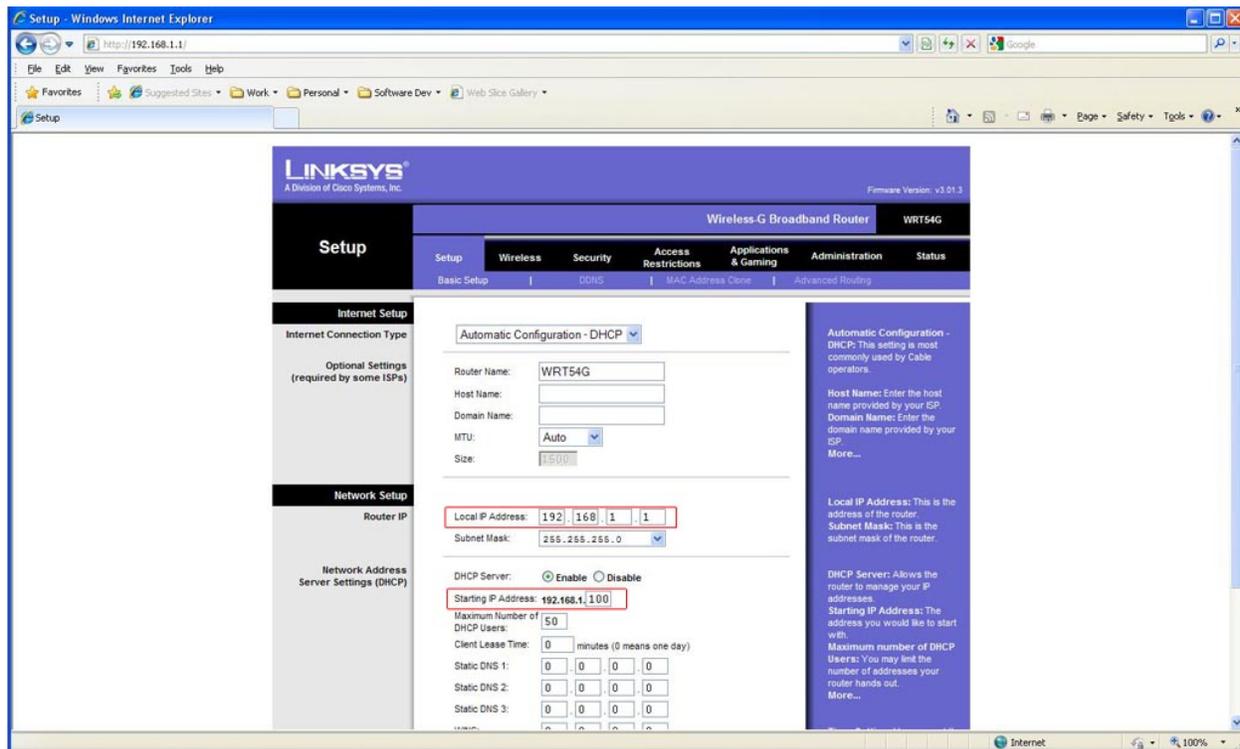# Controlling DL.3/DL.2 and Axon Media Servers with a grandMA console via Artnet

