



HELIUS MEDIAGATE SERVER

INSTALLATION AND CONFIGURATION MANUAL

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SECTION 1

OVERVIEW AND INSTALLATION

Overview

This manual is intended for trained personnel responsible for installation and configuration of the Helius MediaGate Server and MediaLock device.

The Helius MediaGate Server comes equipped to support Helius routers on a network. To allow for the greatest flexibility and use of the network, Helius provides several user level accounts for the server:

- **Support**
A Support User is primarily responsible for setup and configuration of the server and routers, and arranging with the client to assign the appropriate bandwidth availability to their account. Support level access creates Providers.
- **Provider**
A Provider is a client or customer requiring the ability to create and send packages, add receivers and provide authorizations. A Provider is responsible for the content that needs to be delivered and the creation and sending of those packages.
- **SiteAdmin**
SiteAdmin is a limited access level.

This manual covers setup and installation of the MediaGate Server and MediaLock device using the Support level login. Helius assumes that trained technicians will be performing the installation and configuration of the equipment.

Safety

The Server contains parts connected to a power supply. Customers should never open the covers of a Server. No internal parts are intended to be field serviceable.



Electric shock hazard. Potentially lethal voltage.

Electrical safety measures should be used when working with the server.



The following safety and caution procedures should be followed when working with or installing a Helius MediaGate Server.

- Do not expose the internal parts of the Server.
- Do not subject the Server to physical shock or vibration.
- Allow the Server to stabilize to room temperature before connecting and powering up.
- Prevent exposure to extreme hot or cold temperatures or moisture.
- Do not cover ventilation openings. Ensure air can circulate freely through ventilation openings.
- Do not allow fluids or objects to pass through ventilation openings.
- Do not place the Server close to an external source of heat or near devices generating magnetic fields.
- Never place the Server in direct sunlight or expose to rain and moisture. Short circuit may cause fire or hazard.
- Use a damp chamois leather or soft cloth for cleaning. Never use an abrasive cleaner or cloth.

Specifications

Dimensions

Height	4.29 cm (1.69 in)
Width	48.26 cm (19 in)
Depth	76.2 cm (30 in)
Weight	17.69 kg (39 lb) (maximum configuration)



Environmental Conditions

Temperature	
Operating Temperature	10° to 35° C (50° to 95° F)
Storage Temperature	-40° to 65° C (-40° to 149° F)
Relative Humidity	
Operating	8% - 85% non-condensing with a maximum humidity gradation of 10% / hour.
Storage	5% - 95% non-condensing
Maximum Vibration	
Operating	0.25 G at 3-200 Hz for 15 minutes
Storage	0.5 G at 3-200 Hz for 15 minutes
Maximum Shock	
Operating	One shock pulse in the positive z axis on each side of the system of 41 G for up to 2 ms.
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axes, one pulse on each side of the system, of 71 G for up to 2 ms.
Altitude	
Operating	-16 to 3048 m (-50 to 10,000 ft)
Storage	-16 to 10,600 m (-50 to 35,000 ft)

Power

AC Power supply	
Wattage	550 W
Voltage	84-262 VAC, autoranging, 47-63 Hz, 7.6 A
Heat dissipation	2130 BTU/hr (theoretical maximum)
Maximum inrush current	Under typical line conditions and over the entire system ambient operating range, the inrush current may reach 25 A per power supply for 10 ms or less

Symbols

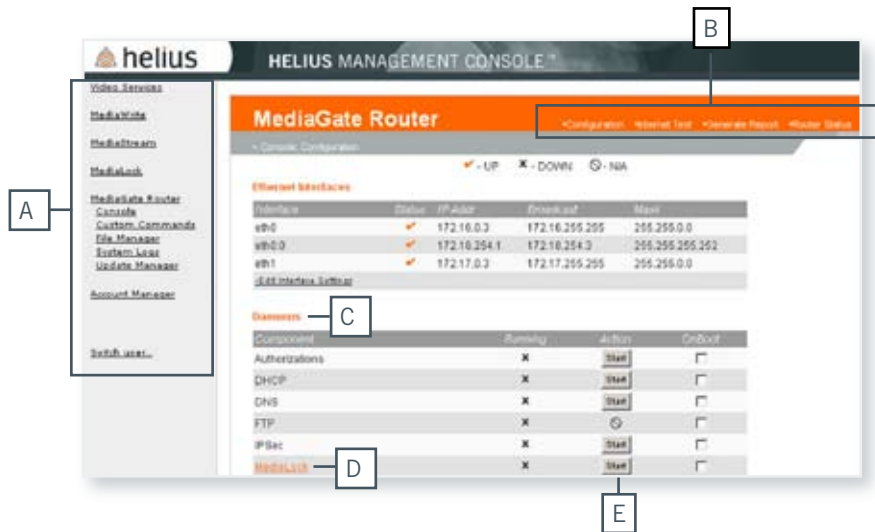
Symbol	Meaning
>	Link path. Indicates link selections in the Helius Management Console to display the correct screen
↓	Part of the link path. Indicates to scroll down the Console screen to the specified heading.
	Note Icon.
	Attention Symbol. Indicates caution should be taken.

