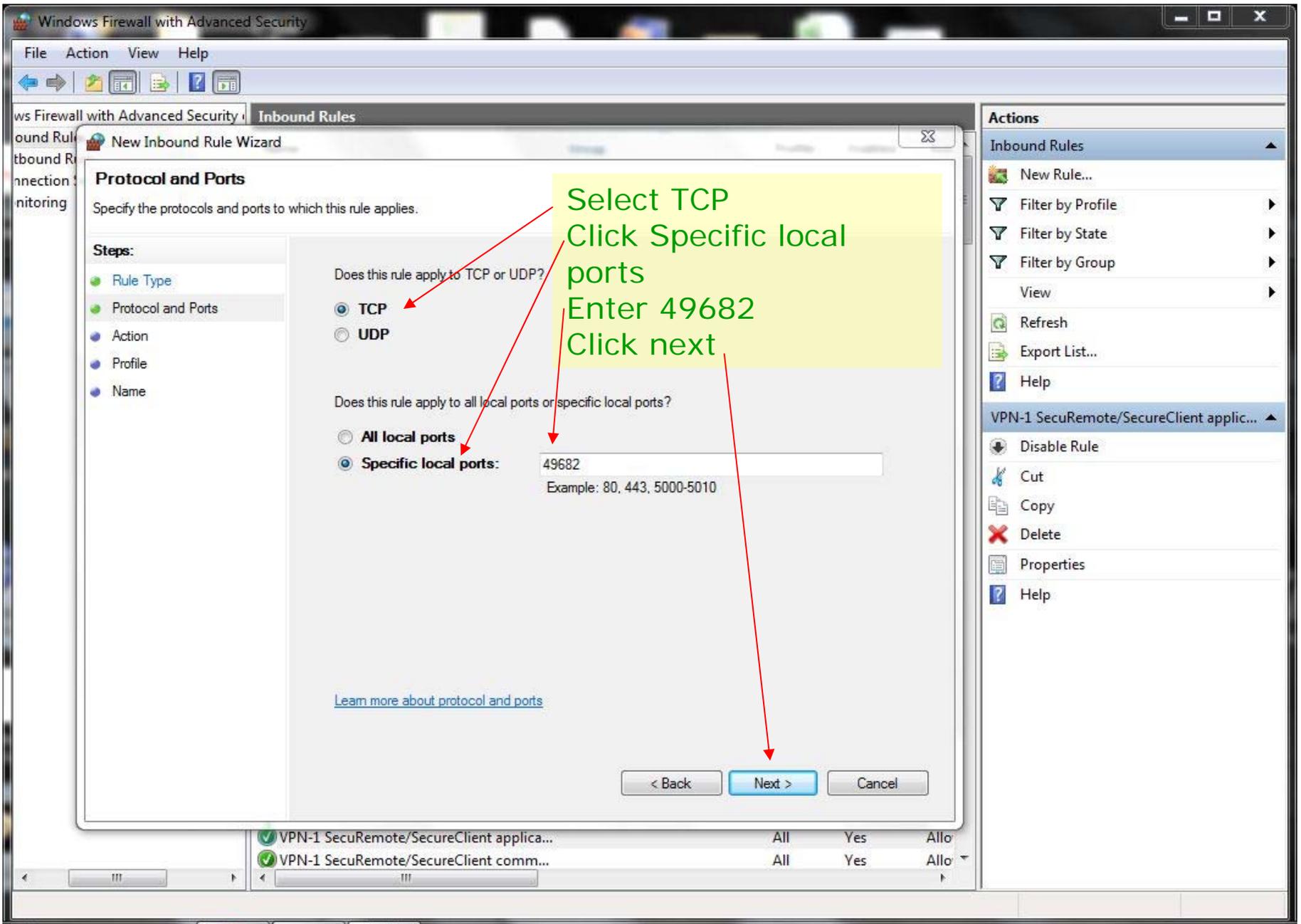
- Refresh
- Export List...

Help

VPN-1 SecuRemote/SecureClient applic...

- Disable Rule
- Cut
- Copy
- Delete
- Properties
- Help

| | | | |
|--|-----|-----|------|
| VPN-1 SecuRemote/SecureClient applica... | All | Yes | Allo |
| VPN-1 SecuRemote/SecureClient comm... | All | Yes | Allo |



Select TCP
Click Specific local
ports
Enter 49682
Click next

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

- TCP
- UDP

Does this rule apply to all local ports or specific local ports?

- All local ports
- Specific local ports:

49682

Example: 80, 443, 5000-5010

[Learn more about protocol and ports](#)

< Back Next > Cancel

Actions

Inbound Rules

- New Rule...
- Filter by Profile
- Filter by State
- Filter by Group
- View
- Refresh
- Export List...
- Help

VPN-1 SecuRemote/SecureClient applic...

- Disable Rule
- Cut
- Copy
- Delete
- Properties
- Help

| | | | |
|---|-----|-----|------|
| VPN-1 SecuRemote/SecureClient applic... | All | Yes | Allo |
| VPN-1 SecuRemote/SecureClient comm... | All | Yes | Allo |



Action

Specify the action to be taken when a connection matches the conditions specified in the rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

What action should be taken when a connection matches the specified conditions?

Allow the connection

This includes connections that are protected with IPsec as well as those are not.

Allow the connection if it is secure

This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Customize...

