

# Why do other WinCC stations not appear in the network environment on the Windows 7 and Windows Server 2008 PCs?

WinCC Professional V11 and WinCC V7.0

FAQ • May 2012



## Service & Support

Answers for industry.

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Go to the following link to download this document.

<http://support.automation.siemens.com/WW/view/en/60501887>

### **Caution**

The functions and solutions described in this article confine themselves predominantly to the realization of the automation task. Furthermore, please take into account that corresponding protective measures have to be taken in the context of Industrial Security when connecting your equipment to other parts of the plant, the enterprise network or the internet. Further information can be found in Entry ID: I50203404!

<http://support.automation.siemens.com/WW/view/en/50203404>

## Question

Why do other WinCC stations not appear in the network environment on the Windows 7 and Windows Server 2008 PC?

## Answer

Follow the instructions and notes listed in this document for a detailed answer to the above question.

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# 1 Network Settings

## 1.1 Firewall in Windows 7 and Windows Server 2008

The firewall in Windows 7 and Windows Server 2008 implements the rules specified by the network location types. This is why certain types of network traffic are blocked if you have configured "Public" for the network location type.

## 1.2 Network Location Types

### Public

You should use this network location type when the computer is connected to a network that is connected directly to the internet, for example in an internet café or hotel. It provides the greatest protection and prevents the computer from being visible to other computers in the network. The network ID and all the file and printer releases are disabled.

### Private

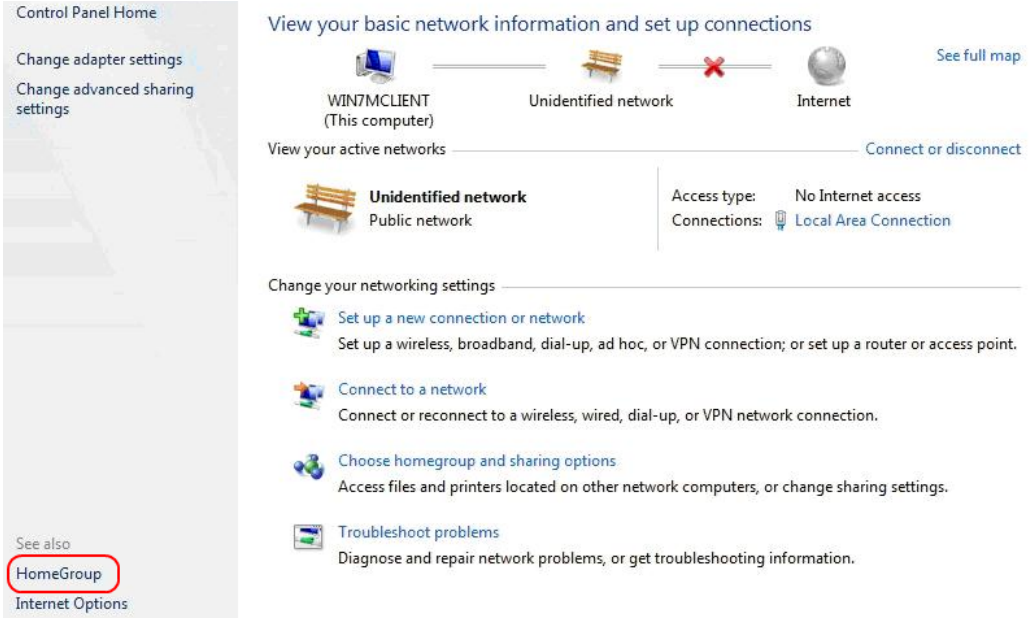

You should use this network location type when the computer is in a private network that is protected by the internet and includes only known and trusted computers. The network ID is enabled and all the file and printer releases are disabled. With this network location type your computer is visible to other computers in the network concerned.






If you use the "Private" network location type for your WinCC stations, you can see these stations in the network environment of Windows 7 and Windows Server 2008.

