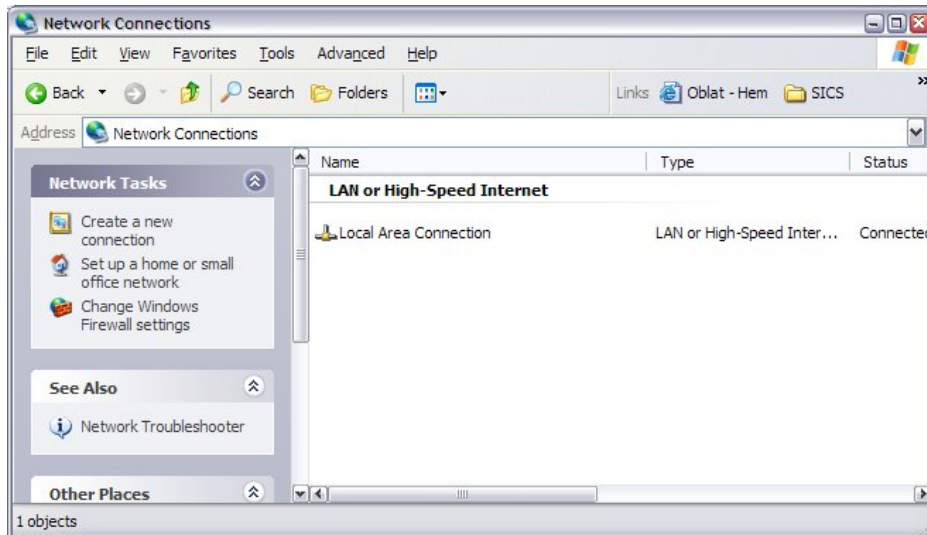# 1 Configuring SLIP under Windows XP

This section describes how to setup a SLIP connection under Windows. A SLIP connection forwards TCP/IP traffic to/from the sensor nodes and lets you communicate with them using standard network tools such as `ping`.
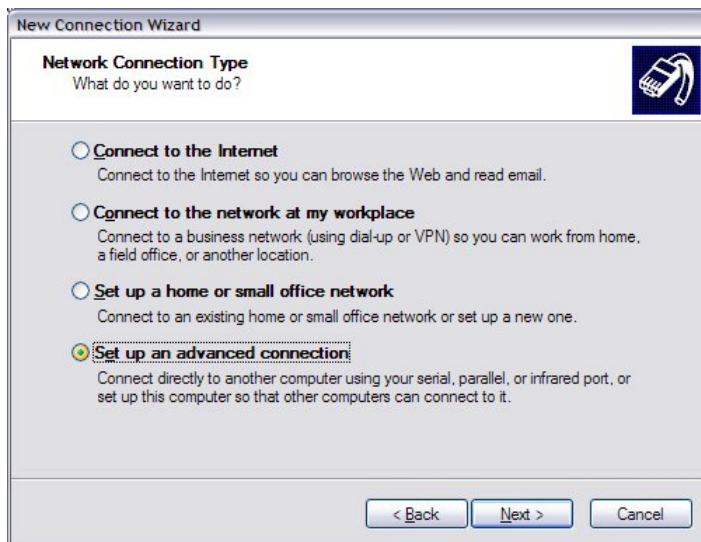
1. Click start button and choose 'My Computer'. Right-click 'My Network Places' and choose 'Properties'.
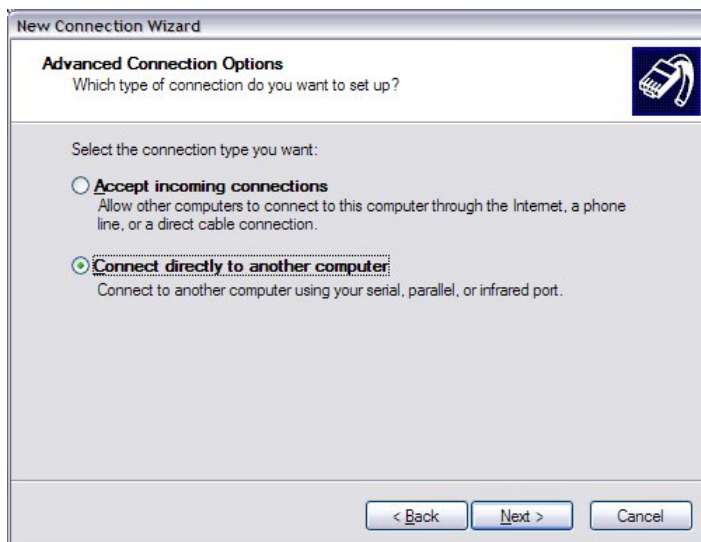

