



# LG ACP USER MANUAL

*powered by*  
niagara<sup>4</sup>  
framework

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## **CERTIFICATIONS**

The MultiSITE VM3 controller has the following agency listings, compliances, and certifications:

UL-916, Energy Management Equipment - Edition 4

FCC Part 15, Class B - Federal Communications Commission, with FCC Part 15, Subpart C - WiFi

ICES-003, Class B - Industry Canada Interference-Causing Equipment Standard

RoHS 2 (Restriction of Hazardous Substances), Directive 2011/65/EU



CE Declaration of Conformity (Council Directive 004-108-EC)



ACMA, complies with the requirements of the relevant ACMA Standards. This document covers mounting and wiring of the following products.

# **COMPLIANCE AND APPROVALS**

## **Federal Communications Commission (FCC)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Canadian Department of Communications (DOC)**

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that necessary for successful communication.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

## **Approved Antenna Listing**

- ANT-DB1-RAF-RPS

## **Transmitter Module Listing**

- Contains Transmitter Module FCC ID: W98-12977
- Contains Transmitter Module IC: 8339A-12977

To comply with FCC and Industry Canada RF exposure limits for general population /uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.



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# LOGGING IN

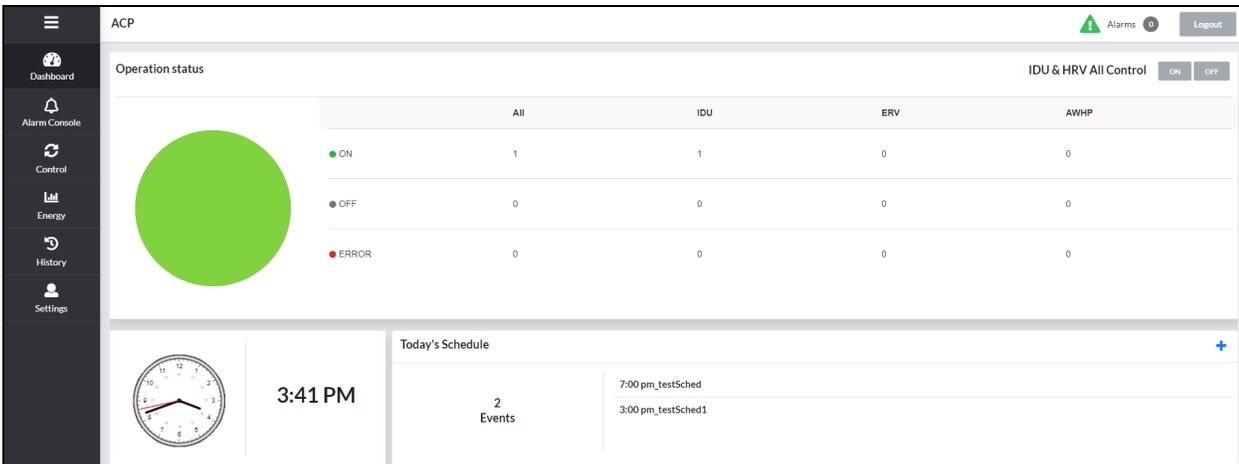
Enter the IP address of the device and enter the station credentials.

Figure 1: Logging In.



After successful Login, Dashboard view displays on the screen.

Figure 2: Dashboard view.



LG Application has a Menu which displays a list of different views and can be accessed by clicking on them. Some of the Menu items ave sub-items which display on hovering mouse over the Menu item.



Icon will slide open the Menu list from any other view in small screen devices.

LG Application has a configurable Title which can be configured from the Settings View. Clicking on this title will navigate the user to the Dashboard view from any other view.



LG Application shows the Alarm Count for the alarms in the system.



LG Application also has a  button which can be used to Logout of the application.

As seen in the image above, LG Application has the following Menu items:

- Dashboard View
- Control View
- Energy View
- History View
- Settings View

# DASHBOARD VIEW

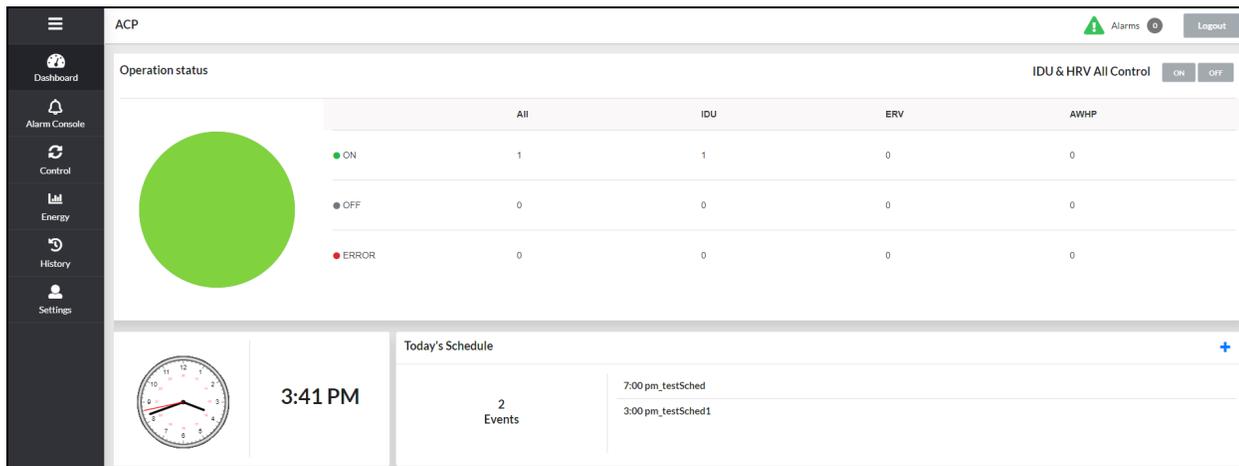
Dashboard View shows the Operation status for devices, Time and Today's schedules.

## Operation Status

Operation Status shows the operating status of IDUs, ERVs and AWHPs. This shows the number of IDUs, ERVs and AWHPs in ON, OFF or ERROR state. This view also shows the total count of devices in ON, OFF or ERROR status.

Operation Status also displays as a Pie chart with color codes for ON, OFF and ERROR as shown below. The pie chart updates automatically when devices are added, removed or Operation Status is changed.

Figure 3: Operation Status



Button sets the Operation setting point of all the Indoor Unit components in the station to ON and a Control CMD 0 is sent to devices.

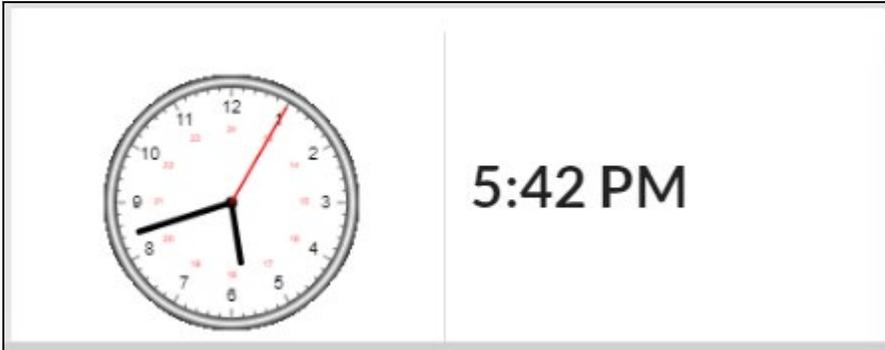


Button sets the Operation setting point of all the Indoor Unit components in the station to OFF and a Control CMD 0 is sent to devices.

## Time

This displays the time.

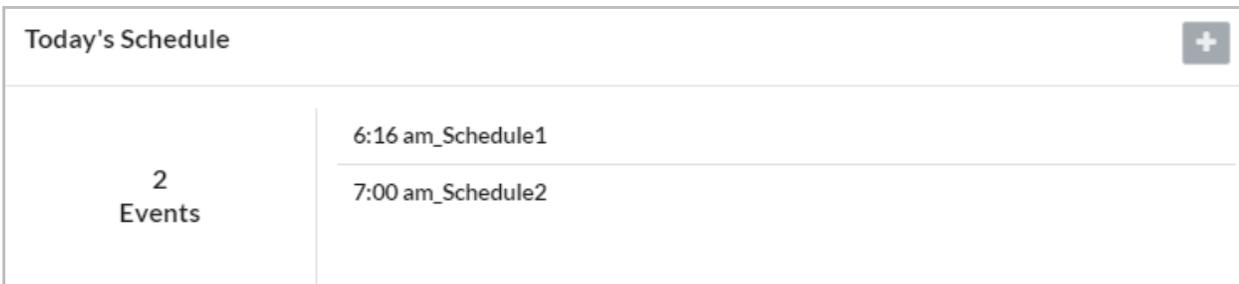
Figure 4: Time.



## Today's Schedules

This displays the events scheduled for today. Clicking on  will navigate to the Schedule View.

Figure 5: Today's Schedules



# ENERGY VIEW

Energy Report view displays the consumed power data for all or selected IDUs or AWHPs in a group for monthly or daily intervals.

A bar chart displays in Trend tab with the consumed energy data as per user selection of IDU/AWHP, Power, Monthly or Daily views and period.

Table data also displays in Accumulation tab for the selected period for both monthly and daily intervals.

This view displays all the available groups in the station and user can select a group or individual IDU/AWHP under a group.

User can select "All" groups which will display the energy report for all IDUs and AWHPs in the station.

Daily interval shows the consumption data for each day in the selected date range and Monthly interval shows the monthly consumption for the last 4 months from the selected month.

Figure 6: Energy Trend view

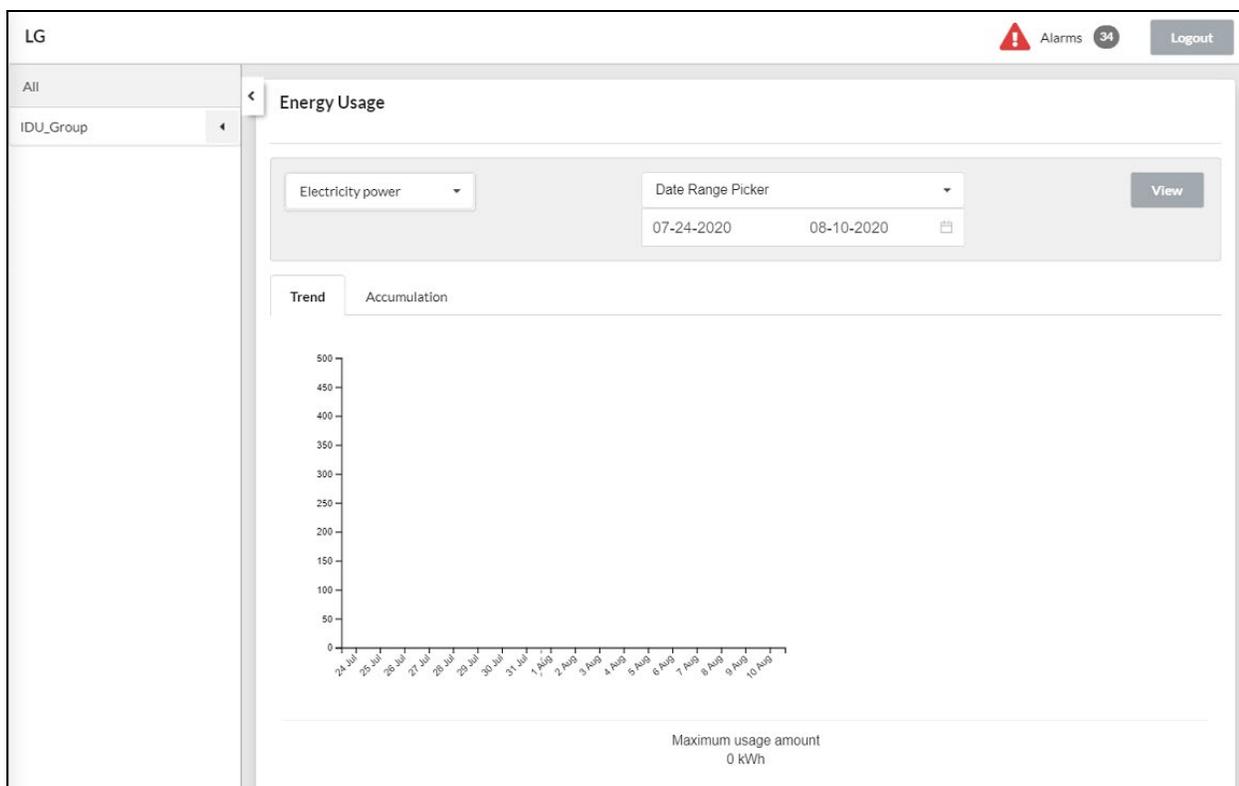
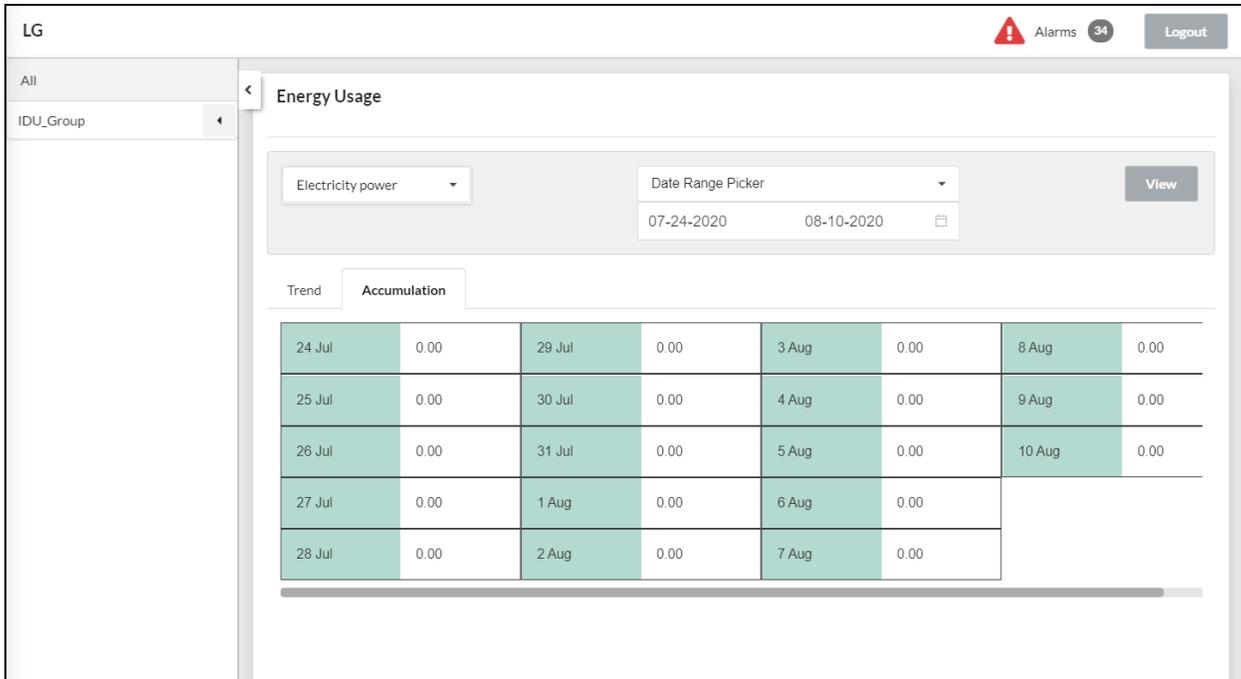


