

NetStream Diplo Quick Link Configuration Guide



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Note:

This technical guide is to help you with quick and easily configuration and link setup of NetStream Diplo. For detail configurations please read the user manual.



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Setup PC/Laptop and Logon:

To obtain contact between the PC and the NetStream Diplo unit, it is necessary to configure an IP address on the PC within the same subnet as the NetStream Diplo unit. The default NetStream Diplo IP address is 192.168.1.1. Set the PC address to e.g. 192.168.1.10 and subnet mask to 255.255.255.0.

Internet Protocol Version 4 (TCP/IPv4)	Properties	х
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports ask your network administrator	
Obtain an IP address automatical	ly	
• Use the following IP address:		
IP address:	192.168.1.10	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:		
Obtain DNS server address auton	natically	
• Use the following DNS server add	resses:	-
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	
	OK Cance	I

1. Locate the MNG port on the unit and connect your PC to this port with an Ethernet cable.





Important note:

NetStream Diplo is a carrier class device and as required by carrier industry the unit is not by default manageable via Eth1 or Eth2 port.

The unit by default DOES NOT respond to PING on Eth1 and Eth2 ports. Ping is only possible via MNG port by default.

If you are unable to ping, please do check the firewall is not blocking this service. Try pinging another laptop using nothing but an Ethernet cable in between and once you could ping the other laptop then try pining the unit when connected to Management Port.

- 2. Open an Internet browser (Internet Explorer or Mozilla Firefox).
- 3. Enter the default IP address "192.168.1.1" in the Address Bar. The Login page

Login
Login
User Name admin
Password •••••
Apply Clear

Note: If you are unable to ping, please do check the firewall is not blocking this service.

 The default credentials are below: Username: admin Password : admin



Activating Demo Mode:

You will be notified of the activation key violation. This means that you need to enter the required activation keys (licenses) for your link parameters like capacity, MRMC, 2nd Core activation, XPIC etc.

192.168.1.2 says:	×
The system is in software activation key violation state. A valid activation key cipher must be immediately installed. Please refer to the the 'Activation Key Configuration' and 'Activation Key Overview' web pages.	
ОК	

For now you can activate demo mode. Demo mode is available, which enables all features for 60 days. When demo mode expires, the most recent valid activation key goes into effect. The 60-day period is only counted when the system is powered up. 10 days before demo mode expires, an alarm is raised indicating that demo mode is about to expire.

To activate demo mode:

1 - Select Platform > Activation Key > Activation Key Configuration. The Activation Key Configuration page opens.

2 - In the Demo admin field, select Enable.

Important note:

Each unit has a limited number of hours for Demo licenses.

The Demo hours are calculated based the number of hours the unit has been powered on while the demo mode is enabled.

Please make sure the number of hours of demo activation are spent when you are actually using the unit for demonstration.

You can disable the demo mode when you are not using the features controlled by the demo mode and you can enable demo mode again at any time.



┠ Logout 💉 Connection 🧟 Admin	Activation Key Configuration	
Filter × Main View A Platform ▷ Management	The system is in software A valid activation key cip Please refer to the the 'A	e activation key violation state. her must be immediately installed. ctivation Key Configuration' and 'Activation Key Overview' web pages.
Software	Activation Key - Status Parame	ters
Configuration	Туре	Default
Activation Key	Validation number	0×0
Activation Key Configuration	Date code	NA
Activation Key Overview ▷ Security	Violation runtime counter (hours)	48
Faults	Sanction state	No
Radio		
Ethernet	Activation Key Configuration	
⊳ Sync	Activation Key Configuration	
 Quick Configuration Utilities 	Default Activation Key	
	Demo Mode Configuration Demo admin Demo timer (hours) Apply	

3 Click Apply.

B Logout ✓ Connection 2 Admin	Activation Key Configuration	
 ▼ Filter Main View > Platform > Faults > Radio > Ethernet > Sync > Quick Configuration > Utilities 	Activation Key - Status Parame Type Validation number Date code Violation runtime counter (hours) Sanction state	ters Demo 0x0 NA 48 No
	Activation Key Configuration Default Activation Key Demo Mode Configuration Demo admin Enable Demo timer (hours) 1430 Apply	

The Demo timer field displays the number of hours that remain before demo mode expires.



