



LG MultiSITE™ Communications Manager USER MANUAL

The screenshot displays the LG MultiSITE Communications Manager interface. At the top right, there is a "Log Out" button. The main interface is divided into several sections:

- All Indoor Unit Controls:** Includes a section for "Indoor Unit" with "OFF" and "ON" buttons.
- Time:** Shows the date "2016.10.21" and time "05:43 AM" with a clock icon.
- Today's Schedule:** Lists events: "4:08_testIdu", "5:01_test1", "5:09_test2", "5:24_conf89", and "6:12_TestWeek". A large "5 event" indicator is present.
- Running Status(Unit):** Features a donut chart showing the status of units: Running (26), Stop (1), and Error (4).

At the bottom, there is a navigation bar with icons for "Control/Monitor", "Schedule", "Energy Report", "Event Log", "Installing", and "Environment". The bottom left shows a "Home" button, and the bottom right shows the time "AM 05:43".

Model Number: PBACNBTR0A
(PBACNBTR0 + ZSMA01BMS)

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⊘ *Do not throw away, destroy, or lose this manual.*
Please read carefully and store in a safe place for future reference.
Content familiarity required for proper installation.

The instructions included in this manual must be followed to prevent product malfunction, property damage, injury, or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. A summary of safety precautions begins on page 4.

For more technical materials such as submittals, engineering databooks, and catalogs, visit www.lghvac.com.

UM_MultiSITE_Communications_Manager_12_18

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SAFETY INSTRUCTIONS

The instructions below must be followed to prevent product malfunction, property damage, injury or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. The level of seriousness is classified by the symbols described below.

TABLE OF SYMBOLS

 DANGER	<i>This symbol indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</i>
 WARNING	<i>This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</i>
 CAUTION	<i>This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</i>
Note:	<i>This symbol indicates situations that may result in equipment or property damage accidents only.</i>
	<i>This symbol indicates an action that must not be performed.</i>

This manual describes the features of the graphical user interface of the LG MultiSITE™ Communications Manager (Model number: PBACN-BTR0A).

Refer to the LG MultiSITE Communications Manager Installation Manual for installation and mounting instructions of the controller.

DANGER

 **Do not use or store flammable gas or combustibles near the unit.**

There is risk of fire, explosion, and physical injury or death.

Disconnect power before installing or servicing the unit.

There is risk of physical injury or death due to electric shock.

 **Do not touch any exposed outdoor unit wiring, terminals, or other electrical components with tools or exposed skin. Only qualified technicians must install, use, or remove this unit.**

Improper installation or use may result in fire, explosion, electric shock, physical injury and/or death.

SAFETY INSTRUCTIONS

WARNING

All electric work must be performed by a licensed electrician and conform to local building codes or, in the absence of local codes, with the National Electrical Code, and the instructions given in this manual.

If the power source capacity is inadequate or the electric work is not performed properly, it may result in fire, electric shock, physical injury or death.

 **Do not change the settings of the protection devices.**

If the pressure switch, thermal switch, or other protection device is shorted and forced to operate improperly, or parts other than those specified by LG are used, there is risk of fire, electric shock, explosion, and physical injury or death.

Dispose of any packing materials safely.

- *Packing materials, such as nails and other metal or wooden parts may cause puncture wounds or other injuries.*
- *Tear apart and throw away plastic packaging bags so that children may not play with them and risk suffocation and death.*

 **Do not install the MultiSITE Communications Manager unit if it will be exposed to rain or other precipitation.**  **Do not install the unit in a location exposed to open flame or extreme heat.**  **Do not touch the unit with wet hands.**

There is risk of fire, electric shock, physical injury and/or death.

CAUTION

Wear protective gloves when handling equipment.

Sharp edges may cause personal injury.

SAFETY INSTRUCTIONS

Note:

Disconnect power before installing or servicing the unit.

There is risk of equipment damage or degraded performance.

MultiSITE Communications Manager unit is for use with select LG air conditioning systems only. Ⓞ Do not attempt to use this unit with any other type of system.

There is risk of equipment damage or degraded performance.

Clean up the site after all procedures are finished, and check that no metal scraps, screws, or bits of wiring have been left inside or surrounding the controller or indoor units.

Ⓞ **Do not allow water, dirt, or animals to enter the controller.**

There is risk of unit failure or degraded performance.

Ⓞ **Do not spill water or other liquid on the inside of the controller. Ⓞ Do not drop the controller into water. If the unit is immersed in water or other liquid, contact your local authorized LG distributor for support.**

There is risk of unit failure or degraded performance.

Remove all power to controller before attaching (plug in) or detaching (unplug) any option module.

There is risk of possible equipment damage.

Ⓞ **Do not remove the controller's cover.**

No configurable or user-serviceable items (such as jumpers or a battery) require cover removal. All items are accessible as switches and connectors on the unit's top, bottom, and side, or behind the unit's front access door or microSD card shutter.

This device is only intended for use as a monitoring and control device. Ⓞ Do not use it for any other purpose.

There is risk of data loss or equipment damage.

Before removing or inserting the microSD card, disconnect all power to the controller and use static discharge precautions.

There is risk of equipment damage.

The MultiSITE Communications Manager unit is not compatible with a Power-Over-Ethernet (POE) network. Ⓞ Do not connect the controller on a network segment which carries power.

The unit may fail.

CERTIFICATIONS

The MultiSITE Communications Manager 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.

LG MultiSITE™ Communications Manager Controller

The MultiSITE Communications Manager (Model number: PBACNBTR0A) is a compact and powerful controller that allows third party integration of an LG HVAC system into a Building Management System via BACnet®, LonWorks® and Fox® protocols. The MultiSITE Communications Manager is a network ready, out of the box integration solution and includes the LG pre-engineered, graphical user interface.

The controller integrates all LG Multi V™ systems, Multi F systems, and select LG single zone systems with third party building management systems. Lon Export supports a maximum number of 40 LG devices (IDUs, ODU, ERVs, AWHPs).

Graphical User Interface

This manual describes the features of the controller's GUI (graphical user interface). The GUI provides functionality to perform the following actions:

- Monitor individual indoor units or groups of indoor units
- Set operation values for indoor units, such as temperature, mode, fan speed, etc.
- Create weekly or monthly schedules.
- Generate daily or monthly power and gas consumption reports.
- View audit log of events and alarms.
- Configure users, network settings, email accounts, gateway export, etc.

Installation

The MultiSITE Communications Manager controller is for indoor use only, in an altitude of up to 2,000m (6,562 ft). Mount the controller in a location that allows clearance for wiring, servicing, and module removal.

Refer to the LG MultiSITE Communications Manager Installation Manual for installation and mounting instructions, and also for environmental requirements for the operation of the MultiSITE Communications Manager controller.

Note:

LG MultiSITE™ Communications Manager will be referred to as MultiSITE Communications Manager in this manual. PBACNBTR0 is the model number for the MultiSITE Communications Manager controller. ZSMA01BMS is the model number for the software maintenance agreement.



LonWorks®



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HOME VIEW

Login

1. Run the MultiSITE Communications Manager controller.
2. After entering your ID and password in the login window, tap the Confirm button.

Figure 1: MultiSITE Communications Manager Controller Login.



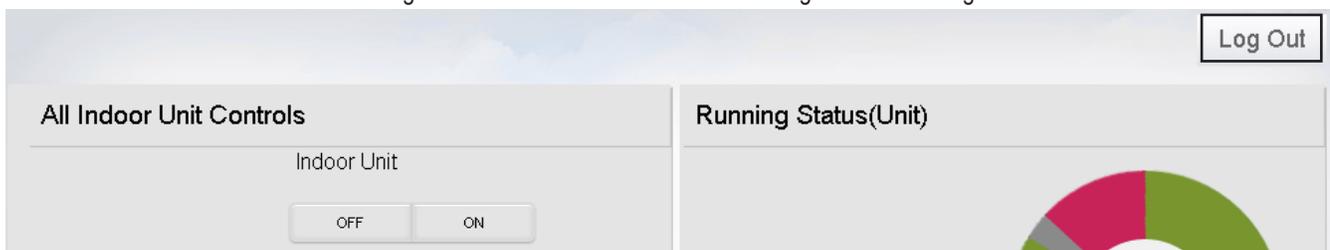
The screenshot shows a login interface with the following elements:

- Title:** Login
- ID Field:** A text input field containing the text "system_admin".
- Passwd Field:** A text input field with a red border and the placeholder text "Input Password.".
- save ID:** A checkbox with a checkmark icon and the text "save ID".
- Confirm:** A large, light blue button with the text "Confirm".

Log Out

Tap the Log Out button on the top right of the Home screen to log off the current logged in user.

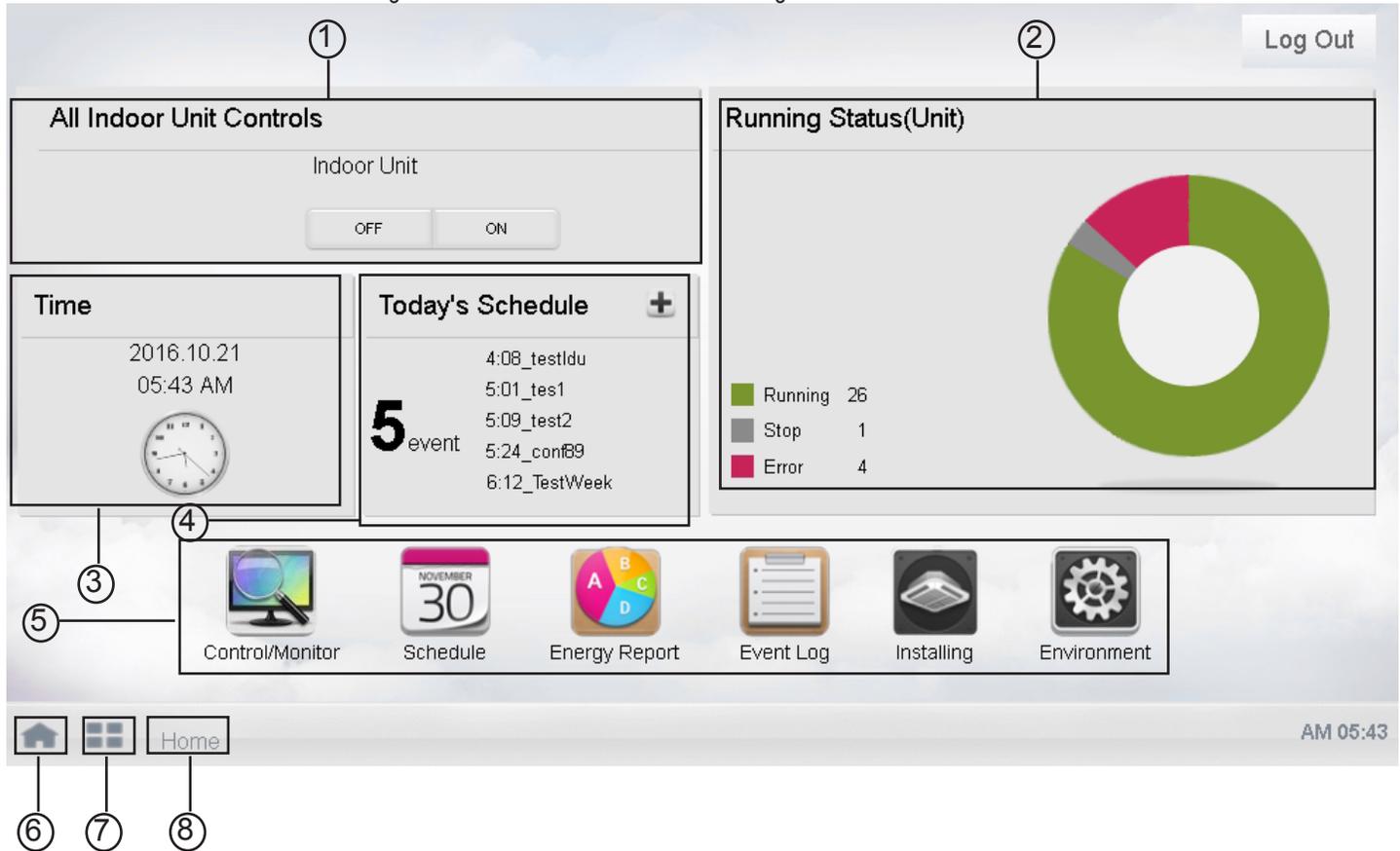
Figure 2: MultiSITE Communications Manager Controller Logout.



Home View

After successful login, the MultiSITE Communications Manager Home View appears on the browser.

Figure 3: MultiSITE Communications Manager Controller Home View.



Number	Item	Description
1	All Indoor Unit Controls	Tap the ON button to set the Operation Setting point of all the Indoor Units to ON. Tap the OFF button to set the Operation Setting point of all the Indoor Units to OFF
2	Running Status	The Running Status pane displays the number of the units that are running, have been stopped, or are in error status. The Pie Chart updates automatically when devices are added, removed, or if there is a change in their operation status.
3	Time	This displays today's date and time.
4	Today's Schedule	This displays the events scheduled for a today. Tap the + icon to navigate to the Schedule View.
5	Main Menu	The main menu at the bottom displays a list of different views of the controller.
6	Home	Tap on the Home view icon to navigate to the Home screen from any other view.
7	View	Tap on the View icon to access the List menu from any other view.
8	Current menu	Tap on this icon to display the active menu.

INSTALLING VIEW

Installing Tab

To access the Installing View, tap the  icon in the Home View screen. All devices connected to the MultiSITE Communications Manager controller display in this view.

There are three tabs in this view: Grouping, Installing, and Cycle Monitoring.

Installing Tab

Installing tab displays all the devices in the MultiSITE Communications Manager controller.

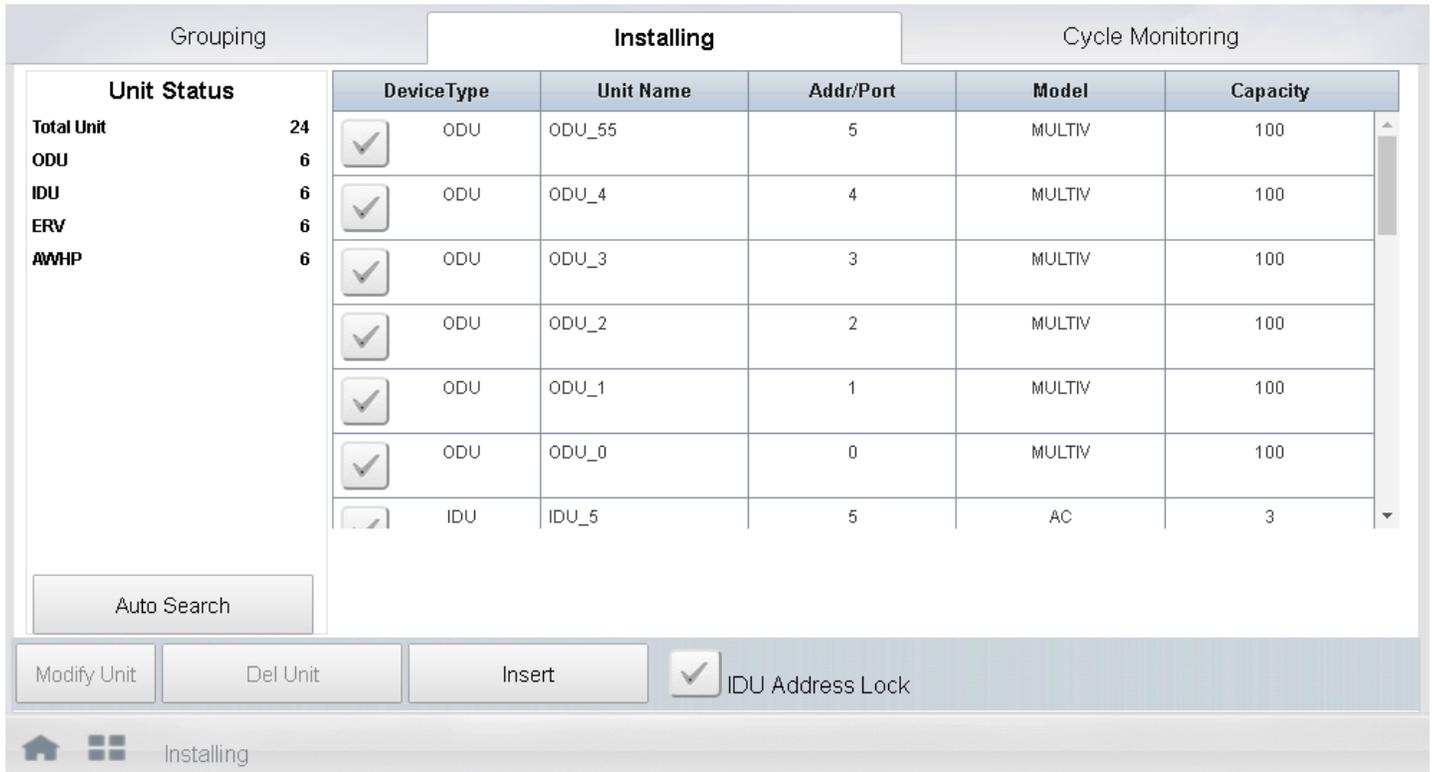
Unit Status

The Unit Status pane displays the total number of devices and also the individual device count for each device type, such as ODU, IDU, ERV and AWHP.