Figure 7: Energy Accumulation view



# HISTORY VIEW

History view displays all the history related settings that can be configured on the JACE through browser UI. This view has different views as specified below:

- History View
- History Config View
- Event Log View
- Cycle Monitoring
- Alarm Console

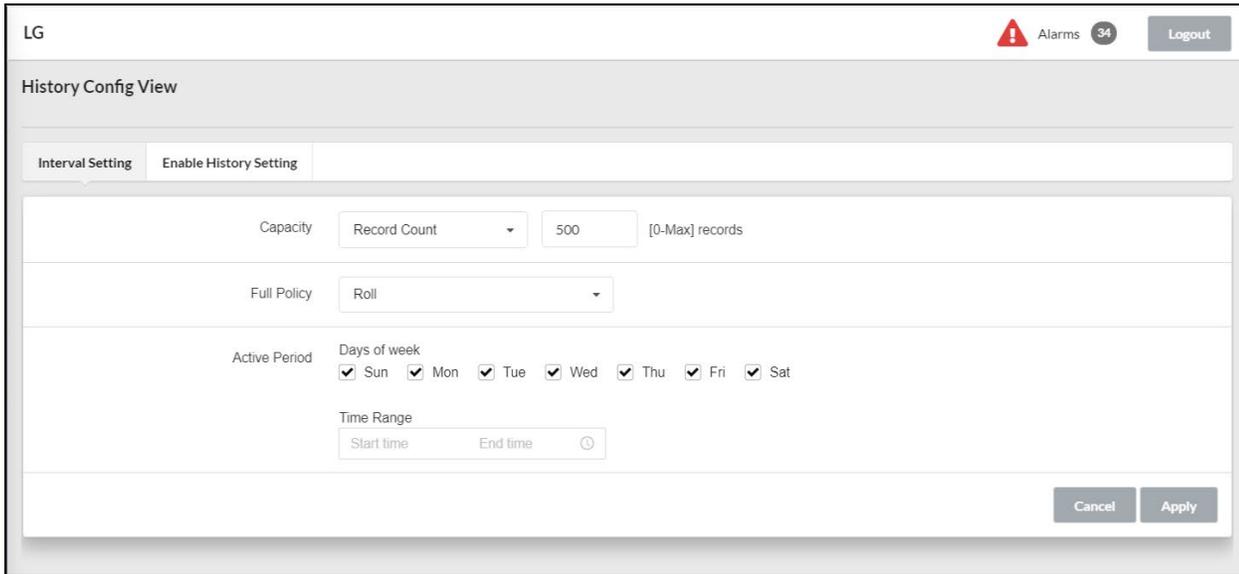
## History View

Figure 8: History view

Component	Timestamp	Trend Flags	Status	Value (kL)
AccumulatedGasofIDU(M)_AWHP_00	05-Jun-20 10:12:04 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_AWHP_AA	09-Jun-20 10:01:53 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_AWHP_FC	11-Jun-20 9:49:02 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_AWHP_FD	12-Jun-20 12:00:01 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_0	15-Jun-20 9:49:56 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_00	17-Jun-20 10:09:48 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_01	19-Jun-20 12:00:00 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_01	22-Jun-20 1:31:21 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_FA	01-Jul-20 10:22:40 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedGasofIDU(M)_IDU_FC	03-Jul-20 12:00:00 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedPowerofIDU(M)_AWHP_00	14-Jul-20 9:23:33 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedPowerofIDU(M)_AWHP_AA	21-Jul-20 10:27:15 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedPowerofIDU(M)_AWHP_AA	22-Jul-20 10:21:25 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedPowerofIDU(M)_AWHP_FC	23-Jul-20 10:04:40 AM IST	{start}	{down, stale}	0.0 kL
AccumulatedPowerofIDU(M)_AWHP_FD				
AccumulatedPowerofIDU(M)_IDU_0				

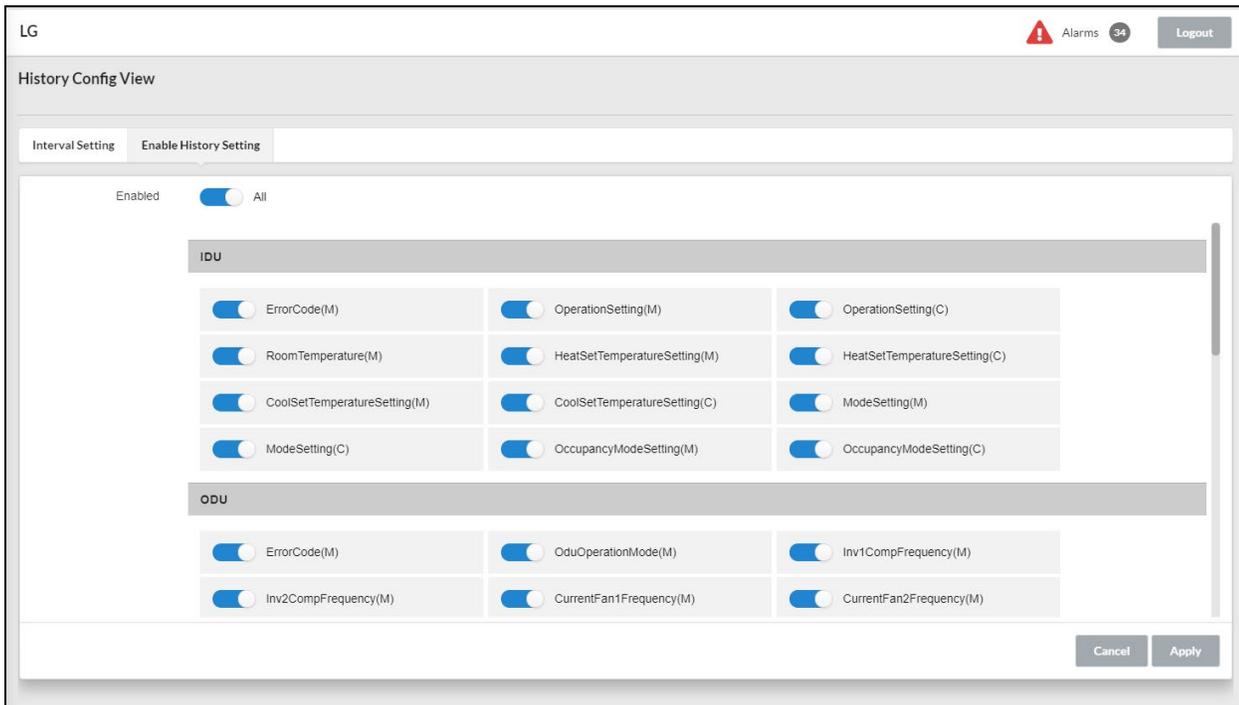
# History Config View

Figure 9: History Config View



User can change the History configuration related properties from Interval setting tab. It will apply for all the devices points which have History Extension.

Figure 10: Interval Setting tab



User can enable/disable the History extension for specific points based on the device type. Changes will apply to all the devices which come under that specific device type. For ODU, History Extension will enable/disable all the selected points of slave devices.

User can Enable/disable all the devices points by selecting the All button.

## Event Log View

Event Log view displays the station Audit log for LG Points with audit information for the points.

Figure 11: Event Log view

	Total	Control	Error	06-28-2022	06-28-2022	
<input type="checkbox"/>	6/28/2022	10:43 AM	IDU_00	3.00	alarmValue:3.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:43 AM	IDU_030	3.00	alarmValue:3.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:43 AM	IDU_032	3.00	alarmValue:3.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:30 AM	IDU_06	204.00	alarmValue:204.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:30 AM	IDU_10	204.00	alarmValue:204.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:30 AM	IDU_11	204.00	alarmValue:204.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	
<input type="checkbox"/>	6/28/2022	10:30 AM	IDU_46	204.00	alarmValue:204.00; fromState:highLimit; toState:normal; sourceName:ErrorCode(M);	

It displays the parameter point name/device name and detailed information for the events logged in this view.

The **Total** **Control** **Error** buttons are used to navigate between the different categories of the events logged.

**Total** button displays all the events logged. It includes alarms and events.

**Control** button displays all the events that are logged in the Audit log.

**Error** button logs the alarms generated by the devices. The detailed information field shows the alarm cause.

## Start Date and End Date for Event Logs

The date can be changed to view any of event logs. Clicking on the start date and end date displays a calendar to set the date.

07-28-2020
07-28-2020
📅

**Acknowledge Alarm** button is used to acknowledge the alarms. Individual alarms can be selected by clicking the individual checkbox or all alarms can be selected by clicking the tickbox at the top in the header.

**Send Email** button enables a user to send the logged event/alarm data via an email. The email can be configured in the Email Notification settings under Settings view.

## Cycle Monitoring

Cycle Monitoring View displays the ODU cycle information and IDU Cycle information for all the ODU devices in the JACE station.

User can select the ODU device from the list of all ODU devices from station. On selection, cycle monitoring view will be shown for the ODU device. If slave devices are present for the ODU, the slave devices information will be shown in tabs beside master tab.

Figure 12: Cycle Monitoring View

MICOM Ver	0	Inverter Dishch Temp	0	High Pressure	0	Low Pressure
INV1 HEATER	false	Error Code	242	Air Temp	0	Liquid Pipe Temp
INV2 HEATER	false	Fan2 Freq	0	RECEIVER OUT	false	Inverter2 Comp Freq
Subcool EEV	0	ODU Unit Type	0_0	Suction Temp	0	RECEIVER IN
4WAY	false	Subcool Inlet Temp	0	Subcool Outlet Temp	0	
Refrigerant	0	Inverter1 Comp Freq	0	Fan1 Freq	0	
Heat Exchange Temp	0	Outdoor EEV	0	Operation Mode	0	

If IDU devices are listed in Idulist for selected ODU, Default View dropdown menu has IDU Cycle Information entry which can be used to load the IDU cycle information.

Figure 13: IDU cycle information

The screenshot shows a web interface for 'Cycle Monitoring'. On the left, there is a sidebar with 'Odu' and sub-items 'Odu\_01' and 'Odu\_02'. The main area has a header with 'Cycle Monitoring' and a sub-header with 'master', 'slaveDevice1', and 'slaveDevice2'. Below this is a section titled 'IDU Cycle Information' with a dropdown menu set to 'IDU Cycle Information'. A table displays the following data:

unitName	roomTemp	targetTemp	pipeOutTemp	error	mode	fan	groupName	swing	pipeInTemp	lock	lev	operation
Idu	0	0	0	242	0	0	Group1	false	0	false	0	false
Idu_0A	0	0	0	242	0	0	Group1	false	0	false	0	false

# Alarm Console

There is an Alarm Console screen that user can use to look at all the alarms from the station and act on the alarms. All the alarms will be shown in the standard Niagara Alarm console view and all the standard Niagara Alarm operations are available as buttons on this view. User will be able to acknowledge the open alarms using the “Acknowledge” button on Alarm Console Screen. User can navigate to “Alarm Console” using “Alarms” button on the header container or using “Menu-> History-> Alarm Console”.

Figure 14: Alarm Console screen

The screenshot shows the Alarm Console interface. At the top left is the 'LG' logo. To the right is a red warning icon followed by 'Alarms 34' and a 'Logout' button. Below the header is a 'Time Range' dropdown menu and a search icon with '? to ?'. On the right side of the table area, it says '13 Source(s) / 466 Alarm(s)'. The main part of the screen is a table with the following columns: Info, Timestamp, Source, Message Text, Source State, Priority, Ack State, and Alarm Class. The table contains 13 rows of alarm data. At the bottom of the screen, there is a row of buttons: Acknowledge, Hyperlink, Notes, Silence, Filter, and Show Recurring.

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State	Alarm Class
<input type="checkbox"/>	24-Jul-20 11:05:59 AM IST	ErrorCode(M)		Fault	255	1 Acked / 227 Unacked	LgAlarmClass
<input type="checkbox"/>	24-Jul-20 11:04:03 AM IST	ErrorCode(M)		Fault	255	0 Acked / 50 Unacked	LgAlarmClass
<input type="checkbox"/>	15-Jul-20 4:04:43 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	23-Jun-20 5:17:29 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	23-Jun-20 3:33:25 PM IST	ErrorCode(M)		Fault	255	1 Acked / 177 Unacked	LgAlarmClass
<input type="checkbox"/>	16-Jun-20 11:51:34 AM IST	BooleanWritable		Offnormal	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	04-Jun-20 1:52:45 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	04-Jun-20 1:42:38 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	04-Jun-20 12:17:01 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	28-May-20 11:08:08 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	27-May-20 1:16:11 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	27-May-20 12:57:28 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass
<input type="checkbox"/>	20-May-20 6:28:02 PM IST	ErrorCode(M)		Fault	255	0 Acked / 1 Unacked	LgAlarmClass

# **SETTINGS VIEW**

Settings view displays all the settings that can be configured on the JACE through browser UI.