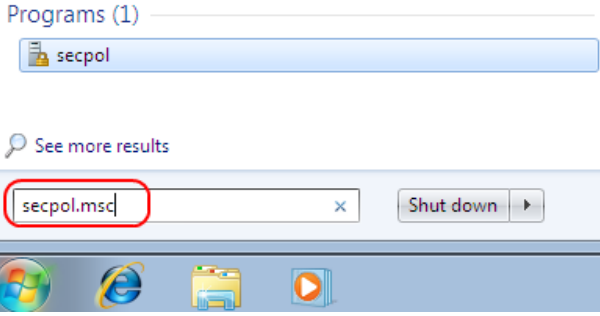
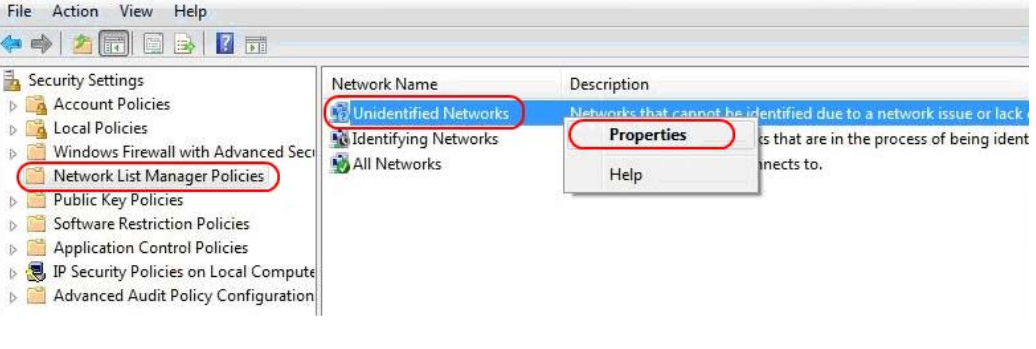
Use the "Private" network location type for WinCC server-client communication and to transfer projects from your WinCC station to the WinCC target server.

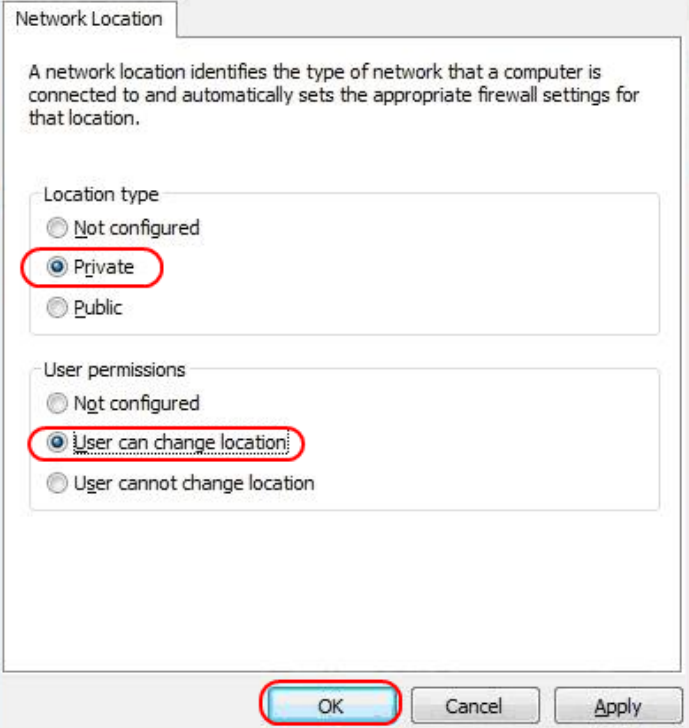
## 1.3 Network Settings for Windows 7

Table 1-1

No.	Action
1.	<ul style="list-style-type: none"> <li>By way of the Control Panel select the "Networks and Release Center".</li> <li>Then click "HomeGroup".</li> </ul>  <p>The screenshot shows the Windows 7 Network and Sharing Center. On the left, under 'Control Panel Home', there are links for 'Change adapter settings' and 'Change advanced sharing settings'. Below that, under 'See also', the 'HomeGroup' link is circled in red. The main content area shows network status for 'WIN7MCLIENT (This computer)', 'Unidentified network', and 'Internet'. It also displays 'View your active networks' with details for the 'Unidentified network' (Public network, No Internet access, Local Area Connection). A 'Change your networking settings' section includes links for 'Set up a new connection or network', 'Connect to a network', 'Choose homegroup and sharing options', and 'Troubleshoot problems'.</p>
2.	<p>Click "What is a network location".</p>  <p>The screenshot shows the 'Share with other home computers running Windows 7' window. It states 'This computer can't connect to a homegroup.' Below this, a yellow warning box contains the text: 'To create or join a homegroup, your computer's network location must be set to Home.' The link 'What is a network location?' is circled in red. At the bottom, there are links for 'Tell me more about homegroups', 'Change advanced sharing settings...', and 'Start the HomeGroup troubleshooter'.</p>