Device details

The details of each device, such as Type, Unit Name, and Address are displayed to the right of the Unit Status pane, where any device may be selected.

Figure 4: Installing View.



The screenshot shows the 'Installing' tab of the MultiSITE Communications Manager interface. It features a 'Unit Status' pane on the left and a table of device details on the right. Below the table are control buttons for 'Modify Unit', 'Del Unit', 'Insert', and 'IDU Address Lock'. The bottom navigation bar shows the 'Installing' tab is active.

Unit Status		DeviceType	Unit Name	Addr/Port	Model	Capacity
Total Unit	24	<input checked="" type="checkbox"/> ODU	ODU_55	5	MULTIV	100
ODU	6	<input checked="" type="checkbox"/> ODU	ODU_4	4	MULTIV	100
IDU	6	<input checked="" type="checkbox"/> ODU	ODU_3	3	MULTIV	100
ERV	6	<input checked="" type="checkbox"/> ODU	ODU_2	2	MULTIV	100
AWHP	6	<input checked="" type="checkbox"/> ODU	ODU_1	1	MULTIV	100
		<input checked="" type="checkbox"/> ODU	ODU_0	0	MULTIV	100
		<input checked="" type="checkbox"/> IDU	IDU_5	5	AC	3

INSTALLING VIEW

Installing Tab

Auto Search

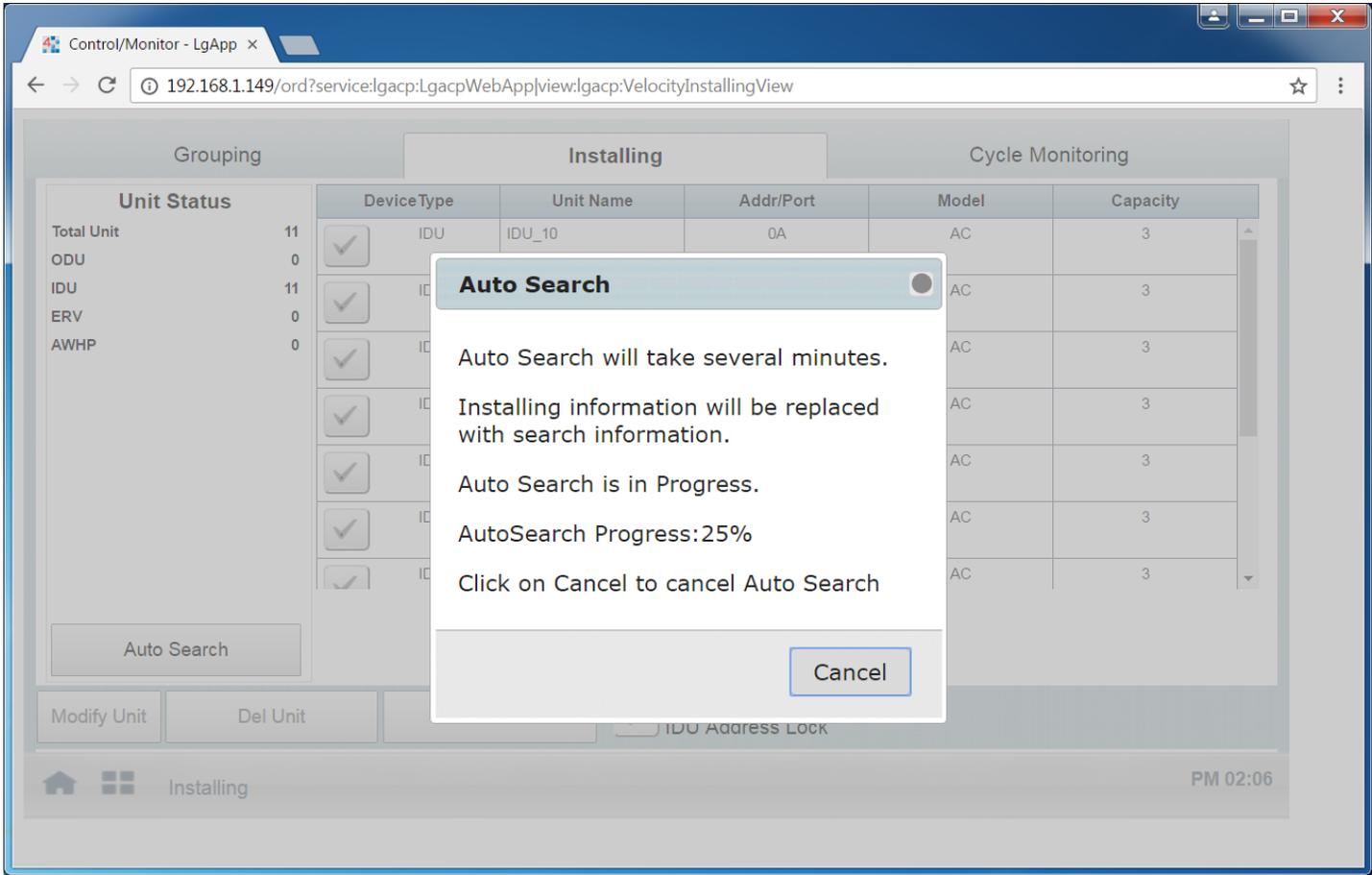
The AutoSearch feature is used to discover all the LG devices connected to the MultiSITE Communications Manager controller, and then add the discovered devices.

In the Installing view, tap the AutoSearch button. This starts the device discovery process.

Note that the discovery process takes some time to finish.

- A dialog box displays the progress of the AutoSearch process. When the AutoSearch process completes, the dialog box closes.
- All the discovered devices are added automatically. The Installing View refreshes automatically and displays all the discovered devices.

Figure 5: AutoSearch Devices.



INSTALLING VIEW

Installing Tab

Insert a device manually

1. To add a device manually, tap the Insert button in the Installing view.
2. In the pop-up window, select the Device Type. Enter the device name and device address.
3. Tap Insert to add the device manually.

An error message appears if the Unit Name field is empty, if a duplicate device name is entered, or if the address is outside of the 0-255 range.

Figure 6: Insert device.

Grouping	Installing	Cycle Monitoring				
DeviceType	Unit Name(20 Characters)	Address(00-FF)	Model(20 Characters)	Capacity	Add at once	Insert
ODU	Unit Name	Address	Model	Capacity		

Modify device details

1. Select a device from the devices list in the Installing View and tap the Modify Unit button.
2. In the pop-up window, change the Unit Name and address of the device.
3. Tap Update.

Figure 7: Modify device details.

Grouping	Installing	Cycle Monitoring				
DeviceType	Unit Name(20 Characters)	Address(00-FF)	Model(20 Characters)	Capacity	Add at once	Update
ODU	ODU_2	2	Model	Capacity		

Unit Status		Device Type	Unit Name	Addr/Port	Model	Capacity
Total Unit	12					
ODU	3	<input checked="" type="checkbox"/>	ODU_2	2		
IDU	3					
ERV	3	<input checked="" type="checkbox"/>	ODU_1	1		
AWHP	3	<input checked="" type="checkbox"/>	ODU_0	0		

Delete Unit

Select the devices in the Installing tab using the corresponding check box and tap the Delete Unit button. A confirmation dialog box displays. Click Yes to delete all of the selected devices.

Figure 8: Delete device.

Delete Device Confirmation

Selected Devices will be deleted.

Do you want to Continue?

Yes No

IDU Address Lock

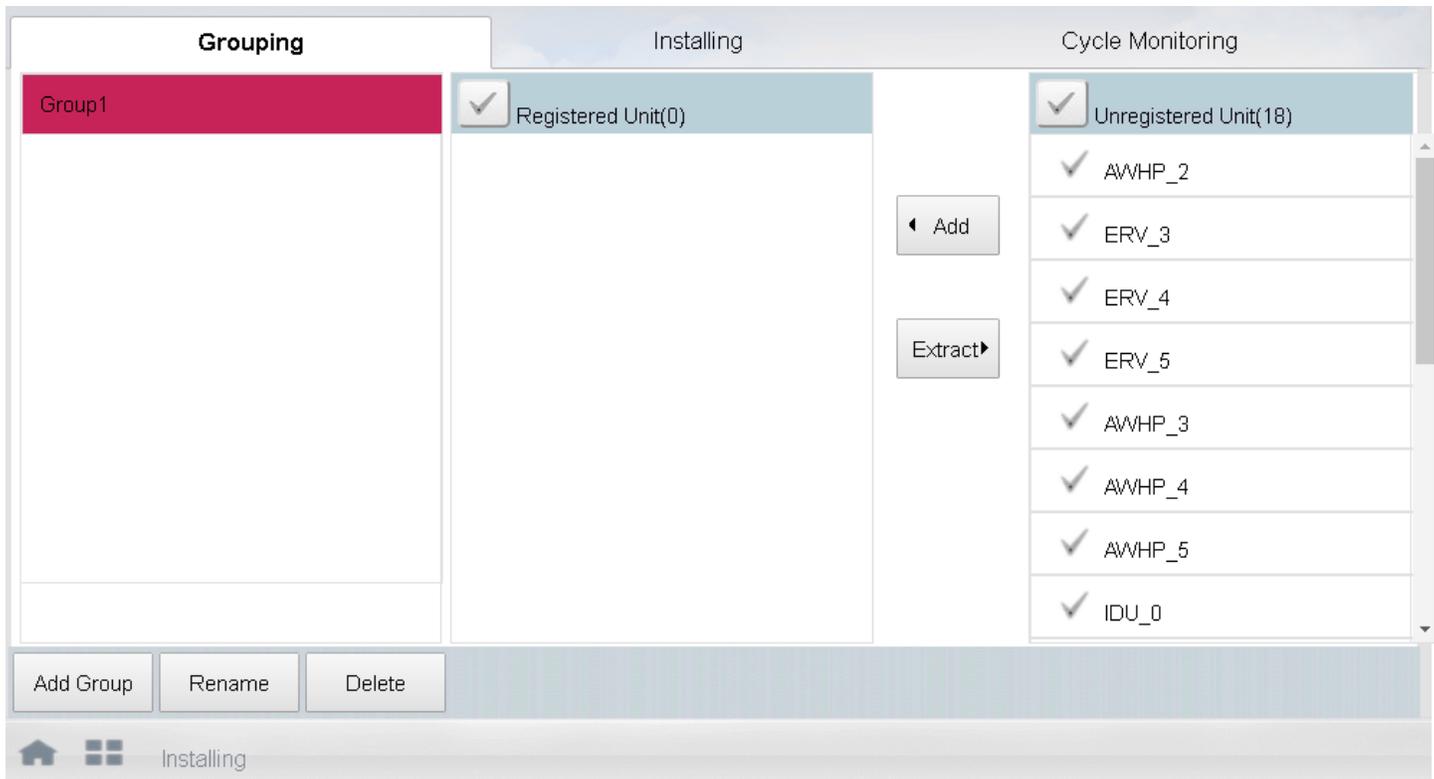
When the IDU Address Lock check box is selected, the point "IDU Address Lock Setting" is set to True for all IDUs in the Niagara™ station.

Grouping Tab

The Grouping tab in the Installing View is used to manage all groups in the MultiSITE Communications Manager controller.

- The Group Name pane displays all the groups. The first group is selected by default.
- The Registered Unit list displays all the devices registered within the selected group.
- The Unregistered Unit list displays all the discovered devices that are unregistered. Devices can be added to the Registered Unit list or extracted from the Unregistered Unit list.

Figure 9: Grouping View.



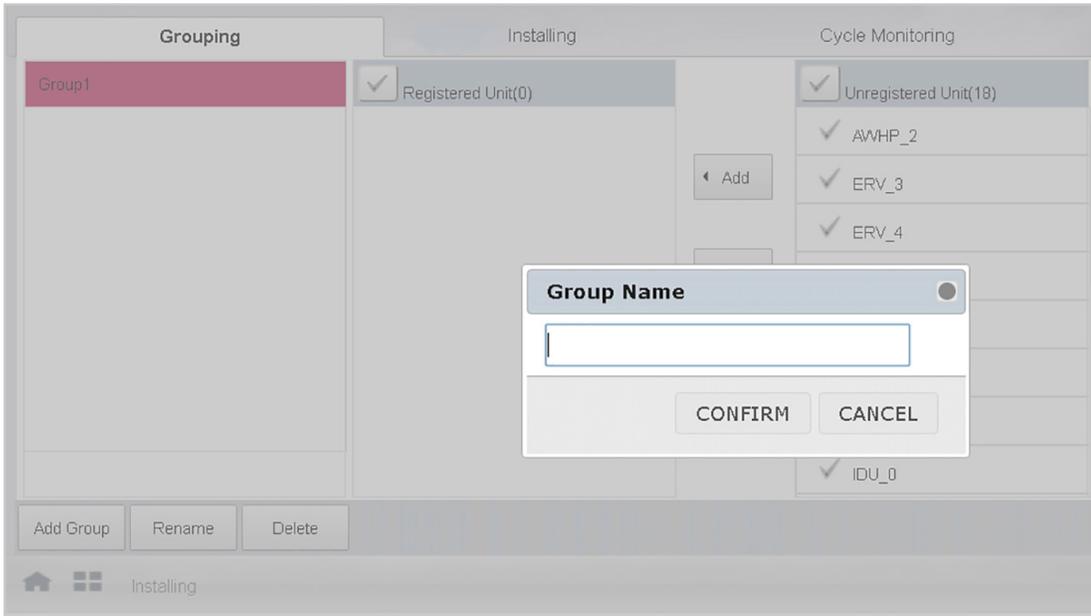
INSTALLING VIEW

Grouping Tab

Add New Group

To add a new group, tap the Add Group button and enter a Group Name. Tap Confirm in the pop-up window to create the new group and add it to the list. If the group name already exists, an error message appears.