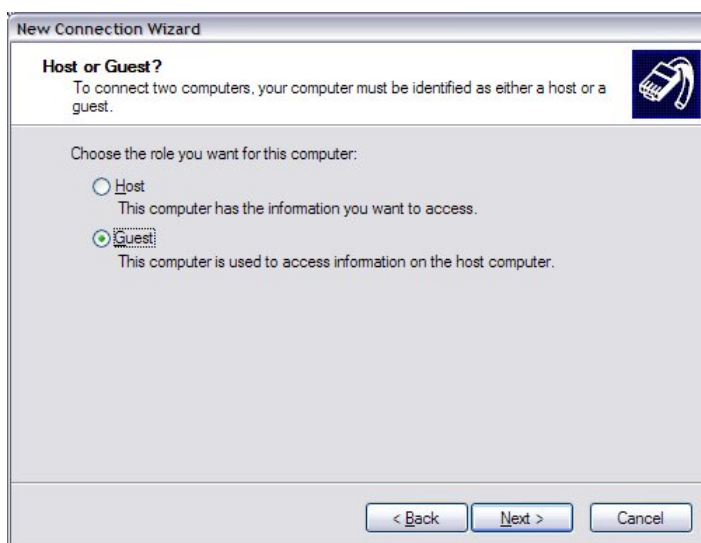2. Click 'Create a new connection'.
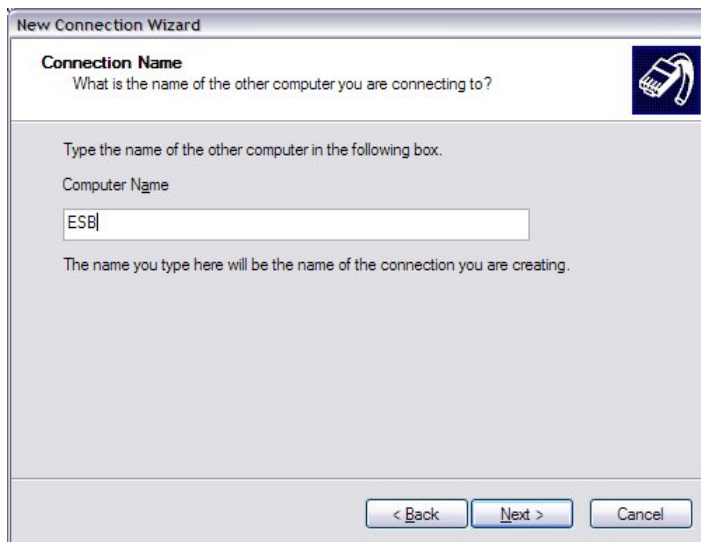