No.	Action
3.	<ul style="list-style-type: none"> <li>Click "Home network" or "Work network" (both are private networks).</li> <li>Do <b>not</b> enable the option "Treat all future networks that I connect to as public, and don't ask me again".</li> </ul> <p>Select a location for the 'Unidentified network' network</p> <p>This computer is connected to a network. Windows will automatically apply the correct network settings based on the network's location.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <div style="display: flex; align-items: center; margin-bottom: 5px;">  <div> <p><b>Home network</b></p> <p>If all the computers on this network are at your home, and you recognize them, this is a trusted home network. Don't choose this for public places such as coffee shops or airports.</p> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px; background-color: #f0f0f0; padding: 5px;">  <div> <p><b>Work network</b></p> <p>If all the computers on this network are at your workplace, and you recognize them, this is a trusted work network. Don't choose this for public places such as coffee shops or airports.</p> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px; background-color: #f0f0f0; padding: 5px;">  <div> <p><b>Public network</b></p> <p>If you don't recognize all the computers on the network (for example, you're in a coffee shop or airport, or you have mobile broadband), this is a public network and is not trusted.</p> </div> </div> <div style="margin-top: 10px;"> <p><input type="checkbox"/> Treat all future networks that I connect to as public, and don't ask me again.</p> <p><a href="#">Help me choose</a></p> </div> </div>
4.	<p>The dialog below opens if the change has been made successfully.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p style="text-align: center; color: #4f81bd;">Successfully set network settings</p> <div style="display: flex; align-items: center; margin-bottom: 10px;">  <div> <p>Network name:</p> <p>Location type: <b>Private</b></p> <p>This allows you to see other computers and devices, while making your computer discoverable.</p> </div> </div> <p style="text-align: center; margin-bottom: 10px;"><a href="#">View or change network and sharing settings in Network and Sharing Center</a></p> <p style="text-align: center;"><a href="#">View computers and devices on the network</a></p> </div>
5.	<p>This dialog opens if the change has not been made successfully.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p style="text-align: center; color: #4f81bd;">Windows could not set the network settings</p> <div style="display: flex; align-items: center; margin-bottom: 10px;">  <div> <p>Network name: <b>Unidentified network</b></p> <p>You can try to change this setting later in the Network and Sharing Center.</p> </div> </div> </div>

