

MAGNUM-ROUTER-SS

User Guide

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REVISION HISTORY

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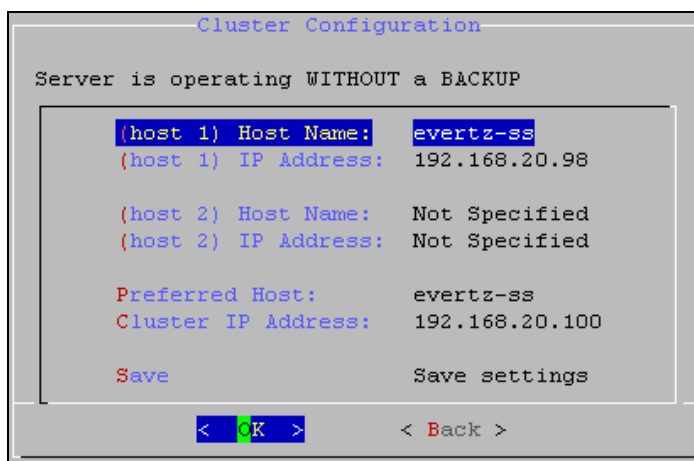
1. CONFIGURING THE NETWORK SETTINGS

The IP address of the MAGNUM-ROUTER-SS can be changed from the front panel of the unit. The **Network** screen enables the user to configure the network settings for network ports A and B. The following procedure outlines how to set an IP address:

1. To change the IP address, toggle to the appropriate number using the bottom left **Select** shaft encoder. Turning the shaft encoder clockwise will enable the user to advance forward and highlight the appropriate value. Turning the shaft encoder counter-clockwise will move the selection tool backwards.
2. Once the desired value is highlighted (the text will be bright yellow), use the bottom right **Change** shaft encoder to adjust the value of the selected number. Turning the shaft encoder clockwise will increase the number value, while turning the shaft encoder counter-clockwise will decrease the number value.
3. If you wish to apply your changed network settings, press the **Apply** option on the touch-screen.
4. Bonding is not supported in MAGNUM-ROUTER-SS units.

2. CLUSTER CONFIGURATION

Once the network has been configured, the next step is to define the cluster setup. This information is required whether there is only a single MAGNUM-ROUTER-SS or Main and Redundant MAGNUM-ROUTER-SS. The cluster is configured by connecting to the MAGNUM-ROUTER-SS IP address using a SSH session. A common program that can establish a SSH session is called Putty, other terminal programs can be used as well. Once a SSH connection has been established to the MAGNUM-ROUTER-SS, login using the account “admin” and the password “admin”. After a successful login, the MAGNUM Server Control Console will be displayed. This console presents the user with a number of operations that can be performed in order to properly set up your server. The **Cluster Configuration** menu, as illustrated in Figure 2-1, enables the user to set the cluster information for primary and/or redundant MAGNUM-ROUTER-SS. (Host names and IP addresses, preferred hosts and cluster IP addresses).



```
Cluster Configuration
Server is operating WITHOUT a BACKUP

(host 1) Host Name:  evertz-ss
(host 1) IP Address: 192.168.20.98

(host 2) Host Name:  Not Specified
(host 2) IP Address: Not Specified

Preferred Host:      evertz-ss
Cluster IP Address:  192.168.20.100

Save                Save settings

< OK >             < Back >
```

Figure 2-1: Cluster Configuration



For more information concerning the MAGNUM Server Control Console, please refer to the MAGNUM Manual.

2.1. (HOST X) HOST NAME

To assign a host name to the primary host (Host 1), select the (host 1) Host Name option from the **Cluster Configuration** menu. The dialog box in Figure 2-2 will appear when this option is selected. Enter the primary host name into the “Enter host name” field and then select the **OK** button.

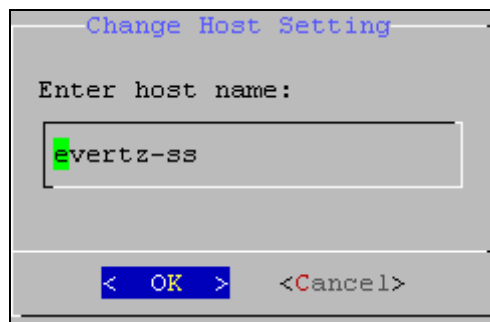


Figure 2-2: Change Host Setting

To assign a host name to the redundant server if applicable, select the (host 2) Host Name option and enter the desired redundant server name into the “Enter host name” field and then select the **OK** button.

2.2. (HOST X) IP ADDRESS

To assign a host IP address to the primary server, select the (host 1) IP Address option from the **Cluster Configuration** menu. The dialog box in Figure 2-3 will appear when this option is selected. Enter the desired host IP address into the “Enter (host name)’s IP address” field and then select the **OK** button. This IP address should be the IP that was assigned in Section 1.