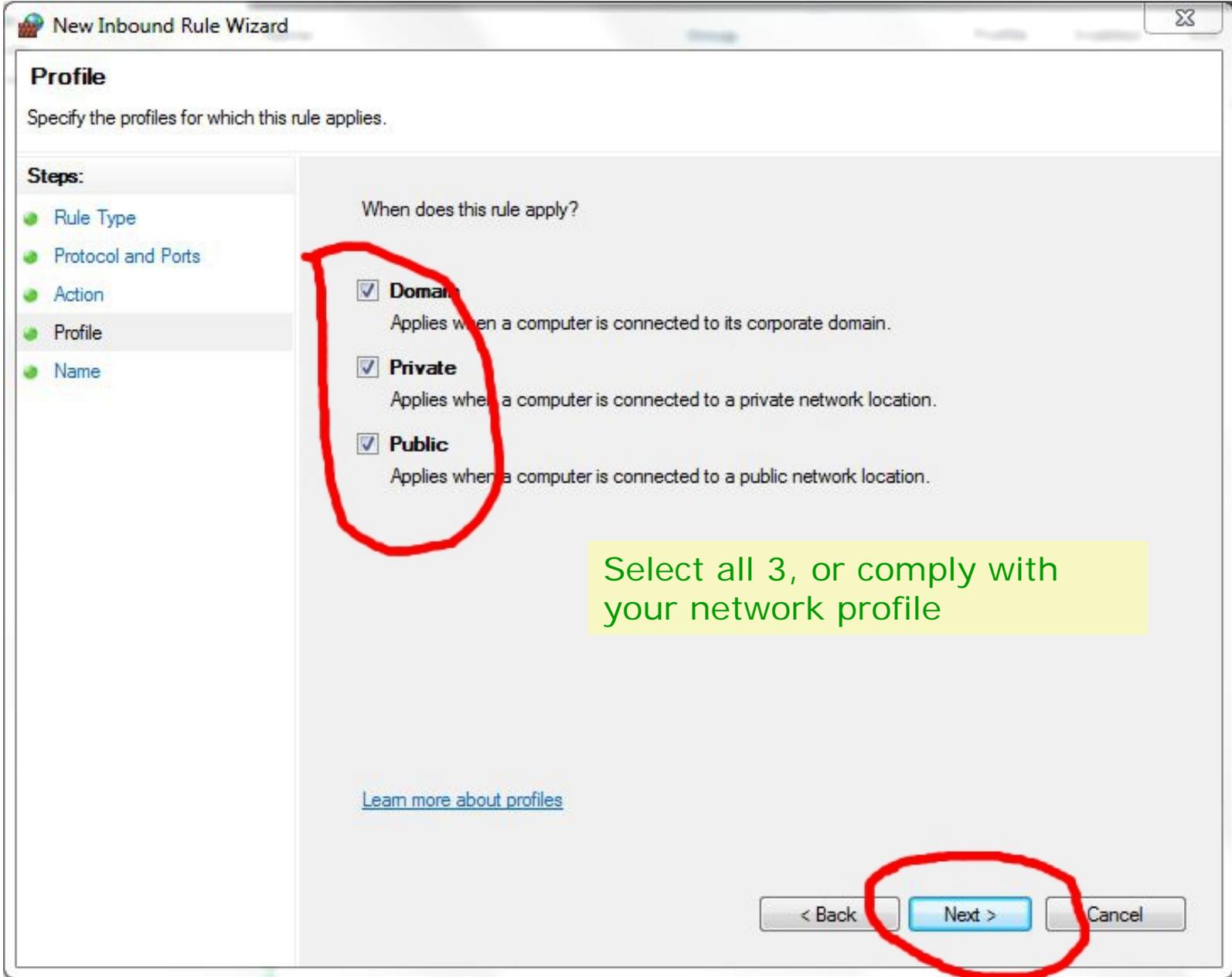
Block the connection

[Learn more about actions](#)

< Back

Next >

Cancel



Select all 3, or comply with your network profile

New Inbound Rule Wizard

Name
Specify the name and description of this rule.

Steps:

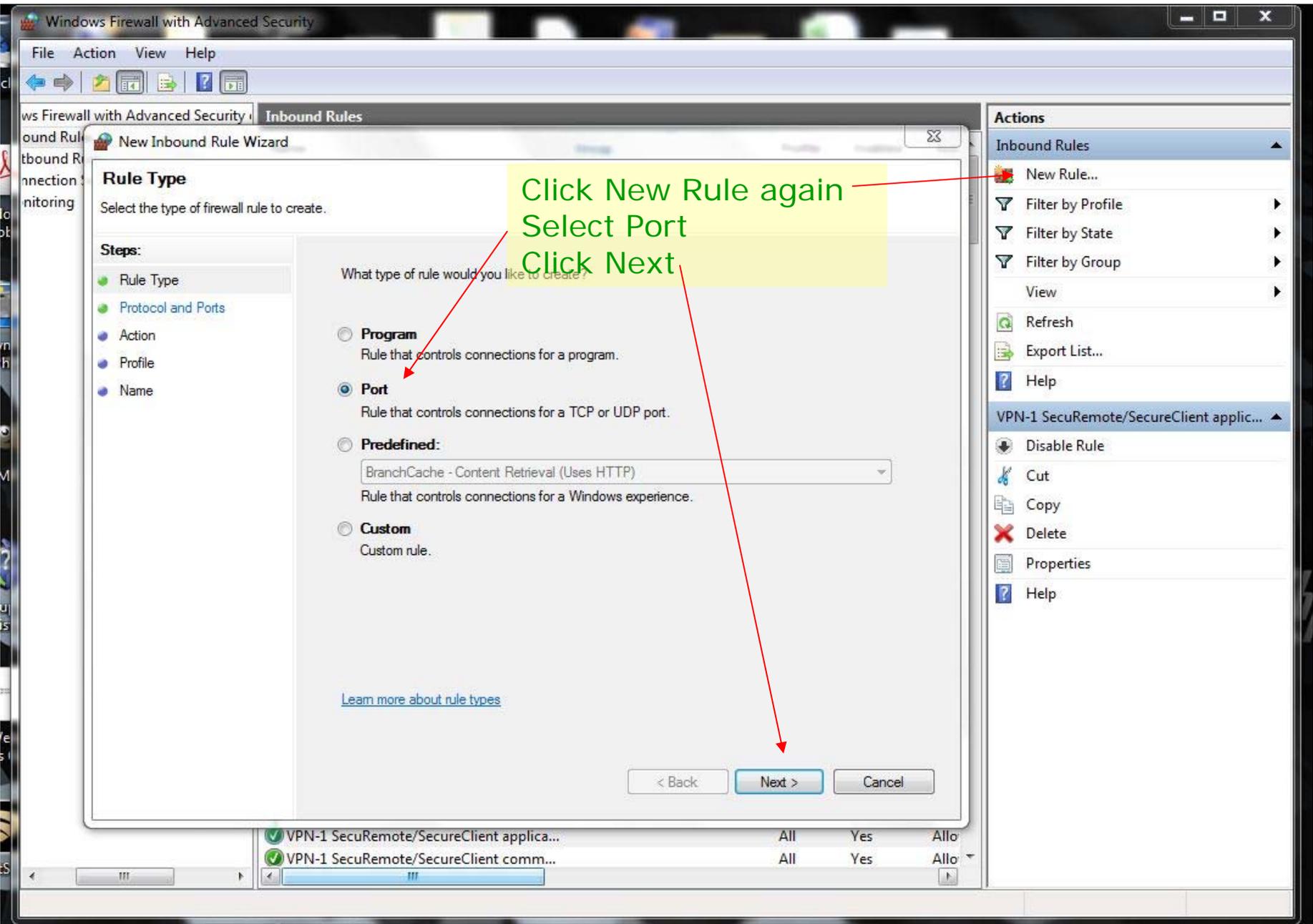
- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Name:
Saveris TCP incoming (49682)

Description (optional):

< Back Finish Cancel

Enter incoming connection name
Saveris TCP incoming (49682)
Click Finish



New Inbound Rule Wizard

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

TCP

UDP

Does this rule apply to all local ports or specific local ports?

All local ports

Specific local ports:

Example: 80, 443, 5000-5010

[Learn more about protocol and ports](#)

< Back **Next >** Cancel

Select UDP
Select Specific local ports 1433-1434
Click Next



Action

Specify the action to be taken when a connection matches the conditions specified in the rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

What action should be taken when a connection matches the specified conditions?

