Inspextor PoE Commissioning Guide

This guide will help walk you through the commissioning set-up of the PoE Switches, Core Switch, Inspextor system and Wall Switch. It will also provide several frequent troubleshooting questions.

Initial Set-Up:

Before going to the field, make sure to have the WiFi Name and password for the jobsite. Once the laptop is connected to the WIFI network, we can begin the commissioning process.

Setting up the Network using the Router, Inspextor and a stack of Lantronix/Cisco Switches.

- Power on the router and connect one Rj45 cable to the LAN port of the router (LAN port is any port except the yellow port on router, this is reserved for WAN port)
- 2. Take one cable from the LAN port of the router and connect it to the back of Inspextor. In the back side of Inspextor you will find 4 –RJ45 ports. You can use any one port to connect this cable.
- 3. Take one more cable from the LAN port from the router and connect it to the 25th port of first Lantronix switch in the stack. If it's not open you can use any other ports on the Lantronix switch.

Setting up the Network using the Core Switch, Inspextor and a stack of Lantronix/Cisco Switches.

- The core switch is generally the topmost switch in the stack. As of now, we are only using Cisco switches and Mikrotik switches as a core switch. If you are unsure which one is the core switch just ask for MHT engineers or refer to Project drawings.
- 2. Take one cable from the core switch and connect it to the back of Inspextor. You can use any port between those 4 ports on Inspextor. Take one more cable from core switch and connect it to the rest of the stack. Remember, this cable will go to the first switch on the 25th port of the stack.
- 3. There should be one more cable which will go to back side of Inspextor. This cable should stand for internet cable which is for remote access. If you are unsure please coordinate with MHT engineers. Typically the installer will install this cable.

Lantronix Switch Set-Up:

To properly configure each Lantronix switch connected in a stack, follow these stepby-step instructions. Ensure each switch is isolated by disconnecting uplink cables during configuration.

Note: Uplink cables are jumper cables linking switches together, connected to the 25th and 26th ports of the Lantronix switch.

- All Lantronix switches have a default IP of 192.168.1.77
- To set-up each Lantronix switch in the stack, you have to use your own Belkin router. Note that our Belkin router should be under 192.168.1.0 network.

Step 1: Setting up the Belkin router as 192.168.1.0 network

- Connect your laptop to Belkin. Open your browser and type the IP 192.168.1.1
- After this you will get router setting page. Go to LAN settings do exact same configuration shown below:

belkin.5 Password-bewe328e Show: 240e 850	C8 Olisconnected	
← Back to Dashboard Local Network Se	t ttings Connected Devices	
IP Address 192 168 Subnet Mask 255 255 DHCP Server © On O Off IP Pool Starting Addre 192 168 IP Pool Ending Addre 192 168 Lease Time Forever v	1 1 255 0 ess 1 20 55 1 240 000fons0	What do LAN Settings control? This page helps you set up new connections, allows you to turn onloff DHCP and allows you to set the IP address of the router on your local network.

Step 2: Connect your Belkin router to the Lantronix switch

- When connecting your Belkin to one of the Lantronix switches, double check to make sure that switch is not connected to any other switches.
- Unplug all uplink cables and then connect your Belkin router.

Note: Prior to connecting your Belkin to the Lantronix switch, make sure the uplink cable is disconnected from the Lantronix switch. Uplink cables are used to connect the Lantronix switches to one another.

Step 3: Access the Lantronix Switch

- Each Lantronix switch has a default IP address: 192.168.1.77.
- Open a web browser and enter 192.168.1.77 to access the Lantronix login page.
- Use the following credentials: Username: admin | Password: admin.
- Change the password and set a new IP address based on your network requirements.

LANTRON	IX [®]
Username Password	
Login	

Step 4: Change Power Settings

- Navigate to Configuration \rightarrow System \rightarrow Power Information.
- Change the operating mode from "Redundant" to "Boost."
- Apply the changes and save the configuration.