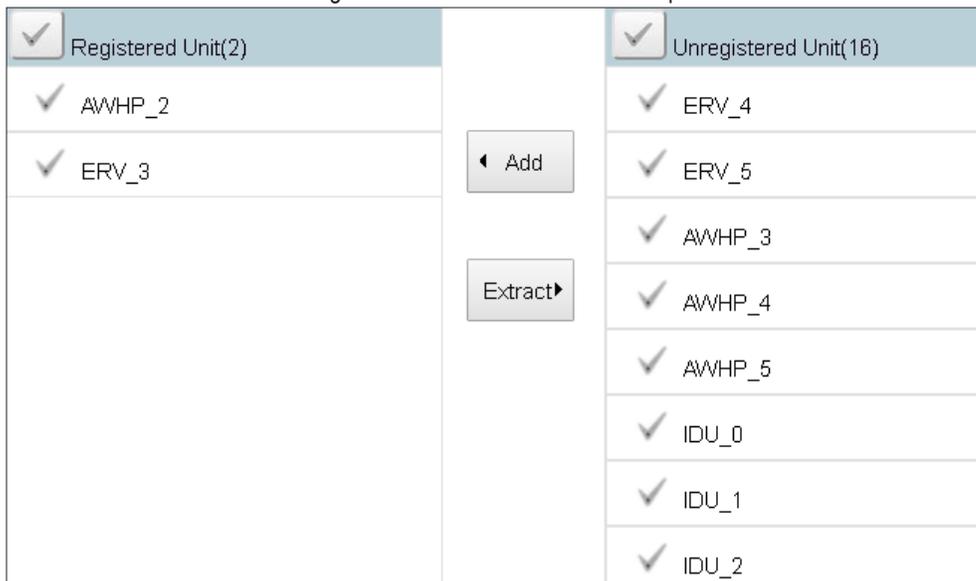
Figure 10: Add New Group.



Add Devices to the Group

To add devices to the selected group, select the devices from the Unregistered Unit list and tap the Add button. The selected devices will be added to the group and will be removed from the Unregistered Unit list.

Figure 11: Add Devices to the Group.



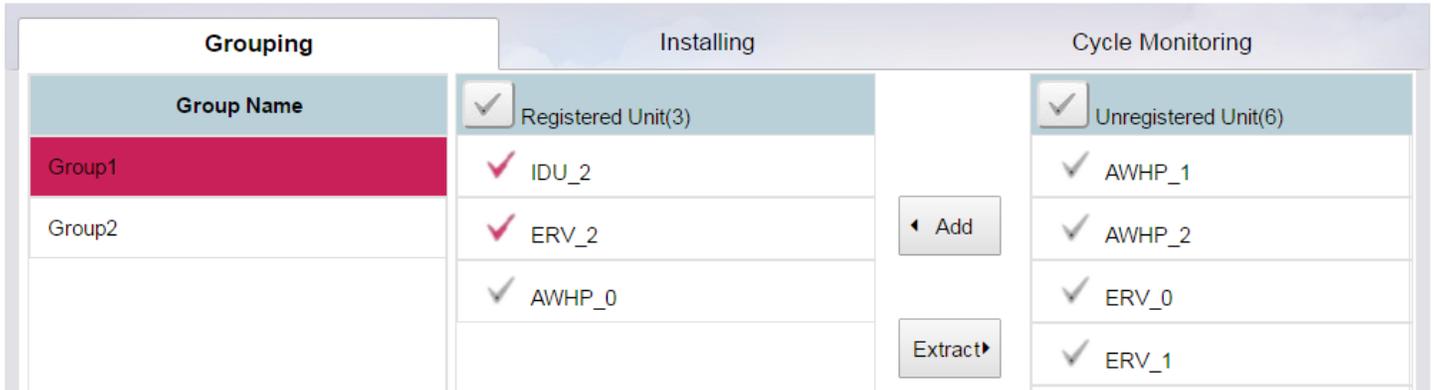
INSTALLING VIEW

Grouping Tab

Remove Devices from a Group

1. Select a group, and then select the devices from the Registered Unit list.
 2. Tap the Extract button to remove. The selected devices will be added to the Unregistered Unit list and will be removed from the group.
- To select or unselect all the devices from a list, select the check box on top of the Registered Unit or Unregistered Unit list.

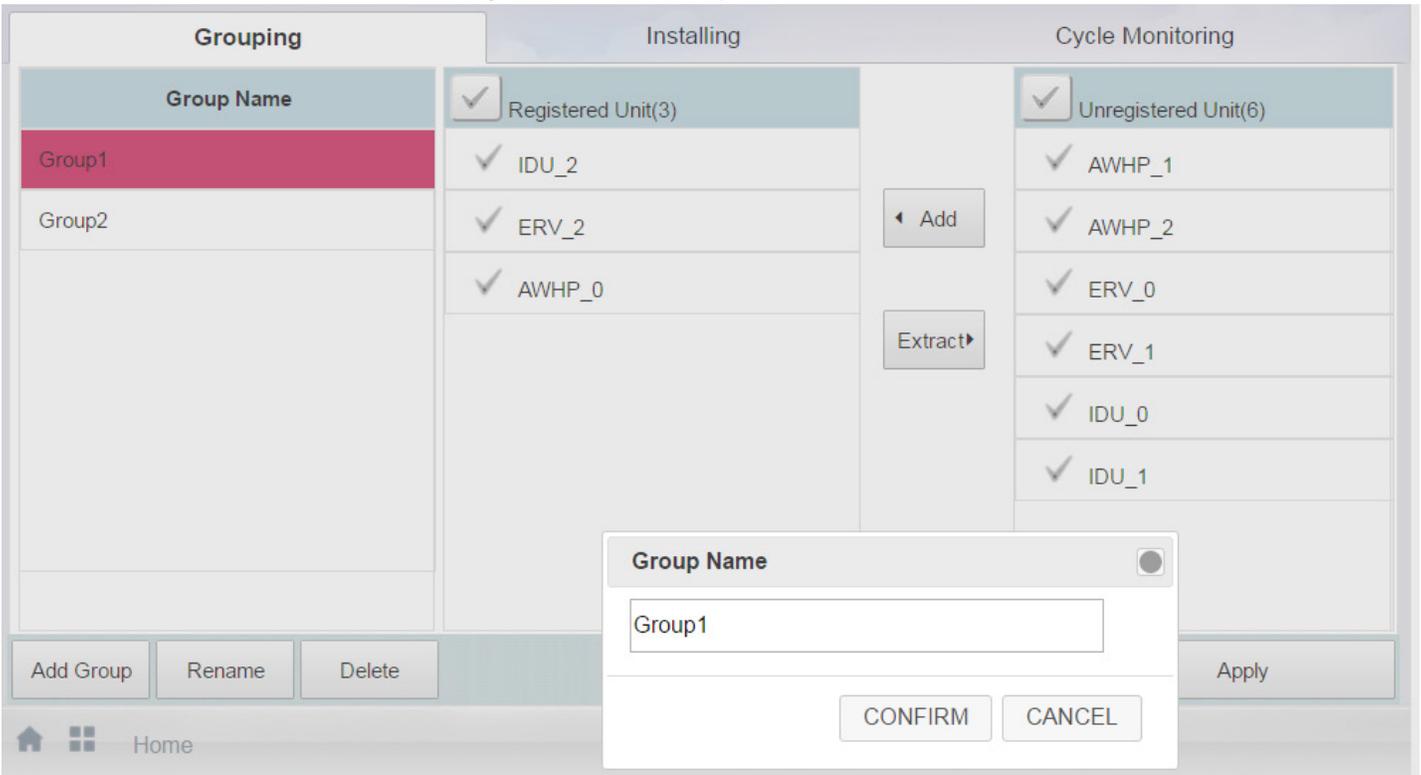
Figure 12: Remove Devices.



Rename a Group

Select a group and tap the Rename button to change the group name. If the group name already exists, an error message appears.

Figure 13: Rename Group.



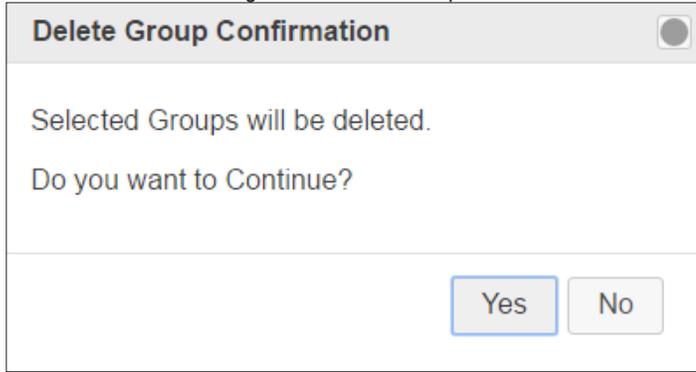
INSTALLING VIEW

Grouping Tab

Delete a Group

Select a group and tap the Delete button. The group will be deleted along with the devices under the group.

Figure 14: Delete Group.



Cycle Monitoring Tab

The Cycle Monitoring tab displays the ODU Cycle Information and IDU Cycle information for all the ODU devices in the MultiSITE Communications Manager controller.

When an ODU device is selected from the list, the Cycle Information for all of the Slave devices under that ODU display on the screen.

Figure 15: ODU Cycle Information.

ODU Cycle Information			
Master	Slave 1	Slave 2	Slave 3
ODU Address	0	Heat Exchange Temp	58.0 °C
ODU Unit Type	Super	Subcool Inlet Temp	0.0 °C
Operation Mode	-1	Subcool Outlet Temp	106.0 °C
MICOM Ver.	0.0	Subcool EEV	288.0
Error Code	0.00	Hot Gas Valve	Close
Inverter Comp Freq	80.0	Inverter Discharge Temp.	158.0 °C
Inverter FAN1 Freq	23.0	Refrigerant	R22
Inverter FAN2 Freq	23.0		
Air Temp	103.0 °C		
High Pressure	109.0		
Low Pressure	89.0		
Suction Temp	114.0 °C		
Liquid Pipe Temp	71.0 °C		

INSTALLING VIEW

Cycle Monitoring Tab

IDU Cycle Information

The IDU Cycle Information section displays the Cycle information for the IDUs associated with the selected ODU device.

Figure 16: IDU Cycle Information.

The screenshot shows the 'Cycle Monitoring' tab selected. On the left, there is a list of ODU devices: ODU, ODU1, ODU2, ODU3, and ODU4. The 'ODU' item is highlighted in red. On the right, the 'IDU Cycle Information' section is displayed, which includes a sub-tabbed interface with 'Master', 'Slave 1', 'Slave 2', and 'Slave 3' tabs. Below these tabs is a table with the following data:

Unit Name	Group Name	Operation	Error	Mode	Target Temp	Fan
IDU_1	test1	OFF	0.00	HEAT	28.0 °C	Low
IDU_2	test1	ON	0.00	AUTO_COOL	26.5 °C	Low
IDU_3	test2	ON	0.00	FAN	25.0 °C	Auto

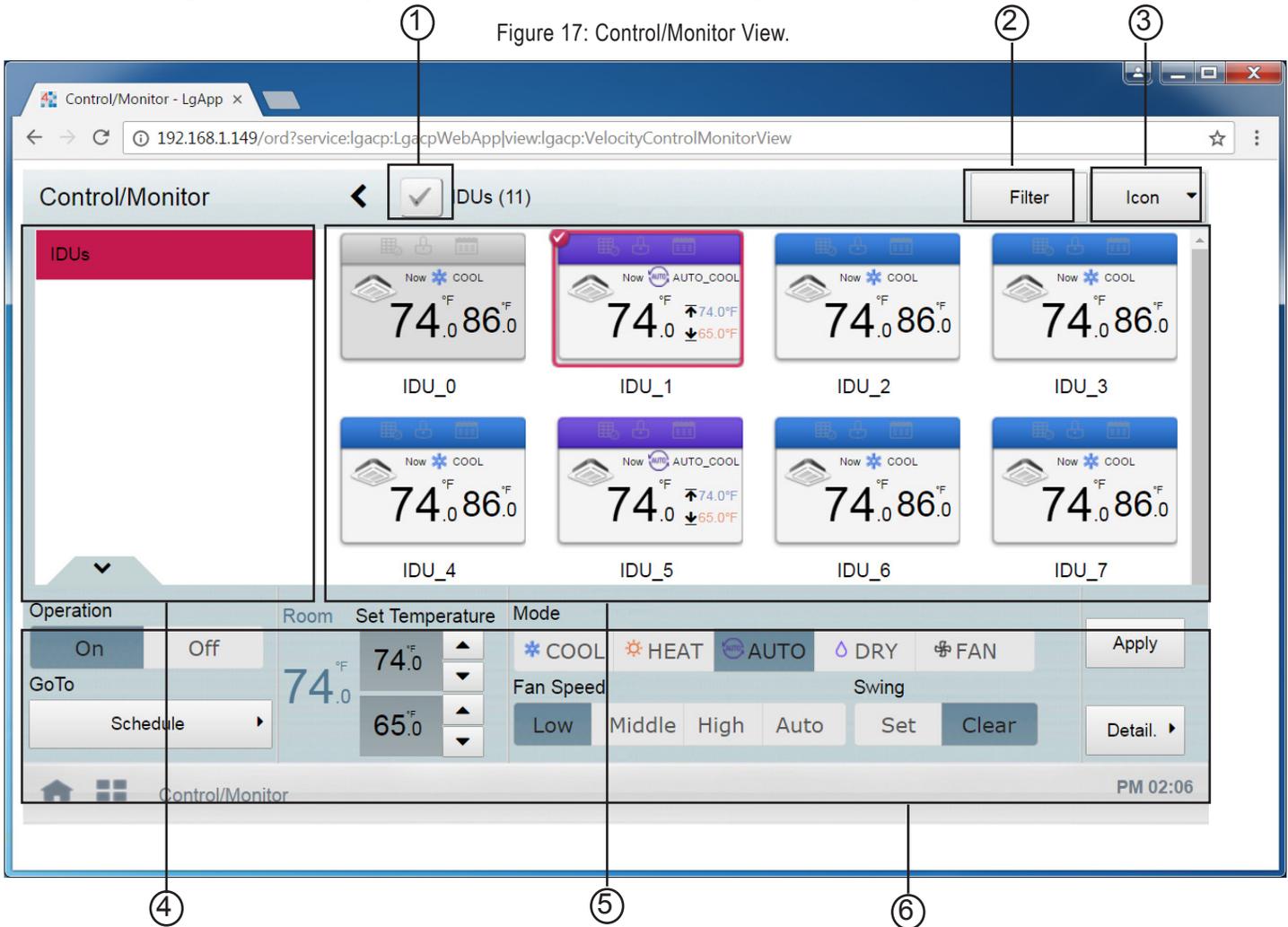
CONTROL/MONITOR VIEW



The Control/Monitor View displays all the groups existing in the MultiSITE Communications Manager controller. Tap the Control/Monitor icon in the Home View screen to access the Control/Monitor View.

- When a group is selected, all the devices under the group display on the right pane along with the device properties. The first group is selected by default.
- Device icon displays the device type, such as IDU, ERV, or AWHP.
- Device mode displays the current operation mode of the device. Operation mode icons are updated when operation mode is changed.
- If there are no groups, all the unregistered devices are shown under the Unregistered Devices group.

Figure 17: Control/Monitor View.