Allow the connection

This includes connections that are protected with IPsec as well as those are not.

Allow the connection if it is secure

This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Customize...

Block the connection

[Learn more about actions](#)

< Back

Next >

Cancel

New Inbound Rule Wizard

Profile

Specify the profiles for which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile**
- Name

When does this rule apply?

- Domain**
Applies when a computer is connected to its corporate domain.
- Private**
Applies when a computer is connected to a private network location.
- Public**
Applies when a computer is connected to a public network location.

[Learn more about profiles](#)

< Back Next > Cancel

Select all 3, or comply with your network profile

New Inbound Rule Wizard

Name
Specify the name and description of this rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Name:
Saveris UDP incoming (1433-1434)

Description (optional):

< Back Finish Cancel

Enter incoming connection name
Saveris UDP incoming (1433-1434)
Click Finish

Finishing touches

- After the SQL Manager and Windows Firewall settings were changed, reboot the computer
- Insert Saveris Pro CD and in File Manager navigate to the TestoSaverisViewer folder and start setup.exe
- **During installation of Saveris Viewer on the client computer please pay attention to the screen asking for the Saveris Server computer name:**
 - Enter the computer name as seen in Logon of the Saveris server computer, this will allow the Viewer to see computer even if the IP address will change.
 - If you enter the IP address of the server computer, the Viewer will fail if the address changes. Make sure that the address is static when you use this option, and take note of the IP address using CMD/ipconfig.
 - If in doubt, use the computer's name instead of IP address.
- If the Viewer was installed with the IP address option, and fails to connect due to the server computer IP address change, check the IP address on the server computer using Start / Accessories / Command Prompt (CMD), enter ipconfig, Enter, note the IP address. If the IP address is different than the original Saveris address, uninstall the Viewer and reinstall with the address "name" option.

During installation of Saveris Viewer on the client computer please pay attention to this screen, enter the computer name or IP address

Testo Saveris Viewer

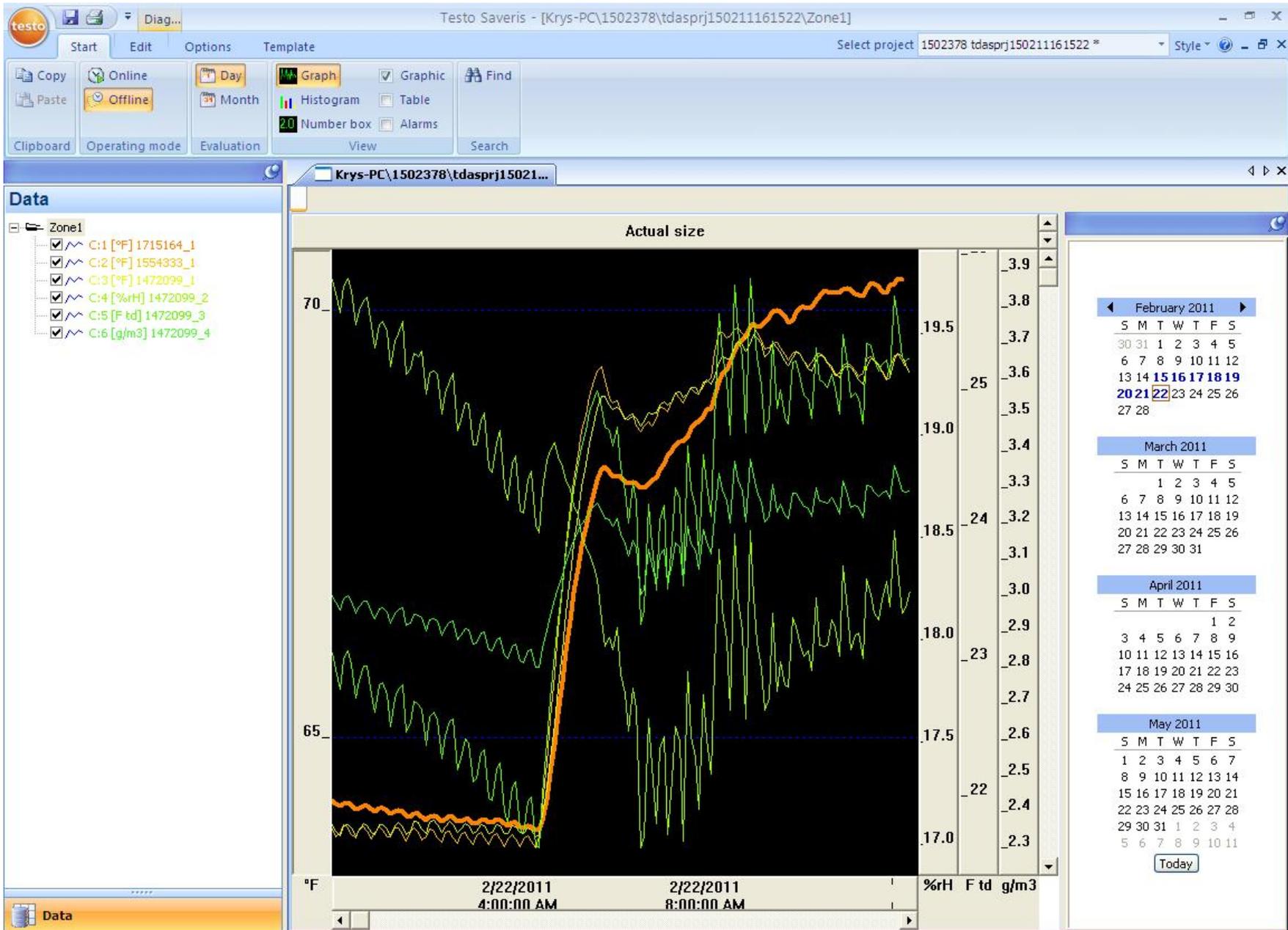
Enter Text
Please enter information in the field below.

Please enter the computer name of the testo Saveris Server. Keep the field empty if the server is on the actual PC.

InstallShield

< Back Next > Cancel

Starting the Viewer on the client computer will connect now to the computer running Saveris Pro. The Saveris Viewer prevents users from manipulating system settings, gives no access to PDF reports, but allows acknowledging and commenting alarms, and reviewing past data in the off-line Calendar mode.



Windows 7 Saveris Pro as seen by the Viewer installed on Windows XP

Windows XP

- The Saveris Viewer installation on the networked client computer requires manual SQL Server and Windows Firewall setting adjustments on the Saveris Pro server computer. This can cause damage if errors were made. Set the Restore point before proceeding. Ask your IT personnel to perform the settings and Viewer installation.
- The SQL Server has dynamic port range that needs to be fixed to a specific TCP communication port in range from 49152 to 65535. In this setup example we have used TCP 49682. The UDP ports should be set in range 1433-1434.
- Please note the setup order on following screen shots where
 - Windows XP 32-bit acts as Saveris Pro server
 - Windows XP Saveris Pro will be seen in the Windows 7 64-bit Saveris Viewer.