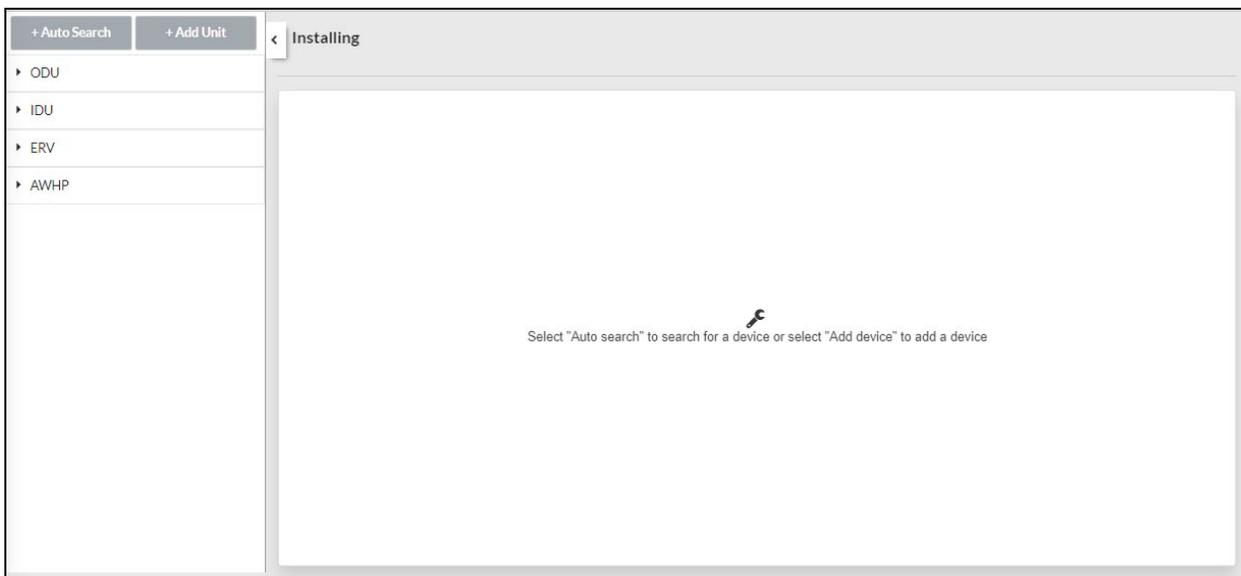
This view has different views as specified below:

- Installing
- Group Setting
- System Setting
- Network Setting
- Email Notification Setting
- Additional User Setting
- Advance Setting
- BACnet Setting

## **Installing View**

Installing View shows all the device information from the JACE station. All the LG devices connected to the JACE are listed in this view.

Figure 15: Installing View



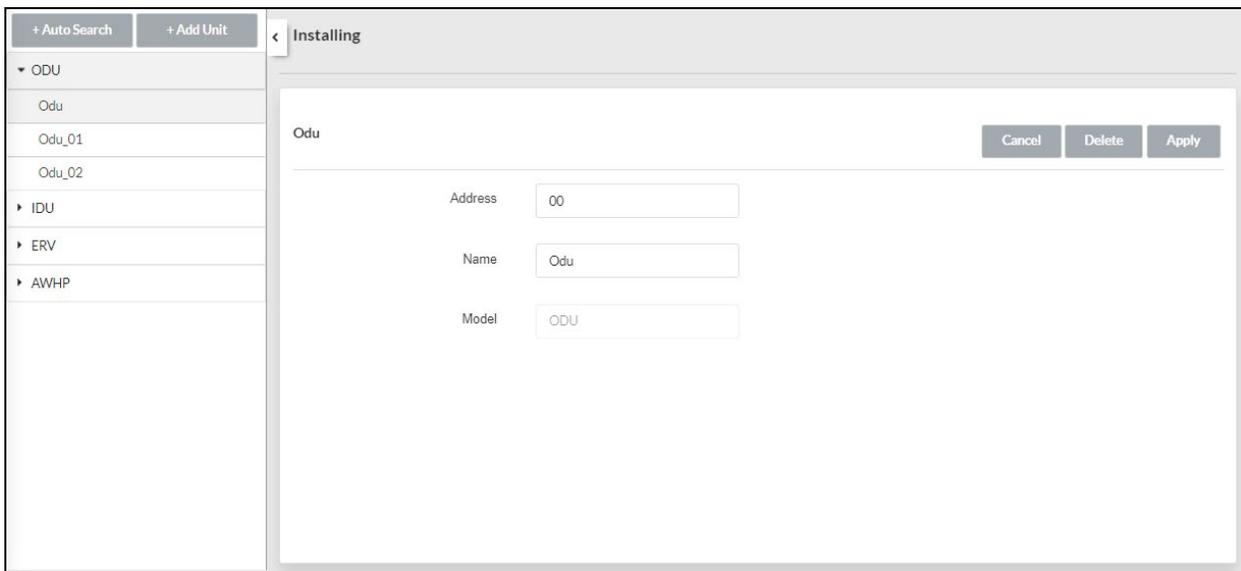
Left side of the view has 4 expandable rows which are the device types and each row contains all devices of respective type which are present in the station. On selecting any expandable row, all the devices of the device type are listed as shown below.

Figure 16: Installing View: Device Types



On selecting any device, the details of that device such as Address, Name and Model of that device will be seen on right side as shown.

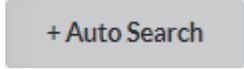
Figure 17: Installing View: Device Details



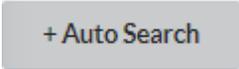
There are 3 buttons in this view :

- Apply : If Address and Name fields have been modified, this button will save the changed data to respective device.
- Delete : Delete the device.
- Cancel : Cancel the changes to the form.

The Installing view has 2 buttons:

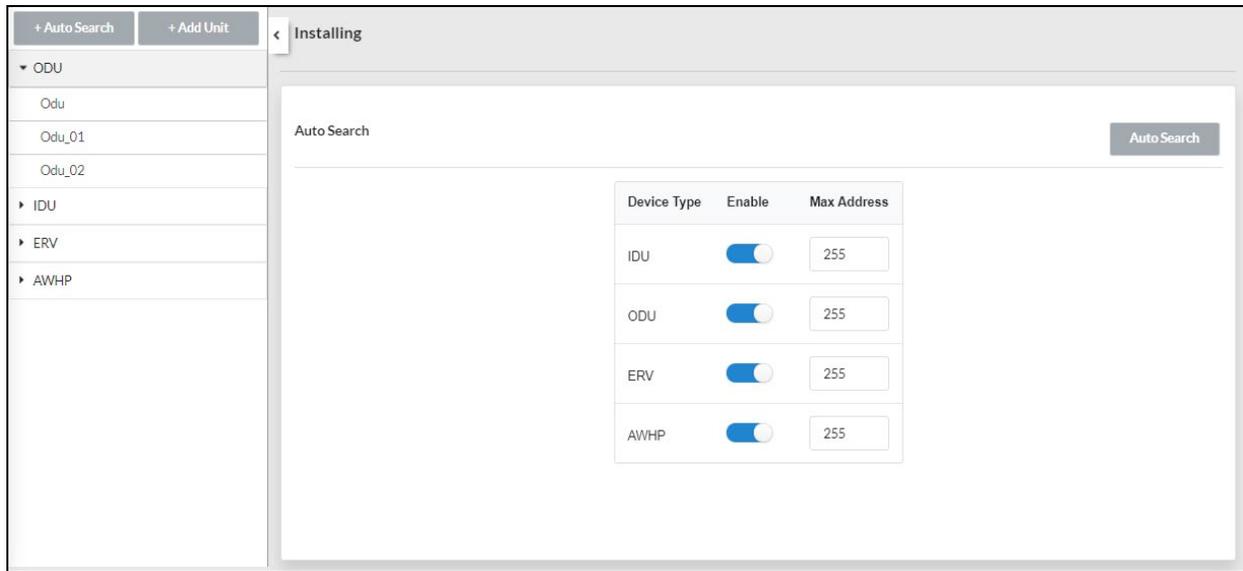


Auto Search is used to discover all the LG Devices connected to the JACE and add the devices to the JACE station.



On click of + Auto Search, Auto Search view displays, as shown below.

Figure 18: Installing View: Auto Search view



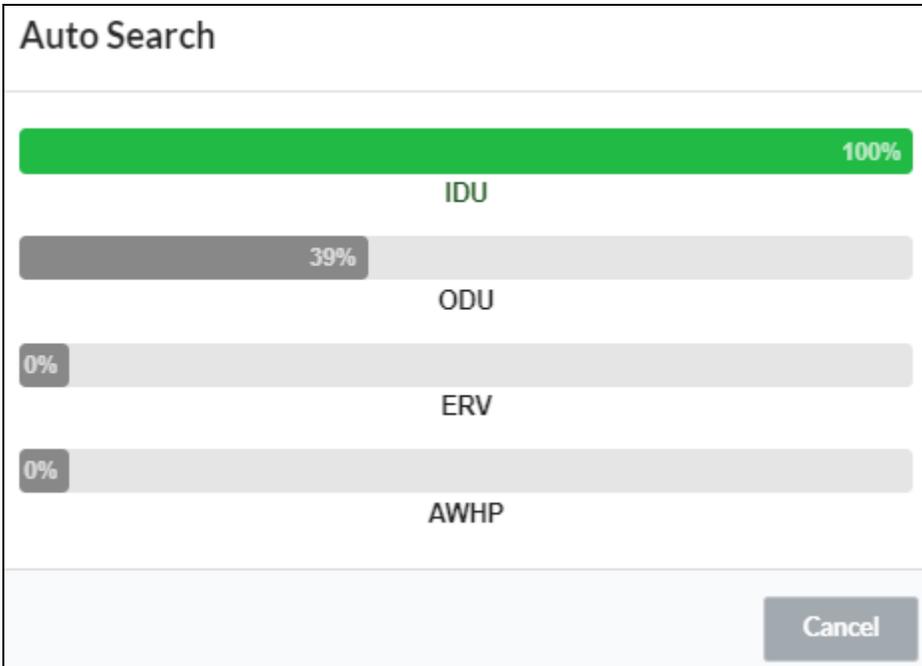
The devices to be searched can be configured using this view, where devices types can be enabled / disabled for

searching and the maximum address can also be specified for searching. A  button can also be seen on the right side, which will apply the Auto Search configuration and start the Auto Search process.



On click of , device discovery process will be started on the JACE station and all the discovered devices will be added to the station and shown in the Installing View.

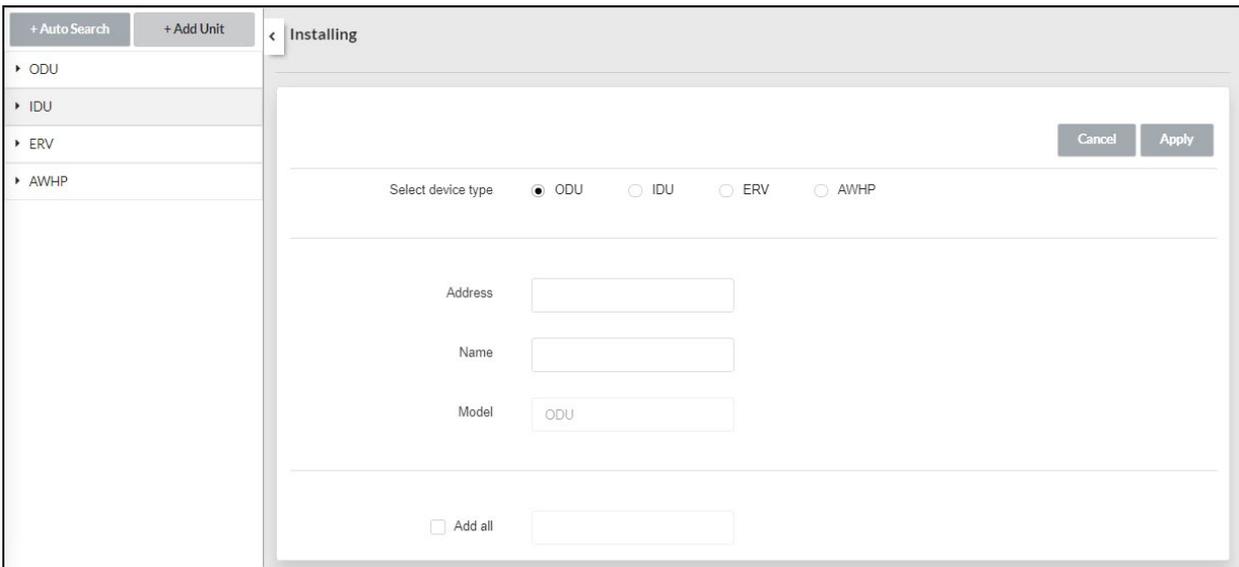
Figure 19: Auto Search



The discovery process takes some time to finish, a pop appears which shows the progress for different types of devices and will be closed automatically when Auto Search is completed.

Add Unit : To add a device manually to the JACE station, click on . This opens up a view to add a device with options to select device type, name, address, quantity and other parameters if applicable as shown below.

Figure 20: Auto Search: Select device type



On the click of  button, if all the input fields are valid, the device(s) will be added to the station. If input fields are invalid, error displays.

