

Outline of Commissioning Process

- Instance Activation- Activate your instance, Update customer info etc.
- Configuration of inspeXtor Ips
- Discovery of Node Drivers- Auto discovery, Update pull schedule & Enable cluster Mapping.
- Configuration Templates and its Mapping.
- Control Clusters/individual Nodes
- Apply hardware Policy settings
- Create/ edit Lighting Policy.

Find out Local IP of inspeXtor

InspeXtor Obtained its IP address from DHCP server once connected to network

Or

We can statically assign IP address to inspeXtor server as per clients network requirements

Instance Activation

Activate this instance

CONTRACT ID

INSTANCE ID

INSTANCE PASSWORD

IS THIS A RESIDENCE OR A BUSINESS

NAME OF BUSINESS / PERSON

LOCATION

PHONE

- To activate the instance, collect Instance ID and Password from MHT engineers.
- Select your Type of Use
- Update your Name/Business Name
- Update your address
- Update Your phone number and activate your instance
- After Instance activation, verify that all data and settings has been erased.

InspeXtor Setting Page

Network Settings

COMMUNICATION METHOD
Unicast Save

CORE NODE COMMUNICATION PROTOCOL
Coap Apply

Coap Apply
MQTTS / HTTPS

NTP SERVER (IP ADDRESS)
192.168.2.215 Apply

LOCAL AIDA (IP ADDRESS)
192.168.2.215 Apply

DOMAIN OVERRIDE (DO NOT INCLUDE HTTP:// OR HTTPS://)
192.168.2.215 Apply

Save All Apply All

- Default Values will get displayed here.
- Select Communication method as unicast or broadcast according to your network design
- Select Core Node communication protocol as Coap or MQTTS/HTTPS as per your choice
- Enter your Local/TFTP /NTP Ips according to your network

Auto discovery

Go to Management → Auto discovery

Input IP Range for Node drivers connected in network and Perform Auto discovery

Auto Discovery

START IP ADDRESS: 10.10.0.1 STOP IP ADDRESS: 10.10.0.254 APPLY MODE: Clear data **Start** Reload Clear tag

Test State : **COMPLETED** Last Update : 01-10-2023 06:41:48 Total units connected : 14

100%

SHOW 25 ENTRIES SEARCH:

IPADDRESS	CONNECTED	DESCRIPTION	LASTUPDATE
10.10.0.121	Yes	Created tag(s) and sent to node and peripherals, SN: 15130	01-10-2023 06:40:44
10.10.0.101	Yes	Created tag(s) and sent to node and peripherals, SN: 15328	01-10-2023 06:40:36
10.10.0.100	Yes	Created tag(s) and sent to node and peripherals, SN: 19007	01-10-2023 06:40:36

Management

- Instant Setup
- Auto Discovery**
- Log
- Debug Log

Pull Schedule



It is Map of all Node Drivers connected in POE network.