The screen graphics in this manual are obtained using MS Internet Explorer 6.0. The appearance of windows in other browser versions may vary slightly but will function the same.

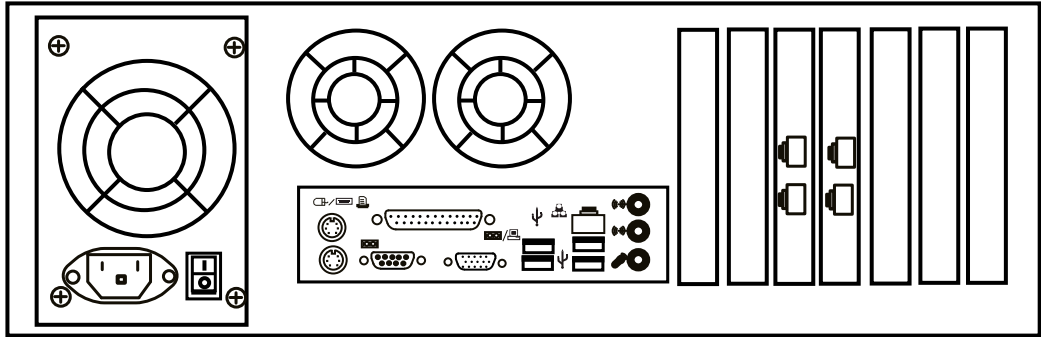
Typographical Conventions

Typographical conventions are used to show the link path that should be selected in the Helius Management Console to perform an action. Some text will be linked to other locations within the document. These links use the same convention, but display in underlined blue type to indicate they are “hotlinked” to another location.

	Example	Description	Explanation
A	<u>MediaWrite</u>	Bold, Underlined	Navigation menu link.
B	<u>Connections</u>	Bold, Underlined, Oblique	Navigation bar link.
C	<i>Daemons</i>	Oblique	Heading title of a section of the Console page.
D	<i><u>DialAccess</u></i>	Oblique, Underlined	Title of a link within the Management Console.
E	START	All caps	Button on the Management Console.



Connections



The server may have other circuit boards installed based on your options and configuration purchased from Helius.

For detailed installation information, please refer to any installation guide received for your specific installation procedure.

SECTION 2

PLANNING YOUR NETWORK

Overview

Each network setup will be unique. This manual provides instructions on how to configure a network scheme using the Helius Management Console and Helius products. Other products may be involved in the individual network, so please plan accordingly.

The network address scheme should be predefined for the MediaGate Server, MediaLock device (if MediaLock is enabled) and MediaGate Router(s) to be installed on the network. This information is necessary in order to configure the devices correctly on the network

If using the MediaLock feature, the MediaLock device should be connected to the network after the Ethernet IP address of the MediaGate Server is configured. If both are connected before configuration of the ethernet addresses there will be a conflict as their default ethernet IP addresses will match.

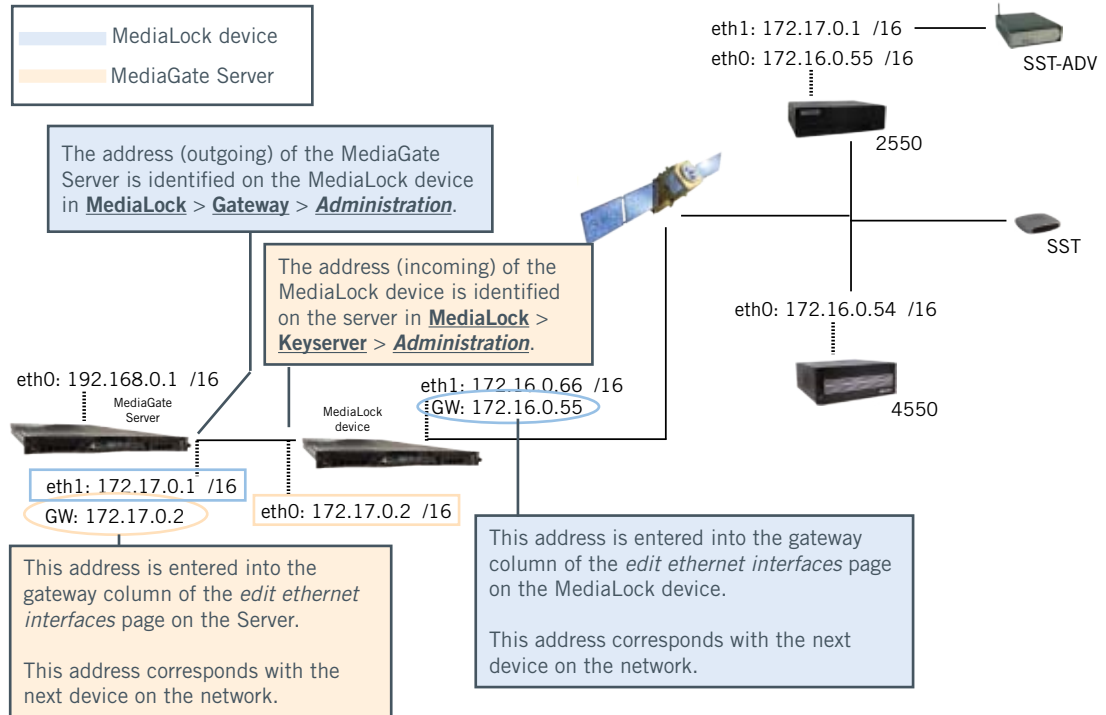
If MediaLock is not used, please just skip the MediaLock sections of the setup.