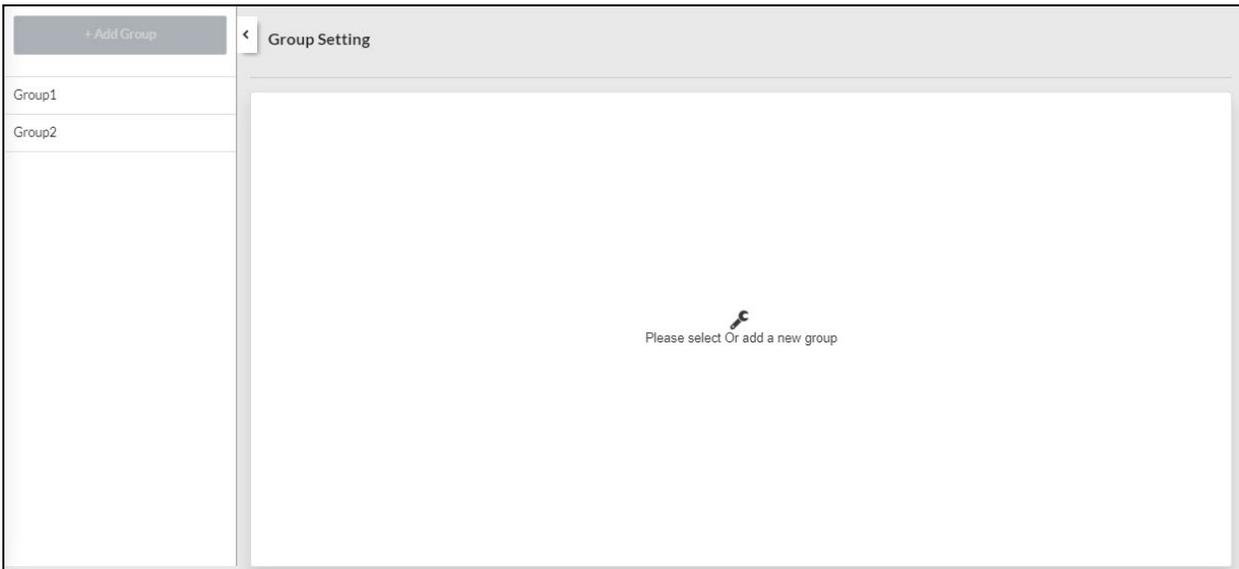
On click of , changes are ignored and the form will reset.

## Group Setting

Group Setting is used to manage all the groups in the JACE station.

All the groups from JACE station display in the list, and no group is selected automatically.

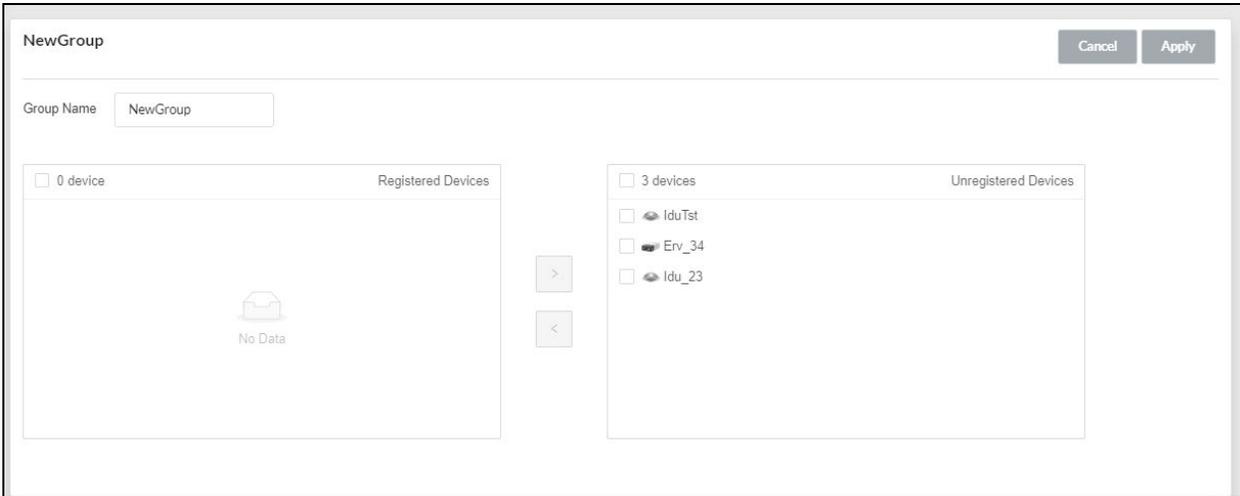
Figure 21: Auto Search: Group Setting





This button can be used to add a new group. On clicking this button, a view is loaded to add the group as shown below.

Figure 22: Auto Search: Group Setting



Group Name can be set with the help of input field.

All the Unregistered devices display on the right side pane. User can select the checkbox to select the device to be added to the group.

Figure 23: Unregistered Devices





On clicking  button, the selected devices are moved to the left pane which contains the Registered devices.

Figure 24: Registered Devices



To remove a device from Registered devices, select the checkbox for that device and click  button.



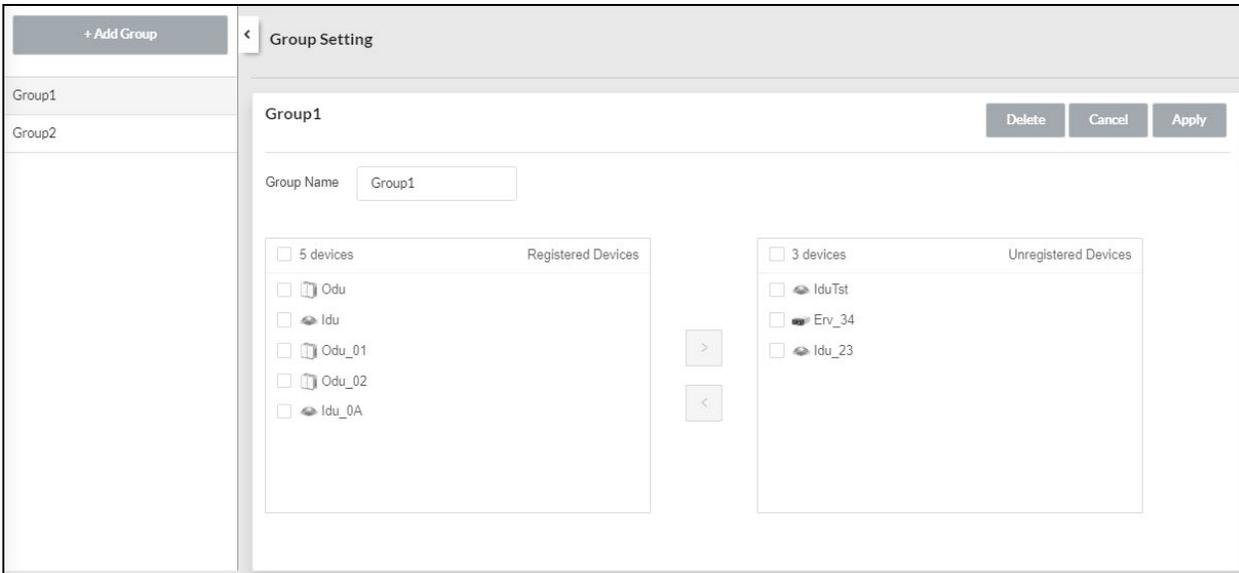
 button will apply the changes and create a new group with the information provided.



 button will discard the changes.

On selecting any group from the list, the details for that group are shown as below.

Figure 25: Group details



Changes can be made to this group as explained earlier.

Apply and Cancel buttons can be used to save or discard the changes.

Delete button can be used to delete the selected group which will open a confirmation pop up and on confirmation the selected group will be deleted.

## System Setting

System Setting view can be used to configure Title, Language, Temperature format, Date and Time settings. This view also displays the System Time and version info of software. Additionally, buttons are provided to Backup Station Data as well as to restart system. Changing the Date and Time Settings will update the JACE time accordingly and the JACE will need to be restarted after the change is applied.

Figure 26: System Setting view

The screenshot shows the 'System Setting' interface with the following fields and controls:

- Title:** Text input field containing 'LG'.
- Language:** Dropdown menu set to 'en'.
- Temperature:** Dropdown menu set to 'Fahrenheit 1'.
- Backup Setting Data:** Button labeled 'Backup'.
- System Restart:** Button labeled 'Restart'.
- System time:** Text field displaying '2020-7-22 13:49'.
- Date Setting:** Text input field containing '2020-7-22'.
- Time Setting:** Three spinner controls for hours (13), minutes (49), and seconds (25), followed by '(H:M:S)' and an information icon.
- Version:** Text field displaying '4.8.0.110.10.4'.

At the top right of the window, there are 'Cancel' and 'Apply' buttons.

## Network Setting

Network Setting view displays the Network Information related to the JACE. It displays the adapters list and various settings related to each adapter. The chosen adapter’s IPv4 address setting, IPv4 information and DNS setting can be seen and configured.

The Network settings can be edited by clicking on respective fields. Clicking the “Apply” button displays a pop up window. This will reboot the JACE, once the user clicks “OK”.

JACE is rebooted after applying the changes.

Figure 27: Network Setting view

## Email Notification Setting

Email Notification Setting is used to configure the Email settings of the user. It has 3 tabs.

E-mail Account Setting: Used to configure email credentials from which email will be sent to recipients.

Host Setting: This is used to configure email host settings.

Mailing Configuration: This is used to configure recipient email addresses.

Figure 28: Email Notification Setting

Clicking on “Apply” will apply the changes.

## Additional User Setting

Additional User Setting shows all the users which are present in the station and provides options to Add User, Edit or Delete users, and Change Password for current user.

Figure 29: Additional User Setting

User Setting		Change Password	Add User
Name			
admin		Edit	
BACnet		Edit	Delete



Button can be used to change the password for the current user. On clicking this button, a Change Password form displays, which can be used to change the password.

Figure 30: Change Password

### Change Password ✕

New Password (i)

Confirm New Password



button can be used to add any user to the station. On clicking this button, an Add User form pops up which takes the necessary information needed to create a user and creates the user with information provided on clicking the Apply button in the form.

Figure 31: Add User

 A dialog box titled "Add User" with a close button (X) in the top right corner. It contains five input fields: "User Name", "Full Name", "Password" (with an information icon), "Confirm Password", and "User Role" (a dropdown menu). At the bottom right, there are two buttons: "Cancel" and "Apply".

**Edit**

button can be used to change the user’s information in the pop up form as shown below.

Figure 32: Edit User

The 'Edit User' dialog box features a title bar with a close button (X). The main area contains the following fields:

- User Name:** A text input field containing the value 'BACnet'.
- Full Name:** An empty text input field.
- Password:** A text input field with a blue information icon (i) to its left and masked content represented by asterisks.
- Confirm Password:** A text input field with masked content represented by asterisks.
- User Role:** A dropdown menu with a downward-pointing arrow.

At the bottom right of the dialog, there are two buttons: 'Cancel' and 'Apply'.

**Delete**

button can be used to delete the user for which the button has been clicked. On clicking this button, a confirmation pop up opens which asks for confirmation on whether to delete the user or not. Clicking Yes deletes the user.

Figure 33: Delete User

The 'Confirm Delete User' dialog box has a title bar with a close button (X). The main area contains the text: 'Are you sure to delete this user?'. At the bottom right, there are two buttons: 'No' and 'Yes'.

# Advance Setting

Figure 34: Advance Setting

The screenshot shows the 'Advance Setting' window with the following sections and options:

- Set connected device:**
  - Cycle monitor:  Set,  Clear
  - Cycle control:  Set,  Clear
  - Slave controller:  Set,  Clear
  - Slave controller lock:  Set,  Clear
- Auto Mode Enabled:** Use 1 Set Temp Auto (dropdown)
- Idu Address Lock Status:**  Set,  Clear
- Power Initial Date:** 1 [1-31]
- Cmd7 Support:** Send Cmd7 For All Units  Yes,  No
- Set PDI Communication:**
  - PDI Communication:  enable,  disable
  - Number of retries:** Max Resend Count: 2 (spinner)
  - Outdoor Unit Oil-Return Operation:**  Set,  Clear
    - Daily: 0 o'clock (spinner)
  - Timezone:** Asia/Calcutta (+5:30) (dropdown)

User can change the value of Cycle monitor, Cycle control, Slave controller, Slave controller lock, Auto mode enabled, IDU Address Lock Status, Power initial date, Cmd7 Support, PDI Communication, Max Resend Count, Outdoor Unit Oil-Return Operation fields and associated property will changed on the station.

Time Zone Setting can be changed from this view. It will update the JACE time zone. JACE needs to restart after changing Time zone.

# BACnet Setting

Figure 35: BACnet Setting

The screenshot shows a 'BACNET Setting' dialog box with the following fields and controls:

- Network Number:** Text input field containing '1'.
- Device Type:** Dropdown menu showing 'Standard'.
- Udp Port:** Text input field containing '0xBAC0'.
- Export:** Two buttons: 'BACNET Export' and 'LON Export'.
- BBMD Address:** Text input field.
- BBMD Debug:** Radio buttons for 'True' and 'False', with 'False' selected.
- Adapter:** Dropdown menu showing 'Intel(R) Dual Band Wireless-AC 8265'.
- Registration Lifetime:** Three spinner boxes containing '0', '15', and '0', followed by '(H.M.S)'. The middle spinner is highlighted.

User can change the Network Number, Device Type, Udp Port, BBMD Address, BBMD Debug, Adapter and Registration Lifetime BACnet related properties from this view.

When user selects Export option (BACnet / LON Export) the below message will show with the progress of the export job and message is closed when export is completed. User can cancel the Export by click on Cancel button.

Figure 36: BACnet / LON Export

The screenshot shows an 'In Progress' dialog box with the following elements:

- Title:** 'In Progress'.
- Progress Bar:** A horizontal bar showing 16% completion, with the text '16%' inside a dark grey segment.
- Text:** 'BACNET Export Progress' centered below the progress bar.
- Button:** A 'Cancel' button located at the bottom right of the dialog.

## BACnet Export

All LG points which are exported to BACnet are available in the station's BACnet Network.

Open BACnetNetwork->Local Device ->Export Table. All LG exported points are available in the Export Table. All the exported BACnet points have Priority Ins 1-14. All the BACnet exported points will have the same BACnet instance number based on the Device Type, Device ID and Point.