We can download Pull schedule Template from software

Pull Schedule

PULL SCHEDULES

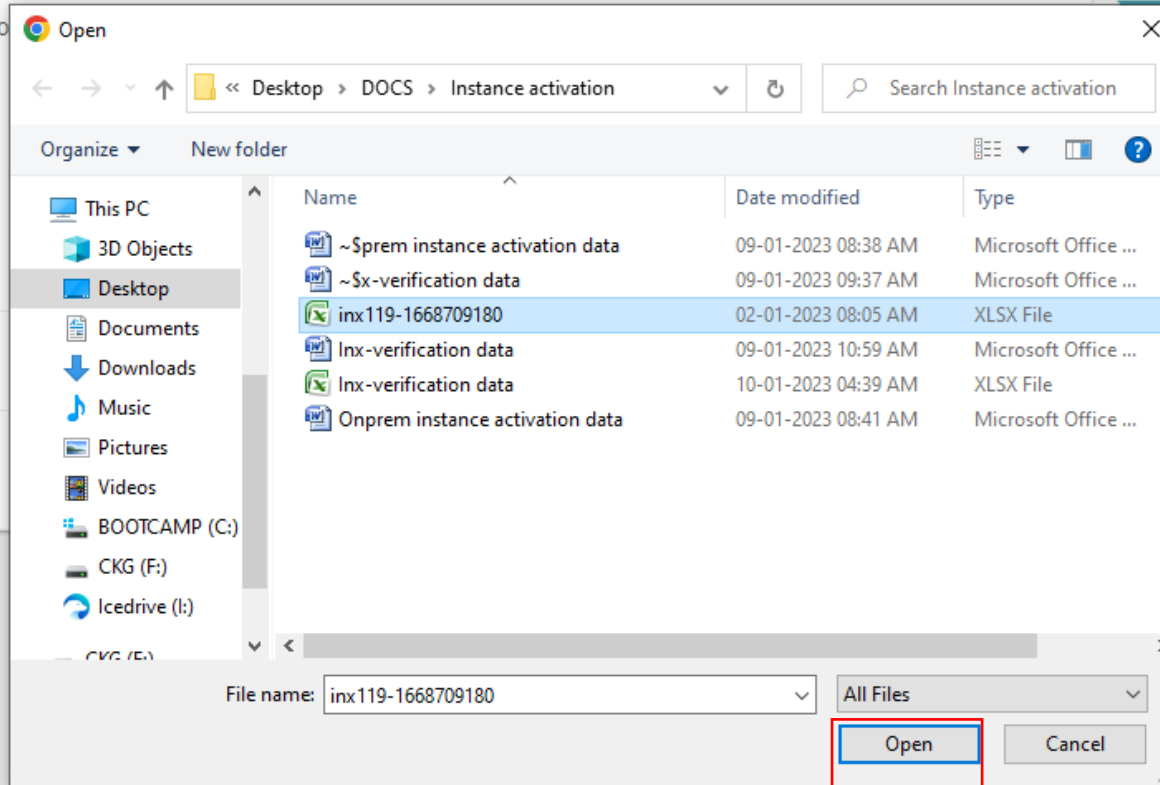
Import schedule

Show 10 entries

FILENAME

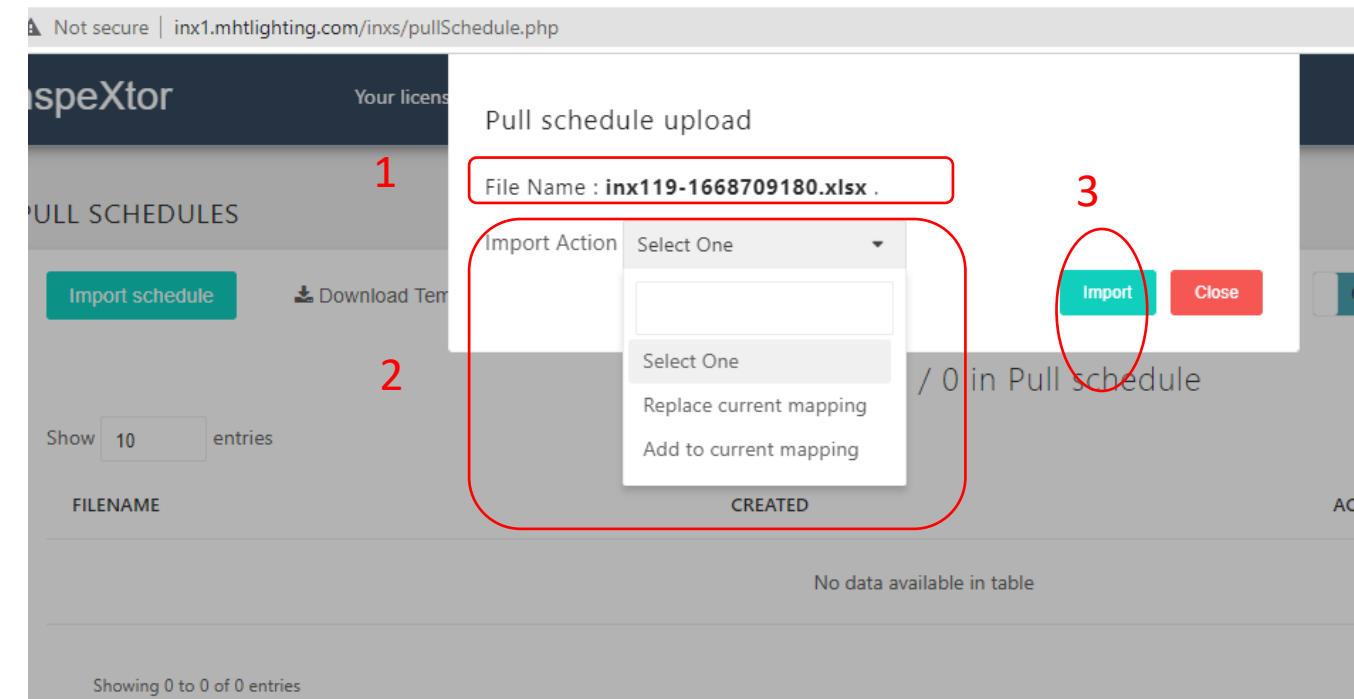
Showing 0 to 0 of 0 entries

Download



- Upload Pull schedule File using Import schedule button
- Select pull schedule file from your local computer and click on open as shown in diagram

Pull Schedule



1. Pull schedule upload completed

2. Select from Import action dropdown: Replace/add

->Replace current mapping: to clear any active cluster in the instance and load data from uploaded pull schedule file.