Careful planning will allow for ease of installation and configuration of all the devices on the network. If MediaLock is enabled, the MediaLock device and the MediaGate Server must be on the same network segment.

Helius Professional Services can provide assistance in planning your network scheme. Please contact your sales representative for more information.

Sample Network Setup

The diagram below displays a sample basic network structure. Based on your network scheme, there may be other appliances and your network scheme should accommodate those appliances appropriately.



In this example, the gateway address is the same as the next Heliuss device on the network, a MediaGate Router 2550. That would be representative of a terrestrial network where the next device the MediaLock device routes to is the Router.

In the diagram, the next device would be the satellite MUX. In your network scheme, you may have other devices between the satellite or terrestrial connection and the MediaGate Router receiving data from the Server.



SECTION 3

USING THE HELIUS MANAGEMENT CONSOLE

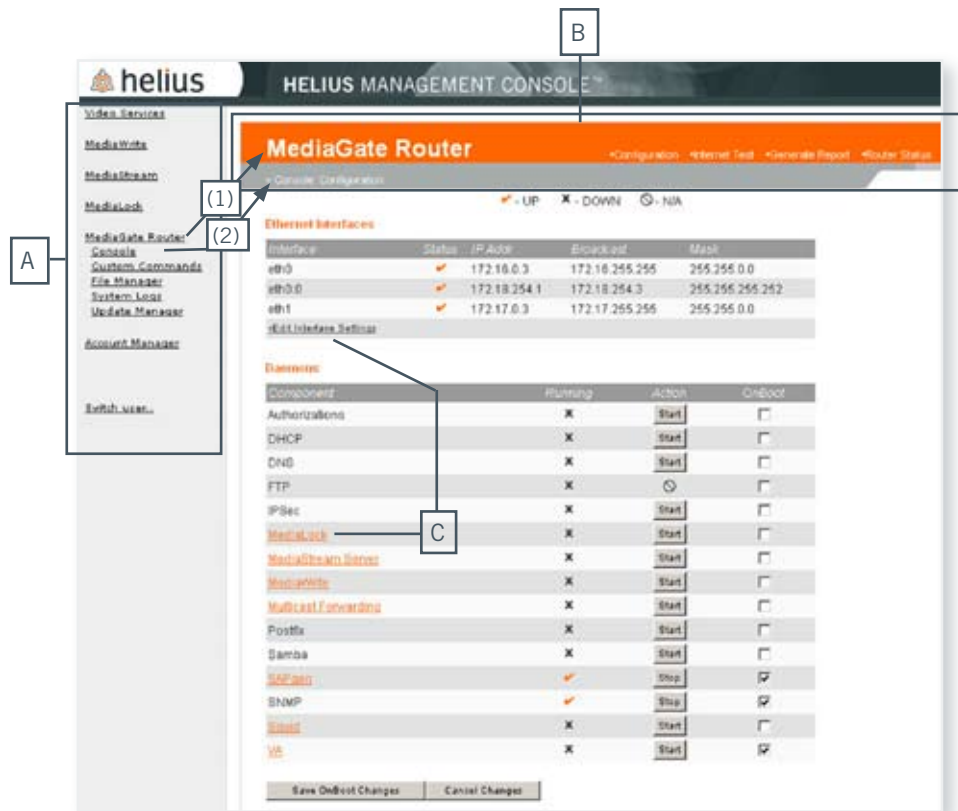
Overview

Helius has developed a support interface to assist support technicians in installation, configuration and maintenance of the Helius MediaGate Server and other Helius products.

This manual assumes the users have a basic understanding of using a computer web-based interface.

The Helius Management Console

The Helius Management Console is a web-based tool that provides access to configuration, setup and maintenance options for MediaGate routers and servers. Technical support will access all screens through the Helius Management Console.



A Navigation Menu

The Navigation Menu is the main menu of the Helius Management Console. Main sections and subsections are included in the Navigation Menu. The Navigation Menu is always displayed while in the Helius Management Console.

B Navigation Bar

The Navigation Bar is located across the top of the interface. The main section that is active (1) displays in the orange bar. Subsection information (2) displays in a link path below the main section. Some pages offer additional management pages and those links will display in the upper right hand corner of the Navigation Bar (3).