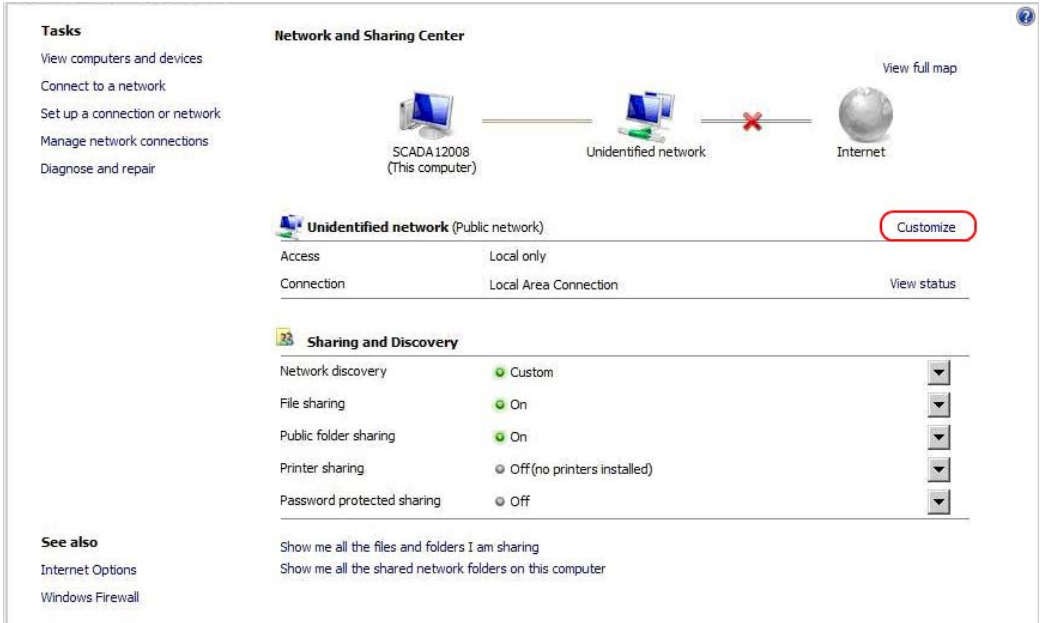
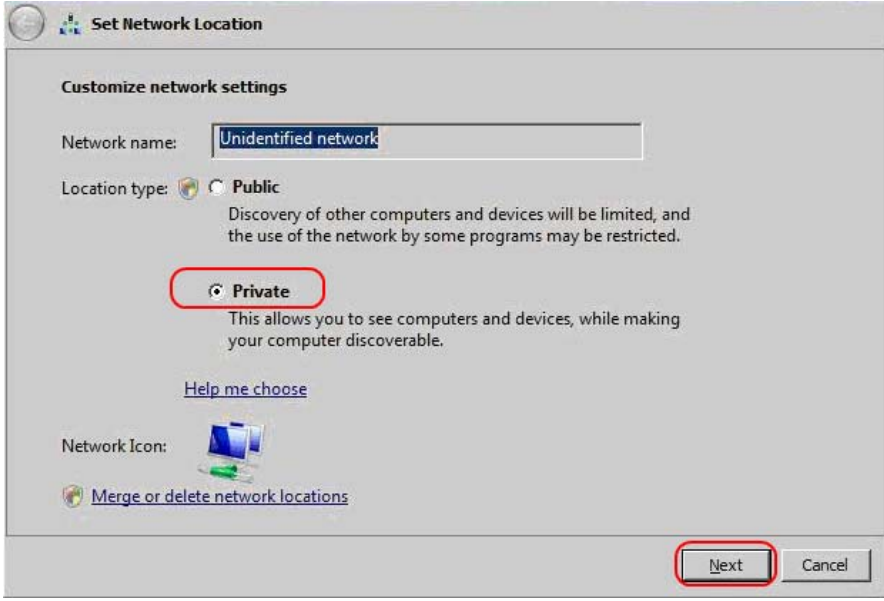
No.	Action
6.	<p>The network location is changed only temporarily for the current Windows session. When you reboot the computer, the network settings are reset by default to the "Public" network location. To retain the network location profile ("Private" or "Public") you have to change the local security policy.</p>
7.	<p><b>Changing the local security policy</b></p> <ul style="list-style-type: none"> <li>For this you click the "Windows" start button.</li> <li>Enter "secpol.msc" in "Search programs and files".</li> <li>Confirm the entry with the "Enter" key.</li> </ul>  <p>The screenshot shows the Windows search interface. The search bar contains 'secpol.msc' and is highlighted with a red box. Below the search bar, there is a 'Shut down' button. The search results show 'secpol' as the only result.</p>
8.	<ul style="list-style-type: none"> <li>Under "Security Settings" click "Network List Manager Policies".</li> <li>Right-click "Unidentified Networks".</li> <li>Click "Properties".</li> </ul>  <p>The screenshot shows the Windows Security Settings window. The 'Network List Manager Policies' folder is selected in the left-hand tree view and is circled in red. In the main pane, the 'Unidentified Networks' entry is selected and circled in red. A context menu is open over 'Unidentified Networks', with the 'Properties' option circled in red.</p>

