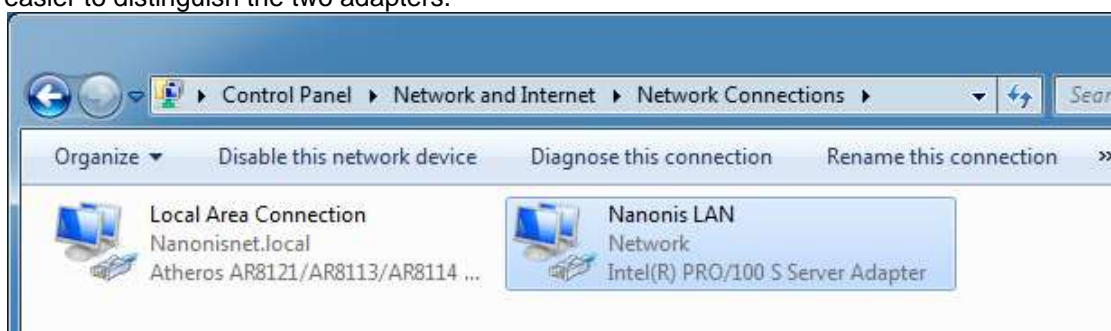


Nanonis SPM Controller – Windows 7 IP and firewall settings

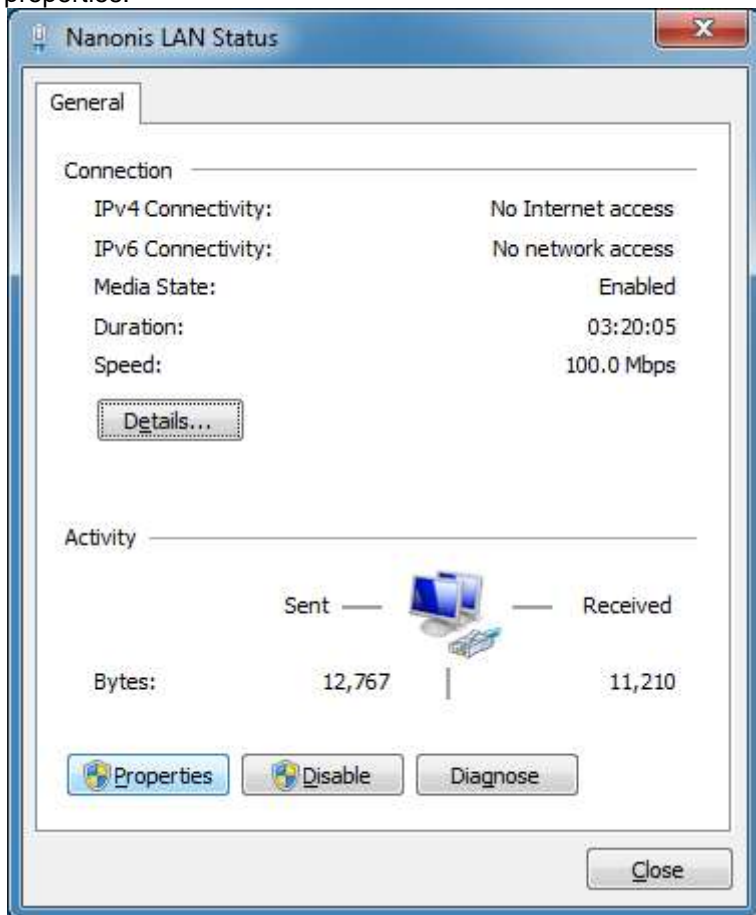
When using the Nanonis SPM Controller with Windows 7 certain settings have to be configured for the network adapter connected to the Nanonis Controller.