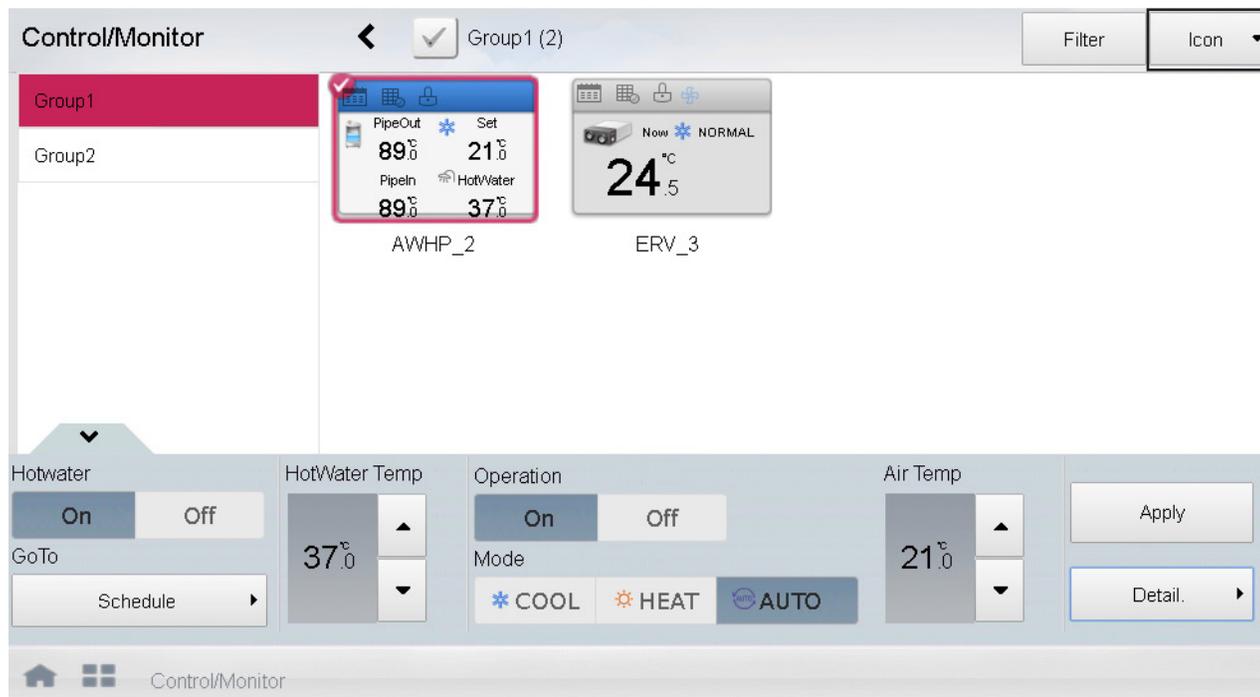
Number	Item	Description
1	Select/Deselect All	Select/deselect all devices in a group.
2	Filter button	Select which device types are displayed for monitoring and control.
3	View Type Select	Select a view type (Icon/Simple) for the monitoring screen.
4	Group List	Check device group listings.
5	Monitoring screen	Check the control status of a device.
6	Device Control section	When a device is selected on the Monitor screen, a Controls section appears at the bottom of the screen based on the selected device type.

CONTROL/MONITOR VIEW

Icon/Simple View

The Control/Monitor screen has two different types of views, Icon and Simple. Tap the View Type Select menu on top to toggle between Icon and Simple Views.

Figure 18: Icon View.



Simple View

Figure 19: Simple View.

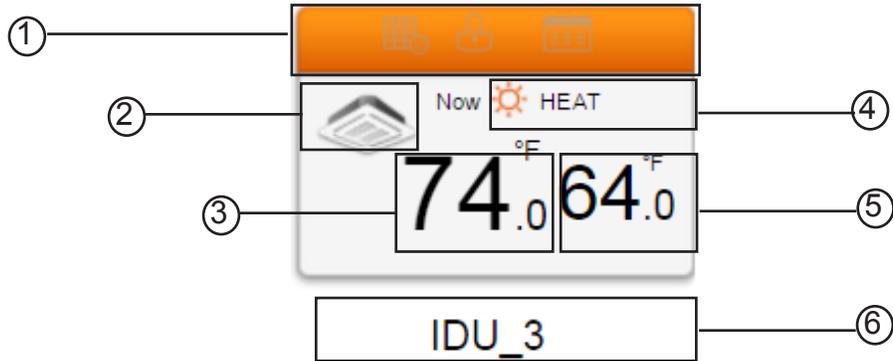


Number	Item	Description
1	Operation Mode	The color of the box shows the operation status of the device. Different color displays if the device is in Heat mode, Cool mode, etc.
2.	Device icon	This is the device icon. The device shown may not represent the appearance of the actual unit.

CONTROL/MONITOR VIEW

Icon View

Figure 20: Icon View.



Number	Item	Description
1		Operation Mode and Device status icon The color on top of the device icon shows the operation status of the device. Different color displays if the device is in Heat mode, Cool mode, etc.
2.		Device icon This is the device icon. The device shown may not represent the appearance of the actual unit.
3.		Current temperature Example of current temperature of the device.
4.		Operation Mode This shows the current operation mode of the device, such as, Cooling, Heating, Fan, etc. Fan Speed icon is shown for the IDU device based on the fan speed value.
5.		Desired temperature Example of desired temperature of the device.
6.	IDU 3	Device name Name of the device.

CONTROL/MONITOR VIEW

Monitoring View Colors and Icons

Operation Mode Icons

Color	Icon	Description
 (Blue)		Cooling
 (Orange)		Heating
 (Orange)		Ventilation, Electric Heat
 (Navy)		Dehumidification
 (Sky Blue)		Fan
 (Sky Blue)		Ventilation, General
 (Green)		Power Saving
 (Purple)		Auto
 (Purple)		Ventilation, Auto
	-	Error

Monitoring View Colors and Icons, continued

Device Status Icons

Icon	Description
	Filter Exchange
	Full Lock On
	Schedule

Control Device Icons

Icon	Device Type
	Indoor Device
	ERV
	AWHP

CONTROL/MONITOR VIEW

Set Values for IDUs

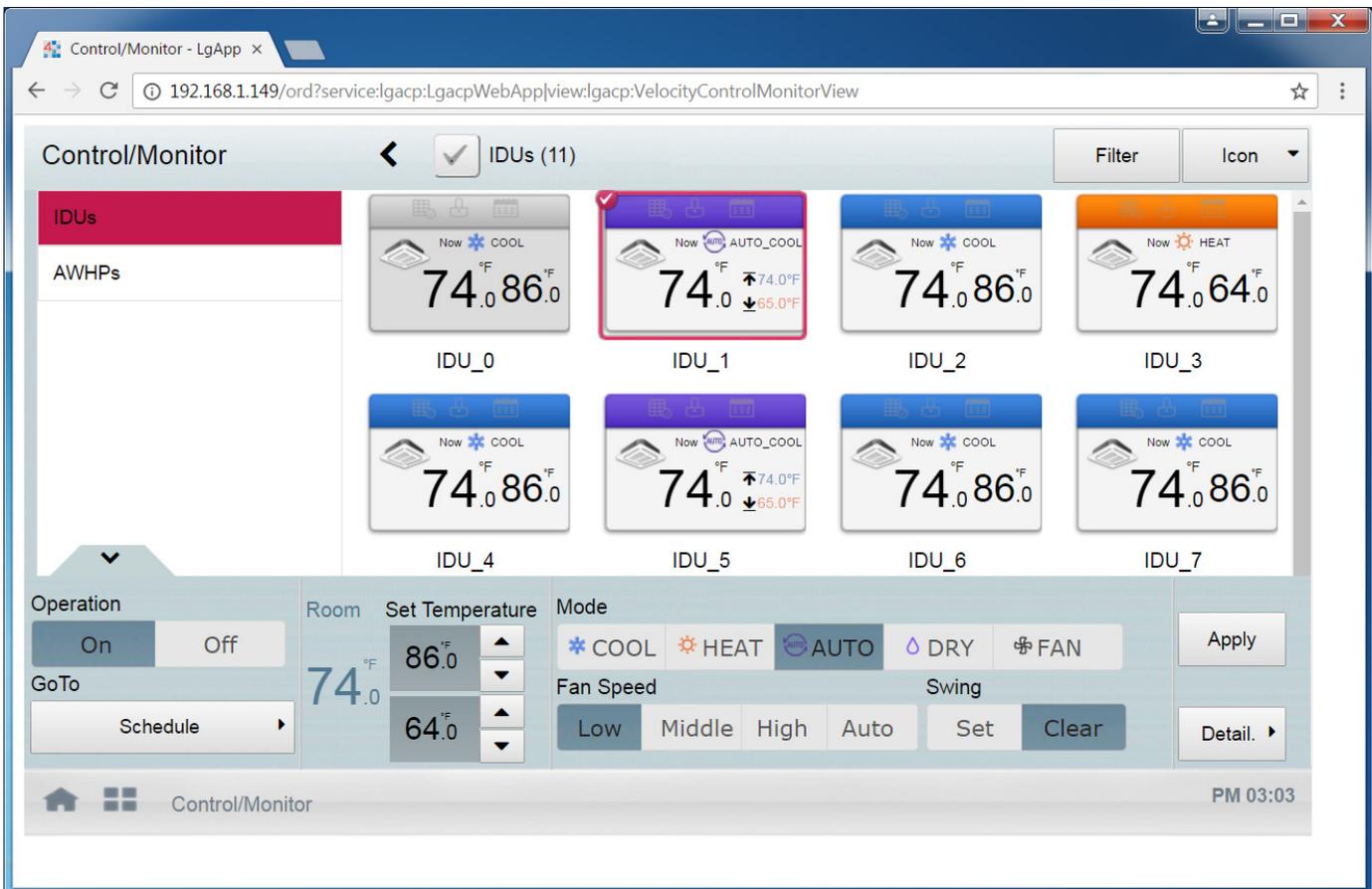
Set values for IDUs

When an IDU group is selected, all the IDU devices under that group display on the right pane. The device name, device icon, device operation mode, current room temperature, and desired set temperature also display for the selected IDU.

When one or more IDU devices are selected within the IDU group, a Device Controls section appears at the bottom of the Control/Monitor screen.

1. To set Operation Status, Temperature value, Mode, Fan Speed and Swing controls for the selected IDU devices, select the desired values in the Controls section. See the table in the next section for details on the available controls.
2. Tap Apply. The Monitor View is updated with the new values for the devices.

Figure 21: IDU Control View.



Note:

Multiple devices can be selected from the Control/Monitor View. The Controls section only appears if the devices selected belong to the same device type. If different device types are selected, the Device Controls section does not appear.

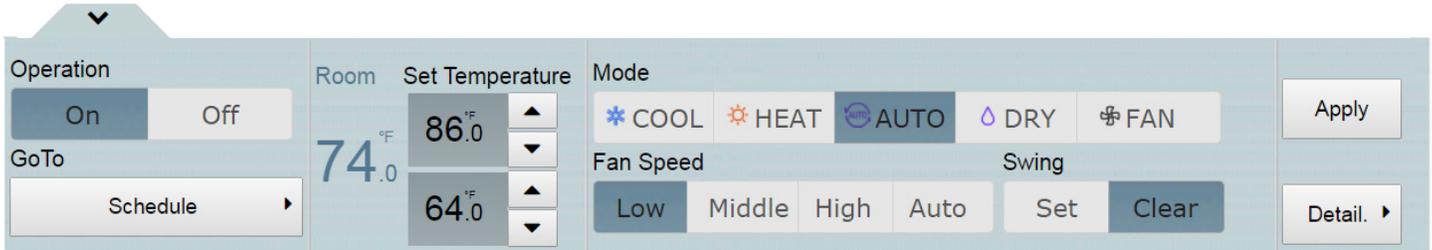
CONTROL/MONITOR VIEW

Device Controls for IDUs

Device Controls for IDU

The following table describes the controls available when one or more IDU devices is selected.

Figure 22: Device Controls for IDU.



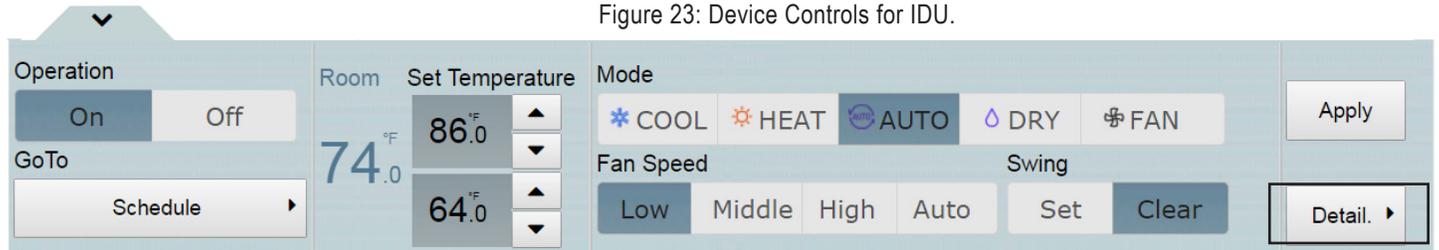
Item	Description
Operation	<ul style="list-style-type: none"> ON button: Starts the operation of the device. OFF button: Stops the operation of the device.
GoTo Schedule button	Access the Schedule menu.
Room	Displays the current temperature at configured sensor(s).
Set Temperature	Tap [▲]/[▼] to set the temperature. The maximum/minimum temperatures that can be set may differ depending on the model of unit controlled.
Mode	<ul style="list-style-type: none"> COOL: Sets the IDU in Cooling Mode. HEAT: Sets the IDU in Heating Mode. AUTO: Evaluates the operating environment conditions and automatically sets the mode of operation. DRY: Sets the IDU in Dry Mode. When the IDU is in this mode, the temperature cannot be set. FAN: Sets the IDU in Fan Mode. Fan runs to clean the air. When the IDU is in this mode, the temperature cannot be set.
Fan Speed	<ul style="list-style-type: none"> LOW: Slow fan speed. MED: Medium fan speed. HIGH: Fast fan speed. AUTO: Fan speed automatically adjusts between low, medium, and high.
Swing	<ul style="list-style-type: none"> Set: Turns on automatic oscillation of the louvers if present. Clear: Turns off automatic oscillation of the louvers if present.
Apply button	Apply the selected control menu settings to the device.
Detail button	Enables the user to set additional properties for the IDU. The Monitor View is updated with the new values. See the next section for more details.

CONTROL/MONITOR VIEW

Device Controls for IDUs

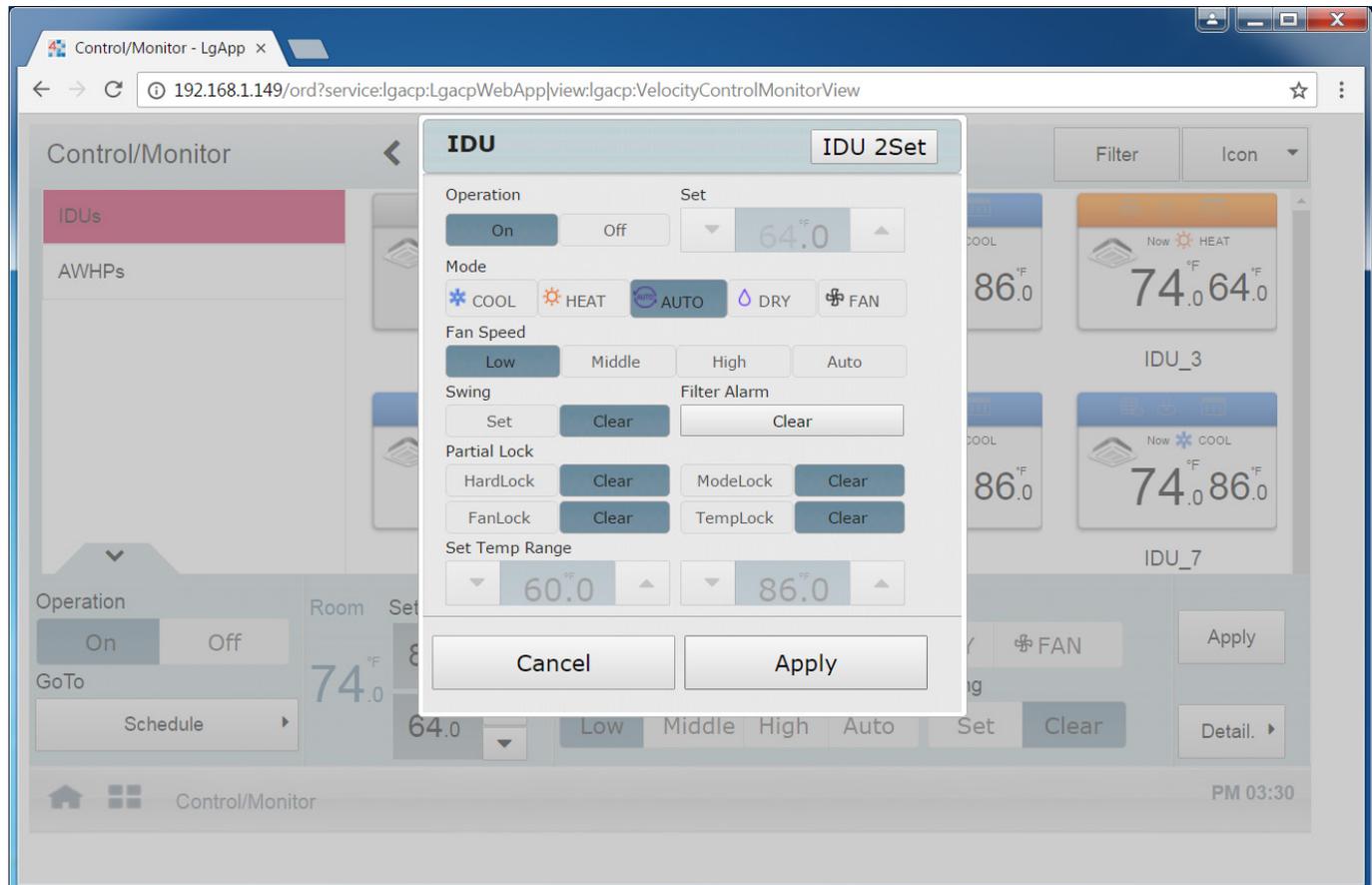
Set IDU Details

To set additional properties for the IDU device, tap the Detail button in the Device Controls section. See the figure below.