C Links

Most links in the Helius Management Console are underlined and orange. A few may be dark grey such as the Edit Ethernet Interface link shown.

Initiating a Support Connection

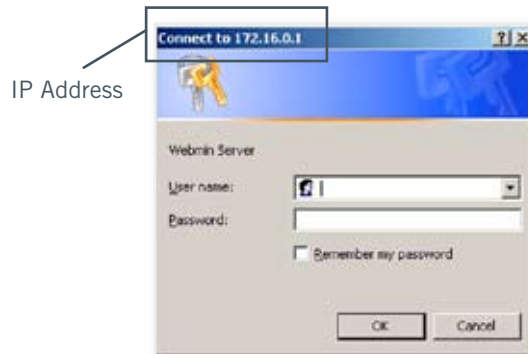
To access the client router, the IP address of the client is required.

1. Launch a web browser.
2. Specify the IP address of the equipment followed by “:1000” For example: “http://IP_address:1000”.



Address `http://172.xxx.xxx.xxx:1000/`

The support login will display.



The IP address specified will display in the upper left hand corner of the login screen. Enter the appropriate user name and password.

Upon successful login, the default screen **MediaGate Router** > **Console** will display.

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SECTION 4

SERVER AND MEDIALOCK CONFIGURATION

Overview

This chapter provides instructions for using the Helius Management Console to configure the MediaGate Server and MediaLock gateway device on a network.

Not all features documented here for configuration and setup will be used by all clients. Some features, such as MediaLock are optional. Other processes and services such as Authorizations and their setup are explained in the MediaGate Server Support Manual.

Some features may come automatically configured. Please check with your salesperson to determine if any features are pre-configured for your site.

Setup Steps

- 1. Network Setup**

Configure ethernet address scheme.

- 2. Time Settings**

- 3. Additional Applications Setup**

To configure additional applications such as MediaWrite, Authorizations and MediaStream Server, please refer to those sections in the MediaGate Server Support Manual. This section will review with some settings to consider when setting up your network.

- 4. Confirm Settings**

Check Internet connectivity, run a report with detailed configuration information.

Network Setup

Login to the MediaGate Server

1. Perform installation of the MediaGate Server and assure the MediaGate Server and PC are connected on the same LAN. Do not connect the MediaLock gateway device to the network until the Server ethernet addresses are configured. Both have the same default IP address.
2. Open an Internet browser window and enter the following IP address:
`http://172.16.0.1:1000/`.



3. Enter the support login.
4. Select OK. The Helius Management Console will display.



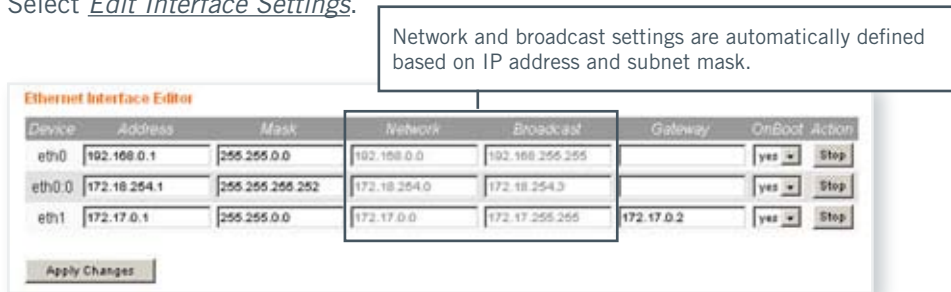
Configure MediaGate Server IP Address

The Helius MediaGate Server may come with one or more ethernet cards. This scenario describes a basic system with two interfaces installed on the server. The specific network being created and configured may be different than some of the examples shown.

1. Select **MediaGate Router** > **Console** > **Configuration**.



2. Select **Edit Interface Settings**.



3. Enter a unique address in the sections according to the defined network scheme.

If using MediaLock, enter the gateway IP address next to the outgoing eth address (usually eth1). The gateway IP identifies the next address on the network that data will be delivered to. This may or may not be the IP address of eth0 on the MediaLock device, depending on your network structure.

4. Select **APPLY CHANGES**.

- ☰ Changing the address may cause the connection to the Server to be lost. This is normal. Reconnect to the Server using the new IP address defined. If changing the eth0:0 address, change and test the eth0 IP address before changing the eth0:0.

It is recommended to not change the eth0:0 address but may be necessary based on your network setup. Eth0:0 is used for access by support when it is not possible to access eth0.

Start Services in Daemons Table

Certain services need to be started on the Server in order to function properly. Some services are optional or need to be licensed.



If using MediaLock, the network address scheme should be identified on the MediaLock device and the MediaGate Server *before* starting the MediaLock service in the Daemons table. Perform this step after completing the configuration of the MediaLock device by logging back into the MediaGate Server.