Changing the Management IP Address:

1. Select Platform > Management > Networking > Local. The Local Networking Configuration page opens.

🕞 Logout 💉 Connection 💈 Admin	Local Networking Conf	iguration	
✓ Filter × Main View Platform Management Unit Parameters	IP Family Configuration IP address Family IP Apply	on v4 ▼	
NTP Configuration Time Services Interface Manager Inventory Unit Info Reset Set to Factory Default Unit Redundancy ▲ Networking Local Remote	Description IP address Subnet mask Default gateway IPv6 Address IPv6 Prefix-Length Default Gateway IPv6 Apply	local-management-port 192.168.1.2 255.255.255.0 0.0.0.0 fec0::c0:a8:1:1 120 ::]]]](1128)

- 2. Optionally, in the Description field, enter descriptive information about the unit.
- 3. In the IP address field, enter an IP address for the unit. You can enter the address in IPv4 format in this field, and/or in IPv6 format in the IPv6 Address field. The unit will receive communications whether they are sent to its IPv4 address or its IPv6 address.
- 4. In the Subnet mask field, enter the subnet mask.
- 5. Optionally, in the Default gateway field, enter the default gateway address.
- 6. Click **Apply**.

Important note:

The Management IP Address is the only way the unit can be managed if the inbound management is not activated or a VALN switch with management VLAN is not available at site.

Please make sure you note down the management IP address you entered and make sure another colleague in your organization knows about it.

If management IP address is lost the recovery process should be taken which involves use of a special cable. For details please contact Netronics Support.

Netronics

Setting up a Quick PIPE:

Depending on your configuration type and device type, you can select the configuration. For this guide, we will use a simple configuration that is Single carrier 1+0.

To configure a 1+0 link using the Quick Configuration wizard:

1. Select Quick Configuration > PIPE > Multi Carrier ABC > 2+0.

┠ Logout 💉 Connection 💈 Admin	Main View						
▼ Filter ×	 Current Alarms 						
Main View	Time	Description		S	everity 🔺	Origin	
▶ Platform	19-02-2018 08:10:49	Radio loss of frame	9			Radio: Slot 2, P	ort 2 🔺
▷ Faults	19-02-2018 08:10:47	Radio loss of frame	9			Radio: Slot 2, P	ort 1
▶ Radio	19-02-2018 08:10:36	Loss of Carrier				Ethernet: Slot 1,	, Port 3
▶ Ethernet	19-02-2018 08:10:36	Loss of Carrier				Ethernet: Slot 1	, Port 2
Sync	19-02-2018 08:10:36	Loss of Carrier				Ethernet: Slot 1,	, Port 1
A Quick Configuration	19-02-2018 08:10:49	RFU RX level out o	of range		4	Radio: Slot 2, P	ort 2 👻
	 Most Severe Alarm S 	Statistics					
a PIPE	Origin 🔺	Severity	Critical Severity Count	Major Severity Count	Minor	Severity Count	Warning Severity Count
Single Carrier	Slot 1	A	0	3	1	0	1
A Multi Carrier ABC	Slot 2		2	0)	0	2
2+0		I					
Utilities							

Page 1 of the "Link Setup (PIPE) 2 + 0 Multi Carrier ABC" wizard opens.

┠ Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter × <u>Main View</u> ▷ Platform	Link Setup Progress 0%
 ▷ Faults ▷ Radio ▷ Ethernet 	Select one Ethernet and one radio interface. Then select the total number of radio interfaces in the ABC group and the PIPE type. The selected radio interface will be the first radio in the ABC group. In the next step(s) you will select the other interfaces.
 Sync Quick Configuration PIPE 	Interface Selection, 2 + 0 ABC Ethernet Interface Ethernet: Slot 1, Port 1 Create LAG
 Single Carrier Multi Carrier ABC 2 + 0 	Radio #1 interface Radio: Slot 2, Port 1 V Number of Radio interfaces 2
> Utilities	<< Back Next >> Finish

- 2. In the Radio Interface field, select a Radio interface. "Radio Slot 2, Port 1" in this case.
- 3. In PIPE Type select dot1q.
- 4. Click Next.