Figure 37: BACnet Export

Target Name	Object Name	Object Type	Inst Num	Value	Export	BACnet Writable
LockSetting528M529	Drivers.LgacpNetwork.Idu2.points.LockSetting(M)	Binary Input	0	Permit (down_stale)	[ok]	no
LockSetting528C529	Drivers.LgacpNetwork.Idu2.points.LockSetting(C)	Binary Output	0	Permit (down_stale) @ def	[ok]	no
OperationSetting528M529	Drivers.LgacpNetwork.Idu2.points.OperationSetting(M)	Binary Input	1	OFF (down_stale)	[ok]	no
OperationSetting528C529	Drivers.LgacpNetwork.Idu2.points.OperationSetting(C)	Binary Output	1	OFF (down_stale) @ def	[ok]	no
ModeSetting528M529	Drivers.LgacpNetwork.Idu2.points.ModeSetting(M)	Multi State Input	0	0 (down_stale)	[Fault]	no
ModeSetting528C529	Drivers.LgacpNetwork.Idu2.points.ModeSetting(C)	Multi State Output	0	0 (down_stale) @ def	[ok]	no
SetPointSetting528M529	Drivers.LgacpNetwork.Idu2.points.SetPointSetting(M)	Analog Input	0	0.0 °C (down_stale)	[ok]	no
SetPointSetting528C529	Drivers.LgacpNetwork.Idu2.points.SetPointSetting(C)	Analog Value	0	0.0 °C (down_stale) @ def	[ok]	no
FilterSign528M529	Drivers.LgacpNetwork.Idu2.points.FilterSign(M)	Binary Input	2	Normal (down_stale)	[ok]	no
FilterSign528C529	Drivers.LgacpNetwork.Idu2.points.FilterSign(C)	Binary Output	2	OFF (down_stale) @ def	[ok]	no
FanSpeedSetting528M529	Drivers.LgacpNetwork.Idu2.points.FanSpeedSetting(M)	Multi State Input	1	0 (down_stale)	[ok]	no
FanSpeedSetting528C529	Drivers.LgacpNetwork.Idu2.points.FanSpeedSetting(C)	Multi State Output	1	0 (down_stale) @ def	[ok]	no
ErrorCode528M529	Drivers.LgacpNetwork.Idu2.points.ErrorCode(M)	Analog Input	2	242.0 (fault_down_alarm_unackedAlarm)	[ok]	no
PipeInTemperature528M529	Drivers.LgacpNetwork.Idu2.points.PipeInTemperature(M)	Analog Input	1	0.0 °C (down_stale)	[ok]	no
PipeOutTemperature528M529	Drivers.LgacpNetwork.Idu2.points.PipeOutTemperature(M)	Analog Input	4	0.0 °C (down_stale)	[ok]	no
LowerSetTemperatureRangeSetting528M529	Drivers.LgacpNetwork.Idu2.points.LowerSetTemperatureRangeSetting(M)	Analog Input	5	0.0 °C (down_stale)	[ok]	no
LowerSetTemperatureRangeSetting528C529	Drivers.LgacpNetwork.Idu2.points.LowerSetTemperatureRangeSetting(C)	Analog Value	1	0.0 °C (down_stale) @ def	[ok]	no
UpperSetTemperatureRangeSetting528M529	Drivers.LgacpNetwork.Idu2.points.UpperSetTemperatureRangeSetting(M)	Analog Input	6	0.0 °C (down_stale)	[ok]	no
UpperSetTemperatureRangeSetting528C529	Drivers.LgacpNetwork.Idu2.points.UpperSetTemperatureRangeSetting(C)	Analog Value	2	0.0 °C (down_stale) @ def	[ok]	no
IdUAddressLockSetting528M529	Drivers.LgacpNetwork.Idu2.points.IdUAddressLockSetting(M)	Binary Input	4	Permit (down_stale)	[ok]	no
IdUAddressLockSetting528C529	Drivers.LgacpNetwork.Idu2.points.IdUAddressLockSetting(C)	Binary Input	3	Permit (down_stale) @ def	[ok]	no
ModelLockSetting528M529	Drivers.LgacpNetwork.Idu2.points.ModelLockSetting(M)	Binary Input	5	Permit (down_stale)	[ok]	no

User can set the BACnet IP Adapter from this View. When the Adapter is selected/changed from the drop down list, the IP address of the adapter displays. User can select the adapter and click on “Apply” and IP Adapter information is set for BACnet IP.

## LON Export

NOTE: LON devices are limited to 40.

All LG points which are exported to LONworks are available in the station's LON Network.

Open LON Network->Local LON Device.

All the Local NVs created for all LG control points are available in the “Local Nv Manager” view on the Local LON Device.

All the LON Exported points will have the same status & value as the LG Control Point.

Figure 38: LON Exported points

Name	Summary	NvIndex	Direction	SnvtType	SelfDoc	Lnml File	Type
nvoOperation_LgErVDevice	false	0	Output	Snvt Switch		null	0
nviOperation_LgErVDevice	false	1	Input	Snvt Switch		null	0
nvoLock_LgErVDevice	false	2	Output	Snvt Switch		null	0
nviLock_LgErVDevice	false	3	Input	Snvt Switch		null	0
nvoFilterSign_LgErVDevice	false	4	Output	Snvt Switch		null	0
nviFanSpeed_LgErVDevice	Nil	5	Input	Snvt Switch		null	0
nvoFanSpeed_LgErVDevice	Nil	6	Output	Snvt Switch		null	0
nvoERROR_LgErVDevice	0.00	7	Output	Snvt Hvac Status		null	0
nvoMode_LgErVDevice	Nil	8	Output	Snvt Hvac Mode		null	0
nviMode_LgErVDevice	Nil	9	Input	Snvt Hvac Mode		null	0
nvoHeater_LgErVDevice	false	10	Output	Snvt Switch		null	0
nviHeater_LgErVDevice	false	11	Input	Snvt Switch		null	0
nvoUserMode_LgErVDevice	Nil	12	Output	Snvt Hvac Mode		null	0
nviUserMode_LgErVDevice	Nil	13	Input	Snvt Hvac Mode		null	0
nvoRoomTemp_LgErVDevice	0.00	14	Output	Snvt Temp P		null	0

All LG exported LON points are available in the LON Network->Local LON Device ->Points folder.

Figure 39: Points folder

Name	Out	Fault Cause
nvoERROR_IDU_00	0 [ok] @ 16	
nvoLock_IDU_00	Permit [ok] @ 16	
nviLock_IDU_00	- [null]	
nvoOperation_IDU_00	OFF [ok] @ 16	
nviOperation_IDU_00	- [null]	
nvoFilterSign_IDU_00	Normal [ok] @ 16	
nviFilterSign_IDU_00	- [null]	
nviFanSpeed_IDU_00	- [null]	
nvoFanSpeed_IDU_00	Auto [ok] @ 16	
nvoSwing_IDU_00	ON [ok] @ 16	
nviSwing_IDU_00	- [null]	
nviMode_IDU_00	- [null]	
nvoMode_IDU_00	COOL [ok] @ 16	
nvoSetPoint_IDU_00	30.0 °C [ok] @ 16	
nviSetPoint_IDU_00	- [null]	
nvoRoomTemp_IDU_00	22.5 °C [ok] @ 16	
nvoPipeInTemp_IDU_00	-65.2 °C [ok] @ 16	
nvoPipeOutTemp_IDU_00	-65.2 °C [ok] @ 16	
nviDUAddressLock_IDU_00	Permit [ok] @ 16	
nviDUAddressLock_IDU_00	- [null]	
nvoModeLock_IDU_00	Permit [ok] @ 16	
nviModeLock_IDU_00	- [null]	



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# CONTROL VIEW

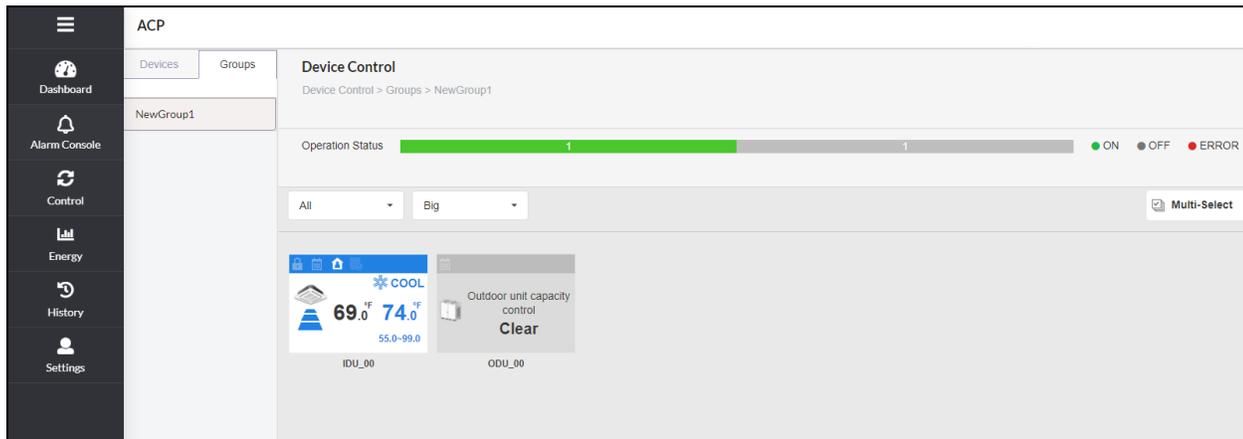
The Control View has following 2 views:

- Control
- Schedule

## Control View

NOTE: The Control page default displays the Groups tab. If no groups have been created, switch to the Devices tab.

Figure 40: Device Control

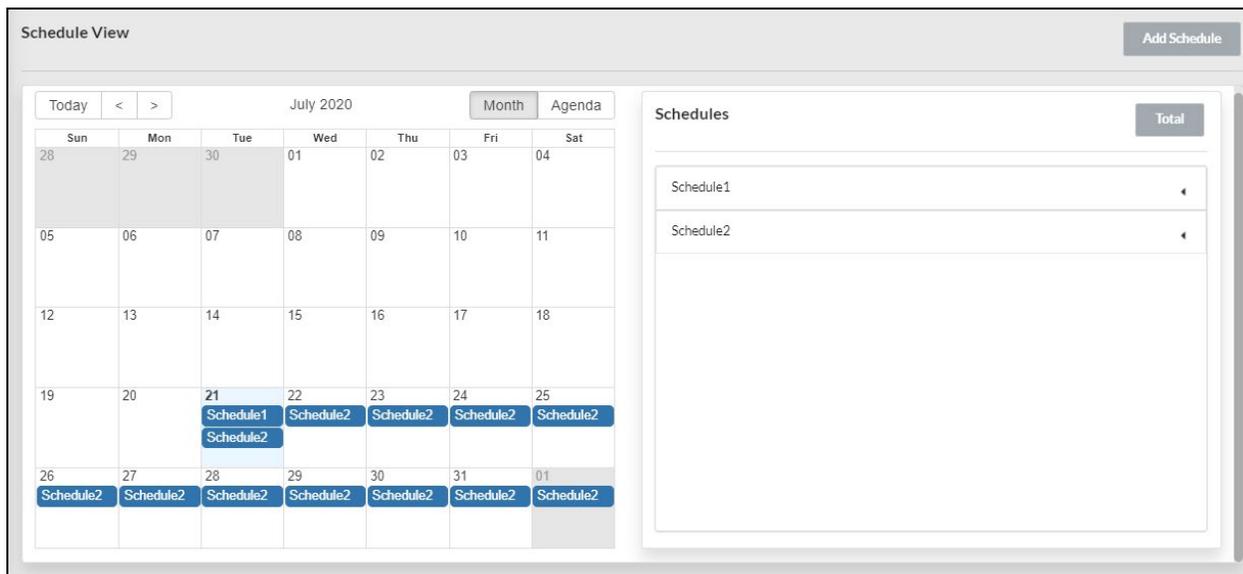


## Schedule View

This view lists the schedules for various devices configured by the user.

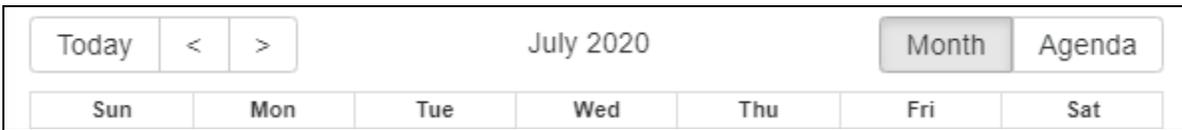
It has a calendar embedded in the view to display the different schedules for the months of a year. All the existing schedules are listed on the right side of the calendar.

Figure 41: Schedule View



The Calendar displays the current month and has different buttons.

Figure 42: Calendar



< > is used to toggle between different months of a year.

Today Clicking on “Today” button will take the user to present date on the calendar.

Month Agenda Month is selected by default. Selecting the “Agenda” button will show the Agenda view of the schedules. Agenda View can be seen in below image.

Figure 43: Agenda View

Date	Time	Event
Wed Jul 22	all day	Schedule2
Thu Jul 23	all day	Schedule2
Fri Jul 24	all day	Schedule2
Sat Jul 25	all day	Schedule2
Sun Jul 26	all day	Schedule2
Mon Jul 27	all day	Schedule2
Tue Jul 28	all day	Schedule2
Wed Jul 29	all day	Schedule2
Thu Jul 30	all day	Schedule2
Fri Jul 31	all day	Schedule2
Sat Aug 01	all day	Schedule2
Sun Aug 02	all day	Schedule2
Mon Aug 03	all day	Schedule2
Tue Aug 04	all day	Schedule2
Wed Aug 05	all day	Schedule2

**Total**

button displays the full schedule list.

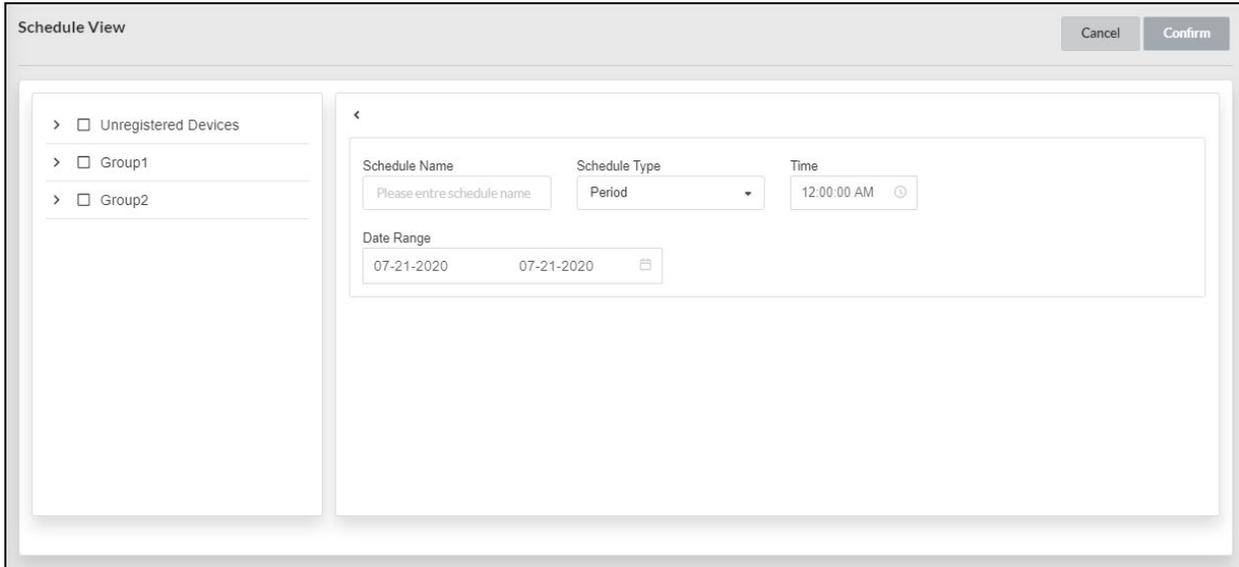
**Add Schedule**

button navigates to the Schedule configuration view to add a new schedule.