Text file version

Saveris Viewer installation prerequisites for Windows XP (32-bit)

System changes in Windows XP 32-bit

Changes required for a Windows XP computer that hosts Saveris Pro program to communicate over the Ethernet network with other computers having Saveris Viewer clients.

Administrative rights are required, logon as Administrator.

Do not install Saveris Viewers on any networked computers before the SQL and Windows Firewall changes listed below are implemented.

If Saveris Viewers were installed, they must be uninstalled first.

SQL Server 2005 change

The SQL Server will work with the Saveris Viewer TCP port settings in range from 49151 to 65535. In this setup example we have used the TCP 49682.

Go to Start / Programs / Microsoft SQL Server 2005 / Configuration Tools / SQL Server Configuration Manager

- Select SQL Server 2005 Network Configuration in the left pane, double click Protocols for TSAVERIS in the right pane
- This opens Protocols for TSAVERIS in the left pane, double click TCP/IP in the right pane
- In the TCP/IP Properties window scroll to the bottom and delete entry in the IP All / Dynamic Ports. In the TCP Port below enter 49682, click OK button
- Confirm dialog "Any changes made will be saved..", don't reboot the computer yet.

Windows XP Firewall settings change

Saveris Viewer requires TCP port settings in range from 49151 to 65535. In this setup example we have used TCP 49682.

The UDP ports should be set in range 1433-1434.

Go to Windows Start button

- Select Control Panel / Windows Firewall / Exceptions tab
- In the Exceptions tab select Add Port button, select TCP, enter Name: Saveris TCP, Port Number: 49682, press OK
- Because Win XP Firewall doesn't accept range of ports, the same step has to be repeated twice for the UDP ports.
- In the Exceptions tab select Add Port button again, Select UDP, enter Name: Saveris UDP 1433 Port Number: 1433, press OK
- In the Exceptions tab select Add Port button again, Select UDP, enter Name: Saveris UDP 1434 Port Number: 1434, press OK

Reboot computer, note the computer name (Start / right click My Computer / Properties open System Properties, click Computer name tab), start Saveris Startup Wizard, Saveris Professional Client.

Go to Start / All Programs / Accessories / Command Prompt. At the prompt enter ipconfig, note computer's IP address.

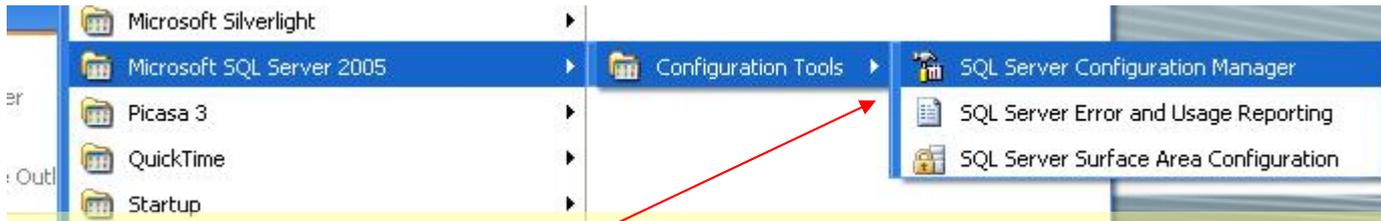
At the networked client machine (32 or 64-bit), install the Saveris Viewer from the Saveris Pro CD TestoSaverisViewer folder, and start setup.exe.

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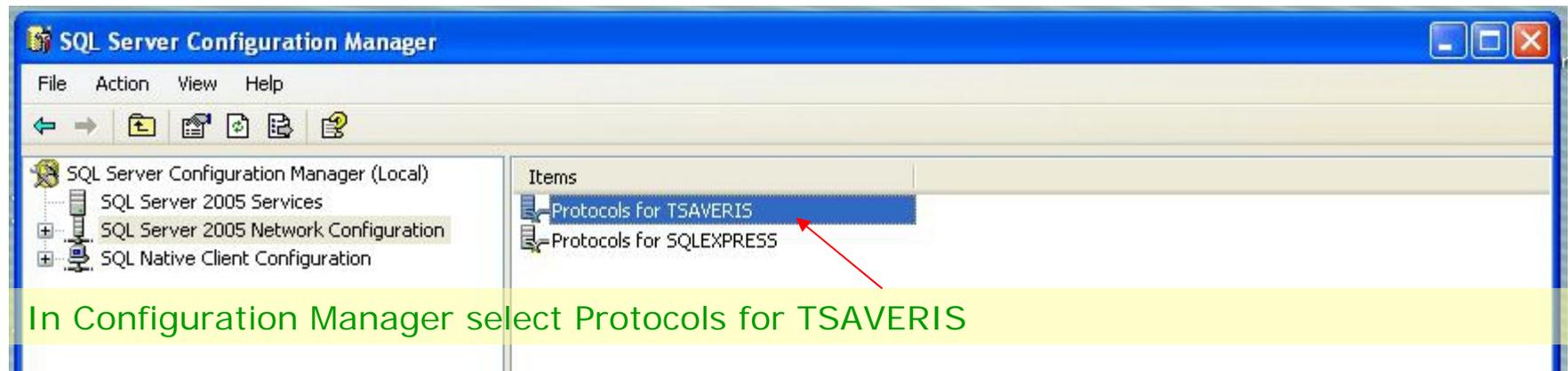
- Enter the computer name of the Saveris server computer, this will allow the Viewer to see computer even if the IP address will change.
- If you enter the IP address of the server computer, the Viewer will fail if the address changes. Make sure that the address is static when you use this option.
- If in doubt, use the computer's name instead of IP address.
- If the Viewer was installed with the IP address option, and fails to connect due to the server computer IP address change, check the IP address on the server computer using Start / Accessories / Command Prompt (CMD), enter ipconfig, Enter, note the IP address. If the IP address is different than the original Saveris address, uninstall the Viewer and reinstall with the address "name" option.

Start the Viewer from Start / All Programs / Testo / Testo Saveris Viewer. Select the project number from the Select Project dialog. The Saveris Viewer prevents users from manipulating system settings, gives no access to PDF reports, but allows acknowledging and commenting alarms, and reviewing past data in the off-line Calendar mode.