1. Select **MediaGate Router** > **Console** > **Configuration**.

The screenshot shows the Helius Management Console interface. The left sidebar contains navigation options like Video Services, MediaWrite, MediaStream, MediaLock, MediaGate Router, Console, Custom Commands, File Manager, System Logs, Update Manager, Account Manager, and Switch user. The main content area is titled 'MediaGate Router' and shows the 'Console: Configuration' page. It includes a status bar with 'UP', 'DOWN', and 'N/A' indicators. Below this, there are two tables: 'Ethernet Interfaces' and 'Daemons'.

Interface	Status	IP Addr	Broadcast	Mask
eth0	✓	192.168.0.1	192.168.255.255	255.255.0.0
eth0.0	✓	172.18.254.1	172.18.254.3	255.255.255.252
eth1	✓	172.17.0.1	172.17.255.255	255.255.0.0

Component	Running	Action	OnBoot
Authorizations	✓	Stop	<input checked="" type="checkbox"/>
DHCP	✗	Start	<input type="checkbox"/>
DNS	✗	Start	<input type="checkbox"/>
FTP	✗	Stop	<input type="checkbox"/>
IPSec	✓	Stop	<input checked="" type="checkbox"/>
MediaLock	✓	Stop	<input checked="" type="checkbox"/>
MediaStream Server	✗	Start	<input type="checkbox"/>
MediaWrite	✓	Stop	<input checked="" type="checkbox"/>

Other services and processes shown here are described in the MediaGate Server Support Manual. Please refer to the Support Manual for more information on using these services and enabling them.

2. Select the START button in the *Action* column for MediaLock process and all other applicable processes that are part of the configuration of the network. The screen will automatically refresh after each process is started. If the VA service has the OnBoot box activated, deselect the OnBoot box.
3. Activate (✓) the checkbox in the *OnBoot* column for the processes selected in order to start each process when the Server is rebooted.

MediaLock Configuration

MediaLock is the Helius data encryption software tool. Using MediaLock requires additional hardware called the MediaLock Gateway device. All MediaGate Routers and the MediaGate Server enabling the MediaLock feature must be licensed, configured for the appropriate network scheme and the service started in the Daemons table of each device in order to function.

Configure the IP address of the MediaGate Server before connecting and powering on the MediaLock device. This will prevent a conflict as the default IP address of both devices will be the same when powered on the first time.

Configure MediaLock Address on the MediaGate Server

1. Login to the MediaGate Server if not currently logged in.
2. Select **MediaLock** > **Keyserver** > **Administration**.

The screenshot shows the Helius Management Console interface. The left sidebar contains navigation links: Video Services, MediaWrite, MediaStream, MediaLock, KeyServer, License, MediaGate Router, Account Manager, and Switch user... The main content area is titled 'MediaLock' and 'KeyServer Administration'. Under 'MediaLock Gateway Configuration', there is a link 'Add Gateway' circled in red. Below this is a table with columns 'Gateways' and 'Remove?'. The table contains one entry: '172.17.0.2' with an unchecked checkbox. A 'Remove' button is below the table. Below the table is the 'KeyServer Configuration' section with the following settings: Key Rotation: 24 hour(s); Network Poll Interval: 1 minute(s); Announce Interval: 10 second(s); Update Send Rate: 25 Kbps; Receiver Send Rate: 25 Kbps. A 'Save' button is at the bottom of this section. Two callout boxes are present: one pointing to the 'Add Gateway' link with the text 'A list of MediaLock gateways identified will display here.' and another pointing to the 'KeyServer Configuration' section with the text 'To remove a MediaLock gateway, activate the Remove checkbox next to the identified gateway and select the REMOVE button.' and 'For details on this section of the settings, please refer to the MediaGate Server Support Manual, MediaLock section.'

3. Select *Add Gateway*.

The dialog box is titled 'Add MediaLock Gateway'. It contains a text input field labeled 'IP Address' and an 'Add' button.

Enter the incoming (usually eth0) IP address of the MediaLock Gateway device.

4. Select ADD.

Login to MediaLock device

1. Perform installation of the MediaLock device and assure the MediaLock device, MediaGate Server and PC are connected on the same LAN.
2. Open an Internet browser window and enter the following IP address: `http://172.16.0.1:1000/`.



3. Enter the support login.
4. Select OK. The Helius Management Console will display.

The screenshot shows the Helius Management Console interface. The main title is "HELIUS MANAGEMENT CONSOLE". Below it, the page is titled "MediaGate Router". The interface includes a navigation menu on the left with options like "MediaLock", "MediaGate Router Console", "Custom Commands", "File Manager", "System Logs", and "Update Manager". The main content area displays the configuration for the MediaGate Router, including a table of Ethernet interfaces and a table of daemons.