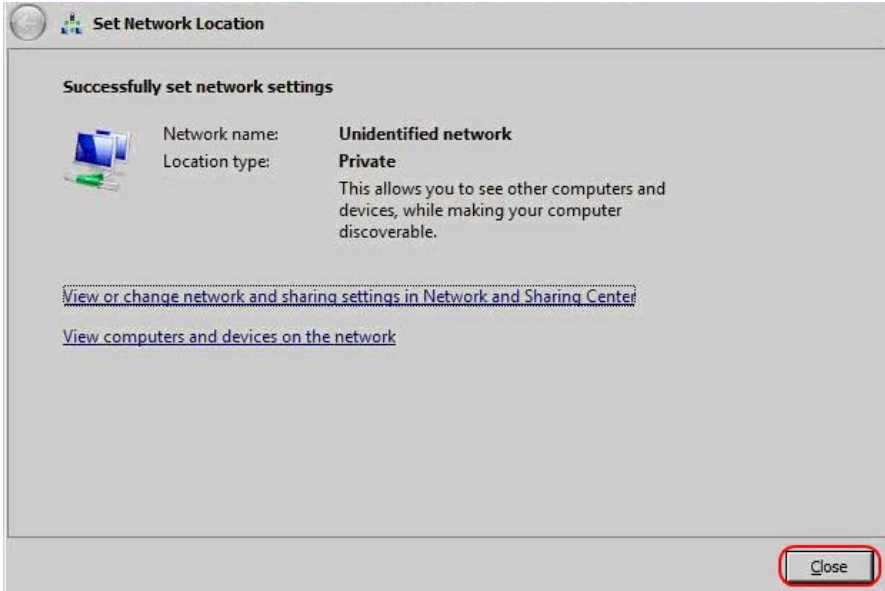
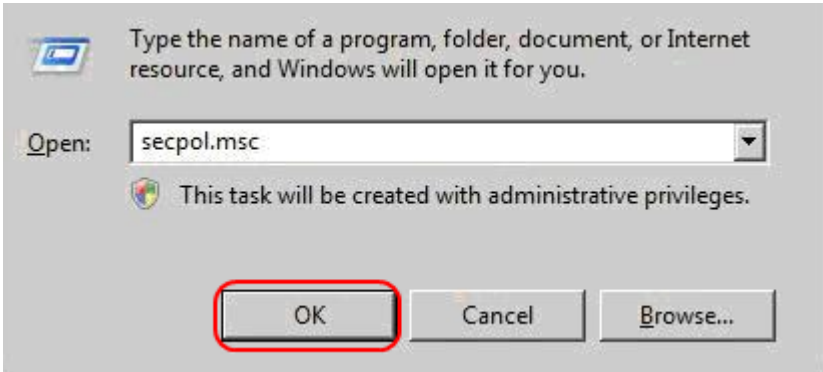
No.	Action
9.	<p data-bbox="316 309 751 338"><b>Properties of "Unidentified Networks"</b></p> <p data-bbox="316 376 1334 432">In the Properties of the "Unidentified Networks" you enable "Private" as location type and "User can change location" for user permissions.</p> <div data-bbox="320 468 1011 1193"></div>

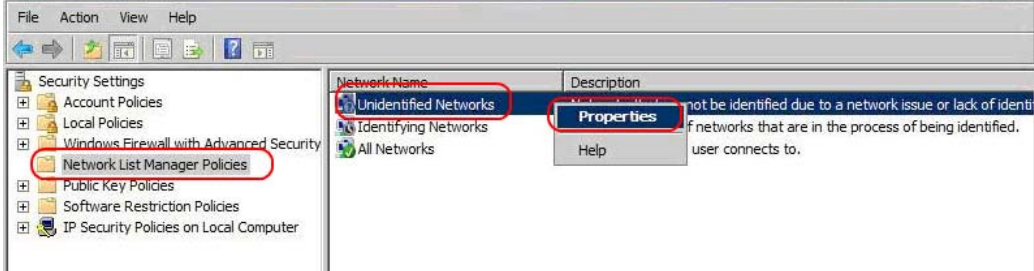


## 1.4 Network Settings for Windows Server 2008

Table 1-2

No.	Action
1.	<ul style="list-style-type: none"> <li>By way of the Control Panel select the "Networks and Release Center".</li> <li>Then click "Customize".</li> </ul> 
2.	<ul style="list-style-type: none"> <li>In the "Set Network Location" dialog you click "Private".</li> <li>Then click "Next".</li> </ul> 

No.	Action
3.	<p>Close the dialog with "Close".</p> 
4.	<p>The network location is changed only temporarily for the current Windows session. When you reboot the computer, the network settings are reset by default to the "Public" network location. To retain the network location profile ("Private" or "Public") you have to change the local security policy.</p>
5.	<p><b>Changing the local security policy</b></p> <ul style="list-style-type: none"> <li>• For this you click the "Windows" start button.</li> <li>• Click "Run" and enter "secpol.msc".</li> <li>• Acknowledge the dialog with "OK".</li> </ul> 

No.	Action
6.	<ul style="list-style-type: none"> <li>• Under "Security Settings" click "Network List Manager Policies".</li> <li>• Right-click "Unidentified Networks".</li> <li>• Click "Properties".</li> </ul> 
7.	<p><b>Properties of "Unidentified Networks"</b></p> <p>In the Properties of the "Unidentified Networks" you enable "Private" as location type and "User can change location" for user permissions.</p> 