->Add to current mapping: keep existing cluster and load data from uploaded pull schedule file.

3. Click import





Pull Schedule

PULL SCHEDULES

[Import schedule](#) [Download Template](#) Lock Node Count OFF Cluster Mapping DISABLED

14 Actual nodes / 0 in Pull schedule

Show entries

FILENAME	CREATED	ACTION
inx119-1668709180-1673344337.xlsx	a few seconds ago	   

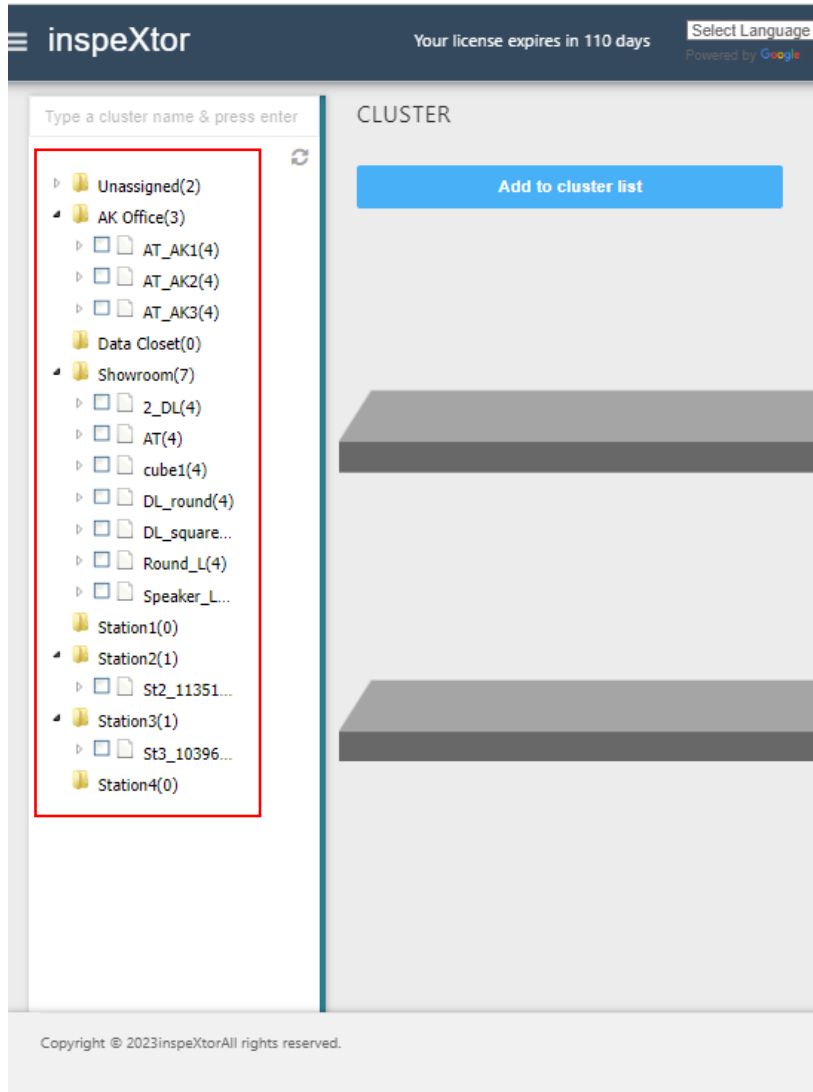
Showing 1 to 1 of 1 entries

click the eye icon to see Pull schedule data

After Pull schedule upload, it is important to enable cluster mapping.