🖡 Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter ×	Link Satur Bragraga
Main View	
Platform	
Faults	(i) Select the second radio interface.
Radio	
Ethernet	Radio #2 selection, 2 + 0 ABC
▷ Sync	Padia #2 Interface Padia: Slat 2 Part 2
Quick Configuration	
▲ PIPE	<< Back Next >> Finish
Single Carrier	
Multi Carrier ABC	
<u>2 + 0</u>	
▷ Utilities	

- 5. Select the second radio chain. "Radio Slot 2, Port 1" in this case.
- 6. Click Next.

┠ Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter ×	Link Setup Progress 25%
Platform Faults Radio Ethornet	Select XPIC groups by checking the desired radio interfaces.
 Sync Quick Configuration PIPE Single Carrier 	Radio XPIC Configuration XPIC - Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2 << Back Next >> Finish
▲ Multi Carrier ABC 2 + 0	
▷ Utilities	

- 7. Check the XPIC check box.
- 8. Click Next.

┠ Logout 🖌 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter ×	Link Setup Progress 30%
 > Platform > Faults > Radio 	i Enter the radio parameters for the selected radio interfaces.
 Ethernet Sync Quick Configuration PIPE Single Carrier Multi Carrier ABC 2 ± 0 	Radio Parameters Configuration - XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2, 2 + 0 ABC TX Frequency (MHz) 24052.000 (24000.000 24080.000) RX Frequency (MHz) 24198.000 (24170.000 24250.000) TX Level (dBm) 0 • TX Mute On • •
▶ Utilities	<< Back Next >> Finish

- *9.* In the **TX Frequency (MHz)** field, set the transmission radio frequency in MHz. *Assign this frequency as the RX Frequency on the remote radio.*
- 10. In the **RX Frequency (MHz)** field, set the received radio frequency in MHz. Assign this frequency as the TX Frequency on the remote radio.



- 11. In the **TX Level (dBm)** field, enter the desired TX signal level (TSL). The range of values depends on the frequency and Product type.
- 12. To mute the TX output of the RFU, select **On** in the **TX mute** field. To unmute the TX output of the RFU, select **Off**.

13. Click Next.

🖡 Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter ×	Link Setup Progress 50%
Platform Faults Radio Ethorpot	(1) Select an MRMC script and profile for the selected radio interfaces
Eulerieu Sync Quick Configuration PIPE	Radio MRMC Script Configuration - XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2, 2 + 0 ABC Script ID Script: 1502, XPIC, BW:56 MHz, 0BW:53 MHz, 82.864-489.311 Mbps, XPIC, ETSI, ACCP Operational Mode Adaptive ▼
 Single Carrier Multi Carrier ABC 	Maximum profile Profile: 10, 2048 QAM, 489.311 Mbps ▼ Minimum profile Profile: 0, 4 QAM, 82.864 Mbps ▼
2 + 0 ▷ Utilities	<< Back Next >> Finish

14. In the **Script ID** field, select the MRMC script you want to assign to the radio.

Please note the choice of script specifies the Channel bandwidth and so it will affect the capacity achieved. For maximum capacity choose the script with maximum channel size. If you operate the unit in a network for which you have specific frequency license, then you will have to follow the requirements of your frequency license.