In the Details window, set up values for the IDU device, such as operation, temperature values, mode, fan speed, swing, locks and temperature range values. The filter sign alarm on the IDU device can also be released.

Figure 24: IDU details.



CONTROL/MONITOR VIEW

Device Controls for IDUs

Set IDU Details, continued.

The following table describes the controls available when the Detail button is selected in the Device Controls section.

Item	Description
Operation	<ul style="list-style-type: none"> • ON button: Starts the operation of the device. • OFF Button: Stops the operation of the device.
Set	Tap [▲]/[▼] to set the temperature.
Set Temperature	Tap [▲]/[▼] to set the temperature. The maximum/minimum temperatures that can be set may differ depending on the model of unit being controlled.
Mode	<ul style="list-style-type: none"> • COOL: Sets the IDU in Cooling mode. • HEAT: Sets the IDU in Heating mode. • AUTO: Evaluates the operating environment conditions and automatically sets the mode of operation. • DRY: Sets the IDU in Dry mode. When the IDU is in this mode, the temperature cannot be set. • FAN: Sets the IDU in Fan mode. Fan runs to clean the air. When the IDU is in this mode, the temperature cannot be set.
Fan Speed	<ul style="list-style-type: none"> • LOW: Slow fan speed. • MED: Medium fan speed. • HIGH: Fast fan speed. • AUTO: Fan speed automatically adjusts between low, medium, and high.
Swing	<ul style="list-style-type: none"> • Set: Turns on automatic oscillation of the louvers if present. • Clear: Turns off automatic oscillation of the louvers if present.
Filter Alarm	Tap the Clear button to deactivate the filter exchange alarm. This feature is dependent on models.
Partial Lock	<p>HardLock: Disables thermostat control for all features.</p> <ul style="list-style-type: none"> • Clear: All functions are unlocked. <p>ModeLock: Disables thermostat control for local mode setting.</p> <ul style="list-style-type: none"> • Clear: Mode is unlocked. <p>FanLock: Disables thermostat control for local fan speed setting.</p> <ul style="list-style-type: none"> • Clear: Fan speed is unlocked. <p>TempLock: Disables thermostat control for local temperature setting.</p> <ul style="list-style-type: none"> • Clear: Temperature setting is unlocked.
Set Temp Range	Tap [▲]/[▼] to set the temperature limit.
Apply	Tap the Apply button to apply the selected settings to the IDU devices.
2Setpoint or IDU 2Set	If the IDU supports 2Set Point, the IDU 2Set button appears. Tap the IDU 2Set button to set up the 2Set point properties. Change Occupancy, Cooling and Heating Set points, as well as Cooling and Heating Lower and Upper Set points.

CONTROL/MONITOR VIEW

Device Controls for IDUs

Indoor 2Setpoint Controls

Tap the IDU 2Set button to display additional automatic control settings for the IDU.

Figure 25: IDU details.

The screenshot displays the 'IDU 2Set' control interface. At the top, there is a header with 'IDU' on the left and 'IDU 2Set' on the right. Below this, the interface is organized into several sections:

- Operation:** Features 'On' and 'Off' buttons. To the right is a 'Set' button and a temperature display showing '64.0' with up and down arrows.
- Mode:** Includes icons and labels for 'COOL', 'HEAT', 'AUTO' (which is currently selected), 'DRY', and 'FAN'.
- Fan Speed:** Offers 'Low', 'Middle', 'High', and 'Auto' options.
- Swing:** Has a 'Set' button and a 'Clear' button.
- Filter Alarm:** Includes a 'Clear' button.
- Partial Lock:** Contains four lock settings, each with a 'Clear' button: 'HardLock', 'ModeLock', 'FanLock', and 'TempLock'.
- Set Temp Range:** Features two temperature displays with up and down arrows, showing '60.0' and '86.0'.

At the bottom of the interface are two large buttons: 'Cancel' on the left and 'Apply' on the right.

CONTROL/MONITOR VIEW

Device Controls for IDUs

Indoor 2Setpoint Mode Icons

Icon	Device Type
	If the operation mode is 'AUTO', Cooling Set Temp (Blue) and Heating Set Temp (Orange) is shown. In other operation mode, only one Set Temp is shown.
	If the occupancy is 'Occupied', a human shape is shown.
	If 'OVERRIDE' is set on the remote control, OVERRIDE text is shown. OVERRIDE function allows you to switch the occupancy status (Occupied/Unoccupied) regardless of schedules or set-up time.
	If the occupancy is 'Occupied' and 'OVERRIDE' is set on the remote control, a human shape and OVERRIDE text is shown. OVERRIDE function allows you to switch the occupancy status (Occupied/Unoccupied) regardless of schedules or set-up time.

Note:

- This function is activated only when Auto Mode Option is 2Set Auto Mode, and IDU and the ODU support 2Set function.
- Under 2Set Auto mode, operation mode(cool, heat) status of the actual product is displayed along with Auto icon.
- The MultiSITE Controller's control command is above the occupancy sensor connected to the IDU.
- When Occupancy is changed, Cooling Set Temp and Heating Set Temp change to the most recent schedule's set temperature. If there is no schedule, Cooling Set Temp and Heating Set Temp are set to the default values.
- IDU can be set to Occupied ON, Occupied OFF, Unoccupied ON and Unoccupied OFF. When the IDU is OFF, neither Heating, Cooling, or Fan operation can occur.

For example, when the schedules are set up as follows,

09 AM – 12 noon: Occupied / Cooling Set Temp 80°F / Heating Set Temp 64°F

12 noon – 1 PM: Unoccupied / Cooling Set Temp 84°F / Heating Set Temp 60°F

1 PM – 3 PM: Occupied / Cooling Set Temp 78°F / Heating Set Temp 66°F;

then after 3 PM, if the room is occupied, Cooling Set Temp is 78°F and Heating Set Temp is 66°F. If the room is unoccupied, the Cooling Set Temp is 84°F and Heating Set Temp is 60°F.

CONTROL/MONITOR VIEW

Device Controls for IDUs

Depending on the installation site specifications, either the Auto Mode or 2Set Auto Mode can be selected. Go to Environment > Advance Setting > Auto Mode Option and select a desired auto mode type.

Indoor 2Setpoint (Auto Mode)

In the detail control window of the indoor unit, tap the 2Setpoint button to set up automatic control settings for the IDU. See the figure below for the available automatic control options.

Figure 26: IDU Set Point.

The following table describes the control settings available in the IDU Set Point window.

Item	Description
Occupancy	Set to Occupied or Unoccupied to change the room temperature depending on the room occupancy. <ul style="list-style-type: none"> [Occupied] Button : Set to Occupied [Unoccupied] Button : Set to Unoccupied
Cooling Set Temp	Tap [▲]/[▼] to set the cooling start temperature.
Cooling Upper Limit	Tap [▲]/[▼] to set the cooling upper limit temperature range.
Cooling Lower Limit	Tap [▲]/[▼] to set the cooling lower limit temperature range.
Heating Set Temp	Tap [▲]/[▼] to set the heating start temperature.
Heating Upper Limit	Tap [▲]/[▼] to set the heating upper limit temperature range.
Heating Lower Limit	Tap [▲]/[▼] to set the heating lower limit temperature range.

CONTROL/MONITOR VIEW

ERV Control View

Set values in ERV Control View

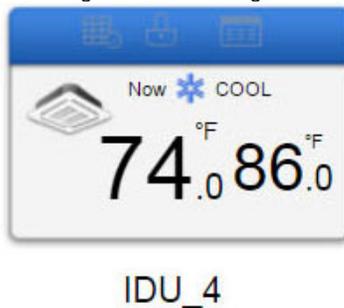
ERV Device View

When an ERV Group is selected, all the ERV devices under that group display, along with the device name, device icon for ERV, device operation mode, and current room temperature.

Note:

Fan Speed icon is shown for the ERV device based on the Fan Speed value.

Figure 27: IDU Single Set.

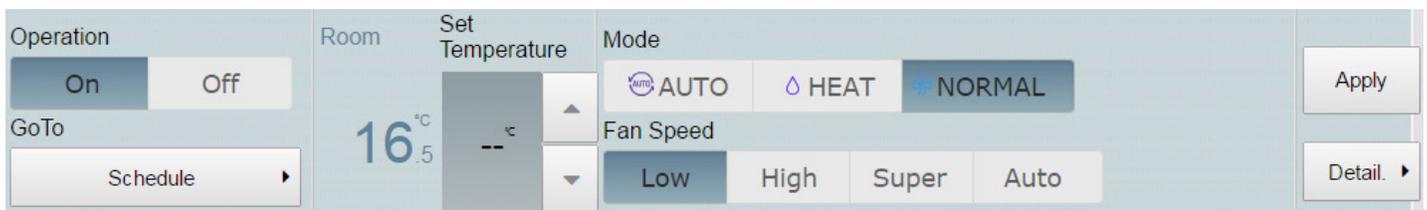


When one or more ERV devices are selected within the ERV group, a Controls section appears at the bottom of the Control/Monitor View screen. This enables the user to set up the Operation Status, Mode and Fan Speed controls for the selected ERV devices.

Set ERV Details

1. Select ERV device(s) from the Control/Monitor View.
2. To set the values on the ERV device, select the desired values in the Controls section.
3. Tap Apply. The Monitor View is updated with the new values for the devices.
 - Note that multiple devices can be selected from the Control/Monitor View. The Controls section at the bottom of the screen only appears if the devices selected belong to the same device type. If different device types are selected, the Controls section does not appear.

Figure 28: ERV Control View.



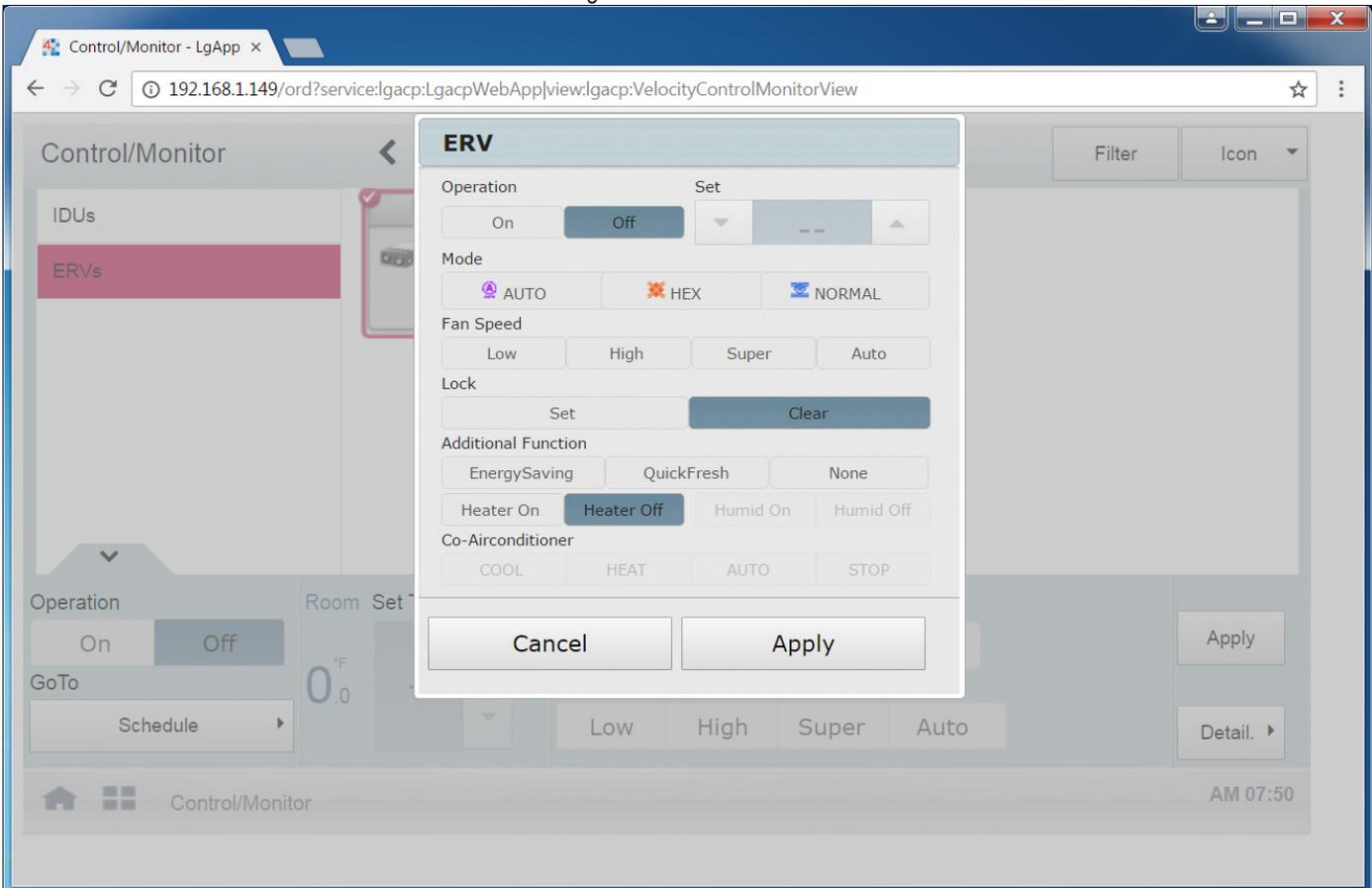
CONTROL/MONITOR VIEW

ERV Control View

Set ERV Details, continued.

4. To set more properties for the ERV device, tap the Detail button.
5. In the Details window, set up values such as Operation, Mode, Fan Speed, Partial Lock, User Mode, and Heater values.
6. Tap the Apply button. The new values are updated on the selected ERV devices and the Monitor View displays the changed values.

Figure 29: ERV Control View.

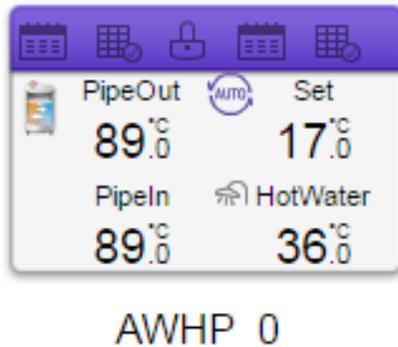


Set Values in AWHP Control View

AWHP Device View

When an AWHP group is selected, all the AWHP devices under that group display. The device name, device icon for AWHP (based on the Operation Mode), device operation mode, and the temperature values for the device display.