			Auto-Legout 10 min V H Q C
SM24TBT2DPB	Power Information		B Home > Configuration > Power Information
Switch DMS	Auto-refresh		
🖨 Configuration 🛛 🗸	Power	A	В
> System ~	Detected PSU	PSU-HV	PSU-HV
> Power Information	Power Good	Good	Good
> IP	Power Input(AC/DC)	AC	AC
> NTP	Power Input Voltage (V)	209	211
> Time > Log	FAN Speed (RPM)	2903	7038
» Green Ethernet <	Temperature (Degree C)	51	39
» Ports Configuration <	Operating Mode	Boost V	
» DHCP <			
» Security <	Apply Reset		
» Aggregation <			
> Loop Protection			

SV2418120FA	x +			- 0
← → Ø ▲ Not	secure 192.168.1.77/pwminfa.htm		外交論	🛎 G 🏚 🖷 📳
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SM24TBT2DPA	Power Information			Avona - configuration - reventionation
Switch DMS	Auto-refresh			
O Configuration v	Power		в	
3 System <	Detected PSU	PSU 820	PSU-820	
≫ Green Ethernet <	Power Good	Good	Good	
> DHCP (FAM Sneed (DPM)	8870	8867	
> Security c	Temperature (Degree C)	31	28	
> Aggregation <	Operation Made	and the second s		
> Loop Protection	opriant inte			
> IPHC Profile (Apply Sour			
) HVR				
⇒ IPHC c				
⇒ LLDP <				
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> HAC Table				
> VLANS				
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3 005				
> Mirroring				
> UPnP				
> GIRP <				
> sFlow				
> Rapid King				
1. SMTP				

Step 5: Configure POE Settings

- Go to Configuration \rightarrow POE \rightarrow Configuration.
- Set POE Mode to "4pair90W" and Priority to "high."
- Apply the changes and save the configuration.

SM24TBT2DPB	Power	r Over Ethernet Co	nfiguration		🛍 Hom	e > Configuration > PoE > Configuration						
Switch DMS												
Configuration ~	PoE Po	ower Supply Configura	tion									
» System < » Green Ethernet <	Primar	Primary Power Supply [W] 2160										
» Ports Configuration < » DHCP <	PoE Po	ort Configuration										
» Security <	Port	PoE Mode	PoE Schedule	Priority	LLDP	Legacy						
 » Aggregation < > Loop Protection 	*		 ✓ 		◇ v							
» Spanning Tree < >> IPMC Profile <	1	4pair90w 🗸	Disabled 🗸	High 🗸	Enabled 🗸	Disabled 🗸						
> MVR	2	4pair90w 🗸	Disabled 🐱	High 🗸	Enabled 👻	Disabled 🗸						
» IPMC <	3	4pair90w 🗸	Disabled V	High 🗸	Enabled 🛩	Disabled 🗸						
» PoE 🗸 🗸	4	4pair90w 🗸	Disabled 🗸	High 🗸	Enabled 🗸	Disabled 🗸						
Configuration Power Delay	5	4pair90w 👻	Disabled 🗸	High 🗸	Enabled 🗸	Disabled 🖌						
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Step 6: Assign a Unique IP Address:

• Navigate to Configuration \rightarrow System \rightarrow IP. (Figure 1)

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SM24TBT2DPA	IP Co	nfigural	tion									Configuration > System				
Switch DMS	Mode				Host 👻	Hot V										
Configuration	DNS Se	erver			Continued	w										
lystem	×															
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	ID lots	edacor														
NTP	11- 1114	erroces														
ime	DHCP	Per Port														
£	Mode			Disable	1 4											
en Ethernet	C IP															
orts Configuration																
				IPv4 DHCP			IPv4			IPv6						
egation	Delete		VLAN	Enable	Fallback	Current Lease	Address		Mask Length	Address		Mask Length				
p Protection							102.166.1.78		24							
nning Tree	c			-												
PMC Profile	Add lots	-tece														
R	Link.L	or al Adde	ess bioding	Interface			Lanes and									
MC DR	c Link Li	ocar Paran	Can benoning	and the co			10411									
6	IP Ros	utes														
AC Table																
NS	Delete		Network			Mask Length		Gateway			Next Hop VLAN					
te VLANs	<	0.0.0			0		192.168.1.25	4		0						
L	< .			169.254.0.0		16		192.168.1.77			0					
foice VLAN	¢			192.168.1.0		24		192.168.1.77			0					
* Qo5	<					1770										

- Change the IP address from 192.168.1.77 to a new IP, e.g., 192.168.0.5.
- Add a route for the new IP and apply the changes. (Note: After applying changes, you will lose access to the Lantronix page since the IP changed from 192.168.1.77 to 192.168.0.5)