🕞 Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
▼ Filter × Main View	Link Setup Progress 50%
 Platform Faults Radio Ethernet Sync Quick Configuration PIPE Single Carrier 	Select an MRMC script and profile for the selected radio interfaces Radio MRMC Script Configuration - XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2, 2 + 0 ABC Script ID Script: 1502, XPIC, BW:56 MHz, OBW:53 MHz, 82.864-489.311 Mbps, XPIC, ETSI, ACCP Operational Mode Script: 1501, XPIC, BW:80 MHz, OBW:74.1 MHz, 114.326-672.601 Mbps, XPIC, ETSI+FCC, ACCP Maximum profile
▷ Single Carrier ▲ Multi Carrier ABC <u>2 + 0</u> Utility 2 + 0	Script: 1502, XPIC, BW:56 MHz, 0BW:53 MHz, 82.864-489.311 Mbps, XPIC, ETSI, ACCP Minimum profile Script: 1504, XPIC, BW:28 MHz, 0BW:26.5 MHz, 40.978-243.123 Mbps, XPIC, ETSI, ACCP <<
p duides	Script: 1505, XPIC, BW:28 MHz, OBW:28 MHz, 43.389-261.357 Mbps, XPIC, ETSI+FCC, ACAP Script: 1506, XPIC, BW:56 MHz, OBW:55.7 MHz, 87.122-529.505 Mbps, XPIC, ETSI+FCC, ACAP Script: 1507, XPIC, BW:40 MHz, OBW:37.4 MHz, 58.224-349.341 Mbps, XPIC, ETSI+FCC, ACCP Script: 1508, XPIC, BW:7 MHz, OBW:6.5 MHz, 9.547-55.151 Mbps, XPIC, ETSI, ACCP Script: 1509, XPIC, BW:14 MHz, OBW:13.3 MHz, 20.386-116.462 Mbps, XPIC, ETSI, ACCP
	Script: 1510, XPIC, BW:50 MHz, OBW:47.2 MHz, 70.683-445.020 Mbps, XPIC, FCC, ACCP Script: 1520, XPIC, BW:10 MHz, OBW:9.11 MHz, 13.535-78.319 Mbps, XPIC, FCC, ACAP Script: 1521, XPIC, BW:20 MHz, OBW:18.57 MHz, 28.520-165.740 Mbps, XPIC, FCC, ACAP Script: 1523, XPIC, BW:3.5 MHz, OBW:3.267 MHz, 4.582-20.344 Mbps, XPIC, ETSI+FCC, ACCP Script: 1525, XPIC, BW:25 MHz, OBW:23.4 MHz, 36.141-214.092 Mbps, XPIC, FCC, ACAP

15. In the **Operational Mode** field, select the ACM mode: **Adaptive**.

Note:



In most cases using Adaptive ACM mode provides maximum capacity and maximum stability of the link.

In special cases specified by a link design you may limit the radio to fixed mode to make sure the link works only if it can provide the required capacity and will disconnect if the environmental radio conditions are not suitable for the specified capacity. In most case you will not chose this mode.

16. Select the Maximum and Minimum profile.

Note:

In order to achieve maximum flexibility of the link for environmental radio conditions choose the highest modulation as Maximum and use the lowest modulation as minimum.

┠ Logout 💉 Connection 💈 Admin	Link Setup (PIPE) 2 + 0 Multi Carrier ABC
► Logout ✓ Connection ② Admin Filter ★ Main View Platform Faults Radio Ethernet Sync Quick Configuration a Quick Configuration a PIPE b Single Carrier a Multi Carrier ABC 2 ± 0 b Utilities	Link Setup (PIPE) 2 + 0 Multi Carrier ABC Link Setup Progress Story Select an MRMC script and profile for the selected radio interfaces Radio MRMC Script Configuration - XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2, 2 + 0 ABC Script ID Script: 1502, XPIC, BW:56 MHz, 0BW:53 MHz, 82.864-489.311 Mbps, XPIC, ETSI, ACCP Operational Mode Adaptive Maximum profile Profile: 10, 2048 QAM, 489.311 Mbps Minimum profile Profile: 0, 4 QAM, 82.864 Mbps event in the selected mathematical selection of the selection of th
	Profile: 3, 32 QAM, 219.082 Mbps Profile: 4, 64 QAM, 268.771 Mbps Profile: 5, 128 QAM, 324.634 Mbps Profile: 6, 256 QAM, 371.103 Mbps Profile: 7, 512 QAM, 402.861 Mbps Profile: 8, 1024 QAM, 437.995 Mbps Profile: 9, 1024 QAM, 464.855 Mbps Profile: 10, 2048 QAM, 489.311 Mbps

17. Click Finish.

Ir Logout ✓ Connection	Link Setup (PIPE) 2 +	0 Multi Carrier ABC	
▼ Filter × Main View	Link Setup Progress	75%	
 Platform Faults ▶ Radio 	i) To configure In If you choose	Band management, choose 'Yes' Yes', you will need to select a Management VLAN.	
 ▷ Ethernet ▷ Sync 	Management Configu	uration, 2 + 0 ABC	
Quick Configuration PIPE Single Carrier	In Band Management Management VLAN	2 T	
▲ Multi Carrier ABC	In Band includes I	Ethernet interface	
2 + 0 ▷ Utilities	<< Back Next >>	Finish	

18. In the **In Band Management** field, select **Yes** to configure in-band management. If you select **Yes**, the **Management VLAN** field appears.