Network configuration

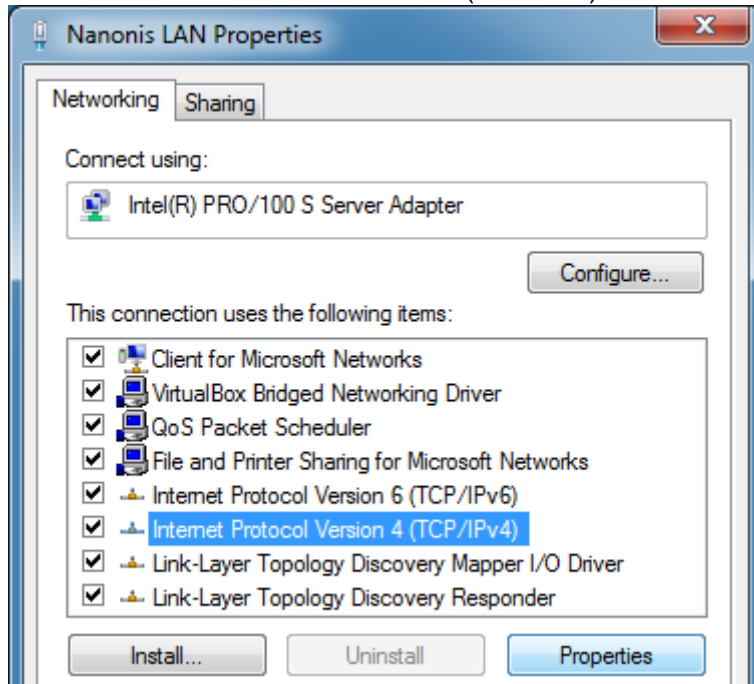
In the network and sharing center of the control panel right-click the network adapter used for connection to the Nanonis controller. You can name this connection “Nanonis LAN” or similar so it’s easier to distinguish the two adapters.



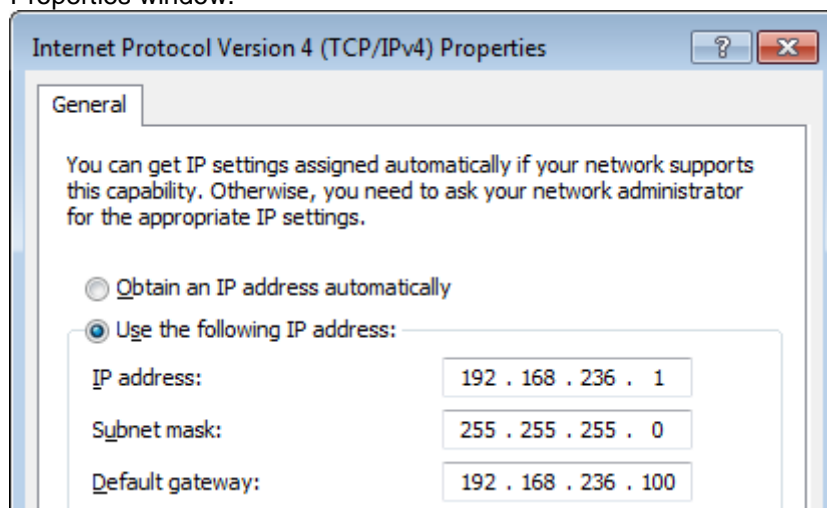
Open the network card status of the adapter connected to the Nanonis controller, and select properties.