• In order for the DL.3/DL.2 and Axon media servers to communicate with the grandMA console via ArtNet, the servers must be in the same IP address range as the console, which in this case is 2.x.x.x. Because the DL.3/DL.2 and Axon servers do not have the ability to have statically assigned IP addresses a router with a DHCP server must be used to assign the 2.x.x.x range to the servers.
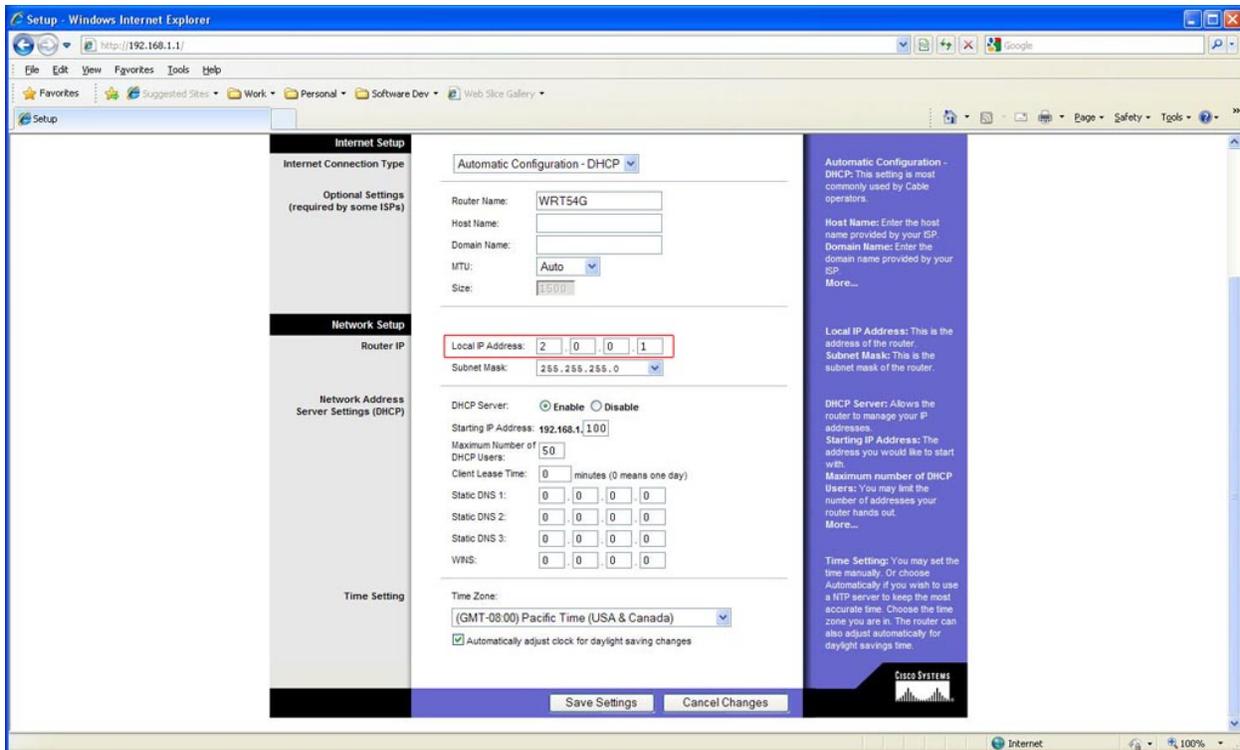
Setting up the Router

• Connect your router to a computer using an Ethernet cable. Using your web browser, navigate to the configuration screen for the router (see the router's user manual for details on doing this).
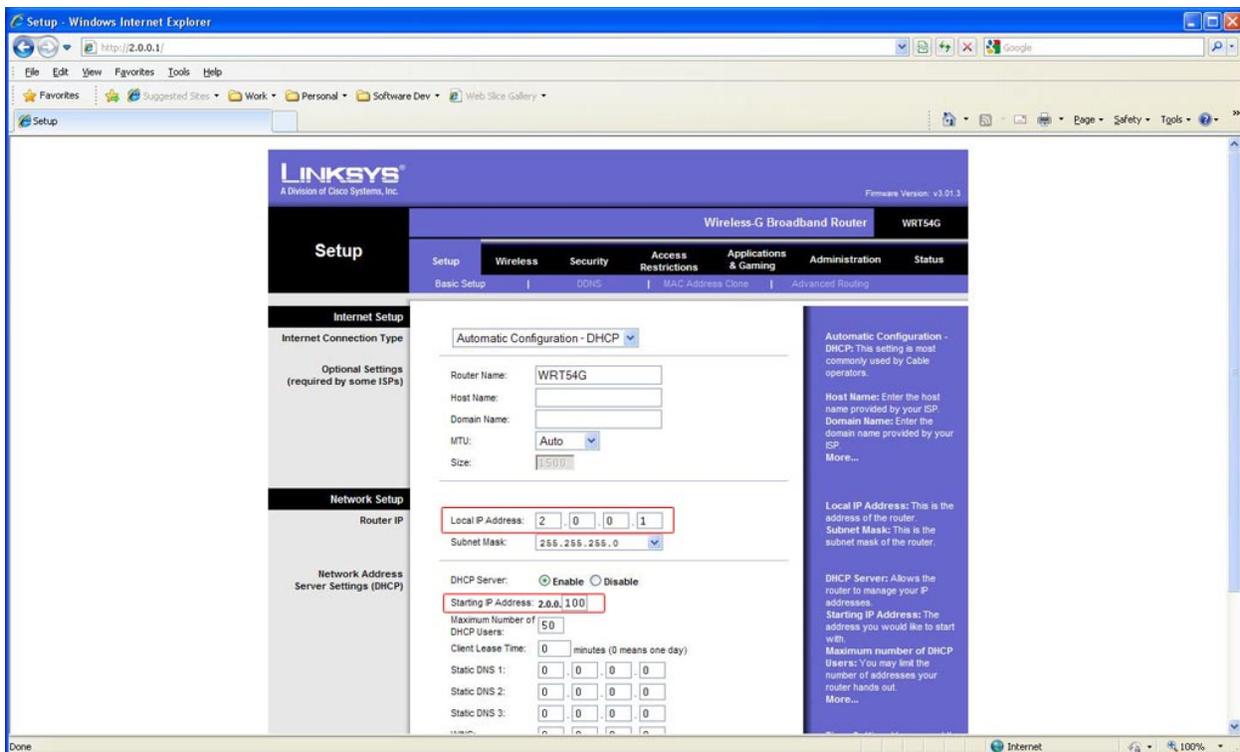
The example below is a Linksys WRT54G.

