

# Compatible Systems Tech Notes Index Page

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## **10/100 Autosensing Problem with a MicroRouter 900i/1000R**

You are connecting a MicroRouter 900i (or 1000R) to a 10/100 autosensing hub. The MicroRouter and the hub cannot see/talk to each other.

## **Adding Memory to Your IntraPort 2 VPN Access Server**

Some earlier builds of the IntraPort 2 VPN Access Servers may have only 4 MB SDRAM, which will not support software versions 5.x or later. If this is the case, you will need to upgrade the memory on your server in order to use the latest software versions.

## **Adding Memory to Your MicroRouter 12/22xx**

Beginning with software version 4.5, all 12xx and 22xx series routers (1200i, 1220i, 1250i, 1270i, 2200R, 2220R, 2250R and the 2270R) may be upgraded with a 72-pin dual-banked (double-sided) FastPage mode SIMM up to 4MB.

## **Adding Memory to Your RISC Router 2800i/3400R**

With the advent of system software v4.0.0, additional memory can be added using a 72-pin FastPage mode SIMM of 2, 4, 8, 16 or 32MB.

## **Adding Memory to Your RISC Router 4000S**

Upgrading your 4000S system software to v4.0.0 will allow you add more memory to your RISC Router.

## **Adtran ISU Express Setup**

Recommended settings for use in conjunction with Compatible Systems internetworking devices.

## **Cable Diagrams**

Diagrams and pin assignments for the custom data communications cables that are used with Compatible Systems internetworking devices.

## **CompatiView Error Codes**

A few of the common error codes you may encounter in CompatiView error messages.

## **Debugging a Compatible Systems Router Log**

The router log contains a wealth of information when run in Debug mode. This page describes the codes that you may see.

## **Device Test Switch Settings**

Setting definitions of the rotary test switch found on Compatible Systems internetworking devices.

## **IP Fragmentation and MTU Path Discovery with VPN**

The IP protocol family was designed to use a wide variety of transmission links. The maximum IP packet length is 65000+ bytes. Most transmission links enforce a smaller maximum packet length limit, called maximum transmission unit, or MTU, which varies with the type of the transmission link. The design of IP accommodates link packet length limits by allowing intermediate routers to fragment IP packets as necessary for their outgoing links. The final destination of an IP packet is responsible for reassembling its fragments as necessary.

## Knowledge Base

- Article C000126  
The { and } brackets are not valid NAT configuration characters.
- Article C000133  
CompatiView and the IntraGuard.
- Article C000138  
NAT on a single physical interface, but with two (or more) subinterfaces.
- Article C000141  
Occasional FFFFFFFF99 error when cancelling out of Configuration Upload Status dialog.
- Article C000143  
How to forward DHCP requests through a router by using UDP Relays to forward BOOTP requests from the client computer.
- Article C000146  
Problems routing when using /29 mask on 232 network.
- Article C000148  
AppleTalk Zones and 3000E, v4.0.2 code.
- Article C000161  
Remote management of Compatible Systems routers through the AUX/Console Port.
- Article C000162  
Internal Device Temperature.
- Article C000164  
3Com ISDN Impact IQ Chat script.
- Article C000166  
IntraGuard Log Interpretation.
- Article C000188  
Bypassing boot-up to create a console connection.
- Article C000211  
USRobotics ISDN Courier I-Everything – Correct dip switch settings and a chat script example.
- Article C000218  
Caymen Tunneling of AppleTalk in IP.
- Article C000220  
NAT and Multiple External Addresses.
- Article C000222  
Adding additional IP addresses to a single Ethernet or WAN port requires the use of subinterfaces.
- Article C000223  
Upgrading Router Code from 3.x to 4.x
- Article C000226  
UDP Relays and the MR1000R
- Article C000227  
MR1000R and WAN Negotiation
- Article C000228  
Checkpoint Firewall NAT and Routing
- Article C000233  
Failover and Backup Modems
- Article C000235  
Normal mode and Passive mode FTP servers, NAT and Filtering.
- Article C000236  
Adding Packet Filters using CompatiView
- Article C000237  
Authenticaiton of PPP Connections
- Article C000238  
How to search the device log to see what your filter or firewall is blocking and how to let it through.

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Adtran Express 3000 ISDN Chat Script
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Erased Flash Recovery
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How to troubleshoot a Frame Relay WAN connection.
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IntraGuard Bridging vs Routing and Dynamic Firewall Paths
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NAT BitMasks and the External Range
- Article C000266  
SMDS Heartbeat
- Article C000273  
Using the TFTP Command
- Article C000279  
IP Forwarding on the RR3000E
- Article C000282  
NAT Mapping and DNS Resolution
- Article C000284  
PassThruRanges and Routing

### **Motorola Bitsurfer Pro Setup**

Recommended settings for use in conjunction with a Compatible Systems Internet Access Router.

### **Ports and Protocols Necessary to Pass Through a Firewall with your LAN-to-LAN and Client VPN Tunnels**

Forwarding VPN traffic through a Firewall depends on what Compatible Systems IntraPort Client software you are using, what type of transforms are specified, and/or the type of LAN-to-LAN tunnel being used. Both IP protocols and TCP/UDP ports must be opened in the Firewall.

### **Product Specification Sheets**

Routed Network Protocols, Wide Area Transport Support, Operational Modes, Routing Table Protocol Support, Standard Management Features, Advanced Routing Features, Link and Data Security Features, Ports, Processor, Memory, Enclosure, Environmental, etc.

### **RIP Problems with Class A Subnetting**

MicroRouter Frame Relay or numbered WAN connection to an ISP.

### **Software Updates**

All Compatible Systems internetworking devices use Flash ROM, allowing for unlimited and free software upgrades.

### **Transitioning from STEP to IKE IntraPort Client Software and Upgrading from 4.x to 5.x IntraPort VPN Access Server Code**

Transitioning VPN users from STEP to IKE is not as bad as you might expect. There are very few changes which need to be made, the exact number of which depend on how your authentication is currently being performed. Users in any given group can migrate as they get the 3.x Client installed, meaning that 2.x and 3.x users can use the same group configuration concurrently.

### **Upgrading Your RISC Router 3000E from v1.1.3 and Earlier**

In order to upgrade the 3000E's system software to v1.2 or higher, you must first reconfigure the device's programable internal memory structure.

## Un-numbered Frame Relay

With the release of software, v4.4.10, support for IP un-numbered Frame Relay is included.

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