

360-80 Router RELEASE NOTES

Covers the Charles 3641-80 and 3648-80 Routers for the 360-80 System

Card CD Features:

Revisions and Manuals to include 3648-80 router
Card Installation document/manuals
Card Practice documentation/manuals
User's guide documentation/manuals
This release note - replaces Router Trouble Shooting Manual

Additional operating features of the 3648-80 router
T1 to Ethernet router with 8 port Ethernet unmanaged switch
Unmonitored Ethernet switch to facilitate multiple Ethernet LAN devices
All Ethernet LAN ports are 10/100 MB with auto configuration

Current Version of Single Port Router (91-364180-X) Software Release: V1.9

Current Version of Eight Port Router (91-364880-X) Software Release: V1.0

Features in latest Software Releases:

Four (4) different methods to manage the 364X-80 routers:

1. RS-232 Command Line Interface (CLI) connected to the front panel jack for either direct connection or by secure remote control via a modem.
2. Telnet via Ethernet
3. SNMP via Ethernet
4. Web Browser via Ethernet

Router system Notes:

1. The 3648-80 router contains an unmanaged Ethernet switch/hub at the LAN portion of the router. Since the switch/hub portion is unmanaged, all 8 ports of the LAN side of the router have the same IP address and MAC address. Data traffic is routed between the 8 ports based on MAC addresses and not IP addresses.
2. Both the 3641-80 and the 3648-80 routers can be configured either as a client (most common) or a server (very rare). If the router is configured as a server, many of the common features such as RIP will not function correctly. To insure that the router is configured as a WAN client do the following:
With the Browser under Configuration -> WAN Connections -> Edit -> Edit PPP, verify that the server option value shows false.
With the CLI or UID interface, enter the command "pppoh set transport <name> dialout" where <name> is the name of the WAN transport displayed under the CLI command "ip list interface".

Operational Notes for the 364X-80 routers:

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3. When looking at the timeslots, do not select 'apply changes' if no changes are to be implemented. Use 'Quit' and back out of the menu using the normal screen quit process. Otherwise the 3648-80 router will assign 25 timeslots to the router if selecting the 'apply changes' option when no Timeslot changes were made.
4. T1 Controller (3603) / Ethernet Router (3641/3648) - If after assigning timeslot 13 to channel 1, you assign timeslot 1 to channel 13 the craft port indicates that the channel is occupied. First assign timeslot 1 to channel 13 and then assign timeslot 13 to channel 1.
5. When looking at the Browser LAN connection information, ignore the displayed speed. The Browser for the 3648-80 shows link speed 1 MB for either 10MB or 100MB connection. 1 MB is not correct for either speed and only indicates the router port is active to the unmanaged switch. CLI port Ethernet show indicates only that the port connected true or false.
6. It is recommended that NAT not be used. Use DHCP and configure the LAN network for dynamic IP address assignment. NAT (Fixed address translation) may introduce router operating errors.
7. When viewing the DHCP parameters with Windows, the DHCP Lease expiration date will be the same as the Lease Obtained. The Lease expiration is an option under the original RFC and the 3648-80 does not include this option. The DHCP offered IP address by the 3648-80 router is valid as long as the client is alive.
8. Frame relay operation with the 3648-80 allows only 1 DLCI.
9. It is recommended that device addresses use at least 24 bits. (Network mask is 255.255.255.0 or more.) With RIP operating, the transmitted network for the third octet is incorrect.
10. It is recommended that the local T1 network addresses are defined to include the entire local T1 span. Static routing defaults to the WAN interface and not to the WAN network.
11. If the router does not appear to function correctly, reloading new scripts may not completely reset the router. Restoring to factory default operation before loading a new script is recommended.
12. When configuring to factory default configurations, several error messages will be displayed indicating missing files or connections. These missing files do not impact re-configuring to factory values.