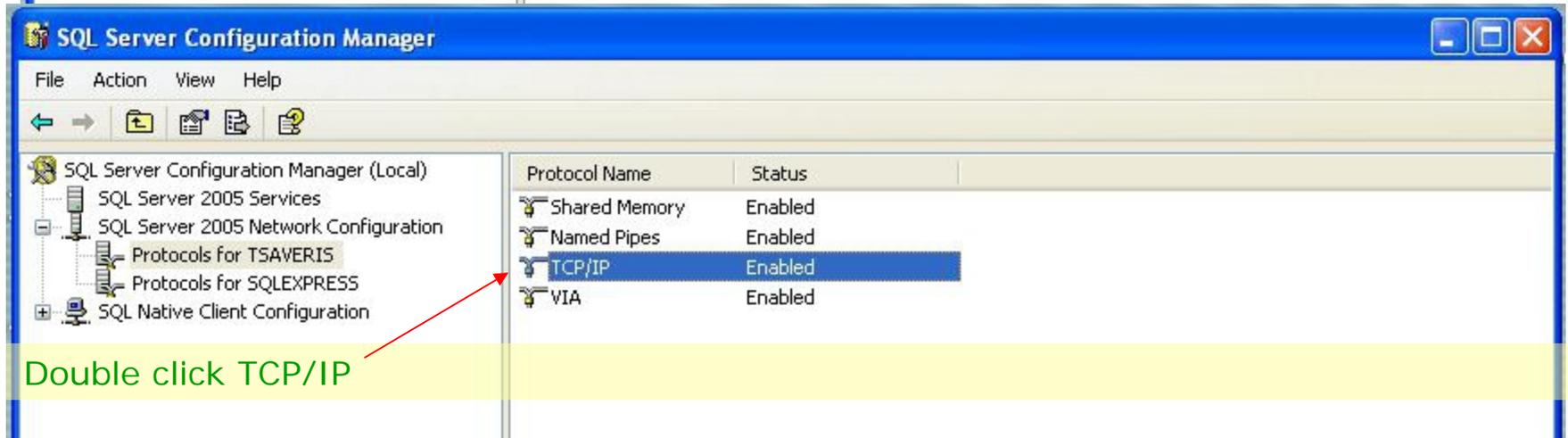
SQL Server 2005 Settings



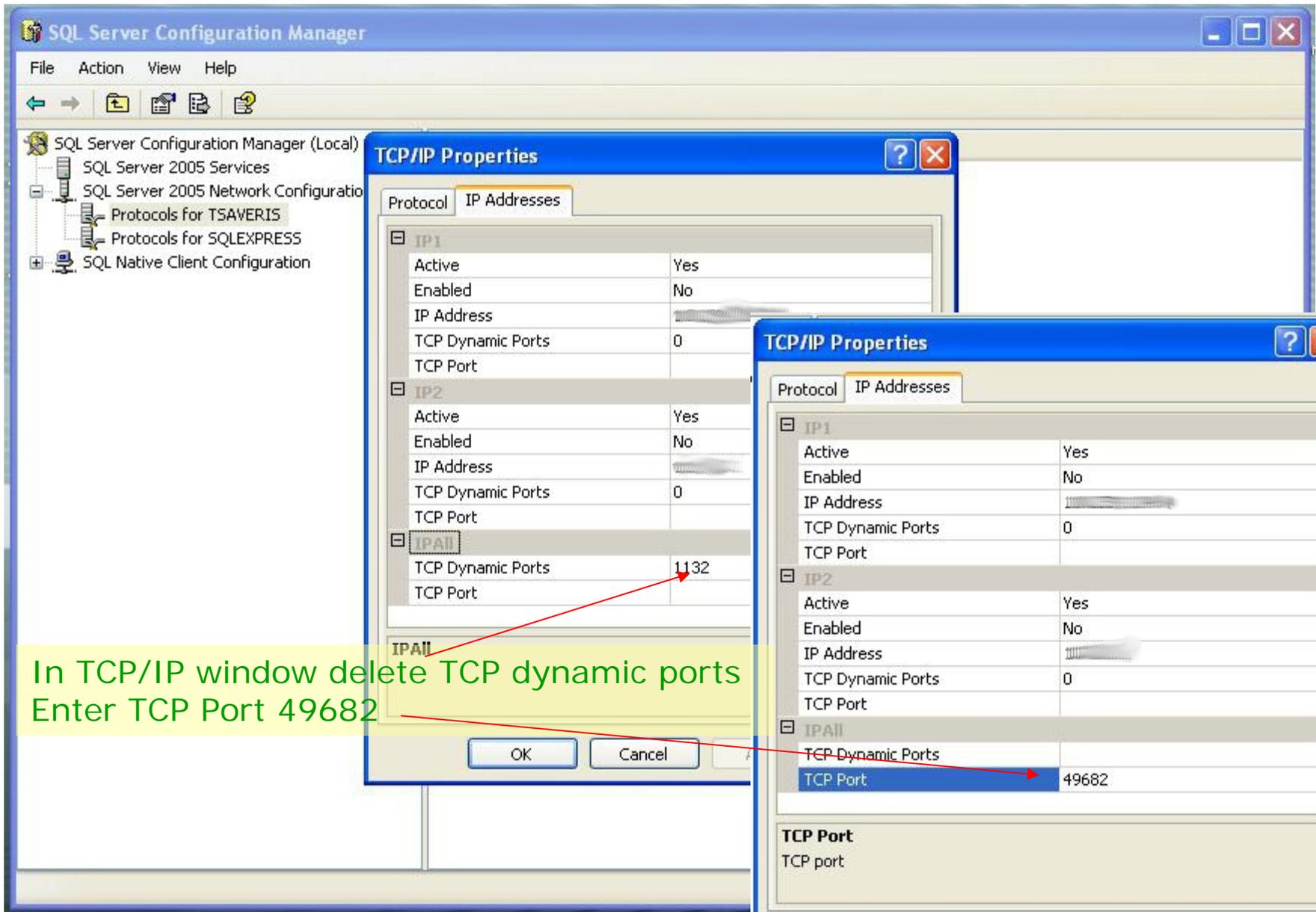
Go to Start / Programs / Microsoft SQL Server 2005 / Configuration Tools / SQL Server Configuration Manager

