WebMux™

Model 690PG

Installation Guide

Version 9.0.x

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Packing List

- One (1) WebMux unit
- Two (2) Power cord
- One (1) WebMux User Manual
- One (1) WebMux 690PG Installation Guide
- One (1) Warranty registration card

Section 1

Main Components

1.1 Front View

1.1.1 Toggle Power Switch

This switch toggles power on. To force power off, the switch must be pressed and held for 5 seconds. However, it is not recommended to use this power switch to shut down the unit. Please use the LCD panel, web interface, or command line interface to issue a proper shut down.

1.1.2 Reset Button

Reset the built-in switch only. Please refer Section 2 “swctl” shell command for details.

1.1.3 Up Arrow Button, Down Arrow Button

When each button is pressed, the value on the cursor location increases or decreases. It goes through lower case letters, upper case letters, numbers and symbols. When the cursor is located at the left most position on the LCD, the up and down arrow allows the user to select a different item to setup.

1.1.4 Left Arrow Button and Right Arrow Button

When each button is pressed, the cursor moves to the left and right.

1.1.5 Check Mark Button, and Cross Button

Check Mark Button confirms the selection, Cross Button cancels the selection. At any time when the system is running holding down to the Check Mark Button will invoke the configuration menu, where you can change IP addresses and other settings.

1.1.6 Switch Ports

There are 20 gigabit Ethernet copper ports and four optical gigabit ports.

1.1.7 Console Port

Serial console port at 115200-N81 speed for shell commands and switch configuration.

1.2 Rear View

1.2.1 Redundant Power Supply

WebMux 690PG has a redundant dual power supply.

1.2.2 Backup WebMux Port

You may connect another WebMux to this port so that you can have redundancy. Connect them using a cross over cable, or a regular cable with a hub or switch in between. The two WebMuxes must be properly configured to be part of a primary and secondary pair. Do not plug two WebMuxes together for redundancy without following proper instructions.

1.2.3 Power Cord

Please use the supplied power cord to connect the WebMux to the power source. The WebMux 690PG has a 115V/230V AC universal power supply.

Section 2

Default Switch Configuration

The WebMux 690 contains a built-in VLAN-enabled switch. The factory preset default VLAN ID is 4000 for the top row, and VLAN ID 4001 for the bottom row. All ports are untagged. The top row is the router LAN, and bottom row is the server LAN

A user can change the router LAN and server LAN IP addresses through LCD/keypad on the front panel. However to change the VLAN configuration, the corresponding change must also be made through the "swctl" command documented in the next section of this document.

Both LCD/keypad and superuser command shell have the "factory reset" command. Once factory reset is run, WebMux will be reset back to the factory default. If the built-in switch VLAN configuration has been changed, user will also need to reset the switch by following the instructions in next section by running "swctl -S" from the superuser's command line.

Section 3

Using swctl Command from Shell

The WebMux 690 contains a built-in VLAN enabled switch. To configure this switch, please use the superuser's command line shell command swctl.

There are two ways to connect to the switch. After WebMux has booted, you may connect to the superuser's command line either using ssh to connect on the diagnostic port or a serial connection client such as minicom using the serial port on the front of the WebMux. Then type "swctl" to run the swctl program to communicate with the switch.

To fully reset the switch use the "-S" option to "swctl", namely type "swctl –S" at the superuser's command prompt. "swctl –S" should set the switch back to the factory settings. If "swctl –S" fails, you may try resetting the switch with its hard ware reset switch. Enter "swctl –H" at the superuser's command line. When prompted to do so, insert a thin stiff wire such as a paperclip through the reset hole on the front panel to press the reset switch. Using "swctl –H" without the advice of WebMux technical support is not recommended.

Adding another VLAN:

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Adding a VLAN to the switch normally involves following steps:

1. Add VLAN ID
2. Add switch port to that VLAN
3. Add port-channel
4. Add switch port to the port-channel.

The detailed command options are listed below:

Adding the VLAN ID:

Depending on your individual webmux, the command "interface 1/1" must be replaced by "interface 3/1". If "interface 1/1" is not correct, the switch will display a diagnostic when it is entered.

1. vlan database
2. vlan [vlan_id]
3. config
4. interface 1/1
5. vlan tagging [vlan_id]
6. vlan participation include [vlan_id]

VLAN Port Add:

1. config
2. interface [port_id]
3. vlan participation include [vlan_id]
4. vlan pvid [vlan_id]
5. vlan tagging [vlan_id]

VLAN Port Delete:

6. config
7. interface [port_id]
8. vlan participation exclude [vlan_id]
9. no vlan pvid [vlan_id]
10. no vlan tagging [vlan_id]

Port Channel Add:

11. config
12. port-channel [channel_id]

Port Channel Display:

13. show port-channel

Port Channel Add port:

14. config
15. interface [port_id]
16. addport [channel_id]

Port Channel Delete Port:

17. config
18. interface [port_id+4]
19. deleteport [channel_id]

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