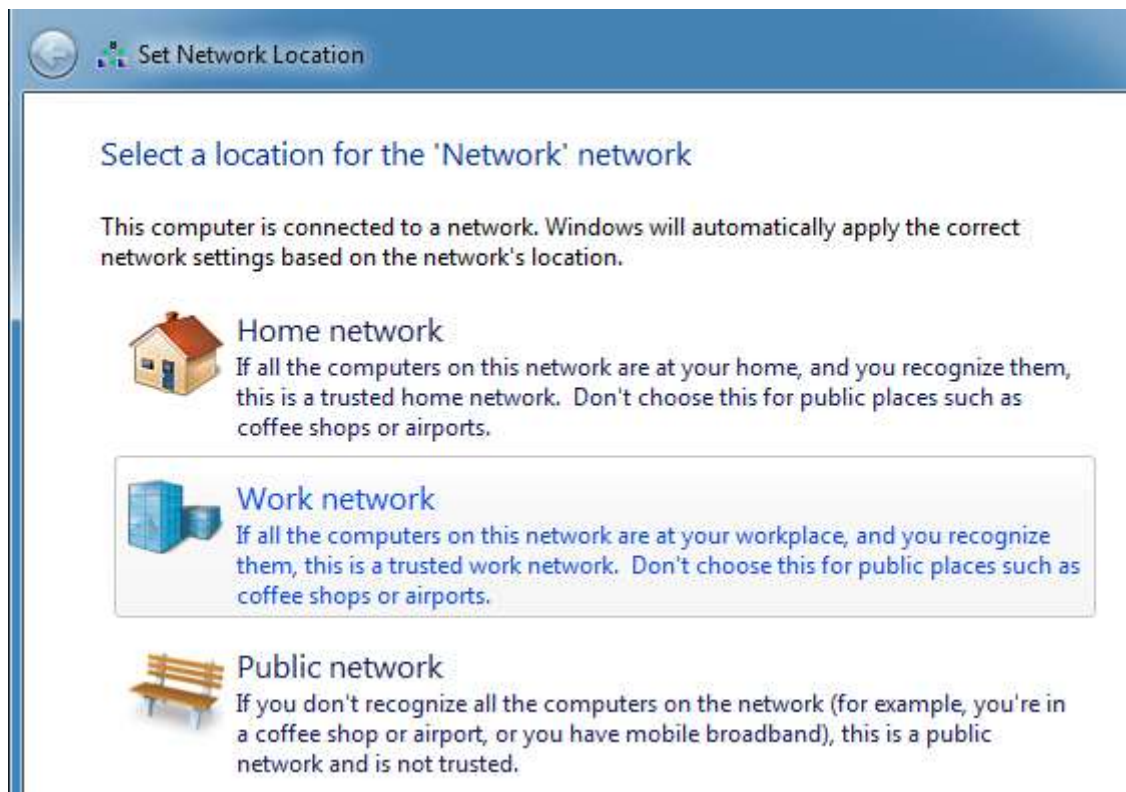
Now select Internet Protocol Version 4 (TCP/IPv4) and click on "Properties".



Set manually the IP address (default 192.168.236.1), subnet mask (255.255.255.0) and set the default gateway to the IP address of the RC5 (default 192.168.236.100). Click OK and close the Properties window.



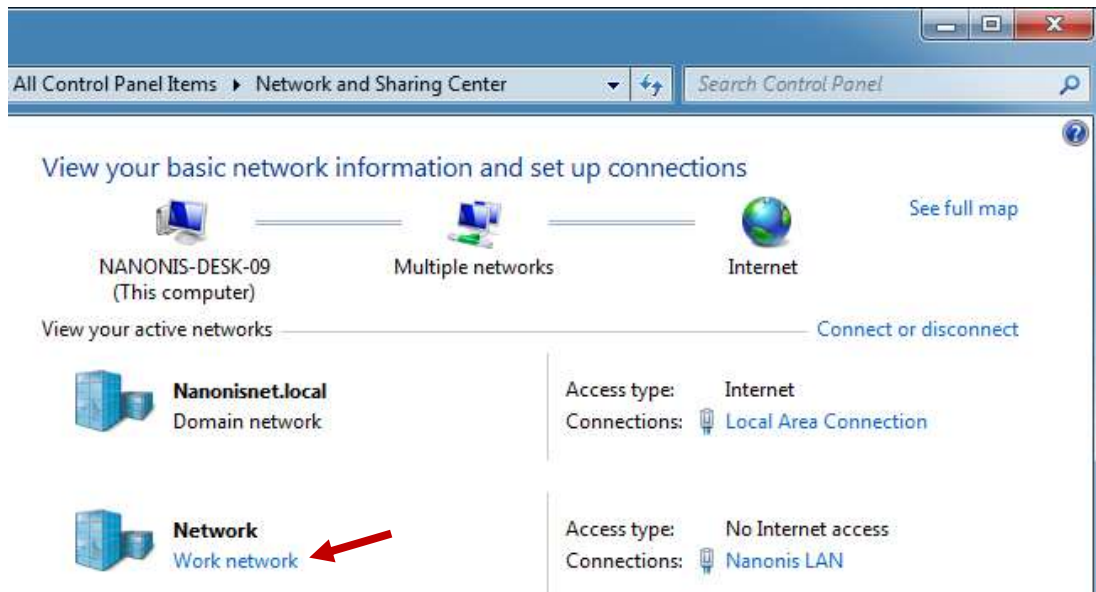
Make sure the RC5 is switched on and a crosswired Ethernet cable is used to connect the network adapter of the host computer to the RC5. After doing so the connection to the RC5 should be established. If this is the case, you should be prompted to set the network location.