Schedule configuration view lists the Groups created in the Grouping tab of the Settings view.

The user should first create a group in the Group Settings of the Settings view before creating schedules.

Figure 44: Settings view



The various properties like Schedule Name, Schedule Type, Time, Date Range pattern should be configured. An error pops up if the Schedule Name field is left empty or when multiple schedules are created with the same name.

When configuring a schedule, the user can set the time period of the schedule using either of the two ways described below :

- Selecting “Period” in “Schedule Type” field
- Selecting “Weekday” in “Schedule Type” field
- Selecting “Period” in “Schedule Type” field :

This option is used when the schedule to be configured is for specific time period. Special events can be configured using the Date Range option.

Figure 45: Date Range

The screenshot shows a form with three main sections: 'Schedule Name', 'Schedule Type', and 'Time'. Below these is a 'Date Range' section. The 'Date Range' field is currently set to '07-21-2020' and is highlighted with a blue border. Below this field, a calendar interface is displayed, showing the month of July 2020. The date '21' is highlighted in blue, indicating the selected date. The calendar also shows the beginning of August 2020.

Selecting “Weekday” in “Schedule Type” field :

This option is used when the schedule to be configured is for specific days in each week. User can check/uncheck the checkboxes to select/deselect a weekday.

Figure 46: Schedule Type

The screenshot shows a form with three main sections: 'Schedule Name', 'Schedule Type', and 'Time'. Below these is a 'Days of week' section. The 'Schedule Type' dropdown menu is set to 'Weekday'. Below this, the 'Days of week' section shows checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat, all of which are checked.

The time period of a schedule is set to “5 minutes” by default, which means the start time is set by user, but the schedule end time is always 5 minutes after the start time.

Different devices can be selected specifically for configuring a schedule by expanding the groups and selecting the devices.

Figure 47: Configuring a schedule

All the devices which are selected for a particular schedule display in the schedule form.

Figure 48: Schedule form

The device types can be selected from the tabs. After selecting a device type and clicking  button will open control form the equipment type. The device type parameters can be selected using this form. The control form for ODU device is shown below.

Figure 49: Control form for ODU device

**ODU\_00** [X]

**Control**

**Outdoor Unit Capacity Control**

Clear ▾

**Defrost Mode**

0 Level ▲ ▼

**ODU Refrigerant Noise Reduction Setting**

0 Level ▲ ▼

After setting the required parameters, the set parameter values will be updated in the adjacent space for each device type tab as shown below.

Figure 50: Set parameter values

The screenshot shows the 'Schedule View' window. On the left is a tree view of devices:
 

- Unregistered Devices
  - IduTst
  - ErV\_34
- Group1
  - Odu
  - Idu
  - Odu\_01
  - Odu\_02
  - Idu\_0A
- Group2
  - AwHP

 The right panel contains:
 

- Schedule Name:
- Schedule Type:
- Time:
- Date Range:  to
- Device tabs: **odu (1)**, idu (1), erv (1), awHP (1)
- Parameter table:
 

LowNoiseMode	set	NoiseReduction	1
Capacity	50		
SmartLoad	1		
DefrostMode	1		



buttons are used to discard or create a schedule respectively.

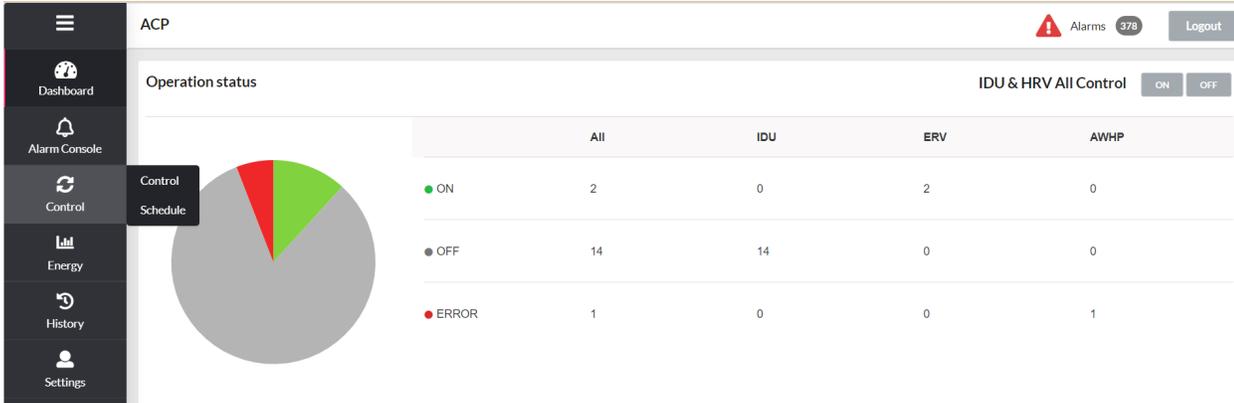
The schedules are created in Niagara station for the configured devices in a separate folder under the selected devices.

## Device Control View

Device Control view is available as a sub menu under “Control” menu.

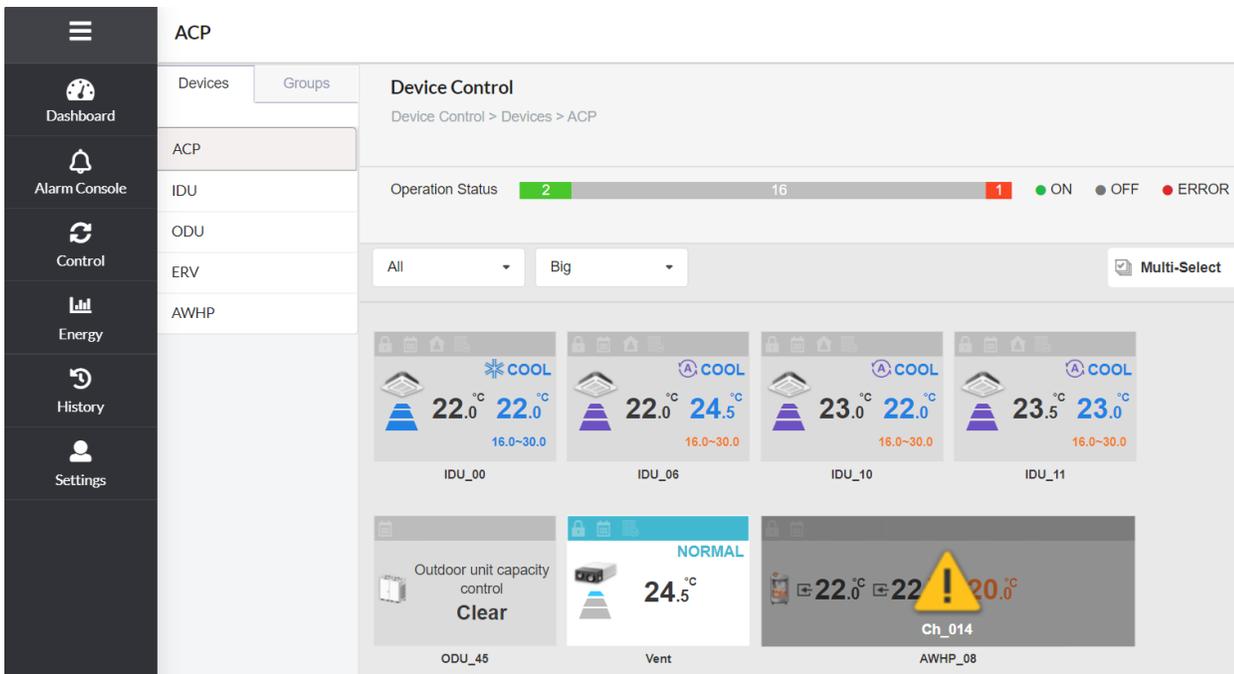
Click on the “Control” menu item and then click on the “Device control” menu item.

Figure 51: Device Control menu item



Device monitor view displays as follows.

Figure 52: Device monitor view



## Overview of Device monitor view

### Groups

Device monitor view displays all the Groups existing in the JACE station.

In above image, the first Group is already selected and all the devices in the group display along with the Device properties. The selected Group Name is shown on top of the Monitor View. If there are no groups in the JACE station, all the unregistered devices are shown under the default group named “Unregistered Devices” i.e. the ACP.

When a group is selected, all the devices under the group display with the device properties as highlighted in above image.

### Device Monitor Header section

Device monitor window includes the Main Menu Tab, Operation status, Filtering, viewing method, and Device section.

Refer to the following table for more information.

Sr No	Device control options	Description
1	Main Menu	It consists of all the Main menu items as highlighted in the above image.
2	Group List	Available Groups display in this section.
3	Group Information	Selected Group name displays in the top section.
4	Operation Status	Operation Status Progress bar is shown along with ON/OFF/ERROR options.
5	Filtering	Filtering option is available. User can filter the devices based on its category (IDU/AWHP/ODU/ERV).
6	Viewing Method	All the devices have small and Big Icon view. User can select which Icon view will be displayed.
7	Multi Select	When this option is selected then user can see control view for multiple devices. User can select multiple devices of same types (Example. Multiple IDU devices). Note: User cannot select multiple devices of different types. If different devices of different types are selected then Error message is displayed.
8	Device Section	It will display all the devices based on groups.

## Device Properties

All the devices have different properties like operation mode, device icon, temperature, etc. as explained in below tables.

On the device monitor page, all the devices can have Big and small icon view. User can switch the device display between Big or Small Views.

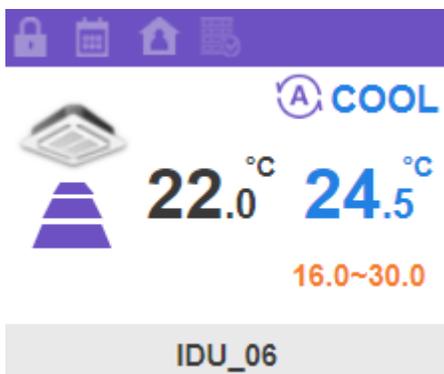
### 1. Device Monitor – Big icon view

The Device name displays at the bottom of each Big Icon View.

#### IDU Device Display

All the IDU devices display the Device Name, Device Icon for IDU, Device Operation Mode, Current Room Temperature, and Desired Set Temperature.

Figure 53: IDU device display



In the Big Icon View, IDU Device displays the following information.

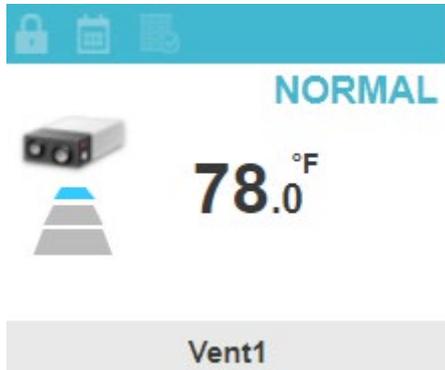
Sr No.	IDU Device Properties	Description
1	Device Status Icon	The top row indicates Device status icons i.e. Lock status, schedule, occupied, peak control, filter replacement, oil alarm to be shown as tools tips. These icons will be highlighted based on Lock Setting (M), Schedule/Status/Active OccupancyModeSetting(M), Filter Sign(M), Peak Control, Oil Replacement, and Air Cleaning status.
2	Device Icon	IDU Device icon displays.
3	Operation Mode	Based on operation mode (cool, heat, fan auto, dry), background color, text color and operation mode icon will be updated as shown in above image. Example: If operation mode is heat, then “HEAT” text displays along with heat icon in orange color. Device status indicating row will have orange as background color.
4	Fan Speed	Fan Speed is indicated by fan speed icon having bars on its icon. Number of bars: Low = 1 Bar, Med = 2 Bars, High = 3 Bars.
5	Current Temperature	This will show the current temperature value of IDU device and will be updated automatically.

6	Set Temperature	This will show the set temperature value of IDU device.
7	Set Temperature Range	This will display upper / lower set point temperature limits.

### ERV Device Display

All the ERV devices display the device name, device Icon for ERV, device Operation Mode, and Current Room Temperature.

Figure 54: ERV device display

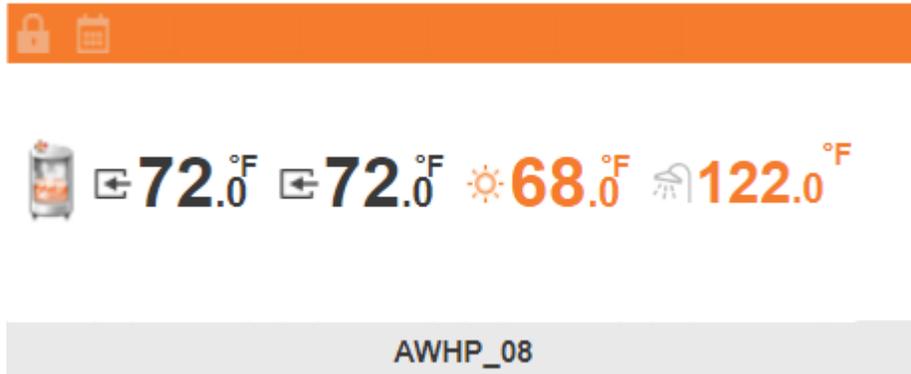


Sr No.	ERV Device Properties	Description
1	Device Status Icon	The top row indicates Device status Icons i.e. Lock status, schedule, peak control, These icons will be highlighted based on Lock Setting (M), Schedule status and Peak Control status.
2	Device Icon	ERV Device Icon displays.
3	Operation Mode	Based on operation mode, appropriate text displays. Different operation mode will have different text color and different background color for Device status icon.
4	Fan Speed	Fan Speed is indicated by fan speed icon having bars on its icon. Number of bars: Low = 1 Bar, Med = 2 Bars, High = 3 Bars
5	Current Temperature	This will show the current temperature value of ERV device.