Configuration	~	Node		Hait v														
a System		Configured V 0.6.0.5																
> information		DNS Proxy																
Power Information																		
5-17		IP Interfaces	Pinnerlaces															
> NTP		DHCP Per Por	ORCP Par Port															
> 102		Node		Dis	allel - Y													
> Green Ethernet		IP																
> Ports Configuration	4																	
a DHCP	4			IPv4.0	HOP						IPM				IPv6			
 Aggregation 	è	Delete	VLAN	Enable		fallback	0	errent Leas		Γ	Address		Mask Length		Address		Mask	Length
 Loop Protection Second at Tree 			5								290.586.8.5 24							
PHIC Profile	÷.	Addition																
> MW																		
> IPHC	¢	Unk-Local Add	tress binding in	terface						W.A	AN 3 M							
> LLDP	4																	
a Paf	×	IP Routes																
 MACTABLE VUVIS 		Delete		Network					Nask Length			Gateway	r			Next Hop VLA	4	
9 Private VLANA				0.0.0.0					0			192.168.3	1.254			0		
a vol.	<			168,254,0.0					18			192,168.3	1.77			0		
a Voice VLAN	۲.	162,168,1.0 24						24			192,160.3	1.77			0			
> QuS																		
> UPpP		10.0.00 [2] [25,159.0.2] [0]																
a SARP		Additionals																
> shipy	Г	Apply Read																
 Rapid Ring 	_ L									_	~							

Step 7: Save Configuration and Switch to New IP

- Disconnect the router from the 25th port (which was under the 192.168.1.0/24 network)
- Connect the TP-Link router cable back to the first Lantronix switch on the 25th port
- Connect your laptop to the TP-Link router
- Open a web browser and type in the new IP address 192.168.0.5
- The Lantronix login page with the new IP address should be visible
- Login using the following credentials: username: admin/password: admin
- Save the configuration as shown below. Once saved, you have successfully configured the first transition switch connected in the stack.

LANTRONI <mark>X</mark> '	= LANTRONIX"	C	AntoLogout 10 min V 💾 😡 🕞
SM24TBT2DPA	System Information		🚛 Hanna > Monitar > System > Softemation
Switch DMS			
O Configuration	Model Name	SM24TBT2DPA	
• • • • • • • • • •	System Description	Managed Switch, 24-port Glgabit PoE++, 2-port SFP/RJ-45 Combo	
🖽 Monitor 🗸 🗸	Location		
> System ∨ > information	Contact		
> IP Status	System Name	SM24TBT2DPA	
> Log	System Date	2011-01-01T20:21:42+00:00	
> Detailed Log	System Uptime	20:21:42	
⇒ Green Ethernet <	Bootloader Version	v1.15f	
⇒ Ports <	Firmware Version	VB6.54.3576 2020-09-18	
⇒ DHCP <	PoE Firmware Version	208-352	
≫ Security c ≫ Aggregation c	Hardware Version	v1.02	

Step 8: Configure Additional Lantronix Switches

- Disconnect two uplink cables from Lantronix Switch #2 (Located on the 25th and 26th port)
- Once those cables are disconnected, take the cable from the router and connect it to the same Lantronix Switch on port 25.
- Enter 192.168.1.77 into your browser
- Login into the 2nd Lantronix switch using the following credentials: **Username:** admin/Password: password
- Once you've successfully logged in, repeat the steps for power settings, POE settings, and IP address configuration as outlined above.
- Follow the same steps for each additional switch in the stack.

Step 9: Final notes regarding IP Addresses for switches

- For a stack of three switches the IP addresses would be as follows:
 - Switch 1: 192.168.0.5
 - Switch 2: 192.168.0.6
 - o Switch 3: 192.168.0.7

Congratulations! You have successfully configured each Lantronix switch in the stack following the provided instructions.

Cisco Switch Set-Up

If you are using stack of cisco switches, here is the configuration for them.

Use the following configuration for each Cisco switch (Ask MHT engineers whether they are using a core switch for the job or not). If they have core switch installed on jobsite, the configuration is different and will be outlined in the next section.

For all other non-core Cisco switches, please use the below configuration instructions:

- 1. To configure the switch you will need (Blue color) console cable. Ask MHT engineers for this console cable.
- 2. Connect blue color console cable, to the back side of the switch and other end to your laptop. In the back side of the cisco switch, one of the cable will be labeled as "console". Connect your cable into that specific port open.
- 3. Open Tera-Term application. Go to "setup-->serial port" and do the settings as shown below.