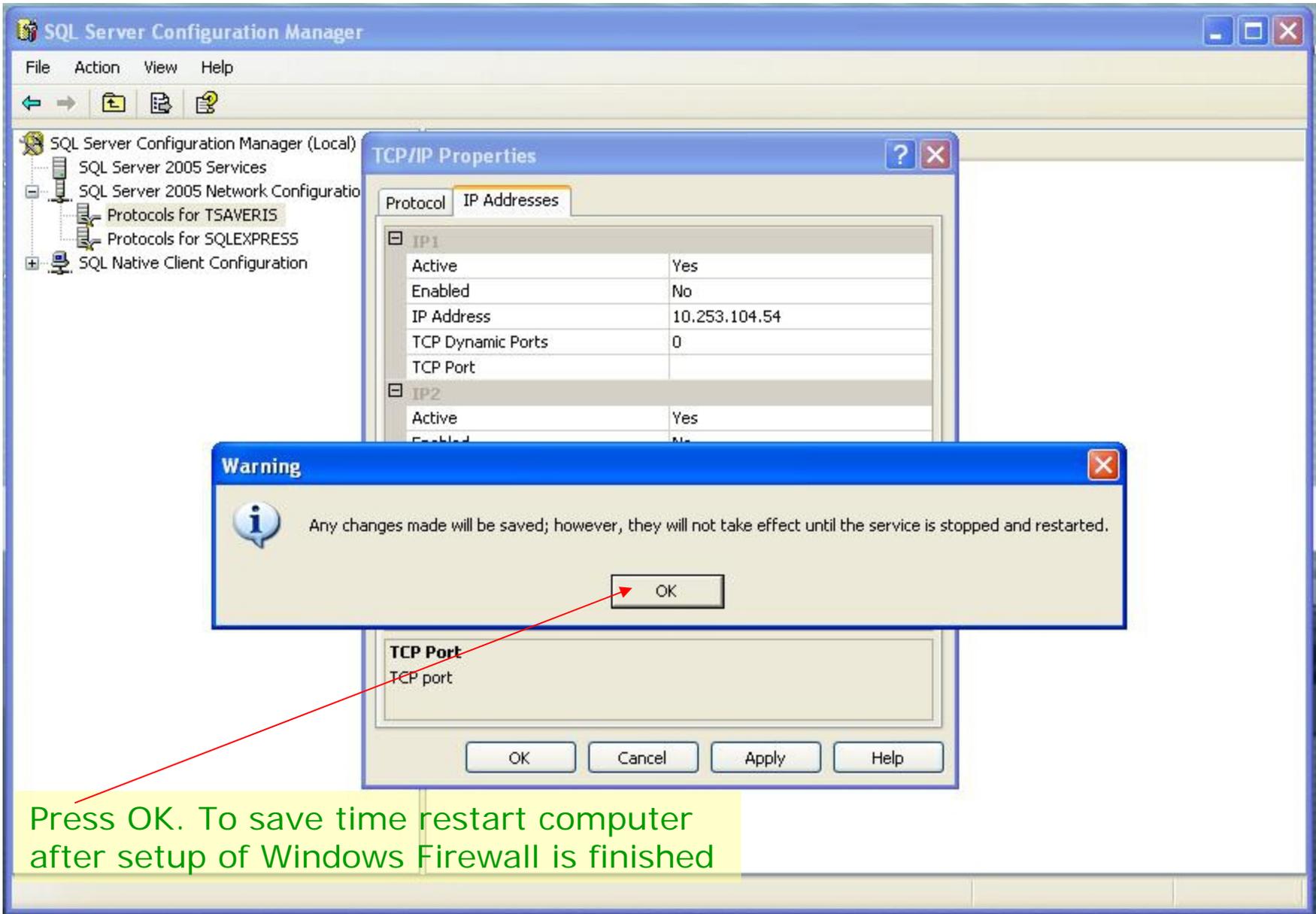


In Configuration Manager select Protocols for TSAVERIS

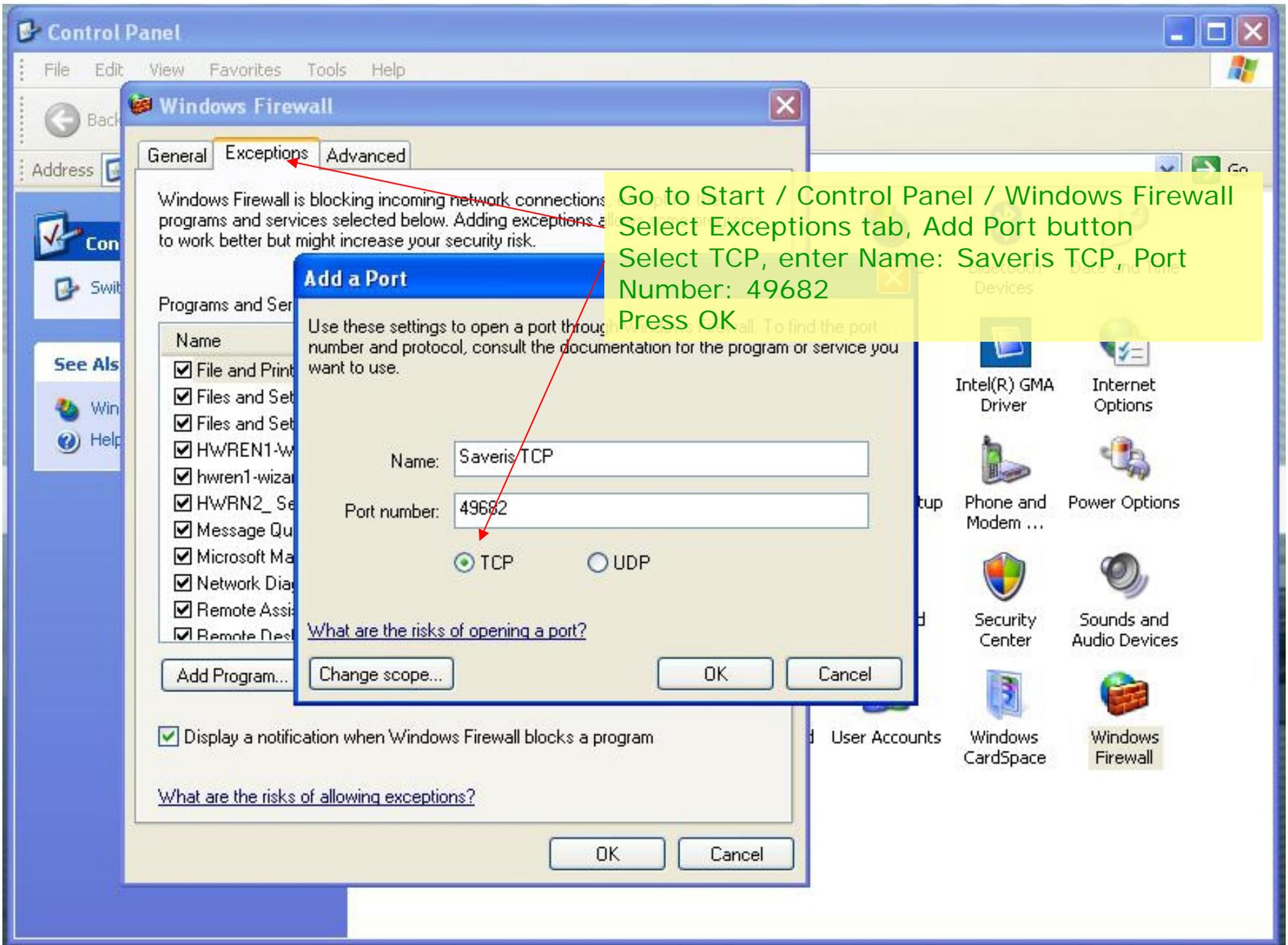


Double click TCP/IP





Windows XP Firewall Settings



Go to Start / Control Panel / Windows Firewall
Select Exceptions tab, Add Port button
Select TCP, enter Name: Saveris TCP, Port Number: 49682
Press OK

Add a Port

Use these settings to open a port through the firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.