3. Select 'Set up an advanced connection'.

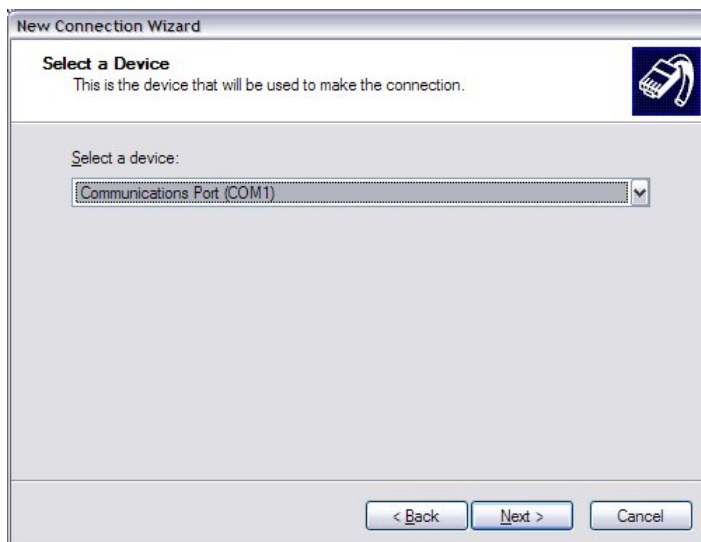4. Select 'Connect directly to another computer'.

5. Select 'Guest'

6. Select a name for the slip connection (for example 'ESB')

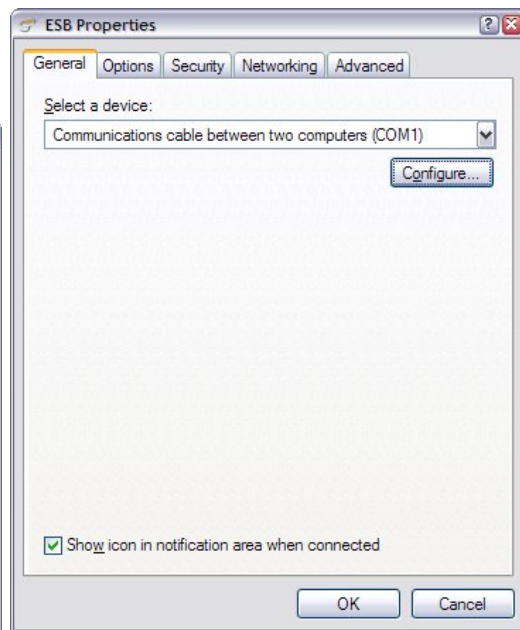7. Select the serial port to use when communicating with the sensor node.
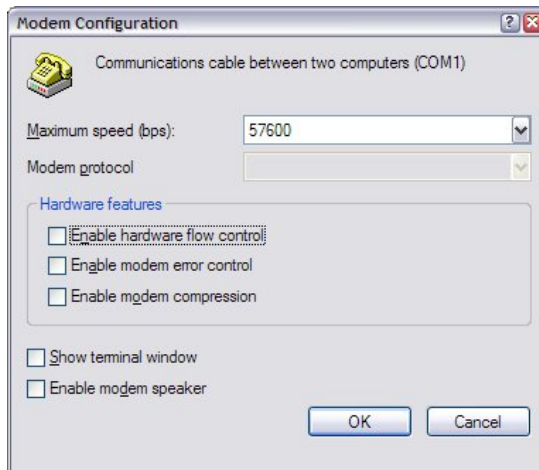

8. Add the connection by clicking 'Finish'.

9. A connection window will open. Choose 'Properties'.

10. . Click on 'Configure...' and deselect all selected buttons. Choose the speed 57600 bps.