Tera Term: Serial port setu	up and connect	ion	×
Port:		\sim	New open
Speed:	9600	~	
Data:	8 bit	\sim	Cancel
Parity:	none	\sim	
Stop bits:	1 bit	\sim	Неір
Flow control:	none	\sim	
Transr 0	nit delay msec/cha	r O	msec/line

- 4. Press enter and start typing the following commands into the terminal (after each command type enter which will take you to the next line where you can enter next command)
 - Enable
 - Pmi2017
 - Config t
 - Interface range gigabitethernet 1/0/1-23
 - Switchport mode access
 - Power inline port perpetual-poe-ha
 - Power inline port 2-event
 - Power inline port poe-ha
 - Spanning-tree portfast
 - Spaning-tree bpduguard enable
 - Do wr
 - Exit
 - Interface gigabitethernet 1/0/24 (uplink port, This port can vary, look for the uplink port and do this configuration over there)
 - Switchport mode access
 - Power inline port perpetual-poe-ha
 - Power inline port 2-event
 - Power inline port poe-ha
 - Do wr
 - Exit
 - Exit

Core Switch Configuration

If the core switch is installed, it will be topmost switch in the stack. The Core switch will distribute the lps to all of the other switches. Remember to configure each Cisco switch you will need console cable, connect your console cable and open your tera-term application and do the same settings mentioned above.

As soon as you will see black color terminal page. Perform the following configuration

for core switch:

- Enable
- Config T
- Ip dhcp pool INX_POE
- Network 10.10.0.0 255.255.248.0
- Default-router 10.10.0.1
- Do wr
- Ip dhcp excluded-address 10.10.0.1 10.10.0.20
- Do wr
- Exit

Note: every letter in the command is lowercase. Talk with MHT engineers if you are unsure about switch configurations.

Programming a Wall Switch

To program the wall switch, hold the "OFF button" until you see a green LED appear on the wall switch. Once you see the green LED appear, press the "up/down dim button" to control any one of the drivers.

Note: You only need to program the wall switch if you intend to control only one luminaire port. If this is not a requirement, programming is not necessary.

Commissioning the Inspextor System

The following are the common steps for the commissioning Process. Please repeat the following steps for commissioning any type of new Jobsite.

Prior to commissioning any project, please make sure that your laptop and Inspextor are connected to the same network. Additionally, you will need to have your local lp of Inspextor available.

Inspextor Login:

Prior to beginning, If you are using your own router to setup the network, then go to your router setting page, there you can see the Inspector ip under "connected devices"

Step 1: Accessing Inspextor

- As soon as your laptop is connected to given network, open your browser and type local lp of inspeXtor. It will redirect to login page as shown below:
 - (Login using "sadmin" and "password")



Step 2: Support Tab Navigation

• Once logged into the Insextor page, Locate the Support Tab on the left-handside of the page.

$\leftarrow \rightarrow - G$	A Not secure 192.168.1.48/invs/launa	chpad.php	୬୧୦ ବେଟିବେନ ପାରେ 🔍 🗝
inspeXtor	Your license expires i	n 532 days	00 A ۲
Controls	-		Pie chart 🔹 Hourly 👻 10 AM 👻 🖄 May 13, 2022 - 🖸
Settings		kWh Consumption	Occupancy
Shade		IL/nessigned 23%	form Max Ormania
RGBW	2 】	Kwh Seving 7/%	Space Not Occupied
Steinel	- 💌 🧹		
lvari			
Heers Management	× 1	All 💌 All selected	- kWh - Hourly - 10 AM - 😁 May 13, 2022 - 🖂
Configuration			
Support	· ·		
Commisioning	*		

• Next, click on the Support Tab then select "Restore to Default"

inspeXtor		Your license expires in 532 days	s Ý 🕡
Users Management		ult	
Configuration	-		
Support	^		
Help Ticket	•	Are you sure want to restore	
Restore to Default	0	Yes No	
Q/A	?		
Health Monitor	~		
Terminal	>_		
Search Fixture a	٩		
Alert Definition	4		
Commisioning	~		

• Press the button "restore to default" and press "yes", after this you will redirected to the main dashboard page.