Note:

Selecting **Yes** is required if you want to manage the unit using the Eth1 and Eth2 ports or from a remote site in a network and along with the actual link traffic.

Select **No** only if you want to limit the management of unit to the physical connect only to the Management port of the unit.

19. If you selected **Yes** in the **In Band Management** field, select the management VLAN in the **Management VLAN** field.

Note:

After selecting the In Band management and selecting the VLAN, the unit can be managed only if it is connected to a VLAN aware switch with the VLAN defined on the port to which the radio is connected.

This will not affect possibility of managing the unit via Management port. The unit will still be manageable via Management port.

- 20. If you want to use the Ethernet interface as well as the radio interface for in-band management, select **In Band includes Ethernet interface**.
- 21. Click Finish.



This page displays the parameters you have selected for the link.

22. Click Submit.





You will see message confirming successful completion of the wizard.

Repeat this on the second unit while SWAPPING the Tx and Rx frequencies.



Unmuting the Radios:

At this point the link setup is done but link is not established. This is because we have muted the radios.

	Radio Parameters								
ſ	 Radio Parameters Table 								
	Radio location 🔺	Туре	TX Frequency	RX Frequency	Operational TX Level (dBm)	RX Level (dBm)	Modem MSE	Defective Blocks	TX Mute Status
l	Radio: Slot 2, Port 1	RFU-N-DC	24236.000	24014.000	0	-93	-99.00	0	On
L	Radio: Slot 2, Port 2	RFU-N-DC	24236.000	24014.000	0	-93	-99.00	10777	On
l	Edit								

To unmute the radios so that the radio are able to transmit, follow the steps below.

- 1. Click on the Radio Slot2, Port 1. Once highlighted, click on Edit.
- 2. A window will open up. Select the **Tx Mute** to **Off**.

🗋 Radio Parameters - Google Chrome		– 🗆 X
③ 192.168.1.2/responder.fcgi1?wi	nid=174&deviceid=0&w	insystemname=rf-status
Status Decemeters		
Status Parameters	Padia: Slat 2, Part 1	1
Type]
VBIC support	KFU-N-DC]
Redia Interface operational status	Tes]
Constituent and the status	Down]
Operational TX Level (dBm)	0]
RX Level (dBm)	-93]
Modem MSE (dB)	-99.00	
Modem XPI (dB)	99.00	
Defective Blocks	0	
TX Mute Status	On	
Adaptive TX power operational status	Down	
Frequency control (Local)		
TX Frequency (MHz)	24236.000	(24170.00024250.000)
RX Frequency (MHz)	24014.000	(24000.00024080.000)
TX to RX frequency separation (MHz)	222.000]
Set also remote unit		
Configuration Parameters		
TX Level (dBm)	0	(-200)
TX mute	Off 🔻	
RSL Connector Source	PHY1 V	
Link Id	1	(165535)
Adaptive TX power admin	Disable •	
Apply		
Page Refresh Interval (Seconds) None	 Last Loaded 	08:45:31 Refresh Close



3. Click on apply and the Radio Mute status will be update to Off. In this mode the radio will start transmitting. Do this for both side radios of the link.

Radio Parameters										
Radio location 🔺	Туре	TX Frequency	RX Frequency	Operational TX Level (dBm)	RX Level (dBm)	Modem MSE	Defective Blocks	TX Mute Status		
Radio: Slot 2, Port 1	RFU-N-DC	24236.000	24014.000	0	-36	-43.18	0	Off		
Radio: Slot 2, Port 2	RFU-N-DC	24236.000	24014.000	0	-85	-99.00	10777	On		
Edit										

Your radio is now transmitting.

4. Repeat Step 1-3 with Radio Slot2, Port 2.

Repeat this process on the second unit by choosing same exact parameters and SWAPPING the TX and RX frequencies.

If you finished the steps on the second radio, at this stage you should be able to see Rx Level of -50 dbm or more on each radio and the link should get established on both radio chains.



After configuring the second unit position the units vertically using a part of the foam coming in the units package as shown in the picture below.



At this stage you should be able to see the received signal of each unit on the other unit.

Please note this setup is ideal for bench testing the units while the radiator fins are vertical and the ports are available on the top side for testing. The unit can be operated at proper temperature for long time.