• As you can see here, the Local IP address of the router is 192.168.1.1 and the Starting IP Address range is 192.168.1.100. In order to change the IP address range, the Local IP Address of the router must be changed.

• Change the Local IP Address to 2.0.0.1 and click "Save Settings". The router will reset itself, and you will then have to re-login to the router using the new 2.0.0.1 IP address.

• After the router has rebooted, you will see that the Local IP address is now 2.0.0.1 and the Starting IP Address is now 2.0.0.100. The router will now assign IP addresses to the DL.3/DL.2 and Axon servers in the correct range to communicate with the grandMA console via ArtNet.

Hardware Connections

• Connect the grandMA, the DL.3/DL.2 or Axon, a PC running the content management application and the router previously set up to assign IP addresses in the 2.x.x.x range to an unmanaged switch.

Configuring the grandMA

• Press the 'Tools' key to open the Tools menu on the main screen. In this menu, press 'DMX Configuration'.

• If the grandMA is not networked to another console, make sure that "Enabled if Standalone" is turned on in the DMX Configuration Window.

• On the right-hand side, press the button, marked 'DMX Output via Ethernet.' Select the desired universe (1-64) , toggle the button in the 'Protocol' column so that it reads 'ARTNET.' Then, press the large button to the right (it will read either 'PROTOCOL NOT CONFIGURED!' or have letters or numbers representing the currently assigned sub-net and ID).

DMX Configuration

Ethernet Output

Universe	Protocol	Configuration
1	ARTNET	PROTOCOL NOT CONFIGURED!
2	NONE	
3	NONE	
4	NONE	
5	NONE	
6	NONE	
7	NONE	
8	NONE	

Menu

DMX Output ▶

DMX Input ▶

DMX Output via Ethernet ▷

WYSIWYG Config ▶

DMX via Ethernet

DMX-Output: On

Enabled if Standalone

• The Subnet and ID should be set to match the Subnet and Universe on the DL.3/DL.2. Once you have set the Subnet and
ID (located at the bottom of this screen), press the 'Save' button in the top-right, and close the menu. This will drop you back to the DMX Configuration Menu. Once again, save and close.

Source
Art-Net

Universe
1

Protocol
Standard

Fixture ID
1

Sta
Char

1

ArtNet DMX-Ethernet Configuration   SAVE   ✕

Output Slot	Available Nodes		
SUBNET/ID	Short Name	Long Name	Status

Scan for Nodes

Edit Node Properties

Activate 'Delayed Output', if ArtNet 'DMX-Hubs' are in use

Delayed Output

Legend:

Used by external Source

Used by internal Slot

Actual used by this Slot

Unused

Attention:
MA uses only Net 2.x.x.x for Aristic License Protocoll !

Parameters for Ethernet-DMX Output 'A'

SUBNET: F   ID: F

Current: F   F

• Access the MA Network Configuration from the Tools menu

• Make certain that the console's IP address is not within the 2.x.x.x range or set to 127.0.0.

MA Network - Consoles		Standalone	✕

Active Network Sessions

ID	Session Name	Showfile
	Unconnected	

Stations in Network Session

No.	Name	Status	IP
1	W364	Standalo	172.0.0.1(100)

Consoles

NSP

Video

NDP

2 Port

Remotes

My Station

IP-Address	172.0.0.1(100)
Name	W364
Prioritiy	Normal
Invitation	Enabled

My Session

ID	0
Name	
Password	
Style	Multiuser

Local Station

Start Session	Join Session	Leave Session

Remote Station

Invite Stations	Disconnect Stations