Select "Work network".

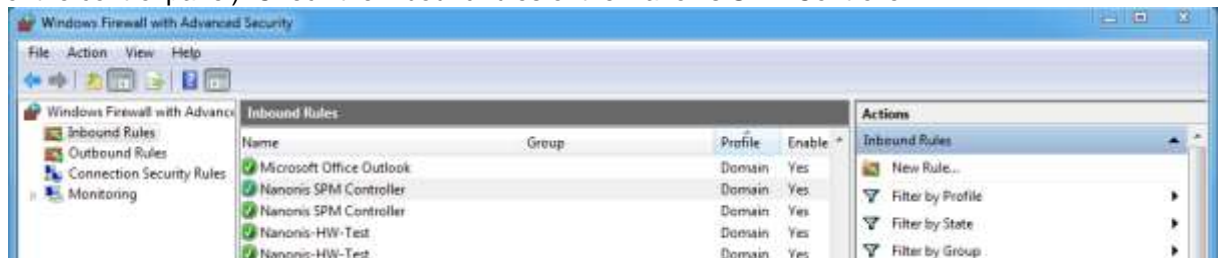


If you are not prompted to select the network location you should be able to access it from the "Network and Sharing Center". Click the link for the corresponding network to open the network location window.

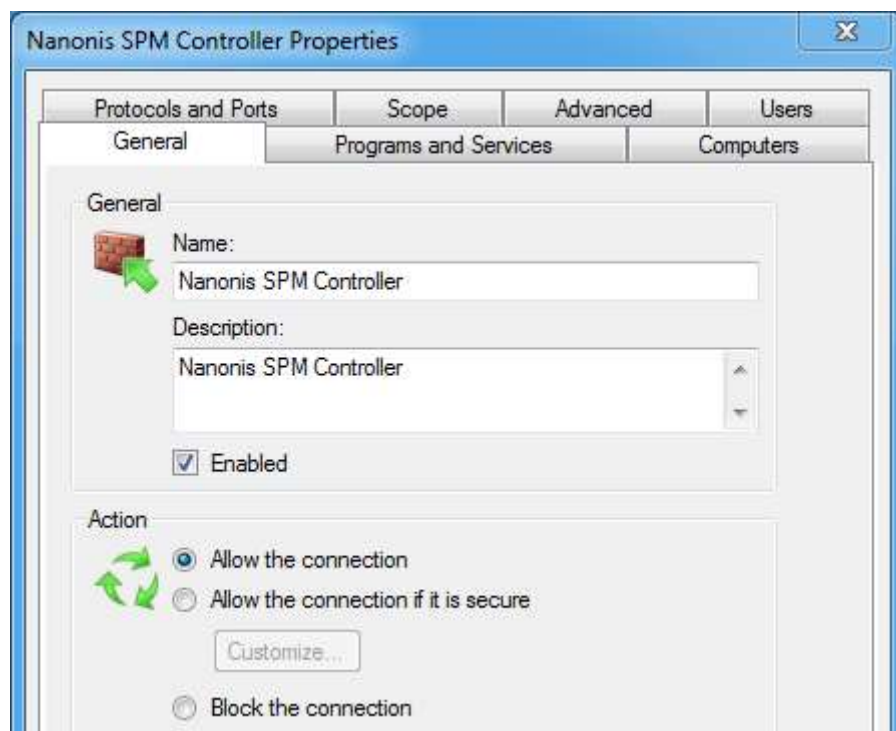


Firewall configuration

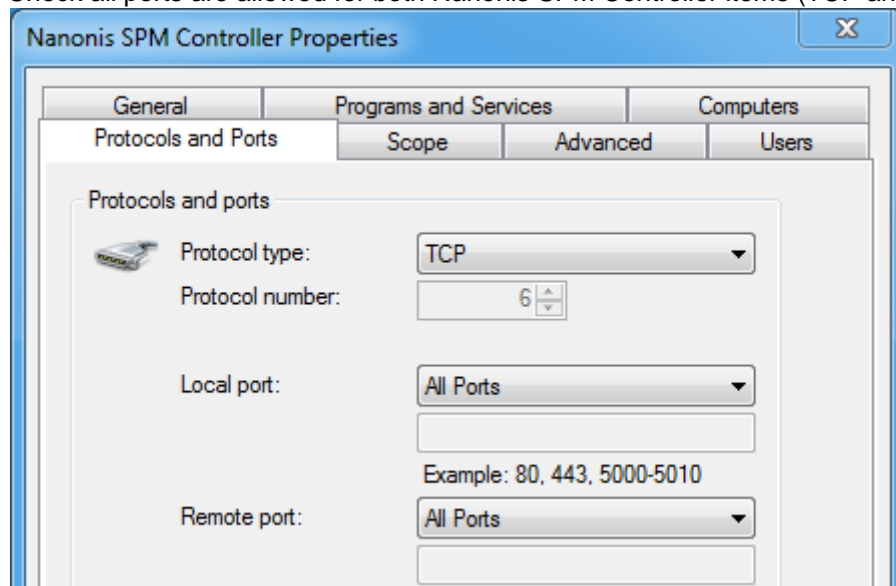
Open the advanced settings of the firewall configuration (located in the system and security section of the control panel). Check the inbound rules of the Nanonis SPM Controller.

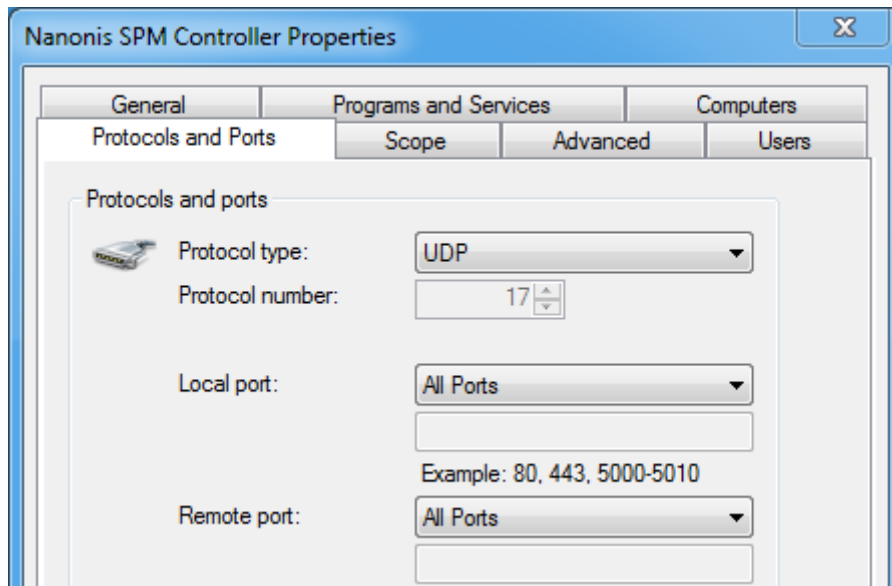


In the properties of both Nanonis SPM Controller items (TCP and UDP) check the connection is enabled and allowed.



Check all ports are allowed for both Nanonis SPM Controller items (TCP and UDP).





In the profiles section of the Advanced tab verify private is checked.



Alternatively you can disable the firewall for the network adapter used for the Nanonis system. Now you should be able to run the Nanonis SPM Control software and connect to the RC4.

Summary

These steps should avoid network problems when using the Nanonis SPM Controller with Windows 7:

- Host PC IP address 192.168.236.1, Subnet mask 255.255.255.0, Default Gateway 192.168.236.100 (assuming this is the IP address of the RC5)
- Network location set to "Work network"
- Configure Firewall to allow incoming communication to "Nanonis SPM Controller" on all TCP and UDP ports (or disable firewall for the Nanonis network)