Figure 30: AWHP View.

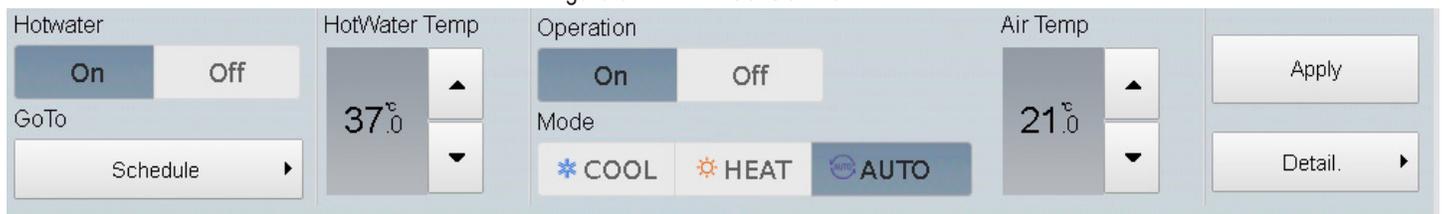


When one or more AWHP devices are selected within an AWHP group, a Controls section appears at the bottom of the Control/Monitor View screen. This enables the user to set up Hot Water Operation, Hot Water Temperature, Operation Status, Mode, and Air Temperature values for the selected AWHP devices.

Set AWHP Details

1. Select AWHP device(s) from the Control/Monitor View.
2. To set the values on the AWHP device, select the desired values in the Controls section.
3. Tap Apply. The Monitor View is updated with the new values for the devices.
 - Note that multiple devices can be selected from the Control/Monitor View. The Controls section only appears at the bottom of the screen if the devices selected belong to the same device type. If different device types are selected, the Controls section does not appear.

Figure 31: AWHP Control View.



CONTROL/MONITOR VIEW

AWHP Control View

Set AWHP Details, continued.

4. To set more properties for the AWHP device, tap the Detail button.

5. In the Details window, set up more values for the AWHP device, such as Operation, Hot Water Operation, Partial Lock, Mode, Air Temperature & Hot Water Temperature.

6. Tap the Apply button. The new values are updated on the selected AWHP devices and the Monitor View displays the changed values.

Note:

- Hot Water, Hot Water Temperature and Air Temperature controls are enabled/disabled based on the Product Type configured on the AWHP Property Sheet view in the workbench.
- The AWHP Operation Mode color is displayed based on the values of HotWater Status and Operation Mode values.

Figure 32: AWHP Control View.

The screenshot displays the 'AWHP' control interface. At the top, the title 'AWHP' is shown. Below it, there are several control elements: 'Operation' with a toggle switch set to 'On'; 'Hotwater' with a toggle switch set to 'Off'; 'Partial Lock' with a toggle switch set to 'Off'; 'Mode' with three buttons: 'COOL' (blue), 'HEAT' (orange), and 'AUTO' (blue, selected); 'Air Temp' with a numeric input field set to '18.0'; and 'HotWater Temp' with a numeric input field set to '50.0'. At the bottom, there are two buttons: 'Cancel' and 'Apply'.

CONTROL/MONITOR VIEW

AWHP Control View

AWHP Temperature Display

AWHP Operation Mode color is displayed based on the values of HotWater Status and Operation Mode values.

- AWHP temperature display can be configured when adding an AWHP device.

Figure 33: Adding AWHP Device.

DeviceType	Unit Name	Address(00-FF)	Model	Capacity	Temperature 1	Temperature 2	Add at once
AWHP	<input type="text" value="Unit Name"/>	<input type="text" value="Address"/>	<input type="text" value="Model"/>	<input type="text" value="Capacity"/>	PipeOut ▾	PipeOut ▾	<input type="text" value=""/>

Filter button

The Filter button enables the user to select devices to be displayed on the Control/Monitor view.

1. Tap the Filter button and select the desired device types to be shown on the Control/Monitor view.
2. Tap Apply to view the selected devices.

Figure 34: Filter function.

Filter

All List

IDU

ERV

AWHP

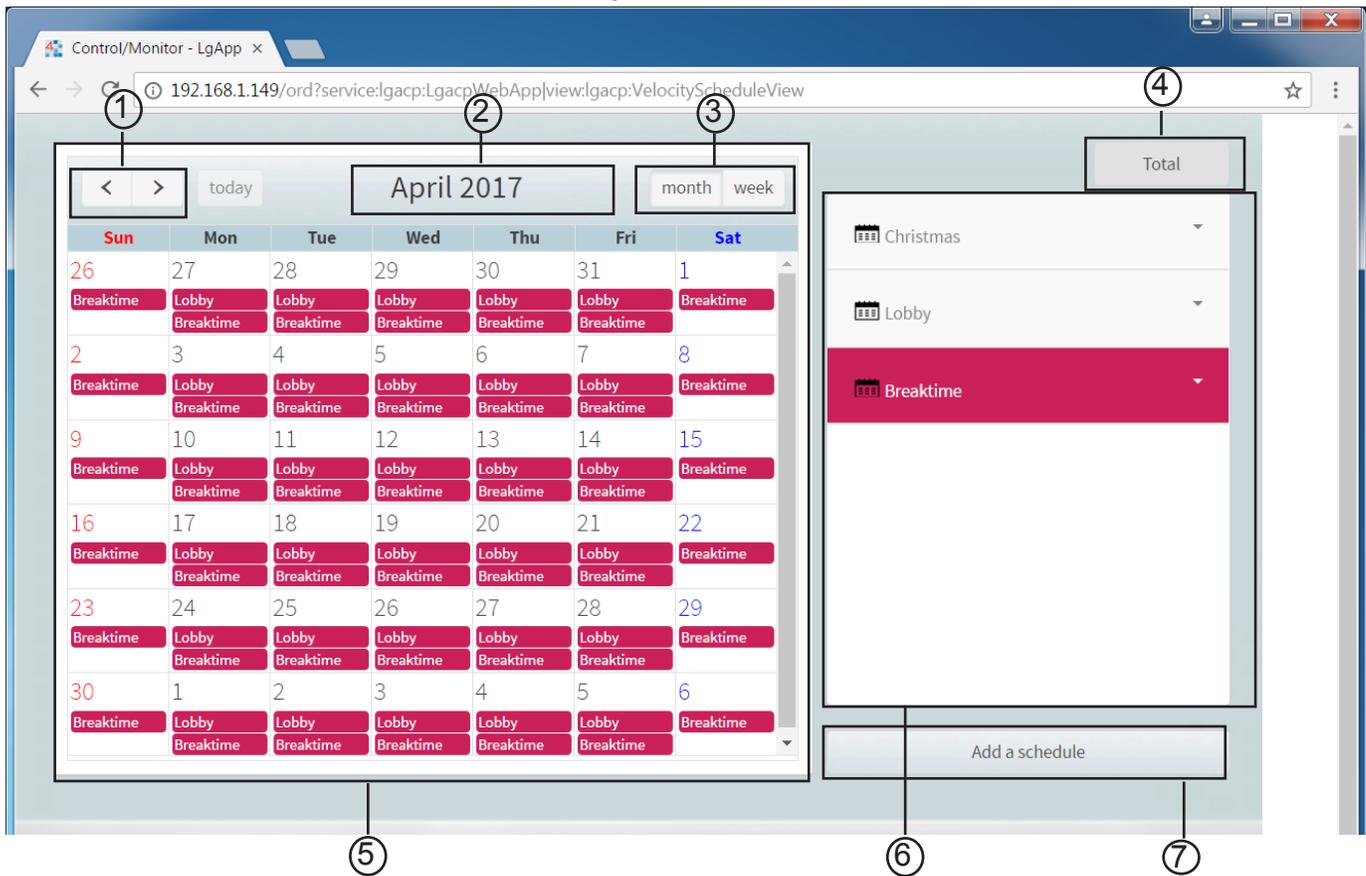
SCHEDULE VIEW

Tap the Schedule  icon in the Home View screen to access the Scheduling View.

This view lists the schedules for the 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. The Total pane lists all the existing schedules under the Total button.

The Schedule feature enables the user to program the behavior of the devices. If a device must adhere to a certain schedule, the device can be programmed to operate only at scheduled times. Scheduled devices do not activate unless programmed to do so and are managed centrally. This can significantly reduce energy consumption. Schedules are event driven. This means that devices are controlled once at the scheduled time.

Figure 35: Schedule View.



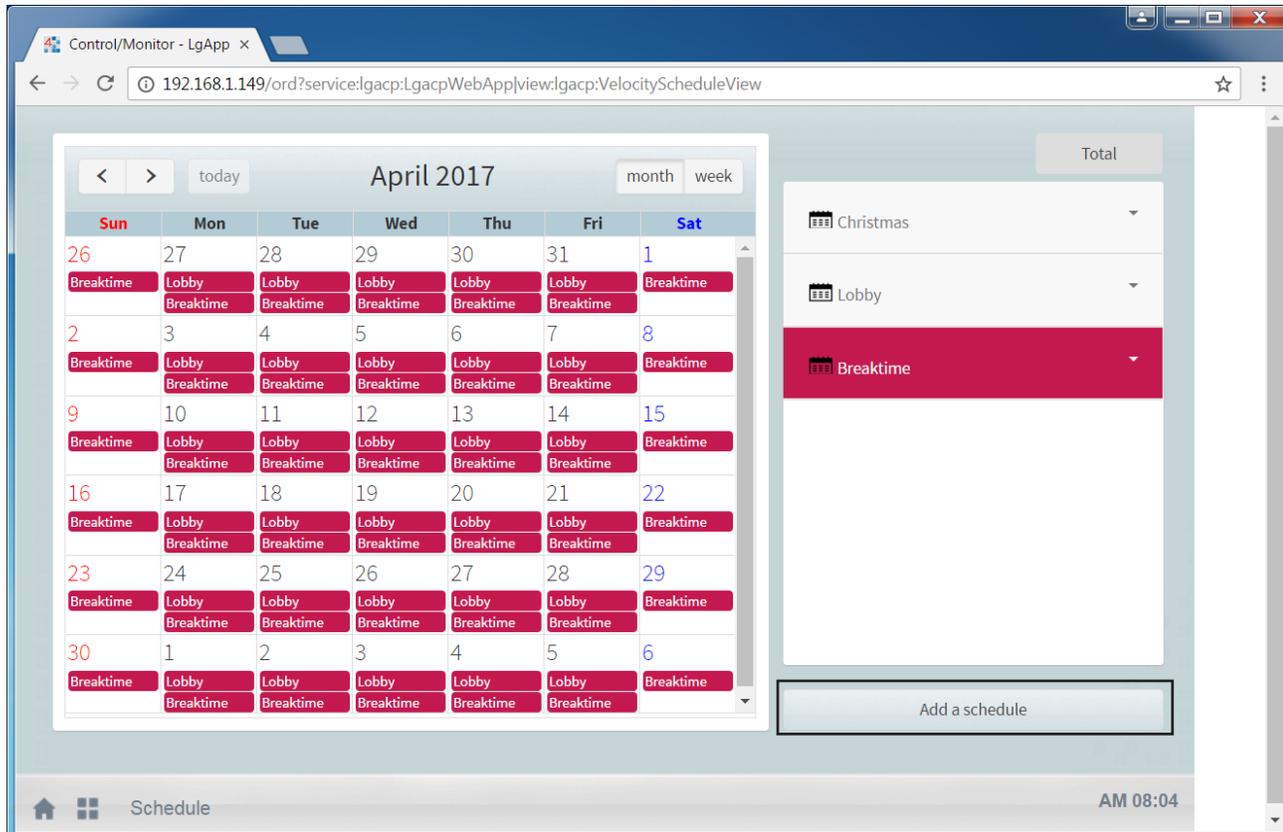
Number	Item	Description
1		These buttons enable toggling between different months of the year.
2	Month Name	Name of the month.
3	Month/Week	Month is selected by default. The Week button displays the weekly view of the schedules.
4	Total button	Displays the full schedule list.
5	Calendar	Displays the schedules for the selected dates. Today's date is marked in light blue.
6	Schedule List	Displays registered schedules by name.
7	Add a Schedule button	Navigate to the Schedule configuration view to add a new schedule.

Add New Schedule

To configure and add a schedule for a device, follow these steps.

1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
2. Tap the Add a Schedule button.

Figure 36: Add a Schedule button.



The Schedule Configuration window lists the groups created in the Grouping tab of the Installing view.

3. In the group list, select the devices for which a schedule will be applied.
4. Configure the schedule information for the device.

Note:

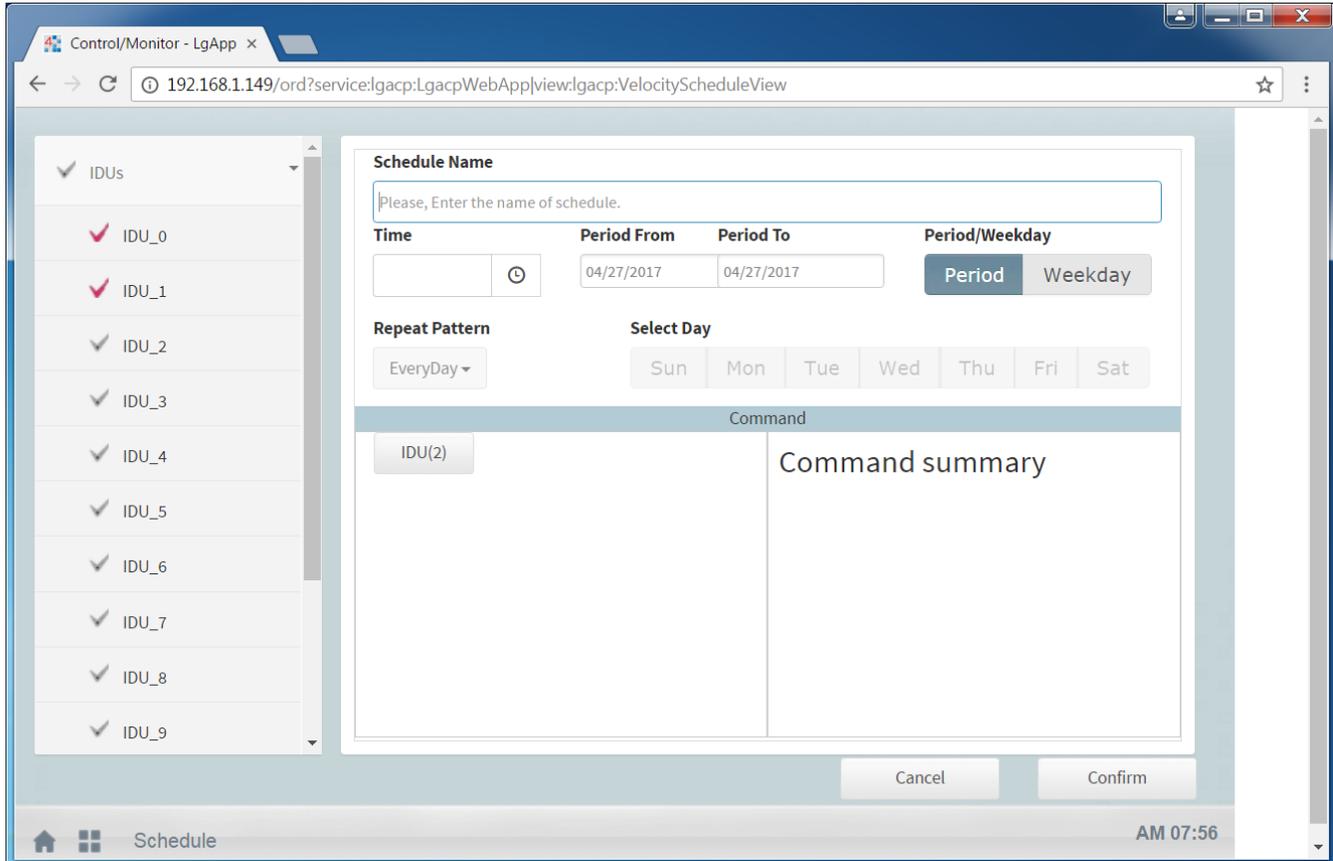
Before creating schedules, a group must be created in the Grouping tab of the Installing View.