Interface	Status	IP Addr.	Broadcast	Mask
eth0	✓	172.17.0.2	172.17.255.255	255.255.0.0
eth0.0	✓	172.18.254.1	172.18.254.3	255.255.255.252
eth1	✓	172.16.0.66	172.16.255.255	255.255.0.0

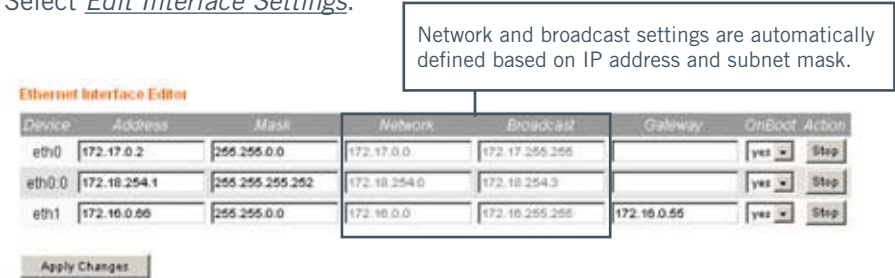
Component	Running	Action	OnBoot
DHCP	X	Start	<input type="checkbox"/>
DNS	X	Start	<input type="checkbox"/>
IPSec	✓	Stop	<input checked="" type="checkbox"/>
MediaLock	X	Start	<input type="checkbox"/>
MediaWrite	X	Start	<input type="checkbox"/>

Configure the MediaLock IP Addresses

1. Select **MediaGate Router > Console > Configuration.**



2. Select **Edit Interface Settings.**



3. Enter appropriate address information in the sections according to the defined network scheme. The interface chosen to receive from the MediaGate Server should be on the same network as the device sending information to the MediaLock device.

The MediaLock device must have a route defined in order to send traffic out to the network (ethernet gateway). Enter the gateway address in the *Gateway* column next to the interface (eth0 or eth1) selected to be the outgoing route.

The "gateway" defined on the MediaLock hardware identifies the route for outgoing traffic from the MediaLock device.

4. Select **APPLY CHANGES.**

Identify MediaLock Server on the MediaLock device

1. Select **MediaLock** > **Gateway** > **Administration**.



2. Enter the IP address of the outgoing ethernet connection on the MediaGate Server.
3. Select SAVE.

To view additional information on the Gateway, select **MediaLock** > **Gateway** > **View**.



If no Gateway is defined before the process in the Daemons table is started, an error message will display stating that MediaLock did not start. Be sure to configure the network addresses of the Server and Gateway before starting the process in the Daemons table.

Start MediaLock service

While logged into the MediaLock device, start the MediaLock process in the Daemons table.

1. Select **MediaGate Router** > **Console** > **Configuration** ↓ *Daemons*.



The screenshot shows the Helius Management Console interface. The main content area is titled "MediaGate Router" and contains a "Daemons" table. The table has columns for Component, Running, Action, and OnBoot. The MediaLock row is highlighted with a black box. The Action column for MediaLock shows "Start" and the OnBoot column has an unchecked checkbox.

Component	Running	Action	OnBoot
DHCP	X	Start	<input type="checkbox"/>
DNS	X	Start	<input type="checkbox"/>
IPSec	✓	Stop	<input checked="" type="checkbox"/>
MediaLock	X	Start	<input type="checkbox"/>
MediaWrite	X	Start	<input type="checkbox"/>
Multicast Forwarding	X	Start	<input type="checkbox"/>
Postfix	X	Start	<input type="checkbox"/>
Samba	X	Start	<input type="checkbox"/>
SNMP	✓	Stop	<input checked="" type="checkbox"/>
Squid	X	Start	<input type="checkbox"/>

2. Select START in the *Action* column next to MediaLock.
3. Activate (✓) the checkbox in the *OnBoot* column.
4. Select START in the *Action* column next to IPSec. If STOP is displayed on either button, the service has already been started.
5. Activate (✓) the checkbox in the *OnBoot* column.

Selecting the MediaLock link in the Daemons table opens **MediaLock** > **Gateway** > **Administration**.



Currently, there is no need to configure or start any of the other applications displayed in the Daemons table or the Miscellaneous section of this page.



Remember to log back into the MediaGate Server and start this service in the Daemons table of the MediaGate Server.

Time Settings

Refer to the MediaGate Router > Console section in the MediaGate Server Support Manual for details on setting or changing time zone and local time.

Time settings must be synced on the MediaGate Server, MediaLock device and MediaGate Router(s) in order for MediaWrite to function properly.

Additional Applications

Different features can be configured such as DNS client hostname and server, Multicast Routing, Routing and Firewall, MediaStream Server, and Authorizations.

Configuration of these features are described in the MediaGate Server Support Manual.

MediaWrite Setup

To configure MediaWrite, refer to the MediaWrite section of the MediaGate Server Support Manual for more information.

Confirm Settings

Settings can be confirmed once installation and configuration has occurred.

