

OMNI Application Note

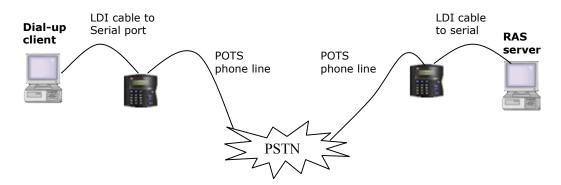
Title: OMNI and Dial-up Access – Windows 95, 98, XP, 2000

Date: March 1, 2004

Revision: 1

1 Overview

By using two OMNIs in combination with a Windows RAS server and Dial-up connection, the user can achieve a secure dial-up networking connection to perform typical Internet tasks such as checking email, browsing web documents, FTP, and NetMeeting.



Note: Client and Server setup are identical except where noted.



2 Prerequisites

The following items are required in order to establish a secure Dial-up connection:

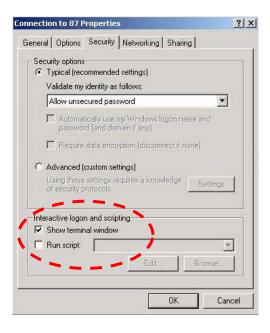
- 2 OMNIs one for local and one for remote computer
- 2 LDI cables included with OMNI
- 2 phone cables
- 2 PCs one to act as client and one to act as server. Note: Not all windows operating systems can accept incoming connections
- 2 phone lines
- OMNI modem driver .inf file available on the SecurePhone web site
- 2 Serial port adapters 9 pin-25 pin (only necessary if the PCs have 9 pin serial port only)

3 Quick Start Setup

- 1. Connect both OMNIs to the PC via the Local Digital Interface, and to the phone network.
- 2. Configure the OMNIs for remote control.
- 3. On both computers, install the OMNI as a modem. Instructions for this are detailed in the OMNI Modem Installation application note.
- 4. Create a dial-up networking connection on the client PC, and an incoming connection (RAS) on the server PC.



If the **OMNI Show Details** modem driver is installed, the "after-dial terminal window" will need to be enabled: by opening the **Properties** of the newly created connection and checking the proper box, usually found on the **Security** tab. The terminal window requires the user to review security information before allowing the call to proceed; this configuration may not be ideal for an unattended server.



5. Double-click the client dial-up connection icon to initiate a call.





4 Detailed Setup

1. Configure 2 OMNIs with the following settings:

OMNI Remote Operation

Remote Control Enabled

ACL Optional, if enabled, populate with required DAO/KMID entries

Secure Data Enabled

SACS Data Enabled for version 2.0 and less

Ring Count 0

Baud Rate Match computer's baud rate settings

- 2. Place the OMNIs in Remote Control
- 3. Connect each OMNI to a separate phone line using standard phone cables
- 4. Connect each OMNI to their designated computer's serial port using LDI cables. An adapter may be needed from the 25 pin cable to a 9 pin port, however a gender changer will NEVER be necessary. If the setup requires a using a gender changer, it is most likely the wrong cable or the wrong port on the computer.
- 5. Install the OMNI as a modem. For details on adding a modem, please see the Modem Install application note.

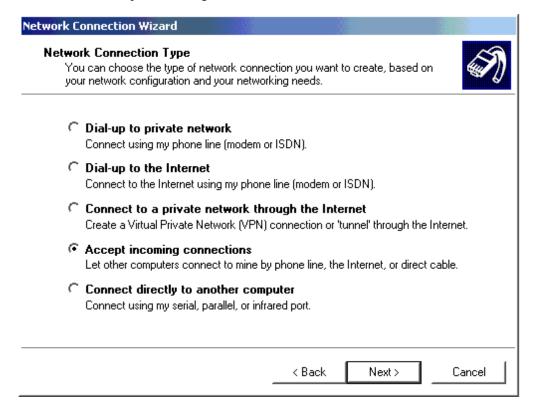


6. Create a dial-up connection: Open the "New Connection" wizard found under Dialup or Network Connections.

For the server, choose the option to **allow this computer to receive incoming connections**. A **local connections** icon in will appear in the dial-up networking folder.

For the client, choose **dial-up to the Internet or outside server**. Configure this with the proper phone number. Once the connection is created, an icon will appear. If the **Show Details** modem driver will be used, the "after dial terminal window" must be enabled in the **Security** tab of the connection properties. Details on enabling the terminal window are shown in the Quick Start section of this document

For both connections, the appropriate network and security/authentication settings will need to be configured. These will vary depending on the type of network and windows configuration. Refer to Windows dialup networking documentation for assistance.





- 7. Verify both connections have matching baud rates to their designated OMNI.
- 8. To start a call, open the client computer's dial-up connection.
- 9. If using the Show Details modem driver, a black terminal window will appear. After viewing the security information, click the **continue** button. Windows user authentication will now take place.

5 Troubleshooting

If an error occurs during the connection process, please check these items:

- 1. If the OMNI is not dialing out, verify the baud rates match from computer to OMNI.
- 2. If the OMNI is not dialing out, verify cables are connected properly.
- 3. Verify both OMNIs are in remote control and configured with the above specifications. (An OMNI may appear to be in remote control from the display, however if it has been turned off and back on again, it is actually logged out. Press **menu** to log off, and then log back in and place the OMNI in remote mode)
- 4. If the OMNIs are not going secure, verify the OMNIs contain matching ACL codes and keys.
- 5. If the call fails, verify the Windows login information is setup for the remote machine. Windows requires a username/password in order to login during dial-up.
- 6. If the OMNIs are not going secure or the call fails, and the Show Details driver is installed, verify that the after dial terminal window is enabled on the dialup connections.

6 Reference

- 1. For detailed instructions on setting up a Dial-up Networking connection, please see the Modem Install application note.
- 2. For detailed instructions on setting up a RAS server on Windows 2000 Professional/Server, please see the Microsoft support page at http://msdn.microsoft.com/library/default.asp?url=/library/en-us/apcguide/htm/appdevisv 8.asp
- 3. OMNI User manual K10048254
- 4. For additional assistance, please contact the L-3 tech support line at 1-800-339-6197 (toll free) or 1-856-338-6207 (outside the US)