Name:

Port number:

TCP UDP

[What are the risks of opening a port?](#)

Windows Firewall

General Exceptions **Advanced**

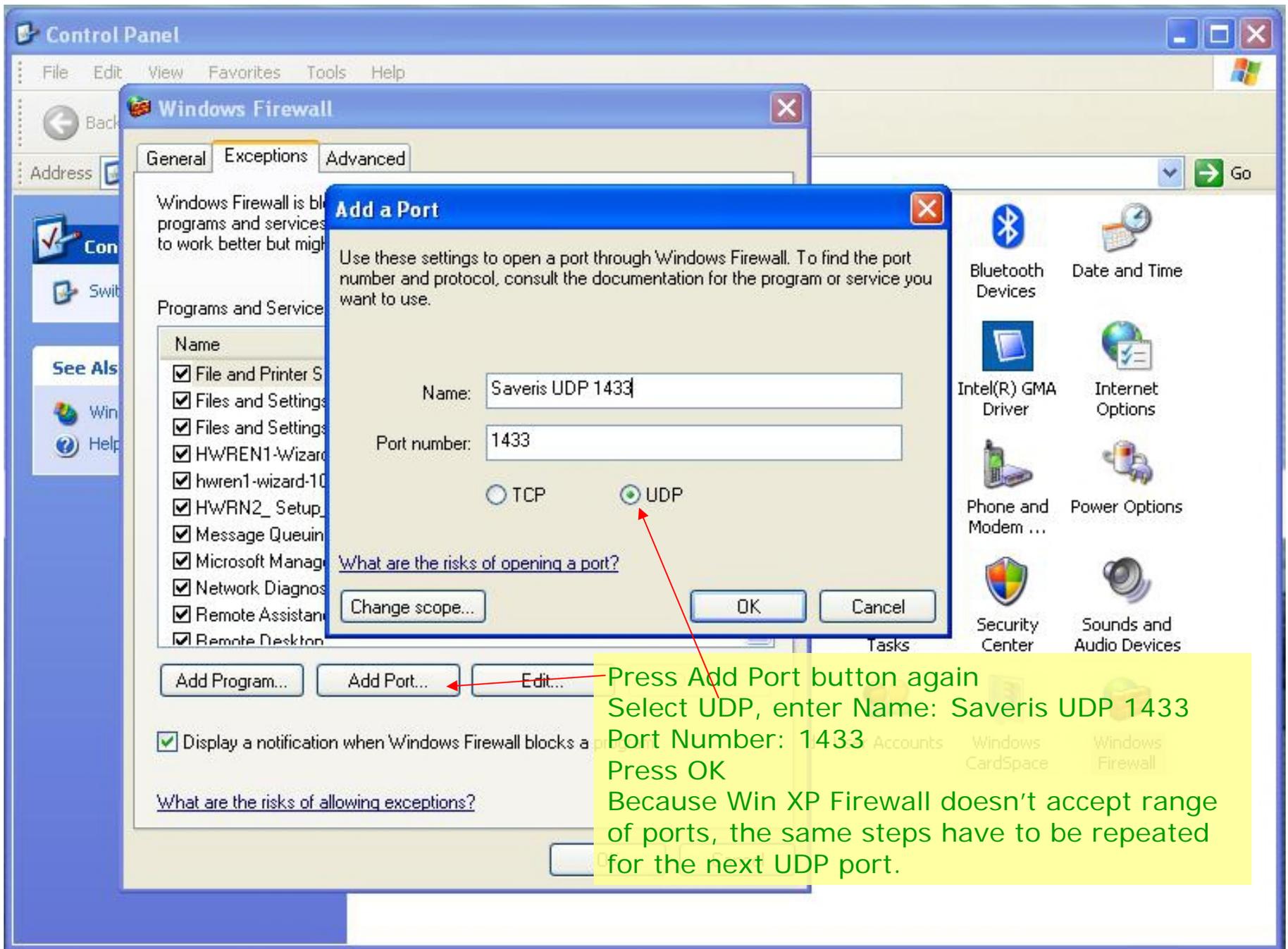
Windows Firewall is blocking incoming network connections to programs and services selected below. Adding exceptions allows them to work better but might increase your security risk.

Programs and Services

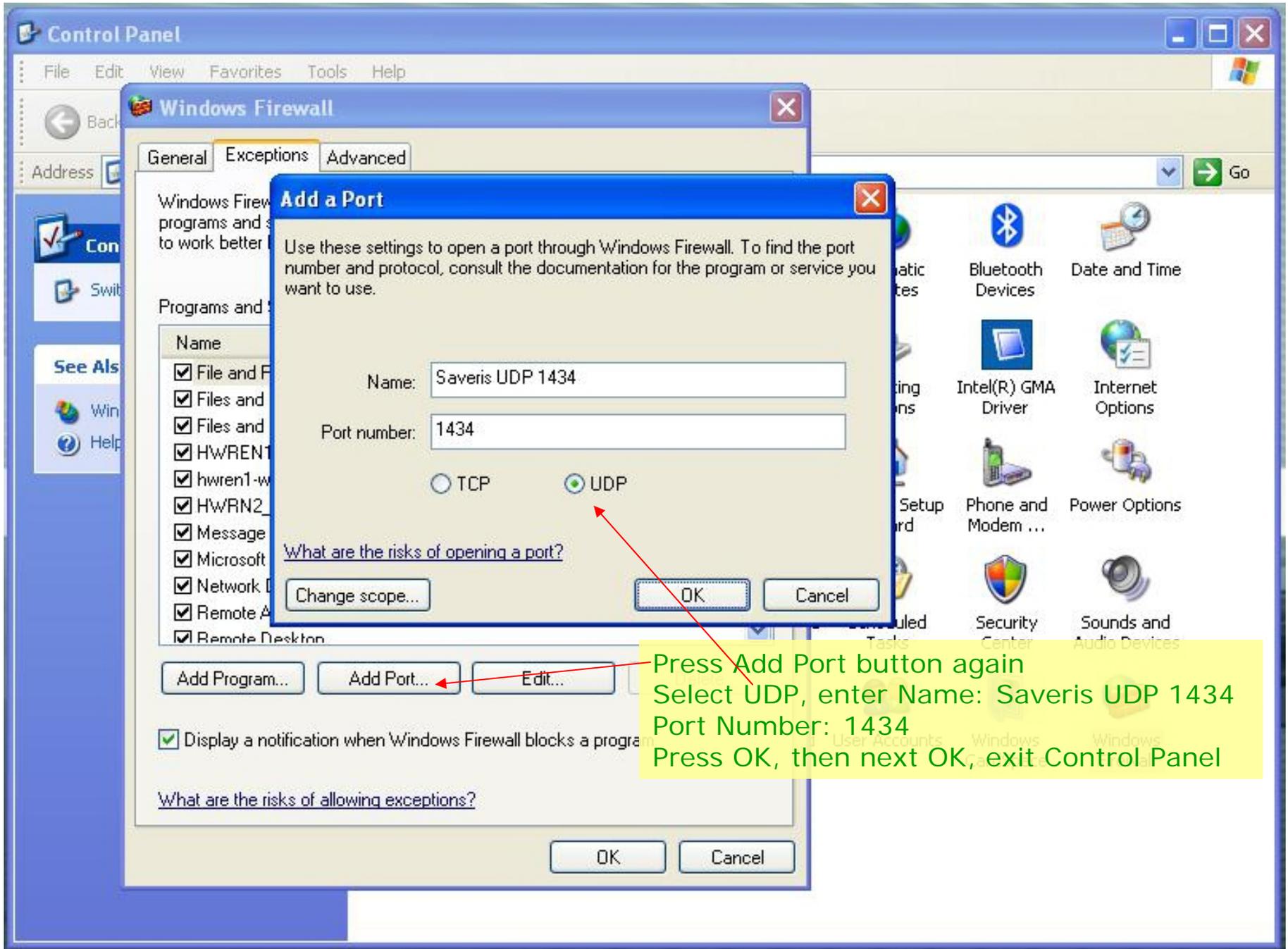
| Name |
|--|
| <input checked="" type="checkbox"/> File and Printer Sharing |
| <input checked="" type="checkbox"/> Files and Settings Migration |
| <input checked="" type="checkbox"/> Files and Settings Transfer |
| <input checked="" type="checkbox"/> HWREN1-Wizard |
| <input checked="" type="checkbox"/> hwren1-wizard |
| <input checked="" type="checkbox"/> HWRN2_Setup |
| <input checked="" type="checkbox"/> Message Queue |
| <input checked="" type="checkbox"/> Microsoft Management Console |
| <input checked="" type="checkbox"/> Network Diagnostics |
| <input checked="" type="checkbox"/> Remote Assistance |
| <input checked="" type="checkbox"/> Remote Desktop |