1. Login to the Server. The default screen **MediaGate Router** > **Console** > **Configuration** will display.



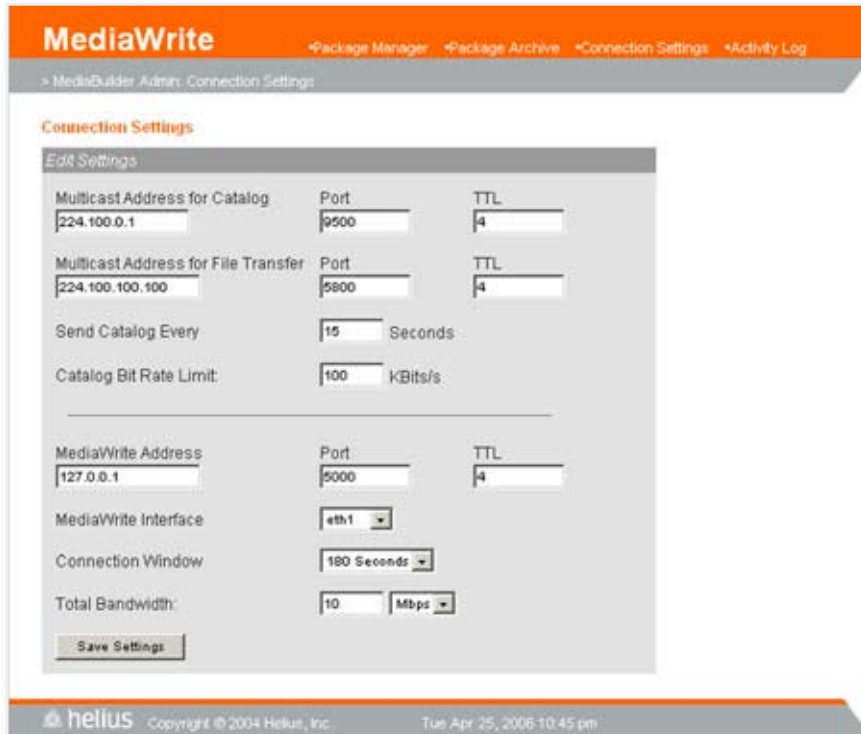
The screenshot shows the Helius Management Console interface. The main content area is titled "MediaGate Router" and includes a navigation bar with "Configuration", "Internet Test", "Generate Report", and "Router Status". Below the navigation bar, there are status indicators for "UP", "DOWN", and "N/A". The "Ethernet Interfaces" section contains a table with the following data:

Interface	Status	IP Addr	Broadcast	Mask
eth0	✓	192.168.0.1	192.168.255.255	255.255.0.0
eth0-0	✓	172.18.254.1	172.18.254.3	255.255.255.252
eth1	✓	172.17.0.1	172.17.255.255	255.255.0.0


Below the Ethernet Interfaces table, there is a section for "Daemons" with a table showing the status of various components:

Component	Running	Action	OnBoot
Authentication	✓	stop	☑

2. Verify the ethernet settings are correct.
3. Select **MediaWrite** > **MediaViewer Admin** > **Connection Settings**.



4. Verify the MediaWrite connection settings are correct.
If necessary compare catalog announcement address and interface information with the MediaGate Routers on the network to confirm they are correct on both devices.

 Once the network is established, it is helpful to confirm that the time settings are synced between the devices in order for MediaWrite to function properly.

Generate Report

It is recommended to confirm the Ethernet connection and print out a Generate Report file for future use.

Select [MediaGate Router](#) > [Configuration](#) > [Generate Report](#).

```
Generate Report

-----
*** Generate Report ***
# helius Tue Apr 25 22:48:55 GMT 2006
-----


*** Version and Patch Level ***
/root/BUILD_srv_2.8.3_2006-04-25
-----

*** HostName ***
gethostname()='helius.nodomain'
Resolving 'helius.nodomain' ...
Result: h_name='helius.nodomain'
Result: h_aliases='helius'
Result: h_addr_list='192.168.0.1'
helius.nodomain
-----

*** Patches ***
total 24
drwxr-xr-x  3 support  users      4096 Apr 25 17:05 .
drwxr-xr-x  7 support  users      4096 Apr 25 16:45 ..
drwxr-xr-x  2 root     root       4096 Apr 25 17:06 200604251705_CustomHW.norpm
-rw-r--r--  1 root     root       9796 Apr 25 16:45 CustomHW.norpm.tar.gz
-----

*** arp Table ***
? (192.168.0.3) at 00:90:27:10:06:28 [ether] on eth0
-----

*** Routing Table ***
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
172.16.254.0    0.0.0.0        255.255.255.252 U        0    0    0    eth0
172.17.0.0      0.0.0.0        255.255.0.0    U        0    0    0    eth1
172.17.0.0      0.0.0.0        255.255.0.0    U        0    0    0    ipsec0
192.168.0.0     0.0.0.0        255.255.0.0    U        0    0    0    eth0
```

 Generate Report contains MAC (hardware) addresses, IP addresses and other configuration details of the Server. SAVE or PRINT a copy of the results for future use and recordkeeping.

The graphical images on the Generate Report page will not be preserved. The saved report file will be text only.

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APPENDIX

SERVICES AND PROCESSES

Overview

This Appendix provides a list of services and processes available on the MediaGate Server. These can be accessed and enabled using the Helius Management Console. Some processes such as MediaWrite and MediaStream Server are for purchase and require licensing before they can be activated.

