## 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.

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Internet Setup			1
Internet Connection Type	Automatic Configuration - DHCP 💌	Automatic Configuration - DHCP: This setting is most	
Optional Settings	Router Name: WRT54G	commonly used by Cable operators.	
(required by some lars)	Host Name:	Host Name: Enter the host	
	Domain Name:	name provided by your ISP. Dormain Name: Enter the	
	MTU: Auto 💌	domain name provided by your ISP	
	Size: 1500	Moreili	
Network Setup		and the second	
Router IP	Local IP Address: 2 0 0 1	Local IP Address: This is the address of the router.	
	Subnet Mask: 255.255.0	Subnet Mask: This is the subnet mask of the router.	
Network Address		(excepted with the party of the p	
Server Settings (DHCP)	DHCP Server:	DHCP Server: Allows the router to manage your IP	
	Starting IP Address: 192.168.1.100	addresses. Starting IP Address: The	
	DHCP Users: 50	address you would like to start with.	
	Client Lease Time: 0 minutes (0 means one day)	Maximum number of DHCP Users: You may limit the	
		number of addresses your router hands out.	
	Static DNS 3: 0 0 0 0	More	
	WINS: 0 0 0 0	Time Setting: You may set the	
		time manually. Or choose Automaticate if you wish to use	
Time Setting	Time Zone:	a NTP server to keep the most	
	(GMT-08:00) Pacific Time (USA & Canada)	zone you are in. The router can	
	Automatically adjust clock for daylight saving changes	daylight savings time.	
		CISCO SYSTEMS	
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• 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.

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LINKSYS	
A Division of Cisco Systems, Inc.	Firmuare Version, v3.01.3
	Wireless-G Broadband Router WRT54G
Setup	Access Applications Administration Status
	Setup Wireless Security Restrictions & Gaming Administration status
	basic belap bond whice Address Gone Advanced Address
Internet Setup	
Internet Connection Type	Automatic Configuration - DHCP  Automatic Configuration - DHCP: This setting is most
Optional Settings	Router Name: WRT54G operators.
(required by some (SPS)	Host Name: Host Name: Enter the host
	Domain Name: Domain Name: Enter the
	MTU: Auto Y
	Size: More
Notwork Paties	
Router IP	Local P Address: 2 0 0 1 address of the router.
	Subnet Mask: 255,255,25,0 V
Network Address Server Settings (DHCP)	DHCP Server:   Enable  Disable DHCP Server: Allows the router to manage your P
	Starting IP Address: 2.0.0 100 starting IP Address: The
	DHCP Users: 50 address you would like to start
	Clent Lease Time: 0 minutes (0 means one day) Maximum number of DHCP Basers, You may lead the
	Static DNS 1: 0 . 0 . 0 . 0 number of addresses your
	Static DNS 2: 0 0 0 0 0 More
	State DNS 3: 0 , 0 , 0 , 0
Done	

• 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).

	D	MX Configuration	SAV	E	X
Ethernet Outpu	ut Protocol	Configuration		M	lenu
1		PROTOCOL NOT CONFIGURED!		MX	Output 🕨
2	NONE			DMX	Input
3	NONE			мх	Output
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7 .	NONE				
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• 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.



	SAVE X	
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
	Attention: MA uses only Net 2.x.x.x for Aristic License Protocoll !	Used by internal Used by internal
	Parameters for Ethernet-DMX Output 'A'       SUBNET:     F       ID:     F       Current:     F	Unused

- 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
My Station	My Session	
IP-Address 172.0.0.1(100)	ID O	2 Port
Name W364	Name	
Prioritiy Normal	Password	
Invitation Enabled	Style Multiuser	Remotes
Local Station Start Join Lea Session Session Sess	Invite Stations Disconnect Stations	