Step 3: Setting the IP addresses:

- Go to the "Configuration" tab and press the "Inspextor settings" option.
- Next, fill in the correct Inspextor IP addresses. (Please confirm with MHT engineers if you are unsure of the correct addresses)
- Set "last status update time" to 1 hour.
- Finally, be sure to press "apply all" and "save all"
- Refer to the below pictures for reference.

inspeXtor	Your license expires in 532 days	۵ م ۲
Control:	V NGS	
Settings	ngs	
Shade	× 15	Current Local inspextor Time : 05-13-2022 10:13:57
RGBW	~	Local Interface # 3 : 122.100.140 10.100.00
Steinel	SS) Apply	Set TimeZone Auto Discovery
Ivari	SS) Apply	
Users Management		Event Padiraction Cattings Broadcast
Configuration		Event realiser in settings broadcast
Inspextor Setting	CC Save All Apply All	Urr
Support	v	Cloud Data Backup Last Status Update Time
Commisioning	- II	Apply
Management		Last backup: 16/09/2021 01:00 19 AM

	inspeXtor	Your license expires in 532 days		s t 🕡
	INSPEXTOR SETTINGS			
	Network Settings		Current Local inspeXtor Time : 05-13-2022 10:13:57	
	BROADCAST IP ADDRESS 10.10.7.255		Local interface IP's : 192.168.1.48 10.10.0.65	
	TFTP SERVER (IP ADDRESS) 10.10.0.65		Apply Set TimeZone Auto Discovery	
	NTP SERVER (IP ADDRESS) 10.10.0.65		Acity	_
× <	LOCAL INSPEXTOR (IP ADDRES 10.10.0.65	s) Save All Apply All	Apply Event Redirection Settings Broadcast OFF OFF OFF	st
		V	Cloud Data Backup Last Status Update T	Time
			Last backup: 16/09/2021 01:00:19 AM	Apply

Step 4: Importing Pull Schedules

• On the left side of the dashboard, select the "commissioning" tab and select "pull schedules".

inspeXtor		Your license expires in 532 days	s 🕁 🥘
- Shade			
RGBW	~	Download Template	Cluster Mapping DISABLED
Steinel	~	2 Actual nodes / 0 in Pull schedule	
Ivani	✓ ies		
Users Management	•	CREATED ACTION	
Configuration	~	No data available in table	
Support	entrie	es	< >
Commisioning	^		
Cluster	0		
Flash	+		
Pull Schedules	*		
Management	v rights	is reserved.	Privacy Policy

• We can import our pull schedule using the "import schedule" button as shown below:

	≡ inspeXtor	Your license expires in 532 days	s t 🕡
· · ·	PULL SCHEDULES		
~	Import schedule	Download Template	Cluster Mapping DISABLED
•	<u>^</u>	2 Actual nodes / 0 in Pull schedule	
~	Show 10 entries		
×	FILENAME	CREATED ACTION	
~		No data available in table	
~	Showing 0 to 0 of 0 entries		< >
^			
0			
+			
*			
~	Copyright © 2022 inspeXtor. All rights n	served.	Privacy Policy

- Once completed, you will be asked to select one out of two options. Replace the current mapping or add to a current mapping. Please select the most appropriate option.
- If you are uploading an entirely new pull schedule, select replace current mapping and select import button. This option is always preferable.

 If you want to add a pull schedule to a current mapping then please select add to current mapping (if you are using this option, please consult with MHT's engineers prior to moving forward)

Refer the following picture for reference:

	≡ inspeXtor wour to	Pull schedule upload	۵ 🧟
		File Name : clusterMap (5).xlsx .	
	FOLL SCHEDOLES	Import Action Select One *	
•	Import schedule	Import Close	Cluster Mapping DISABLED
Ŷ	Show 10 entries	Select One	
•	FILENAME	Replace current mapping	ACTION
		Add to current mapping	
+		No data available in table	
۰	Danies Statistics		< >
+	showing o to u or u entries		
0;			
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	Consider & Williams March Heider annual		
10	Copyright to Jacz Inspector. All rights reserved.		Privacy P

Important! After importing the pull schedule, please don't forget to enable "cluster mapping" option. (Which is on the right top corner).

Step 5: Autodiscovery

- Once cluster mapping Is enabled, please go to "Configuration-->Inspextor Settings" tab again.
- In the support page you will find a red color button which will say "Auto Discovery".
- Hit the autodiscovery button once and you are all set. This is the last step of commissioning,. Please wait approximately 30 minutes and the platform should be operating correctly.