After successful import file will be listed as below. Check file data is correct. (click the eye icon)

Verification of Clusters



1. Go to Cluster menu under commissioning.
2. Check all clusters are created and nodes are mapped under each cluster. (it takes 10 – 15 mts to show nodes in the cluster)
3. If nodes are not created properly, please contact support team

Configuration Templates and Its Mapping

- Create a configuration template to configure Node parameters correctly
- Once configuration templates are created, map it to its corresponding cluster

**ITS VERY IMP TO APPLY ALL & SAVE ALL INSPEXTOR IPS THROUGH INSPEXTOR SETTING PAGE
AFTER NODE CONFIGURATION MAPPING IS FINISHED.**

Core Node Config Template

Section 1: Template Name

Template Name ?

Input Template name as per your naming convention.

Section 2: Fixture Type and Rating

Fixture Type and Rating ?

TYPE
CC ▼

POWER (W) CURRENT (A) VOLTAGE (V)

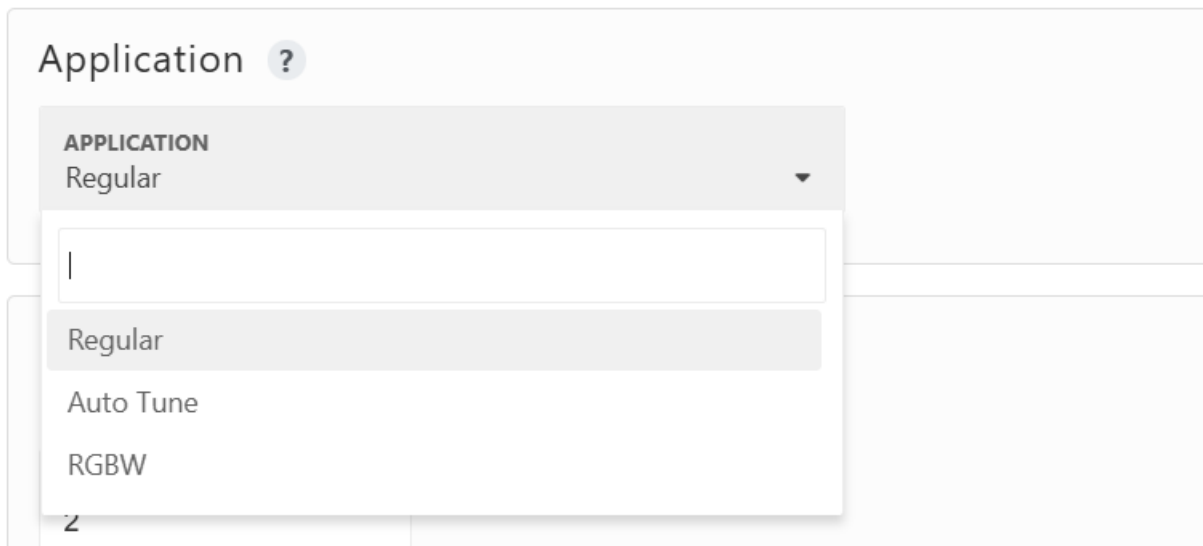
Depending on the type of fixture you are using, select the appropriate option:

- **CC:** Choose this if you are using a CC Node.
- **CV:** Choose this if you are using a CV Node.
- **Disabled:** Select this to disable the node's output channels. No outputs will be available when this option is chosen.

Also input fixture parameter as per fixture specifications.

Power, current and its Voltage.