SCHEDULE VIEW

Add New Schedule

Add New Schedule, continued.

Figure 37: Add new schedule.



Element	Function
Schedule Name	Enter the schedule name.
Time	Tap the clock button to select the desired time.
Period From and Period To	Use this option when the schedule is to be configured for specific time period. Special events can be configured using the From and To date option.
Repeat Pattern	<ul style="list-style-type: none"> Tap the Repeat Pattern area and select a desired pattern. Select Day: Selected days the schedule will be performed. Once: Applies a schedule once on a selected date. Everyday: Applies the same schedule Everyday. Mon - Fri: Applies a schedule repeatedly from Monday to Friday. Mon - Sat: Applies a schedule repeatedly from Monday to Saturday.
Select Day	A schedule using this method is configured for each week day.

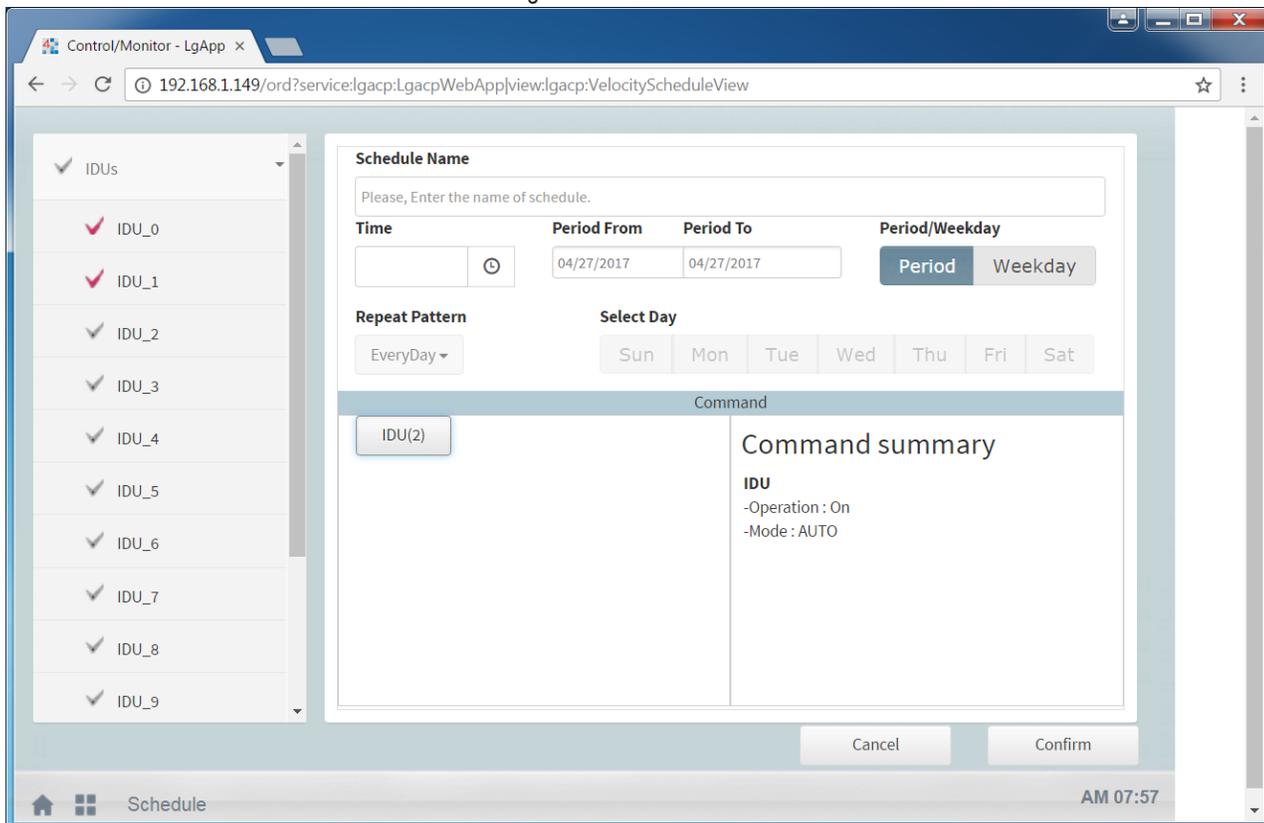
Add New Schedule, continued.

Note:

- The time period of a schedule is set to 5 minutes by default, which means the start time is set by the 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.
- An error message appears if the Schedule Name field is left empty or when multiple schedules are created with the same name.
- Schedules are created in the station for the configured devices in a separate folder under the selected devices .

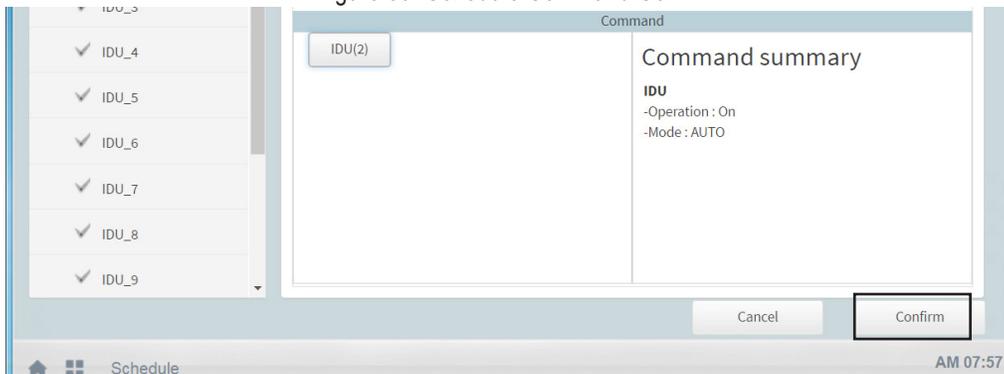
5. Tap the device icon of the applied device. All the devices which are selected for a particular schedule are displayed in the Command Window section at the bottom of the screen. The control configuration window differs depending on the device.

Figure 38: Schedule Command Window.



5. Configure the device control status, then tap Confirm button to create a schedule or Cancel to discard a schedule.

Figure 39: Schedule Command Confirm.



SCHEDULE VIEW

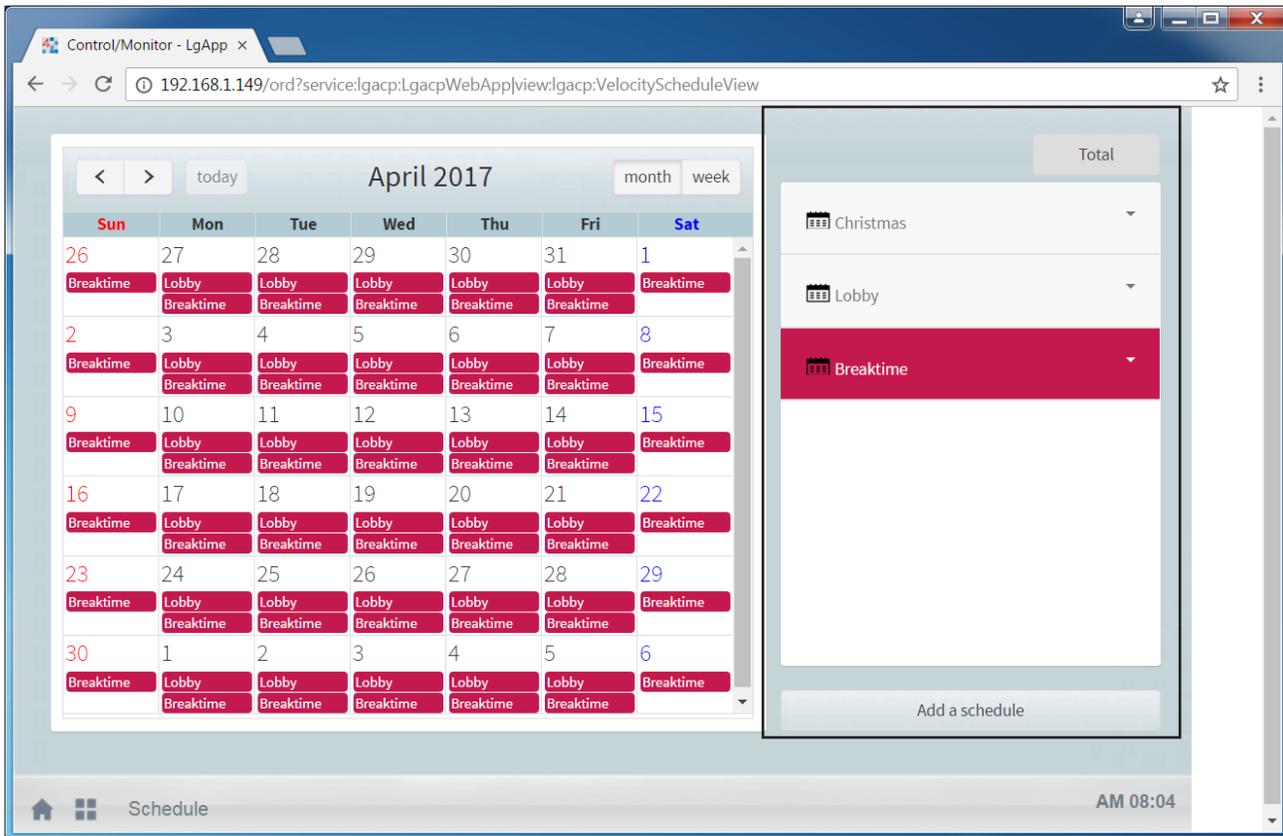
Check Schedule

Check Schedule

To check schedule details for a device, follow these steps.

1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
2. In the Date area, select a schedule period. The number of schedules are displayed for the selected date.
3. To check schedule details, tap a schedule in the schedule list. The schedule details are displayed.

Figure 40: Check Schedule.

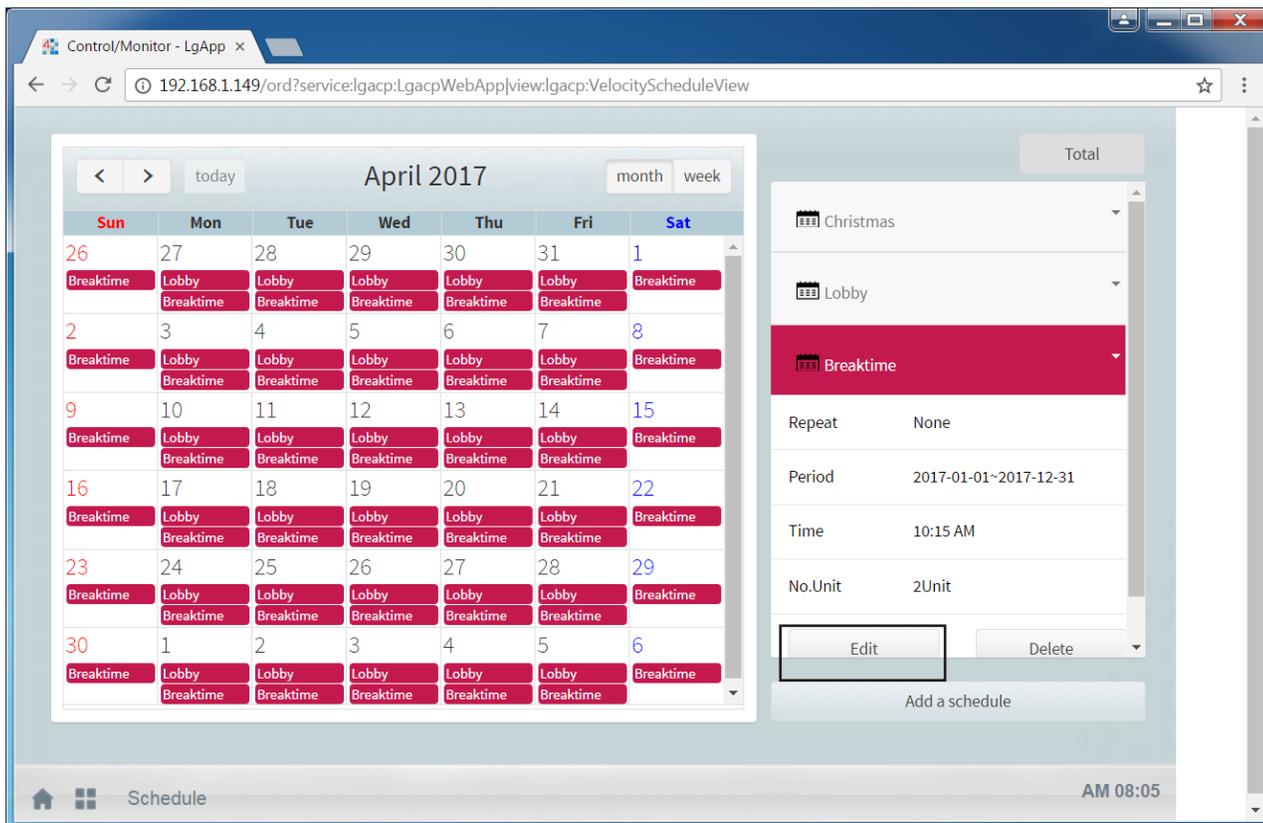


Edit Schedule

To modify a registered schedule, follow these steps.

1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
2. Tap/select a schedule that needs to be modified from the Schedule list. The schedule details are displayed.
3. Tap the Edit button.

Figure 41: Edit Schedule.



The schedule configuration screen is displayed.

4. Modify the schedule information and device control configuration, then tap the Confirm button. The schedule is updated.

SCHEDULE VIEW

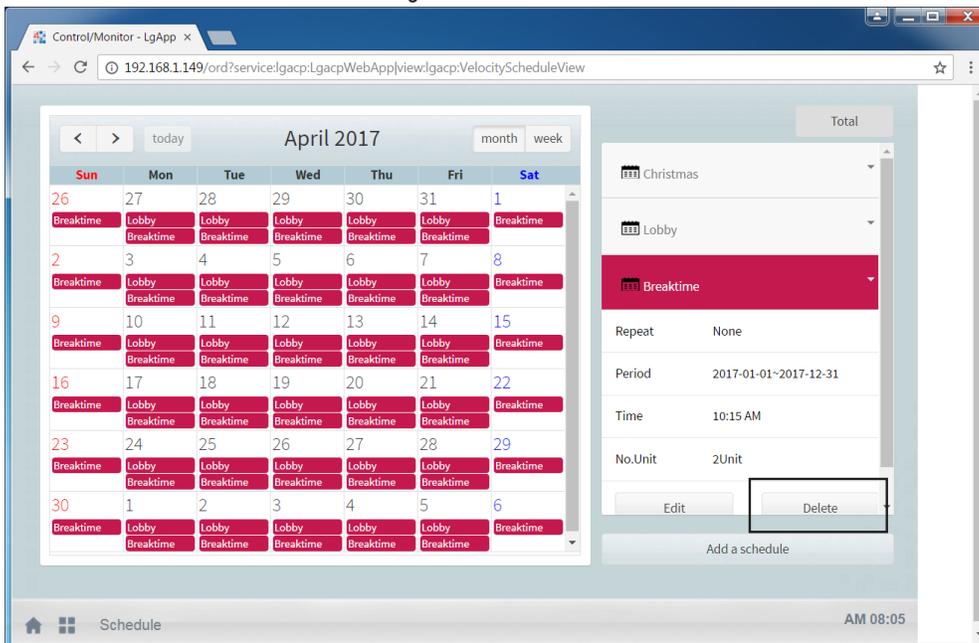
Delete Schedule

Delete Schedule

To delete a registered schedule, follow these steps.