	≡ inspeXtor	Your license expires in 532 days		s t 🕡
~	INSPEXTOR SETTINGS			
~	Network Settings		Current Local inspeXto	r Time : 05-13-2022 10:24:53
~	BROADCAST IP ADDRESS 10.10.7.255		Local interface IP's	: 192.168.1.48 10.10.0.65
~	TFTP SERVER (IP ADDRESS) 10.10.0.65	Apply	Set TimeZone	Auto Discovery
~	NTP SERVER (IP ADDRESS) 10.10.0.65	Apply		
~	LOCAL INSPECTOR (IP ADDRESS) 10.10.0.65	Apply	Event Redirection	Settings Broadcast
oţ		Save All Apply All	OFF	OFF
-			Cloud Data Backup	Last Status Update Time
~			Last backup	1 hour(s)
~			16/09/2021 01:00:19 AM	

Autotune Fixtures:

If you have autotune fixtures on the project, you must first enable the autotune feature on the node.

inspeXtor	Your lic	ense expires in 532 days			? A 🐠
Dashboard	•				
Controls	· ·	All Clusters All Fixtures	All Parameters		+ New Setting
Settings	<u>^</u>	COMMAND	PARAM VALUE	UPDATED BY	ACTION
Hardware	0 ⁶	Motion Disable	3	Dummy on 2 days ago	/ =
Parameters	05	Motion Enable	33	Dummy on 2 days ago	
Node Settings	c ;	Auto Tune Enable	100	Dummy on 24 days ago	× =
Shade	×	Auto Tune Enable	100	Dummy on 24 days ago	× •
RGBW	V	Auto Tune Disable	101	Dummy on 25 days ago	/ =
Steinel	×	Motion Disable	3	Dummy on 25 days ago	
Ivani	rds 6				Previous 1 Next
Users Management					
Configuration	rights reserved.				Privacy Poli

Ste	p 1: Login	to Ins	pextor and	go to	Settings	\rightarrow	Parameter	page
-----	------------	--------	------------	-------	----------	---------------	-----------	------

Step 2: At the top right , select "new settings"

inspeXtor	Your licens	e expires in 532 days			? Q 🐠
Dashboard					
Controls	· · ·	All Clusters All Fixtures	All Parameters		+ New Setting
Settings		COMMAND	PARAM VALUE	UPDATED BY	ACTION
Hardware	0°	Motion Disable	3	Dummy on 2 days ago	/ 0
Parameters	0 5	Motion Enable	33	Dummy on 2 days ago	× •
Node Settings	Q \$	Auto Tune Enable	100	Dummy on 24 days ago	× =
Shade	×	Auto Tune Enable	100	Dummy on 24 days ago	
RGBW	× 1	Auto Tune Disable	101	Dummy on 25 days ago	/ =
Steinel	×	Motion Disable	3	Dummy on 25 days ago	
Ivani	rds 6				Previous 1 Next
Users Management	~				
Configuration	rights reserved.				Privacy Polis

Step 3: Select the appropriate cluster and serial number of the node where autotune fixture is installed and select "lock settings".

=	inspeXtor	Your license expires in 532 days	s † 🕡
•	NODE PARAMS		
•	All	All Clusters All Fixtures All Parameters	+ New Setting
^	TARGET	Send Command	ACTION
o ;	OS9914 in test	Which Cluster or Node parameter you want to alter ?	
*	OS9914 in test	Cluster • test(2) • ND-18004 •	/ 0
•	DR227506 in test	Which command you want to send ?	
~	WS17506 in test	Auto Tune Ena 💌	/ 0
~	All devices in test 2	Lock Settings	/ 0
~	All devices in test 2	Motion Disable 3 Dummy on 25 days ago	/ 0
~	Showing page 1 of 1,total records	s	Previous 1 Next
~			

You can disable the autotune by simply selecting the autotune disable button from the list.

Common Troubleshooting Resolutions:

Scenario 1: Lights and Wall Switches are not working.

- Go to each room and confirm the wall switches and lights are operational.
- Check the functionality (whether all lights in the room are going off or not). If not, we have to start troubleshooting.
- To make all lights turn off in one of the rooms, we have to ensure that all serial numbers are present under the respective cluster.
- Then only Wall switches can turn off all lights.

Solution:

- Check the node which is not going off. Grab the IP and serial numbers from the node.
- Check if this serial number appeared on Inspextor or not. You can check this by going to the "cluster" page inside Inspextor.
- To do this, login into Inspextor and go to the left hand side of the page, where you will find the "commissioning" Tab.
- Underneath this you will find "Cluster". Here under the respective clusters you can check if your serial numbers exist.
- Check under unassigned cluster. If you do not see respective serial numbers on cluster page, then follow the following procedure for troubleshooting.