Section3: Application



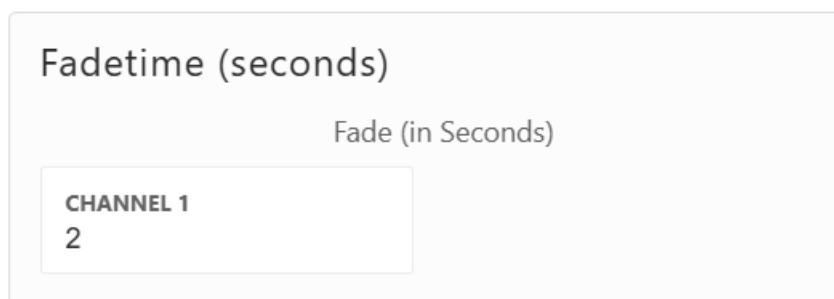
The screenshot shows a web interface for selecting an application. At the top, the word "Application" is followed by a question mark icon. Below it is a dropdown menu with a grey header labeled "APPLICATION" and the current selection "Regular". The dropdown is open, showing a search input field with a vertical cursor and a list of options: "Regular" (highlighted), "Auto Tune", and "RGBW". A small "2" is visible at the bottom left of the dropdown menu.

Application Selection:

Choose the appropriate application based on how the node will be used:

- **Regular:** Select this option when using CC or CV fixtures.
- **Auto Tune:** Use this option for color-tunable fixtures. These fixtures have two pairs:
 - **Warm Pair (3000K)**
 - **Cool Pair (5000K)**
- **RGBW:** select this option when using RGBW fixture.

Section4: Feature



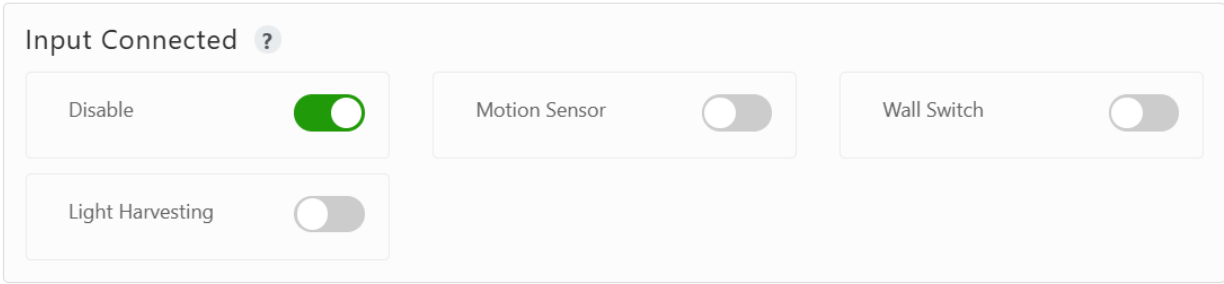
The screenshot shows a web interface for setting the fade time. The label "Fadetime (seconds)" is at the top. Below it is a smaller label "Fade (in Seconds)". A text input field contains the text "CHANNEL 1" and "2" on separate lines.

- **Fade (in seconds):**

Defines how smoothly fixtures transition between states.

Based on the value entered, the output fixtures will fade over the specified time instead of switching instantly.

Section5: Input



Input Connected ?

Disable	<input checked="" type="checkbox"/>	Motion Sensor	<input type="checkbox"/>	Wall Switch	<input type="checkbox"/>
Light Harvesting	<input type="checkbox"/>				

- **Disable:**

- Select this option if no motion sensor is connected to the node.

- **Motion Policy:**

- Enable this option if a motion sensor is connected to the node.

- **Logical Occupancy:**

- Use this option when multiple nodes and multiple sensors are grouped together.
- Ensures that if one sensor detects vacancy while another detects occupancy, the entire group remains in the occupied state.
- This prevents lights from shutting off when a person is standing in a corner that only one sensor covers.

- **Occupied Delay (e.g., 0 sec):**

- Defines how quickly the node changes to Occupied after the sensor is triggered.
- Example: 0 sec → status changes immediately.
- **Vacant Delay (e.g., 60 sec):**
 - Defines how long the node waits before switching from Occupied to Vacant after the sensor reports vacancy.
 - Example: 60 sec → lights turn off 60 seconds after vacancy is detected.
- **Wall switch**
 - Enable this option if a wall switch is connected to the node.
- **Light Harvesting**
 - Enable this option if daylight sensor is connected to core node.
 - Also, this option will let you input timeout period. Specify timeout period as per your choice. If you input 30 minutes as example. It will disable daylight harvesting for 30 mins.