11. . Close the modem configuration window, and go to the 'Options' tab in the ESB properties. Deselect all except 'Display progress...'.
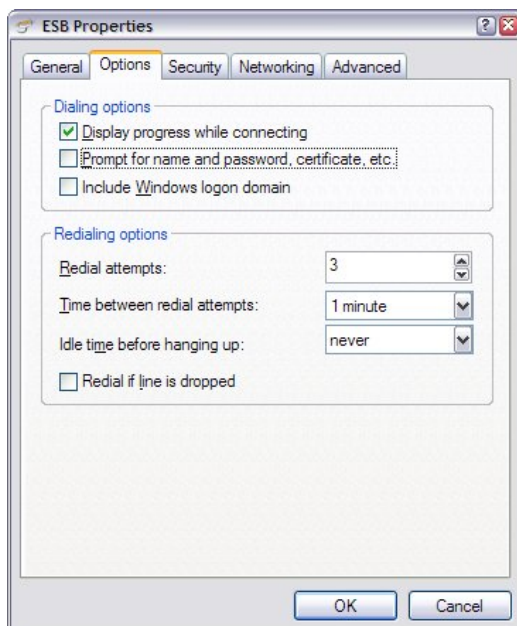
12. Go to the 'Networking' tab. Change to 'SLIP: Unix Connection' and deselect all except the first two items in the connection item list.
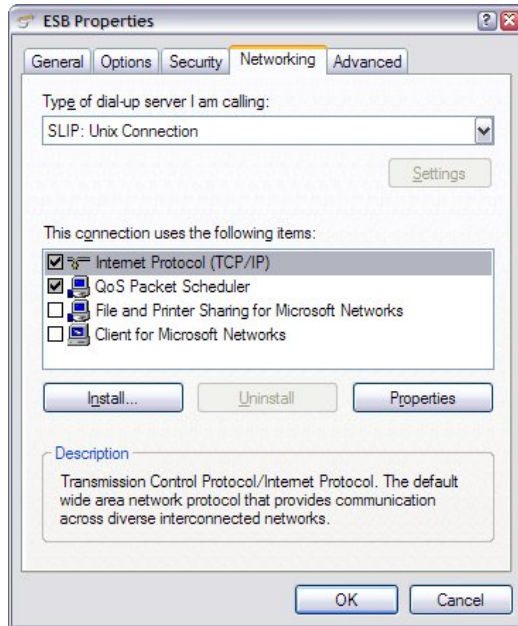
13. Select 'Internet Protocol (TCP/IP)' and click 'Properties'. Enter the IP address '172.16.1.1'.
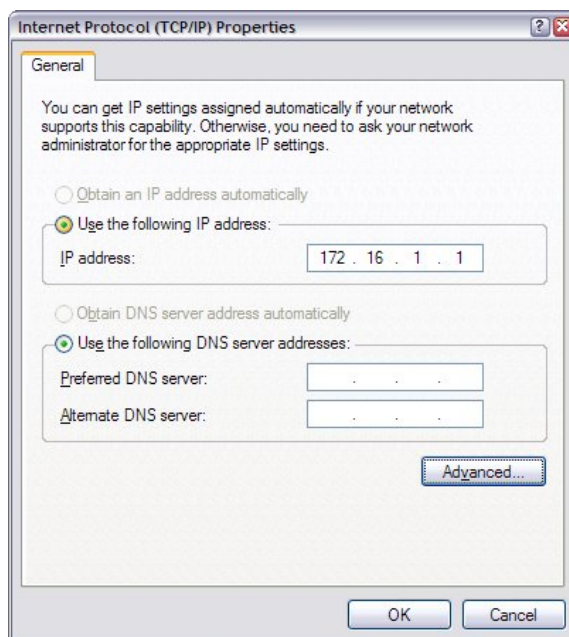
14. Click 'Advanced' and deselect all checkboxes in the 'Advanced TCP/IP Settings'. Go to the 'WINS' tab and deselect 'Enable LMHOSTS lookup' if it is selected. Also select 'Disable NetBIOS over TCP/IP'.

Advanced TCP/IP Settings

General | DNS | WINS

This checkbox only applies when you are connected to a local network and a dial-up network simultaneously. When checked, data that cannot be sent on the local network is forwarded to the dial-up network.

☐ Use default gateway on remote network

SLIP link

☐ Use IP header compression

Frame size: 1006 ▼

[OK] [Cancel]

Advanced TCP/IP Settings

General | DNS | WINS

WINS addresses, in order of use:

⬆ ⬇

[Add...] [Edit...] [Remove]

If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled.

☐ Enable LMHOSTS lookup   [Import LMHOSTS...]

NetBIOS setting

○ Default:
   Use NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP.

○ Enable NetBIOS over TCP/IP

⊙ Disable NetBIOS over TCP/IP

[OK] [Cancel]