The following list of services and processes are started using the **MediaGate Router > Console > Configuration** page in the Helius Management Console. These display either in the Daemons table or the Miscellaneous section of this page. This appendix provides a brief description of each item and is not intended to be a complete coverage of each topic.

Daemons Table Options

Authorizations	Allows the server to distribute authorizations to the network.
DHCP	<p>The DHCP service allows DHCP clients to receive IP network configuration from the service. When the service is enabled, the default DHCP configuration will serve IP to any DHCP client.</p> <p>By default, DHCP will be configured to assign addresses within the first 250 addresses of the network defined in <i>Edit Interface Settings</i>, excluding the Router address.</p> <p>EXAMPLE: eth0 is defined as 172.16.0.1/255.255.0.0, the range will be 172.16.0.2 - 172.16.0.252.</p>
DNS	<p>DNS resolves hostnames to IP addresses. This service allows the Server to act as a DNS server, allowing the resolution of hostnames to IP addresses. If DNS is not used, or if the client configuration is incorrect, browsing functionality will be greatly reduced.</p> <p>The DNS service does not have any configuration options, however, the DNS Client is configured in the Miscellaneous section of the MediaGate Router > Console > Configuration page. Select the DNS Client link to open the configuration page.</p> <p>When Postfix is used for return email reporting, DNS should be enabled.</p>
FTP	Start the FTP service in order to use FTP to upload files to the server.
IPSec	<p>The IPSec service should be started for any Router or Server using the MediaLock feature. IPSec enables the Router or Server to deal with IP security tunnels. The IPSec service will not start if the default gateway is not defined.</p> <p>IPSec is an industry standard security solution used by MediaLock to create Virtual Private Networks.</p>

MediaLock	<p>MediaLock enables encryption over satellite. The MediaLock service enables the Router or Server to use the MediaLock functions of assigning routers, groups and data to appropriate tunnels.</p> <p>MediaLock must be licensed and configured before starting the service in the Daemons table of the Helius Management Console.</p>
MediaStream Server	<p>The MediaStream Server process should be started in order to use the streaming functions of the server. MediaStream Server is a purchase option and must be licensed to function.</p> <p>Selecting the MediaStream Server link in the Daemons table of the MediaGate Router > Console > Configuration page opens the MediaStream Server > Streams page.</p>
MediaWrite	<p>MediaWrite enables the MediaWrite Client Software. MediaWrite is a purchased option and must be licensed to function.</p> <p>MediaWrite software pushes data from the MediaGate Server to routers on the network. The service must be started on the MediaGate Server and all MediaGate Routers on the network that will need to receive packages from the server.</p>
Multicast Forwarding	<p>Multicast Forwarding is a tool that allows emulation of multicast clients in environments where no IGMP proxy is available.</p>
Postfix	<p>Postfix is a Linux system mail service that can be used by the MediaGate Server and Router.</p>
Samba	<p>The Samba service allows the Server to share files and directories with Microsoft Windows clients. Samba does not currently have configuration options.</p>
SAPgen	<p>Start this service to enable the ability to send session announcements.</p> <p>SAPgen needs to be enabled on the Server and the Routers on the network in order for the SAPs to be received.</p>
SNMP	<p>Simple Network Management Protocol (SNMP) is used to activate the ability to query devices on a network using third party SNMP management software.</p>

Squid	<p>The Squid service is a caching proxy server.</p> <p>If Transparent Cache in the Miscellaneous section of this page is not enabled, client machines must be configured properly to use the Squid proxy service.</p> <p>Squid access policies need to be defined. Please refer to Squid in the MediaGate Server Support Manual for more information.</p>
VA	<p>The VA service runs the video player on the Router for video playback and IP/DVB video display. This service is not used on the MediaGate Server. Verify that the OnBoot checkbox is deselected in the Daemons table on the Server. If there is a check in the OnBoot box, select the checkmark in order to remove it.</p>

Miscellaneous Options

DNS Client	<p>The DNS servers are used for name resolution. It is recommended that the default domain remain 127.0.0.1. This is the loopback address.</p> <p>Select the link or the EDIT button in MediaGate Router > Console > Configuration ↓ <i>Miscellaneous</i> to open the DNS Client configuration page.</p>
Route Config	<p>Add a static network route to the Server or Router.</p>
Firewall	<p>The Firewall service allows minimal firewall configuration. For more information, please refer to Firewall in the MediaGate Server Support Manual.</p>
NTop	<p>Ntop is a tool that allows monitoring of network traffic. Enabling Ntop Web starts a service that can be accessed through an Internet browser on a different port than the Helius Management Console.</p>
Transparent Cache	<p>Transparent proxy service. Enabling Transparent Cache allows the Server or Router to be used as a network gateway without having to enable any proxy settings in the local Internet browser.</p>
SiteAdmin	<p>Selecting this link or the the CHANGE button opens a change password page. This changes the password for the limited access siteadmin login.</p>



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