

Testing Osicom CSU/DSU

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Materials needs for testing:

- a. 25 pin-25 pin serial cables
- b. 2 ea.- Wyse terminals
- c. 1 ea.- Head to Head 8 wire cable (Flat Satin or Cat. 5)

Setup Phase: (Using Wyse Terminal(s) as your Supervisory Source)

Configuration settings for the Wyse terminals should be:

Receiving Port = 9600 Baud

Emulation= VT100.

Finally, the CSU/DSU's in question will need to be placed next to each terminal that it will eventually be connected to. You will also need power supplied to these devices.

Programming Phase:

To test the CSU-DSU's, connect the Head to Head 8 wire cable into both WAN ports located on the back of each CSU/DSU. Your next step will be to plug a 25 pin serial cable into the CONSOLE port of each CSU/DSU and the other end to the modem/primary port on each Wyse terminal. Each terminal should boot to the OSICOM Configuration MENU. At the menu choose VT100 terminal emulation, if you choose the wrong emulation, the CSU/DSU will need to be power cycled to reset and choose again. Determine which CSU/DSU will be connected to the server side of the network and begin there.

Server Side:

1. From the MAIN MENU > CONFIGURATION
2. Select > CSU CONFIGURATION
3. Select > TIMING> INTERNAL (then press the ENTER button)
4. Select X to Exit
5. You will then be asked to confirm the changes, answer Y
5. From the CONFIGURATION MENU> CHOOSE INTERFACE CONFIGURATION
6. Select > LAN/PORT 0 interface
7. Note:This should be enabled with the Ethernet protocol
8. Exit out to INTERFACE CONFIGURATION
9. From the INTERFACE CONFIGURATION> WAN/PORT
10. Note:This should be enable with PPP(SYNC) setting for testing
11. Exit back to the INTERFACE CONFIGURATION menu
12. Exit back to the CONFIGURATION menu
13. From the CONFIGURATION menu> PORT CONFIGURATION
14. Select > LAN/PORT 0 interface
15. Verify that the INTERFACE: LAN is set
16. Make sure for the IP ROUTING: ENABLE is set
17. Select the IP ROUTING options menu
18. Under the PORT 0 IP routing option the address should be entered as the base network address with an appropriate IP number (i.e. 200.10.10.150 is generally a good choice for testing) the subnet should be 255.255.255.0 All other settings should be left as they are
19. Confirm changes and exit to the PORT CONFIGURATION menu
20. Choose the WAN-PORT 1 interface
21. Verify that the INTERFACE: WAN1 is set and also IP ROUTING: ENABLE is set
22. Choose the IP ROUTING option menus and set the MODE to NUMBERED and insert the address base at 200.10.20.150 and the subnet mask to 255.255.255.0
23. After confirming changes exit all the way back to the CONFIGURATION menu
24. Choose GLOBAL CONFIGURATION menu.
25. Choose the IP CONFIGURATION option
26. Verify that the DEFAULT ROUTE PORT: 1 is set
27. After confirming any changes exit back to the MAIN MENU
28. Choose the SAVE TO FLASH menu option
29. Choose YES to save the configuration.

Remote Side:

1. From the MAIN MENU choose CONFIGURATION
2. Choose CSU CONFIGURATION
3. Choose TIMING: REPEATER by press ENTER/CR button, then press X to exit
4. You will be asked to confirm the changes
5. At the CONFIGURATION MENU choose INTERFACE CONFIGURATION
6. Choose the LAN/PORT 0 interface
7. This should be enable with the Ethernet protocol
8. Exit back to the INTERFACE CONFIGURATION menu
9. Choose the WAN/PORT 1 interface
10. This should be enabled with PPP(SYNC) setting for testing
11. Exit back to the INTERFACE CONFIGURATION menu
12. Exit to the CONFIGURATION menu
13. Choose the PORT CONFIGURATION option
14. Choose the LAN/PORT 0 interface
15. Verify that the INTERFACE: LAN is set and that the IP ROUTING: ENABLED is set
16. Use the arrow keys to select the IP ROUTING options menu
17. Under the PORT 0 IP routing option the address should be entered as the base network address with an appropriate IP number (i.e. 200.10.30.150 is generally a good choice for testing) the subnet should be 255.255.255.0 All other settings should be left as they are.
18. After confirming changes exit back to the PORT CONFIGURATION menu
19. Choose the WAN-PORT 1 interface
20. Verify that the INTERFACE: WAN 1 is set and also that the IP ROUTING: ENABLE is set
21. Choose IP ROUTING option menus and set the MODE to NUMBERED and insert the address base at 200.10.20.156 and the subnet mask to 255.255.255.0
22. After confirming changes exit all the way back to the CONFIGURATION menu
23. Choose GLOBAL CONFIGURATION menu
24. Choose the IP GLOBAL CONFIGURATION option
25. Verify that the DEFAULT ROUTE PORT: 1 is set
26. After confirming any change exit back to the MAIN MENU
27. Choose the SAVE TO FLASH menu option
28. Choose YES to save the configuration.

Testing:

Testing from each terminal you should be able to use the STATUS AND TEST option from the MAIN MENU and choose TCP/IP STATUS menu option. Choose the PING/TRACEROUTE option and PING the 200.10.20.150 and 200.10.20.156 address to verify that the CSU/DSU's are communicating with each other. If a network is connected to the CSU/DSU's PING the other network TCP/IP addresses (200.10.10.150, 200.10.30.150) to verify that the Ethernet interface is working properly.

Finalizing:

After testing the routers back to back, the host side csu/dsu will need one change to make it ready for onsite usage.

From the MAIN MENU of the host side csu/dsu, choose CONFIGURATION, and then choose CSU CONFIGURATION. Choose TIMING: REPEATER by press ENTER/CR button, then press X to exit. You will be asked to confirm the changes. After confirming exit back to the MAIN MENU and choose the SAVE TO FLASH menu option. Choose YES to save the configuration.

The csu/dsu pair are now ready for usage. Each ethernet device (i.e. Spotline units) at the remote site will need to be programmed with the appropriate ip address base (i.e. 200.10.30.xxx) and the correct subnet mask of 255.255.255.0 as well as the gateway address (i.e. 200.10.30.150).

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OSICOM CSU/DSU

DUAL REMOTE STORE SETUP