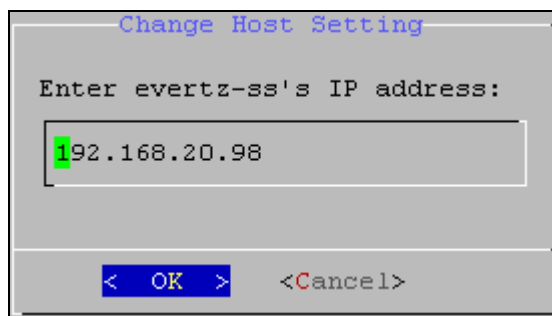


Figure 2-3: Host IP Address

If you wish to assign an IP address to the redundant server, select the (host 2) IP Address option and enter the desired redundant server IP into the “Enter (host name)’s IP address” field and then select the **OK** button.

2.3. PREFERRED HOST

The **Preferred Host** field will display the name of the primary server. If there is more than one server available, the user can select the server that they wish to assign as the preferred, primary server.

A **Preferred Host** dialog will appear (as shown in Figure 2-4) enabling the user to select a preferred host from the list of servers available. Toggle to the host in the list that you wish to make the primary server and select it by pressing space key; then select the **OK** button while done. The selected server will be set as the primary server. A preferred host is the server that will be made active if both primary and secondary servers are brought online at the same time. This requires the cluster is configured correctly and communication links between both servers are functioning correctly.

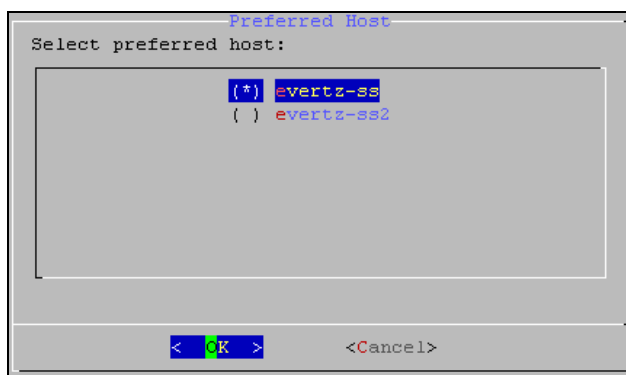


Figure 2-4: Select Preferred Host

2.4. CHANGE CLUSTER IP ADDRESS

To change the cluster IP address, select the **Cluster IP Address** option from the **Cluster Configuration** menu. The dialog box in Figure 2-5 will appear when this option is selected. If the user wishes to change the cluster IP address, enter a new IP address into the "Enter the Cluster IP address" field and then select the **OK** button. The cluster IP address is the IP address assigned to the Active MAGNUM server so that all clients have a single address connected to them regardless of which MAGNUM Server is Active. This is the IP address you will use to access the WEB Configuration Tool, and which will be manually programmed into any advanced panels for MAGNUM-SERVER connectivity.

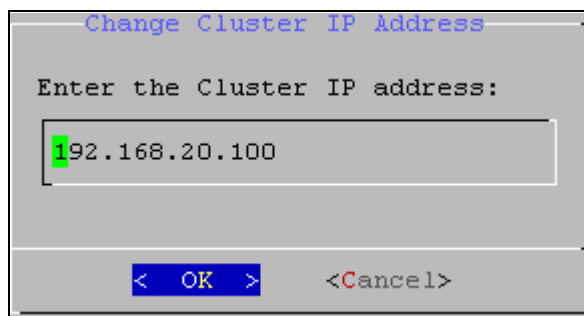


Figure 2-5: Change Cluster IP Address

3. UPGRADING

The user can manually upload code onto the MAGNUM-ROUTER-SS unit using the **Update** screen. The following procedure outlines how to manually update the device. This practice is not recommended for typical users and should only be implemented when directed by Evertz personnel.

1. Plug a USB memory key into one of the USB ports on the front panel of the unit.
2. Select the **Refresh** menu option.
3. The **Refresh** screen will display the updates available on the USB memory key. If there are no files listed, select the **refresh** option on the touch-screen. If there are still no files listed, try rebooting the system and ensure the correct files are loaded on your USB memory key.
4. If the available files are listed on the display screen, toggle through the list using the bottom left shaft encoder.
5. Once the desired file is highlighted, select the **Install** option on the touch-screen.
6. The **Install Update** screen will appear after a few seconds enabling the user to select whether they would like to update the code. Select the **Yes** on touch-screen to apply the update, or select the **No** if you do not wish to update the code.

After the installation of the update is complete, the user can remove the USB memory key from the front panel and manually reboot the device.

4. MAGNUM-ROUTER-SS LIMITS



Please refer to the MAGNUM Manual for information regarding the configuration of the MAGNUM-ROUTER-SS control system via the Web Configuration interface.

The limits for the MAGNUM-ROUTER-SS are outlined in Table 4-1. Please note that these limits are enforced when configuring an MAGNUM-ROUTER-SS.

Total of any Combinations of Panels	15
3rd Party Interfaces (Quartz/Symphony)	2
Levels (in Virtual Ports Page)	5
Max Physical Srcs/Dsts	919x919
Max Virtual Srcs/Dsts	576x576
Embedded Audio Routing with MAGNUM AVIPs & AVOPs	No
Subscriptions, Mirror Groups, Virtual Routers	No
Namesets	Global plus 3
Users	No (1 login only)
Reports	Yes
Salvos	15
Profiles (Not Including Profiles for Single-Profile Interfaces)	7

Table 4-1: MAGNUM-ROUTER-SS Limits