Control cluster / individual Node

The screenshot shows the 'inspeXtor' interface with a 'REMOTE CONTROL' section. At the top, there is a navigation menu, a license expiration notice ('Your license expires in 135 days'), a language selection dropdown, and a 'Powered by Google Assistant' logo. The main control area includes:

- A 'Cluster' dropdown menu with the text 'Select Cluster which you want to control' pointing to it.
- A 'Please select a target' dropdown menu showing 'AK Office(3)' with a red box around it.
- A 'Select' dropdown menu with the text 'Select Node which you want to control' pointing to it.
- Buttons for 'Light ON' and 'Light OFF'.
- A 'Select Dim Level' slider with a value of 66 and a green knob, with the text 'Select Dim level using Dim Level Bar' pointing to it.
- Buttons for 'Scene 1', 'Scene 2', and 'Scene 3'.
- A 'Select Color Level' slider with a value of 4032 and a green knob, with the text 'We can Control Color level of the fixture if Node is configured for Autotune' pointing to it.

Hardware setting page

How to apply Motion policy to individual Node/ Node Cluster

The screenshot shows the 'inspeXtor' web interface. The main page is titled 'HARDWARE POLICY SETTING' and has filters for 'All', 'All Clusters', 'All Fixtures', and 'All Hardware'. A modal window is open with the following content:

- Header: 'HARDWARE POLICY SETTING'
- Question: 'Which Cluster or Fixture you want to apply this policy to?'
 - Dropdowns: 'All', 'AK Office(3)', 'Select'
- Question: 'Which hardware you want to configure ?'
 - Dropdown: 'OC sensor'
- Slider 1: 'What dim level would you like when hardware is triggered ?' (range 0-100, set to 100)
- Slider 2: 'How long should this event last (in mnt) ?' (range 0-5, set to 5)
- Slider 3: 'What dim level should the Fixture go to after the duration is finished ?' (range 0-5000, set to 0)
- Slider 4: 'What Color would you like the fixture to go to when this event is active "if Applicable" ?' (range 0-5000, set to 5000)
- Button: 'Lock Settings'

Annotations in red text and arrows explain the settings:

- Left side: 'If Node is autotune configured, you can also specify color level in motion policy' and 'So when sensor will trigger- it will turn on the lights to 100% with selected color level' (pointing to the 5000K color slider).
- Right side: 'This will apply motion policy to AK office Cluster' (pointing to the 'AK Office(3)' dropdown) and 'Once sensor is triggered- it will turn on lights to 100% with 5000K color and event will last 5 mins and then it will shut down to 0%' (pointing to the dim level and duration sliders).

Hardware setting page

How to apply Scene buttons policies using hardware setting page

HARDWARE POLICY SETTING

Which Cluster or Fixture you want to apply this policy to?

Cluster Select

Which hardware you want to configure ?