### AWHP Device Display

All AWHP devices display the device Name, device Icon for AWHP (based on the Operation Mode), device operation mode, and temperature values that are configured to display.

Figure 55: AWHP device display

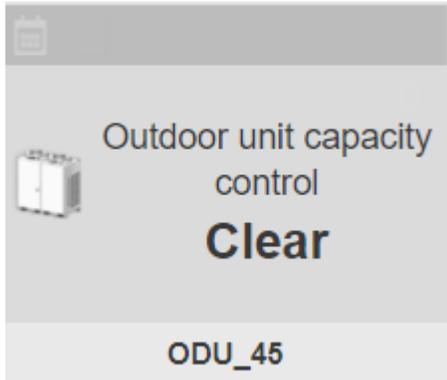


Sr No.	AWHP Device Properties	Description
1	Device Status Icon	The top row indicates Device status Icons i.e. Lock status, schedule These icons will be highlighted based on Lock Setting (M), Schedule status.
2	Device Icon	AWHP Device Icon displays.
3	Water in, Water out, Air, Hot water	AWHP device will show water in, water out, air, hot water temperature along with their associated icon.
4	Operation Mode and Set Temperature	AWHP device will show existing Operation mode and Set temperature as shown in above image.

### ODU Device Display

All the ODU devices display the device Name, device Icon for ODU (based on the Capacity Control), based device operation state that are configured to display.

Figure 56: ODU device display



Sr No.	ODU Device Properties	Description
1	Device Status Icon	The top row indicates only Device status Icon "Schedule". These icons will be highlighted based on Schedule status.
2	Device Icon	ODU Device Icon displays.
3	Outdoor unit capacity control	Outdoor unit capacity control value displays as highlighted in above image.
4	Operation Mode	Background color of "Device status Icon" row will update based on operation mode.

### 2. Device Control – Small Icon view

Control View has a Viewing button to switch the device display between Big or Small Views. The devices are also presented in the small icon view where bulk devices are displayed in a single view.

Figure 57: Device Control – Small Icon view



Small Icon view displays the device icon (IDU, ODU, ERV, AWHP) and mode color (COOL, HEAT, FAN, AUTO, DRY) as shown in above image.

## Device Control – Single Select

Device Control view will be available as a sub menu under “Control” menu.

When a device is selected in the device section, a control window will display in the right-side pane allowing individual control of the selected device.

Figure 58: Device Control view

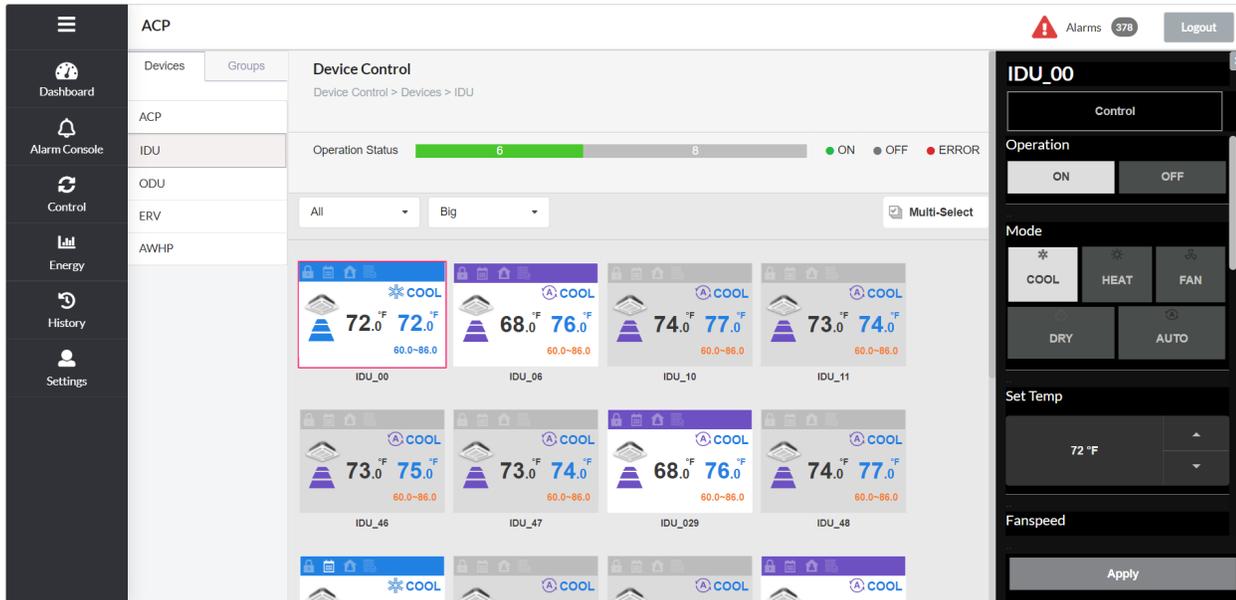
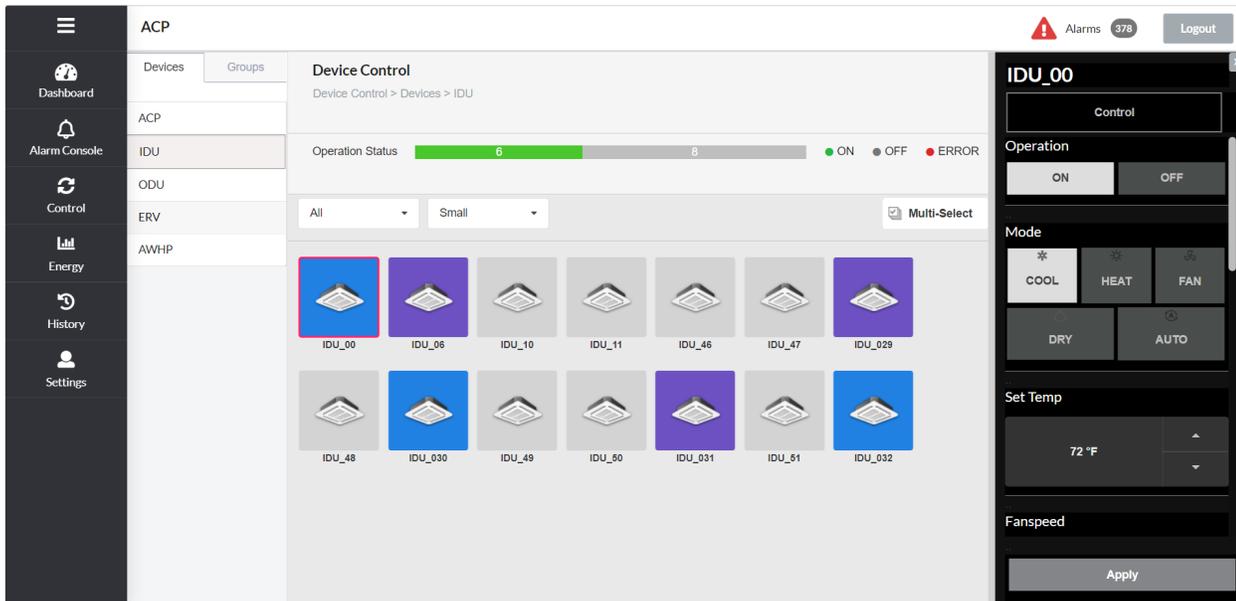


Figure 59: Device Control view - Single Select



Control window will show the Point data for the selected device. If another device is selected, then the previously selected device will be unselected and control window will be updated with the newly selected device. Selected device is shown. User can set the respective values from control window and can apply those changes using the “Apply” button. The control view is closable(X) once the desired control functions are performed.

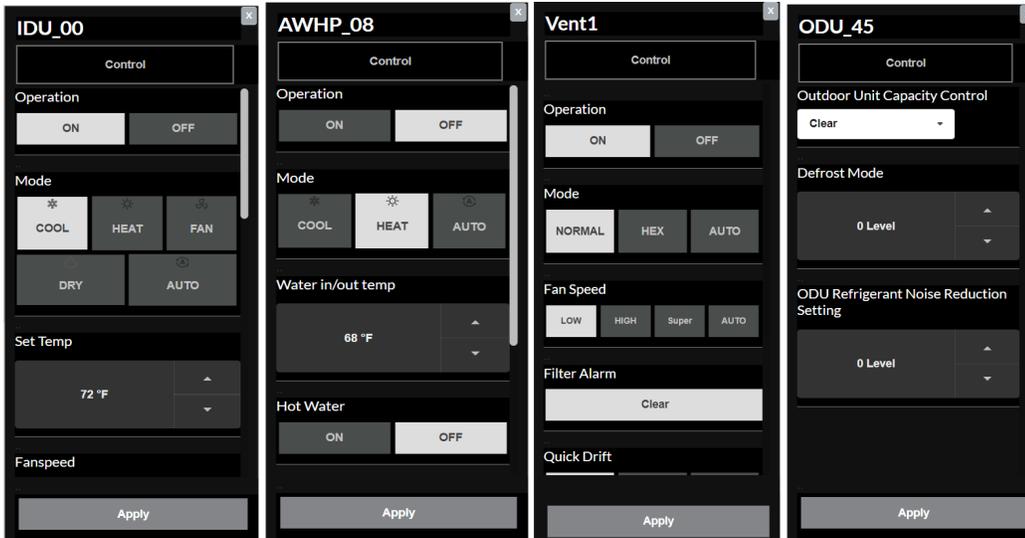
The control view for a particular device can be launched by clicking either the big or small icon view of a component. Single select control view will allow user to individually select devices of choice and control.



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Figure 60: Single select control view



## Device Control – Multi Select

Device Control view will be available as a sub menu under “Control” menu.

Control View has a Viewing button to switch the device display between Big or Small Views. The multi select view can be selected from multiselect icon in the right hand top side of the monitor and control view page.

When the multi select option button is clicked, a control pane will be enabled with three control buttons i.e. “Select All”, “Clear All” and “Selection Completed”. And also a check box will also appear on the right hand top side of each device widget in the monitor view, the individual selection of device for can be manually done by checking the check boxes.

With the “Select All” and “Clear All” buttons, the entire device widgets can be selected and unselected. After the selection is done, the “Selection Completed” button can be clicked to open the control pane in the right hand side of the monitor and control view.

When a device is selected in the device section, a control window will display in the right side pane allowing control of the selected multiple devices. The devices of the same type can be controlled from the Multi Select option; the Control window will show the Point data for the selected devices. The control window will display value in case if all the values in different selected devices are same. If the data point values in different selected devices are different, then the control view will show the value as default, i.e., “0” if numeric and if it is a command button, then all the buttons display as disabled for different values.