Please note this setup is not ideal for testing link capacity as the radio conditions are not what they should be in an actual link installed in the filed on the antenna.

For more detailed information on installation of the link please refer to **NetStream Diplo Installation Guide** available on Netronics knowledge base section of the website.

If you need further assistance, please contact us on support@netronics-networks.com



Enabling Management via Ethernet Port:

At this point your link is established. Now if you connect your LAN cable to the Ethernet port from laptop, you might not be able to ping the radio. This is because Management VLAN 1 is set on the radio.

┠ Logout 🗹 Connection 🖉 Admin	Ethernet Services						
▼ Filter ×	 Ethernet Servi 	ces					
Main View	Service	Service Type	Service sub type	EVC ID	EVC description		Admin
Platform		000	Ethernet	N.A.	N A		Operational
Faults	257	P2P MNG	Ethernet	MNG	N.A.		Operational
Radio	237	MINO	Ethemet	mitto			operational
▲ Ethernet	Add Edit D	elete Service De	ails Service Points				
General Configuration							
Services	Multiple Select	on Operation	7				
Interfaces	Admin Deserve	on operation					
PM & Statistics	Admin Reserv	ed V Apply					
⊳ QOS							
Protocols							
┠ Logout 💉 Connection 🧟 Admin	Ethernet Service	e Points (Service	ID - 257)				
▼ Filter ×	< Back to	Services table					
Main View							
Platform	Select Service	e Point Attribute					
▷ Faults	General						
▷ Radio	Ingress						
▲ Ethernet							
General Configuration	Egress	- in Drink Co	and CD Attributes				
Services	Ethemet Se	ervice Points - Ge	neral SP Auribules	-+	Attacked	0.1//	0.1//
Interfaces		Service point	name Service poil	Interface location	interface type	encapsulation	encapsulation
PM & Statistics		I N.A.	MNG	Radio: Slot 2, Port 1	dot1a	1	N.A.
▶ QOS		2 N.A.	MNG	Ethernet: Slot 1, Po	rt 1 dot1g	1	N.A.
Protocols							
▷ Sync	Add Edit	Delete Attache	d VLAN				
Quick Configuration							
▶ Utilities							
17							

If you wish to continue like this, then set the PC/laptop NIC to VLAN 1 or use a VLAN aware switch with VLAN 1 activated on the port connected to the unit. You will be able to ping the radio. Or come from a switch port which is set to VLAN 1.

If you do not wish to set the management VLAN, then you will need to remove the Management service and set a new management service which Untagged C-VLAN.

1. Set a service point for Management for Ethernet interface.



Logout ✓ Connection 🕏 Admin	Ethernet Service Points (Service ID - 257)	r						
▼ Filter ×			Ethernet Service Points	- Google Chrome 🛛 —		×		
Main View	Back to Services table		(i) 192.168.1.2/respond	der.fcai1?winid=289&devic	eid=0&w	/in		
▷ Platform	Select Service Point Attribute		Ethernet Censies Deinte	Add (Management Convice)				
▷ Faults	General		Ethernet Service Points	Add (Management Service)				
▷ Radio	Ingress		Pre defined options	Option #1 (MNG, dot1q) V				
Ethernet	Faress							
General Configuration	 Egross Ethernet Service Points - General SP Attribute 	es	Service ID	257				
Services	Service point Service point name Ser	rvice poir	Service point ID	1 🔻				S-Vlan
Interfaces DM 8. Chatietics	ID A Service point name type	e	Service point name	N.A.			on	encapsulation
> PM & Statistics			Service point type	MNG 🔻				
Protocols	Add Edit Delete Attached VLAN							
▷ Sync			General SP Attributes					
Quick Configuration			Interface location	Ethernet: Slot 1, Port 1 V				
Utilities			Attached interface type	dot1q ▼				
			C-Vlan encapsulation	Untagged V				
			S-Vlan encapsulation	N.A. 🔻				
			Ingress Attributes					
			Learning admin	Enable V				
			Allow flooding	Allow v				
			Allow broadcast	Allow V				
			CoS Mode	Interface-Decision v				
			Default CoS	0 🔻				
			Egress Attributes					
			C-Vlan CoS preservation	Enable •				
			C-Vlan preservation	Disable 🔻				
			S-Vlan CoS preservation	Enable v				
			Marking admin	Enable V				
			Service bundle ID	1 •				
			Apply					
				Last Loaded: 08:50:15 Ref	resh C	lose		
					ق التند			

