

Windows NT RAS for LAN-Dial – Non-Subnetted

Category:	Lan-Dial Software
Product:	Microsoft Windows NT 3.51 RAS
Revision date:	12/24/96

Description:

The following instructions are for setting up Windows NT 3.51 RAS for Lan-Dial accounts without using subnetting.

Instructions:

The following identifiers are used during this setup but should be replaced by the real settings supplied by us:

Identifier	Description	Example
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<domain name>	Domain name	abc.com
<network>	Network number	38.100.100
<subnet mask>	Subnet mask	255.255.255.0
<account id>	Account ID	LDxxxx
<password>	Account password	xxxxxxxxx
<pop phone>	POP phone number	123-4567
<name servers>	Up to 3 name servers	38.9.213.2 38.9.223.2 38.9.233.2

1. Install TCP/IP on the Windows NT machine that will serve as the Internet gateway.
2. Configure TCP/IP on the gateway using the Network control panel:
 - Select the network adapter connected to the internal LAN

IP Address:	<network>.2
Subnet Mask:	<subnet mask>
Default Gateway:	leave this blank
Primary WINS Server:	leave this blank
Secondary WINS Server:	leave this blank
Configure DNS:	
Host Name:	(anything appropriate can be entered)
Domain Name:	<domain name>
Add the name servers from above	
 - Close the TCP/IP configuration dialog, but DO NOT exit the Network control panel.
3. Configure Remote Access Service on the gateway using the Network Control panel:
 - If necessary, add a modem. Configure the selected modem to 'Dial out only'.
 - Set the Network options to use only TCP/IP for dial out. Select 'Allow any authentication including clear text'. No configuration of TCP/IP for remote clients is necessary.
 - When done configuring RAS, close the Network control panel, but DO NOT restart the machine if prompted to.

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4. Start the registry editor by running REGEDIT32 and make the following changes:
 - Key: HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TCPIP\Parameters
Value: IpEnableRouter : REG_DWORD : 1
 - This value will most likely need to be added:
Key: KEY_LOCAL_MACHINE\System\CurrentControlSet\Services\RasArp\Parameters
Value: DisableOtherSrcPackets : REG-DWORD : 0
5. Restart the machine.
6. Start Remote Access application and create a phonebook entry.
 - Give the entry the name Internet.
 - Enter the POP phone number <pop phone> (add appropriate dialing codes if dialing through a PBX or long distance).
 - Enter a description of Internet.
 - Deselect 'Authenticate using current user name and password'.
 - Press the 'Advanced ... I button for more options.
 - Select the appropriate modem port.
 - Configure Modem:
 - Set modem speed to at least 19200.
 - Select 'Enable hardware flow control'.
 - Select 'Enable modem error control'.
 - Deselect 'Enable modem compression'.
 - Deselect 'Enter modem commands manually'.
 - Configure Network:
 - Select PPP and TCP/IP and deselect everything else, including 'Request LCP extensions (RFC 1570)'.
 - TCP/IP Settings:
 - Select 'Require Specific IP address'.
 - IP address: <network>.1
 - Select 'Use Specific Name Servers' and enter the name server addresses.
 - Deselect 'Use VJ header compression'.
 - Select 'Use default gateway on remote host'.
 - Configure Security:
 - Select 'Accept any authentication including clear text'.
7. Initiate the dial up connection. Enter <account id> and <password> for the user name and password and nothing for the domain, when prompted. If errors occur, ensure all settings are set as described above.

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8. After a successful connection, open a command window and type the following commands:
 - route delete <network>.0
 - route add <network>.0 mask <subnet mask> <network>.2
9. Test the connection by pinging a non LAN address, like one of the name servers.
10. Steps 7 and 8 need to be performed manually every time a connection is desired. This can be automated using the following batch file:
 - @echo off
 - rasdial Internet <account id> <password>
 - route delete <network>.0
 - route add <network>.0 mask <subnet mask> <network>.2

This batch file can have an icon assigned to it for easy startup.

11. To configure the LAN clients, each one must have TCP/IP installed and configured. Each client should have a unique IP address on the same network as the NT server (<network>.3, <network>.4, etc.), the same netmask (<subnet mask>) and a default gateway of <network>.2 (the NT machine).