How to grab serial number and lp from node:

- You should have "tera term" application installed on your laptop. Refer to MHT's documentation to find instructions on who to setup this application.
- Once tera term is open, plug your tera-term cable into the control port of the node.
- Press Ctrl+C and start typing for command
- To get the ip from node type "show_ip" and To get the serial numbers from node type "get_sn" / you can also look at serial number labels.
- Note down serial number, IP and Location of the node which you will be using for cluster. For example, if node 10863 is sitting in 101 room with ip (10.10.0.69) then you will write location/cluster name as unit 101.
- Once you will have this information, login into Inspextor and go to support-->terminal Page



 Click on terminal and fill out the top four boxes as follows and send "command to node"

REQUEST TYPE GET	NODES Select	• OR IP • 10.10.0.69	TYPE OF FIXTURE network	
Results:		J Set	nd Command To Node	
Read 10.10.0.69:1: ARG ,0, mode=1 Command sent to No Broadcast permissi	inx,network::1 odeTEST inx,network,,10.10.6 ion has been acquired	0.69		
Token created is 1 2020/2020/2020/ Respon 1@<@@wae@duuidx3 check point 2,3,2 \$\$\$\$\$\$\$\$res Type regult=0	1 nse received 60000006 00000000000000000000000000000	₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	0.10.0.69dmdnsjAddDNSNamedemacq04:91:62:5f:6	4:33deadt≅deadrj10.10.0.69dednsk192.168.1.1cdnsk192.1ℓ
response received Here err=0 { e:	is: (null),238			
(ma md en	id: 88688886 000000000000000000000000000000	•••••••••••••••••		
ea ed dn ta	br: 10.10.0.69 lns: 192.168.1.1 ls: 192.168.1.1 ls: 192.68 g: 51 p: 10.10.0.68			
se in	rialnum: 10863 xip: 10.10.0.68			

- Verify highlighted information is correct or not. Remember we have to make sure threethings here, Tag, Serialnum and inxip
- If the node is not on Inspextor, then to make it appeared on Inspextor node should have zero tag in the beginning.
- Serial number should be the same which you have noted down in your notes.
- Make sure you have correct inxip. You can verify this IP using configuration-->Inspextor settings page--> look at highlighted information for correct inxip

=	inspeXtor	Your license expires in 354 days			s † 颁
*	INSPEXTOR SETTINGS				
~	Network Settings			Current Local inspeXtor	Time : 05-11-2022 12:30:16
~	BROADCAST IP ADDRESS 10.10.7.255			Local interface IP's	: 10.10.0.68 92.168.1.2
*	TFTP SERVER (IP ADDRESS) 10.10.0.68		Apply	Set TimeZone	Auto Discovery
~	NTP SERVER (IP ADDRESS) 10:10.0.68		Apply		
~	LOCAL INSPEXTOR (JP ADDRES 10.10.0.68	(5)	Apply	Event Redirection	Settings Broadcast
~		Save All Apply All		OFF	OFF
~				Cloud Data Backup	Last Status Update Time
o(;				ENABLED	1 hour(s)
				Last backup: 16/09/2021 01:00:19 AM	
					1.11.11.11.12

• If the tag is not zero, make it zero using the following configuration:

	inspeXtor 😽	our license expires in 354 days					r A 🐠
	Type a cluster name & press enter	REQUEST TYPE PUT •	NODES Select •	OR IP 10.10.0.69	TYPE OF FIXTURE network		
~	 Showroam(8) 2*2_1086 	CONTEXT tag	QUERY Enter quer	y here	DATA TYPE String	• 0	
×	AT_14997(c1_10433(4)			<i>⊲</i> s	and Command To Node		
•	dl_10816(4)	Results: Read 10.10.0.69:2:inx,networ ARG tag,5,0 NTP arms, 1650059088	k::1				
C	<pre>p = r_10550(4) p = sq_14505(4) p = sq_14505(4)</pre>	mode=2 \$as\$ctaga0 FFFFFA1635FFFFFA163746167 Broadcast permission has bee	6130 n acquired				
7	Stabon1(1)	Token created is 1 2020222222222222222222222222222222222					
~		result=0 Command sent to Node					
~							
٩							

• If the Inspextor IP is incorrect, you can correct it by using the following configuration:

	inspeXtor	four license expires in 354 days			
~	Type a cluster name & press enter	REQUEST TYPE NODES OR IP TYPE OF FOXTURE PUT • Select • 10.10.0.69 network •			
×	 Showroom(8) 2*2 1086 	CONTEXT QUERY DATA TYPE DATA inxip Enter query here String • 10.10.68			
< 0 0 ~ b 1 d 4 >	Image: Second	<pre>Control to Hode Faction Factor Factor</pre>			

• After you finish with all the steps, wait for the system to refresh and check the cluster page to see if the node has appeared or not. If the node still does not appear, please contact MHT.