What dim level would you like when hardware is triggered ?
75

How long should this event last (in mnt) ?
1440

What dim level should the Fixture go to after the duration is finished ?
75

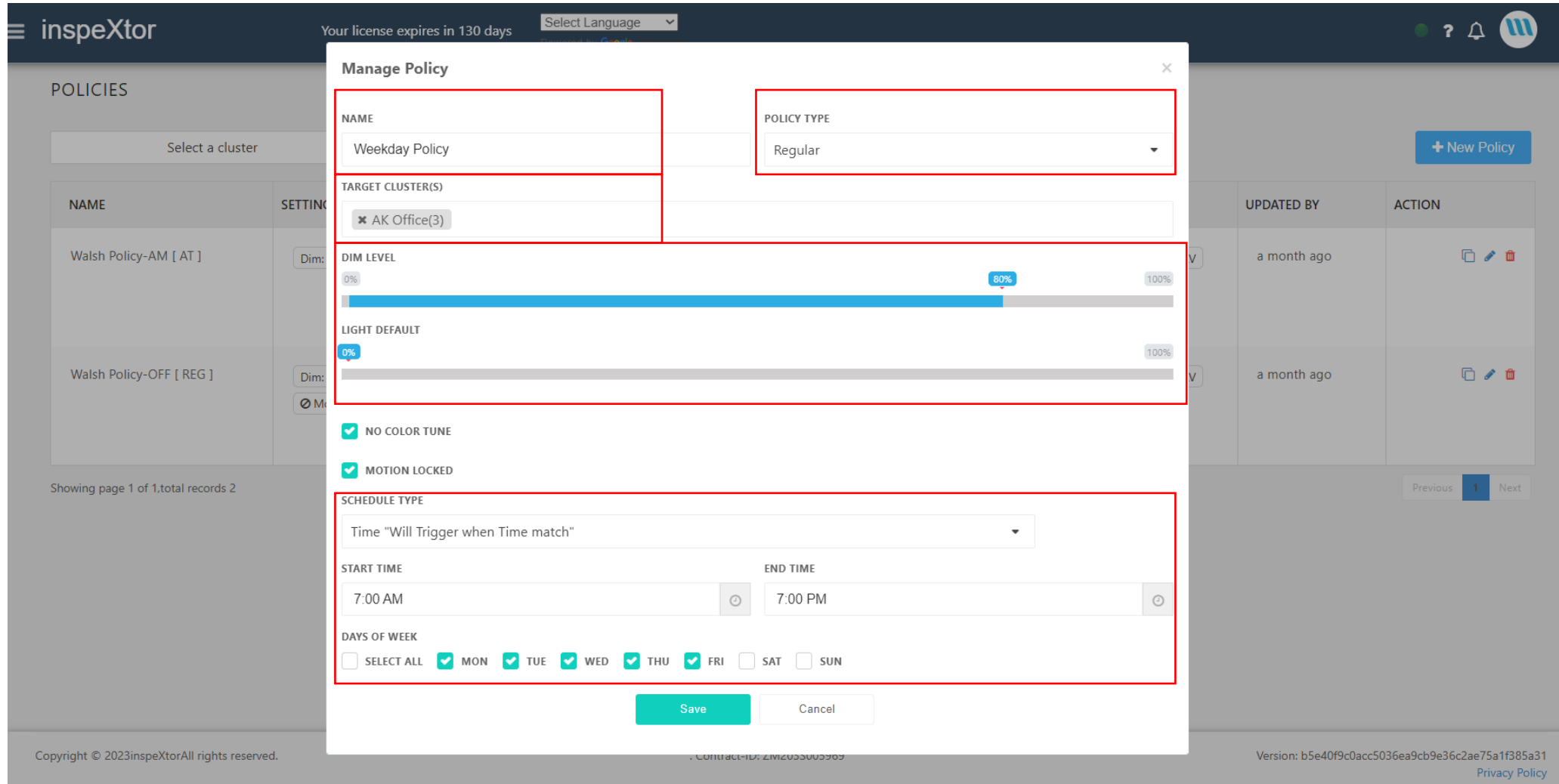
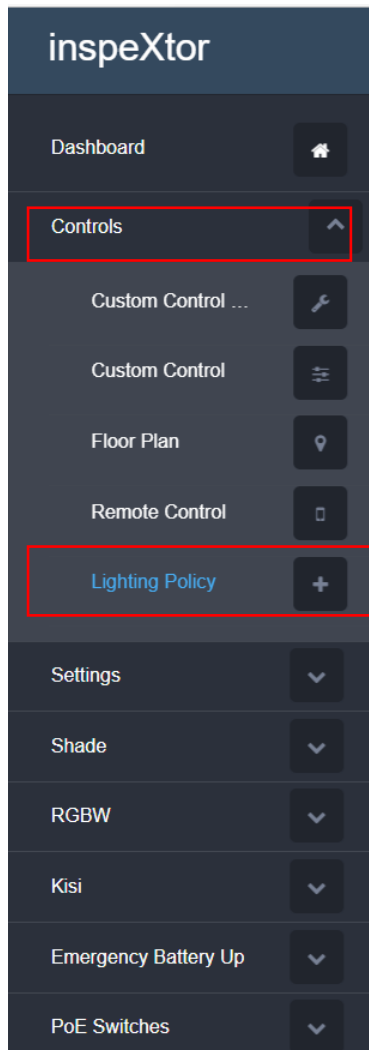
What Color would you like the fixture to go to when this event is active "if Applicable " ?
3000

Lock Settings

Lighting Policy

Refer to Wiki Link for more details : [Lighting Policy · AK-Khalis/mht-inx-wiki Wiki](#)

Regular lighting policy with Motion disabled/Autotune disabled.