2. Set a service point for Management for Radio interface.

	1	🗋 Ethernet Service Points	- Google Chrome 🛛 —	\Box \times		
I Logout ✓ Connection	Ethernet Service Points (Service ID - 257)	① 192.168.1.2/respond	ler.fcgi1?winid=289&device	eid=0&win		
▼ Filter ×	Back to Services table	Ethornot Sonvice Points	Add (Management Service)			
Main View	Soloct Sonvice Point Attribute	Ethemet Service Points -	Add (Management Service)			
> Platform	Select Service Folint Attribute	Pre defined options	Option #1 (MNG, dot1q) ¥			
> Faults	General					
> Raulo	Ingress	Service ID	257			
General Configuration	Egress	Service point ID	2 🔻			
Services	Ethernet Service Points - General SP A	Service point name	N.A.			
▷ Interfaces	Service point Service point name	Service point type	MNG v		C-Vlan encapsulation	S-Vlan encapsulation
PM & Statistics	✓ 1 N.A.				Untagged	N.A.
⊳ QOS		General SP Attributes				
Protocols	Add Edit Delete Attached VLAN	Interface location	Radio: Slot 2, Port 1 🔹			
▷ Sync		Attached interface type	dot1q 🔻			
Quick Configuration		C-Vlan encapsulation	Untagged V			
▷ Utilities		S-Vlan encapsulation	N.A. V			
		Ingress Attributes				
		Learning admin	Enable 🔻			
		Allow flooding	Allow v			
		Allow broadcast	Allow v			
		CoS Mode	Interface-Decision V			
		Default CoS	0 •			
		Egress Attributes				
		C-Vlan CoS preservation	Enable v			
		C-Vlan preservation	Disable 🔻			
		S-Vlan CoS preservation	Enable V			
		Marking admin	Enable •			
		Service bundle ID	1 •			
		Apply				
			Last Loaded: 08:51:30 Ref	resh Close		



3. The service points status will be as below.

🖡 Logout 💉 Connection 💈 Admin	Ethernet Service P	oints (Service ID - 257)						
▼ Filter ×	< Back to Ser	vices table						
Main View								
Platform	Select Service Po	oint Attribute						
Faults	General							
Radio	Ingress							
▲ Ethernet								
General Configuration	Egress	U Egress						
Services	▼ Ethernet Servic	e Points - General SP A	ttributes					
Interfaces	■ Service point	Service point name	Service point type	Interface location	Attached interface type	C-Vlan encapsulation	S-Vlan encapsulation	
PM & Statistics	1	N.A.	MNG	Ethernet: Slot 1, Port 1	dot1g	Untagged	N.A.	
▶ QOS	2	N.A.	MNG	Radio: Slot 2, Port 1	dot1q	Untagged	N.A.	
Protocols		·						
▷ Sync	Add Edit De	lete Attached VLAN						
Quick Configuration								
Utilities								

4. Make sure the Ethernet ports are operational. You check and configure them in Interface Manager.

┠ Logout 🖌 Connection 🧟 Admin	Interface Manager			
▼ Filter ×	▼ Interface Manager			
Main View	☐ Interface location ▲	MAC address	Admin status	Operational Status
▲ Platform	Ethernet: Slot 1, Port 1	80:86:98:97:10:63	Up	Down
▲ Management	Ethernet: Slot 1, Port 2	80:86:98:97:10:64	Up	Down
Unit Parameters	Ethernet: Slot 1, Port 3	80:86:98:97:10:65	Up	Down
NTP Configuration	Radio: Slot 2, Port 1	80:86:98:97:10:66	Up	Up
Time Services	Radio: Slot 2, Port 2	80:86:98:97:10:67	Up	Down
Interface Manager	Edit			
Inventory				
Unit Info				
Reset	Multiple Selection Operation			
Set to Factory Default	Admin status Up Apply			
Unit Redundancy				
Networking				

Now if you connect the radio to your laptop via Ethernet/PoE port, you will be able to ping the radio and the remote radio.