Very Important:

If you are changing the node anywhere on jobsite, be sure to document all the serial numbers and locations of each node. Also, update the same in pull schedule and delete the old node entry from the pull schedule and make a new one for the new node.

Troubleshooting the Node.

- If the IP of the node is zero, this may be an indication the PoE cable is bad. Take a working node and test it with the cable that was being used on the node that was reading zero.
- If the Node is not turning on, trying connecting a working node to test the cable and port. If that node does light, then most likely the cause is a bad node.
- If both luminaire ports are off, you can use remote control and hit the "Light ON" button or you can plug wall switch inside node and press the "on" button. If it is still not turning onthen reboot the node and if it still does not work, then the issue is most likely a bad luminaire port.

inspeXtor		Your license expires in 354 days	۵ م ه
Dashboard			
Sustainability (Beta)	~	Please select a target	
Controls	^	All 🔹 All Clusters 💌 All Fixtures 👻	
Custom Control	Please select from the following commands		
Custom Control	2	Light ON	
Floor Plan	•	Light OFF	
Remote Control		Select Dim Level	
Lighting Policy	+	50	
Settings		Scene 1	
Shade		Scene 2	
RGBW	~	Scene 3	
Steinel	-	4000	

If you are trying to control the lights using "remote control" and you see only one luminaire port is going off, please try the following solutions:

- Check if the autotune is enabled on the node. First, locate the IP from the node then login to Inspextor → go to Support → Terminal page
 For example, if you want to check autotune is enabled/disabled on the
- For example, if you want to check autotune is enabled/disabled on the node (15651), take the IP (10.10.0.108) and enter the information into the terminal as shown below:

6	≡ inspeXtor	Your license expires in 532 days	s 🕈 🕡
	Type a cluster name & press enter Unassigned(1) Resi-Node(0) test(0) test 2 (0) test 4 (0) Test(1) ND-15651(REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST TYPE REQUEST REGUEST REGUE	*110.10.0.1
		edd:: 00.100.100.100 edd:: 10.100.100 edd:: 102.163.1.1 dfd:: 102.163.1.1 nfb:: 10.100.6.5 tag:: 10.44 infb000:: 0 edd:: 10.100.000 infb000:: 10.100.000	

- Looking at the highlighted part, if you see autotune value as "0", this means autotune is disabled and you should be able to control both luminaire ports.
 If it is not zero, make the value zero using the following configuration:
- If it is not zero, make the value zero using the following configuration:

	inspeXtor	Your license expires in 53	? days					? A 🐠
~	Type a cluster name & press ente	C REQUEST TYPE PUT	▼ NODES Select	•	or ip 10.10.0.108	TYPE OF FIXTURE network •		
	 Resi-Node(0) test(0) test 2 (0) test 4 (0) 	autotune		QUERY Enter qu	ery hare	DATA TYPE String Command To Node		DATA 0
2	 test1(1) Image: Window Wi	Results: Read 10.10.0.16 ARG .0, mode=1 Command sent to Broadcast permi	Results: Read 10.10.0.108:1::inx,network::1 A0G.0.0, mode=1 Command sent to NodeTEST inx,network,10.10.0.100 Broadcast permission has been acquired					
		Token created 3 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	S 1 ponse received dx\$800808086 ⊕⊕⊕⊕€ ,2 ype 2 Res Code 69 >>> ed is: (null),241	••••••	••••••••••••••••••••••••••••••••••••••	dmadt⊞dmadrk10.10.0.108dmdnsjAdd	DNSNamedenacq	ge8:eb:1b:cb:1e:f3deadt⊠deadrk10,10,0.10

• After changing the autotune value to zero, if you still cannot control both drivers, then node is most likely bad.

Finally, if you are trying to control the lights using a "Wall Switch" and it is only controlling one of the drivers, this may be a result of a programming issue with the wall switch.

You can re-program the wall switch again by pressing the "OFF" button until you see green light on WS, as soon as you see green light, you can immediately press the "ON" button and you should be able to control both outputs now, if not, try to change out the node or WS.