Lighting Policy

How to setup Autotune lighting policy

Manage Policy

NAME: day policy

POLICY TYPE: AT

TARGET CLUSTER(S): AK Office(3)

DIM LEVEL: 0% (slider to 100%)

SELECT COLOR TEMPERATURE: 3 000K (slider to 5 000K)

START TIME: 7:00 AM

END TIME: 12:00 PM

DAYS OF WEEK: SELECT ALL MON TUE WED THU FRI SAT SUN

Save Cancel

Interpretation of Dashboard data

Dashboard

Hourly Report

Pie chart ▾

Hourly ▾

11 AM ▾

July 25, 2023 ▾

Temperature



Default temperature of Node

kWh Consumption

- Women Bathroom: 32%
- Kitchen: 32%
- Men Bathroom: 32%
- Showroom: 0%
- Kwh Saving: 4%



This pie Chart represents kWh consumption per Cluster

Occupancy

Space Not Occupied

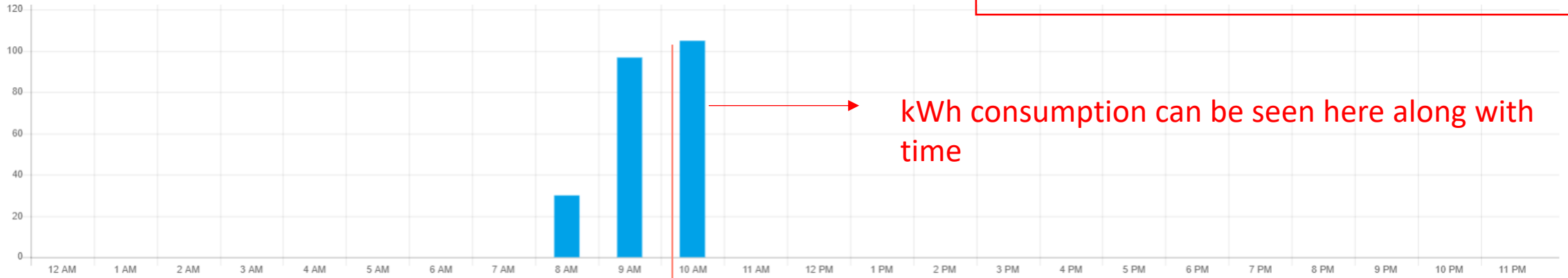
Data can be filtered using selection of date and time.

Interpretation of Dashboard data

kWh Daily

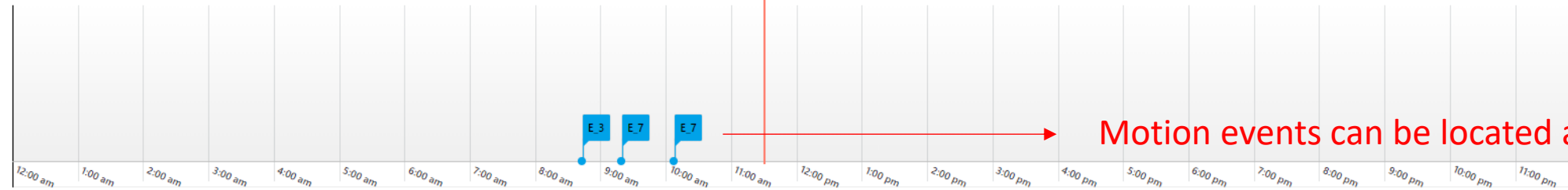
Select Cluster and Time to filter dashboard data

Cluster Showroom(4) kWh Daily July 25, 2023



kWh consumption can be seen here along with time

Events Policies Savings Abnormality



Motion events can be located along with time

Viewing E_3

Clear filters

- X EVENT Motion Detected from Node ND-19309/IP:192.168.2.37 @ 2023-07-25 08:55:08 am
- X EVENT Motion Detected from Node ND-19309/IP:192.168.2.37 @ 2023-07-25 08:51:06 am
- X EVENT Motion Detected from Node ND-19309/IP:192.168.2.37 @ 2023-07-25 08:43:02 am

If you click on motion events:
Details will be shown here



Thank You

Presented by:

Harshal Bharambe

Network Engineer, MHT Technologies