Figure 61: Device Control - Multi Select IDU

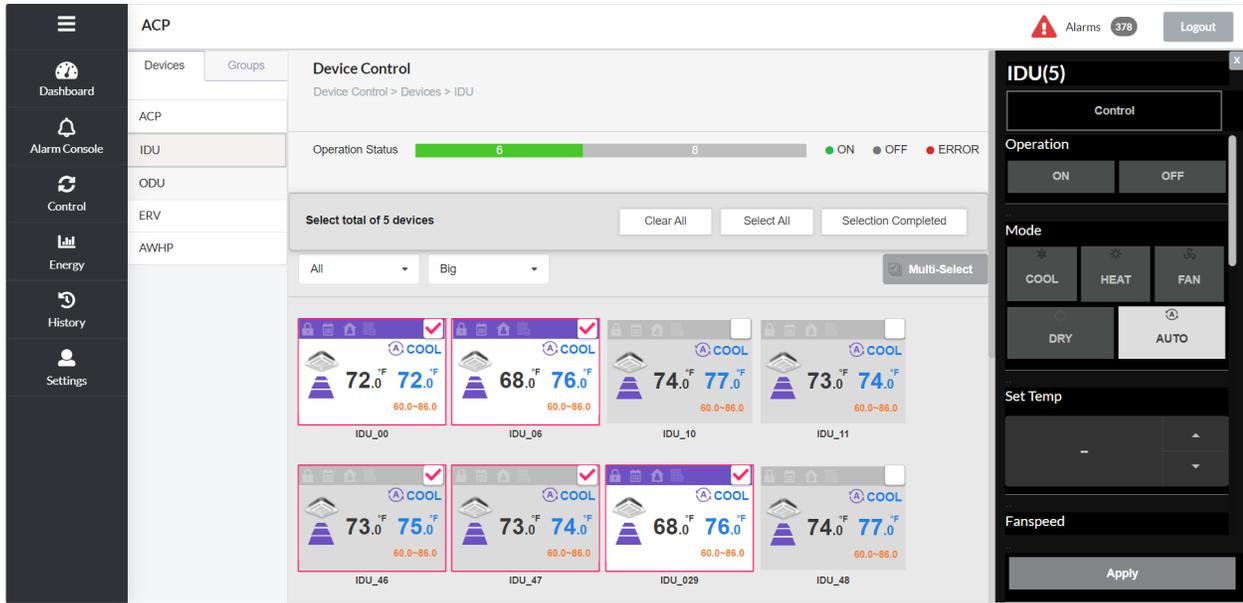


Figure 62: Device Control - Multi Select IDU

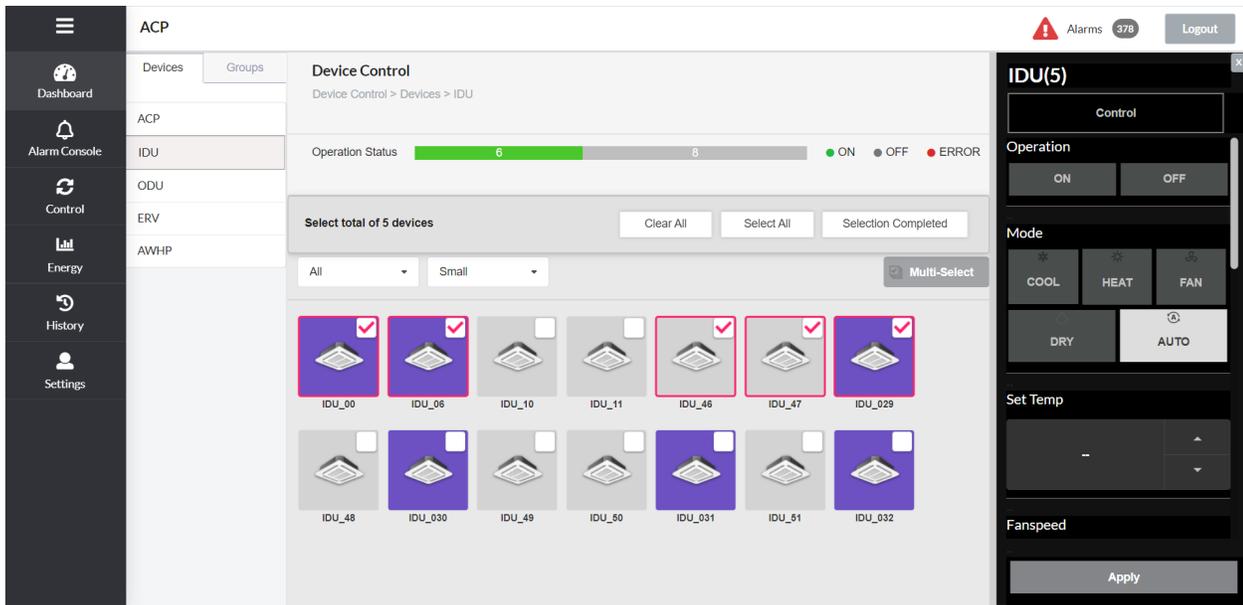


Figure 63: Device Control - Multi Select ERV

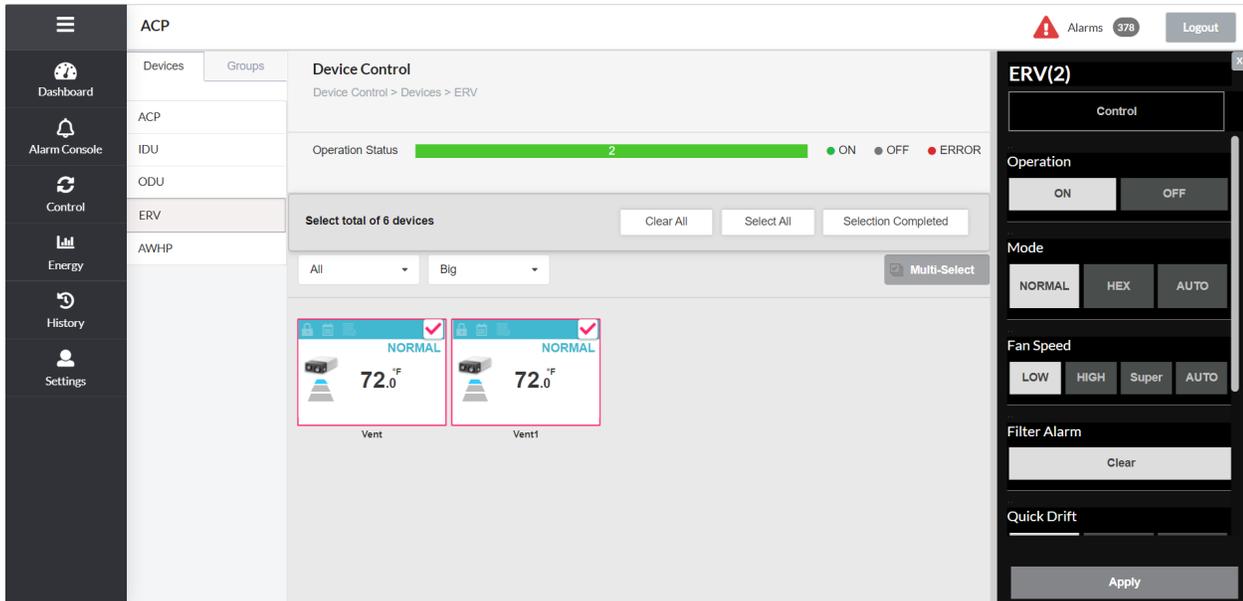


Figure 64: Device Control - Multi Select ERV

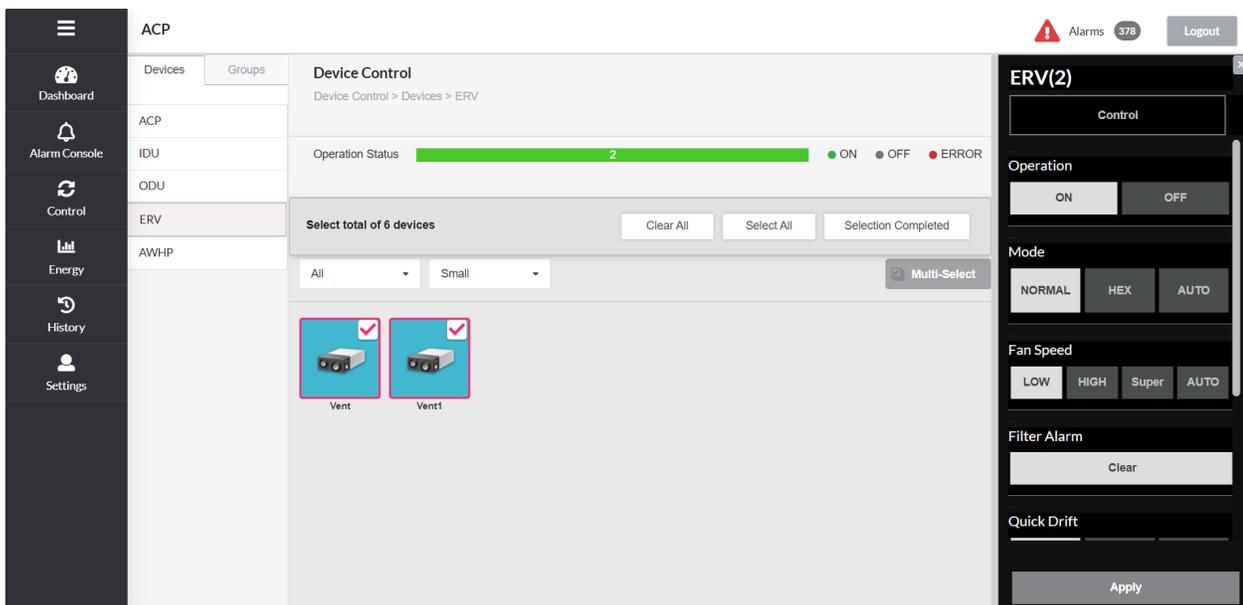


Figure 65: Device Control - Multi Select AWHP

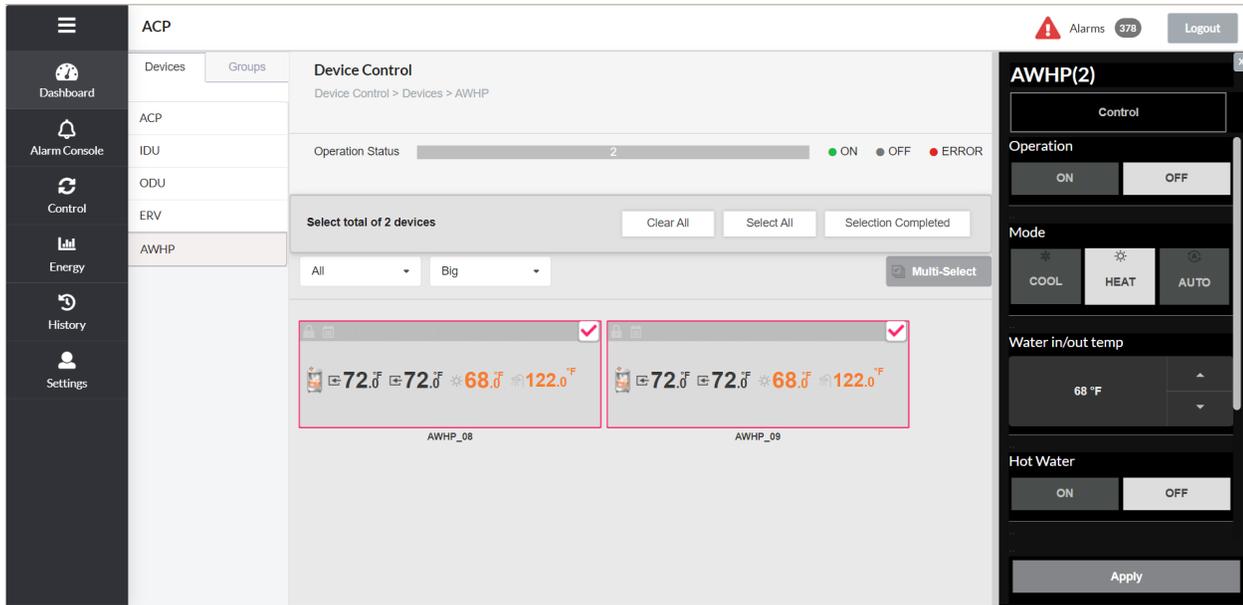
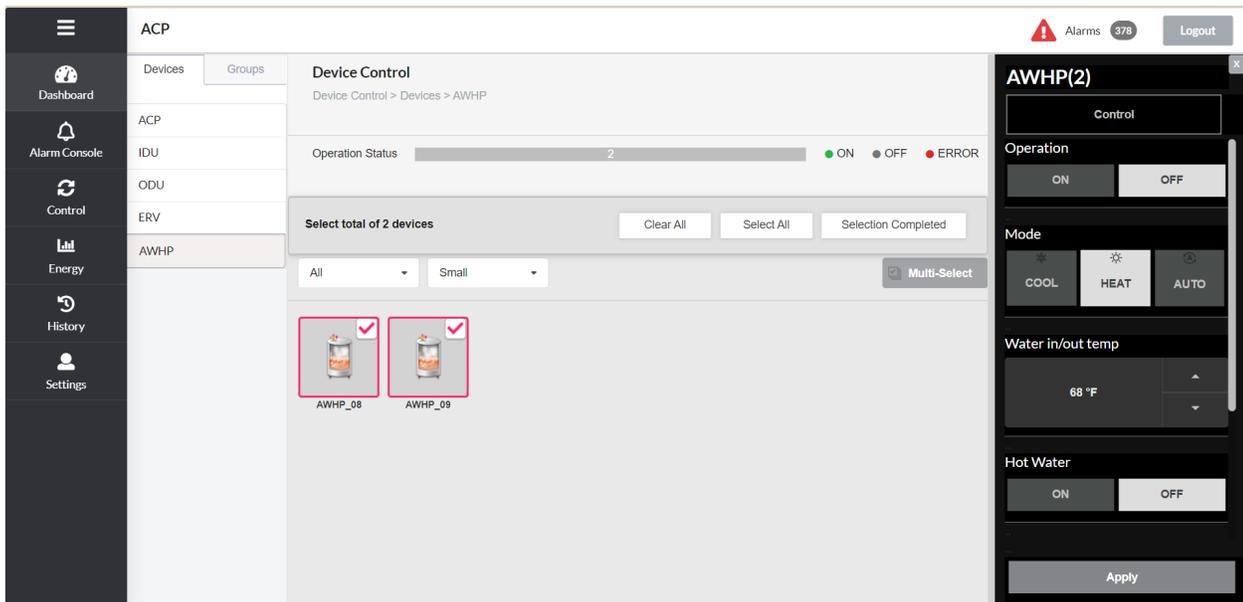


Figure 66: Device Control - Multi Select AWHP



Once the control action is complete, the user can click on the “Apply” button to update the edited changes to the data points in the Jace controller. All the selected devices will be updated with the control pane data which is edited. If the control pane is kept as default with no change in value, then the values are not updated when “Apply” button is clicked, only changed value is updated.

The multi select can be performed for device on Big as well as Small icon view. If different types of devices are selected for multiselect, then a message is displayed showing that different device selection is not allowed.

# **MOBILE VIEW**

The LG Appliance User Interface (UI) in version 2.0 supports HTML5 Responsive Design, which may be accessed from PC, tablet, and phone browser.

The Supported resolutions are:

- iPhone 6/7/8 – 375 x 667
- Pixel 2 XL – 411 x 823
- iPadPro – 1024 x 1366
- Custom resolution – 1000 x 600

NOTE: User cannot access the Niagara -4.9.0.198 version of the velocity views application through a mobile device. The builds listed below include a patch from Tridium.

1. Mobile-ux : 4.9.0.198.1
2. Web-rt : 4.9.0.198.4
3. Jetty-rt : 4.9.0.198.2

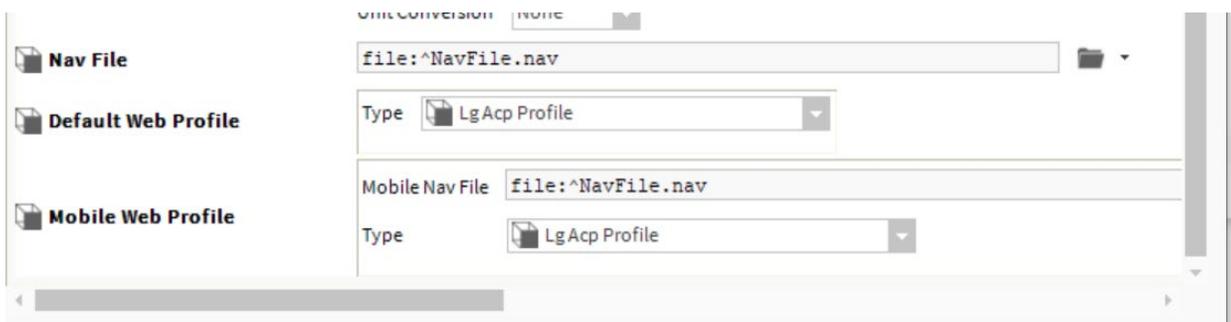
Please follow below steps.

1. Install the following new patch and dependent modules.



2. Profile and Nav File should be set up for both default web and mobile profile for the user in the User Service. Refer to the image below.

Figure 67: Profile and Nav File



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