Display a notification when Windows Firewall blocks a program

[What are the risks of allowing exceptions?](#)



Press Add Port button again
Select UDP, enter Name: Saveris UDP 1433
Port Number: 1433
Press OK
Because Win XP Firewall doesn't accept range of ports, the same steps have to be repeated for the next UDP port.



Add a Port

Use these settings to open a port through Windows Firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.

Name: Saveris UDP 1434

Port number: 1434

TCP UDP

[What are the risks of opening a port?](#)

Change scope...

OK

Cancel

Press Add Port button again
Select UDP, enter Name: Saveris UDP 1434
Port Number: 1434
Press OK, then next OK, exit Control Panel

OK

Cancel

Finishing touches

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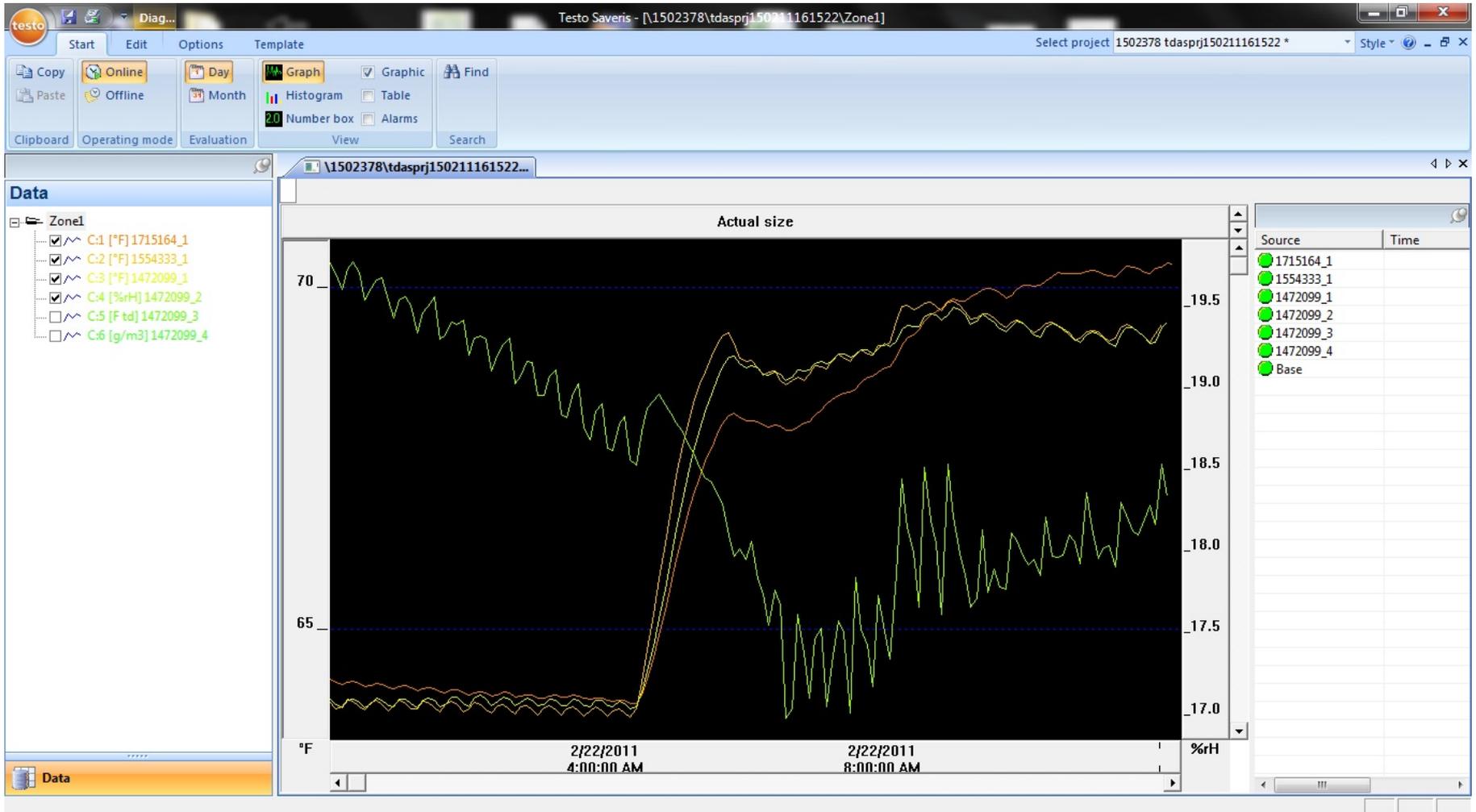
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Testo Saveris Viewer

Enter Text
Please enter information in the field below.

Please enter the computer name of the testo Saveris Server. Keep the field empty if the server is on the actual PC.

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