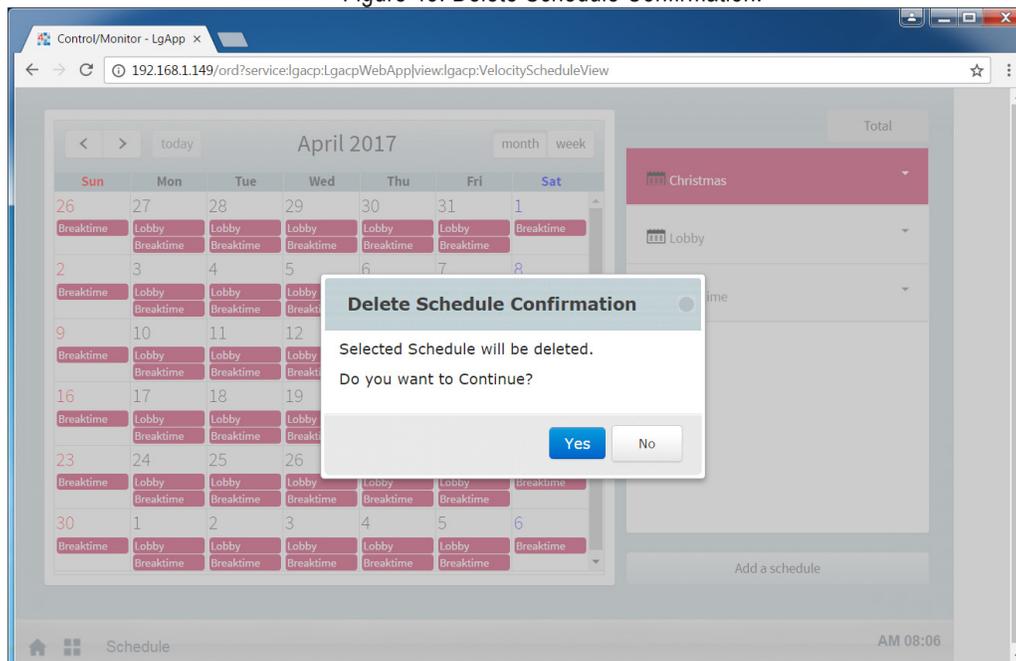
1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
2. Tap/select a schedule that needs to be deleted from the Schedule list. The schedule details are displayed
3. Tap the Delete button.

Figure 42: Delete Schedule.



4. When prompted to confirm the deletion, tap the Confirm button. The selected schedule is deleted.

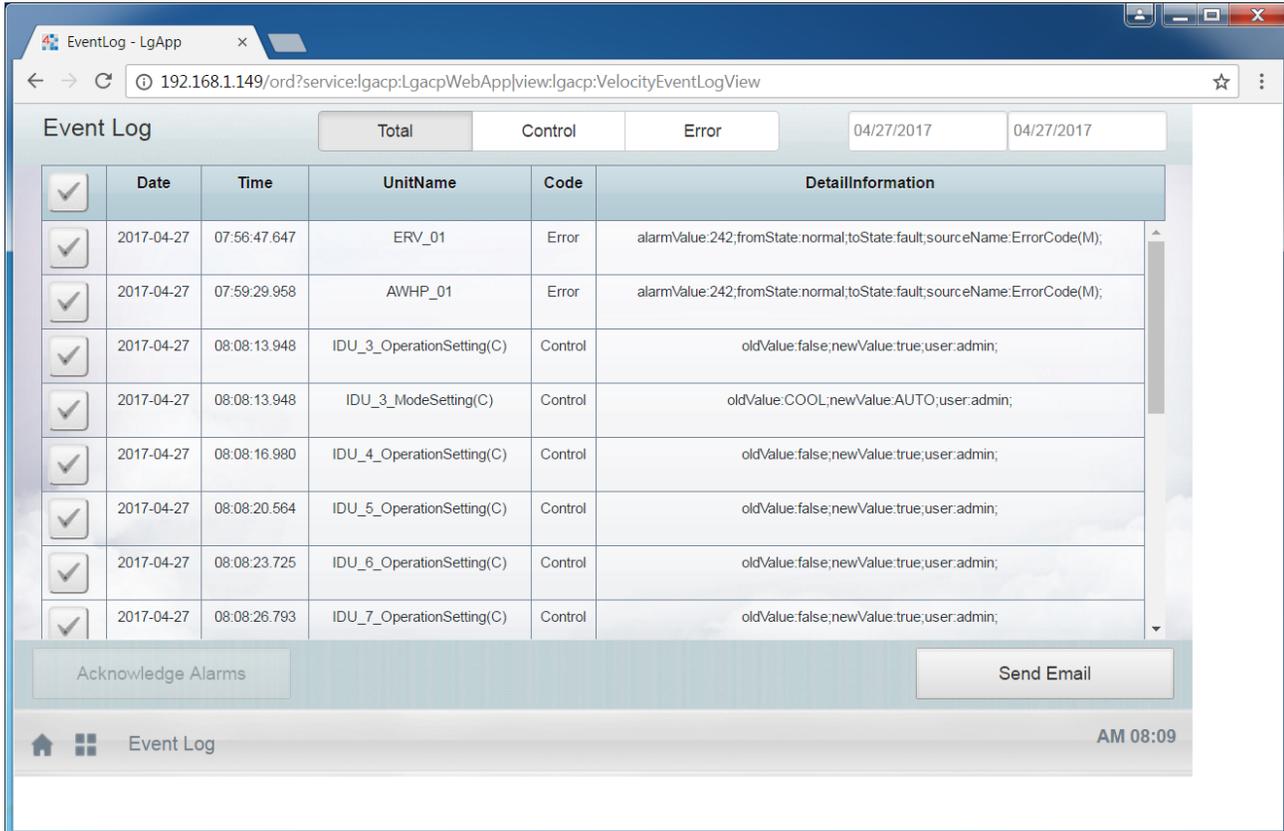
Figure 43: Delete Schedule Confirmation.



EVENT LOG VIEW

Tap the Event Log  icon in the Home View screen to access the Event Log View. This view displays the Audit Log for LG Points. It displays the parameter Point Name/Device name and detailed information for the events. Tap the Total, Control, or Error buttons to navigate between the different categories of the events logged.

Figure 44: Event Log.



Element	Function
Total button	Tap this button to view all the events logged. It includes alarms and the events.
Control button	Tap this button to view all the events that are logged in the Audit Log.
Error button	Tap this button to view the alarms generated by the devices as well as the alarm cause.
Start Date and End Date fields	Enter dates to view current or older event logs.
Acknowledge button	Tap this button to acknowledge the alarms. Single or multiple alarms can be selected.
Send Email button	Tap this button to send the logged Event/Alarm data via email. Email configuration can be accessed in the Environment View.

ENERGY REPORT VIEW



Tap the Energy Report icon in the Home View screen to generate a monthly or daily report of power consumption data for all or selected IDUs in a group.

Generate Report

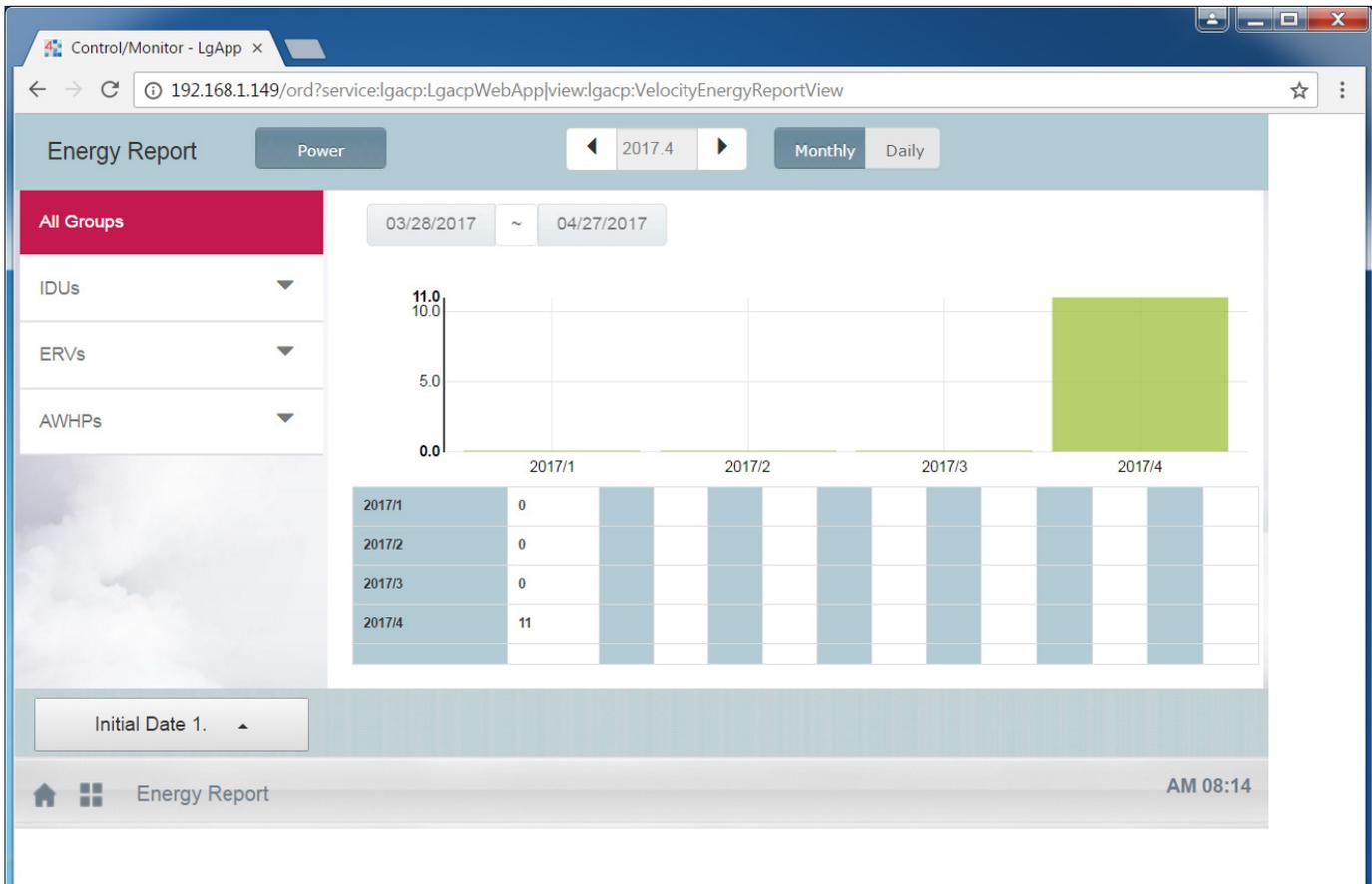
1. Select a group or individual IDU under a group.
2. Select to display power chart for the selected IDUs or selected period.
3. If the All Groups option is selected, the energy report for all IDUs is displayed.

Viewing options

- Daily interval shows the consumption data for each day in the selected date range.
- Monthly interval shows the monthly consumption for last 4 months from the selected month.
- View All button displays both bar chart and table information.
- View Each button will only display the bar chart.
- Initial Date button enables the user to set initial date for monthly power consumption data.

A bar chart is displayed with the consumed energy data based on the selection of IDUs, power, monthly or daily views, and time period. Table data is also displayed for the selected period for both monthly and daily intervals.

Figure 45: Energy Report.





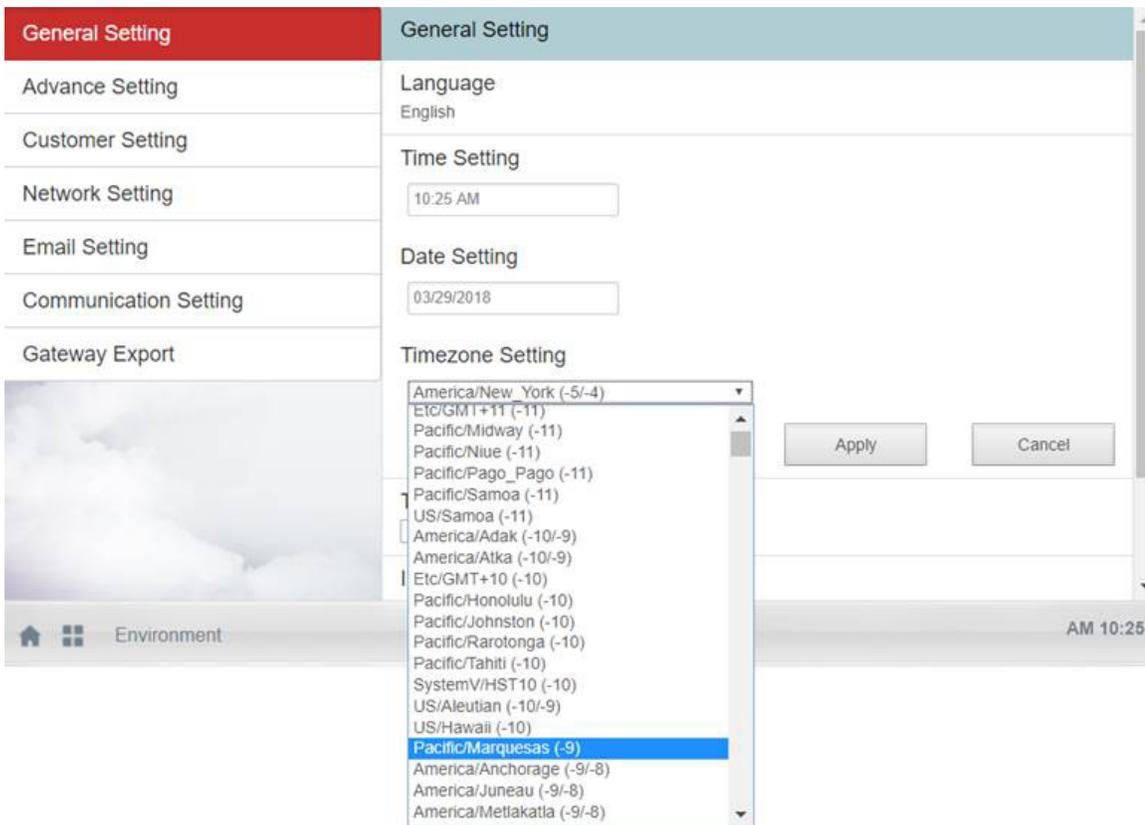
Tap the Environment  icon in the Home View screen to access the Environment View. This view displays all the settings that can be configured on the MultiSITE Communications Manager through the user interface. This view has the following tabs:

- General Setting
- Advance Setting
- Customer Setting
- Network Setting
- Email Setting
- Communication Setting
- Gateway Export

General Setting

This tab displays Language, Time, Date, Temperature Display, and Initial Date for statistics and version information. In addition to setting the Date and Time, the Temperature Display (units) and Time Zone can also be changed.

Figure 46: General Setting.



ENVIRONMENT VIEW

Advance Setting

The Advance Setting tab is used to take a backup of the MultiSITE Communications Manager. Clicking the Download Station Backup button saves the distribution file.

Figure 47: Advance Setting.

General Setting	Advance Setting
Advance Setting	Backup Station Download Station Backup
Customer Setting	Auto Mode Apply
Network Setting	Use 2 Set Temp Auto ▾
Email Setting	Oil Return Operation enable disable Oil Return Operation Time 12:56 PM 🔄 Apply
Communication Setting	
Gateway Export	

Environment PM 02:57

Customer Setting

This tab displays the customer settings information.

Edit or delete users

The User Management section displays all the users configured in the system. In addition to editing existing user accounts, new users can also be added.

Figure 48: Customer Setting.

The screenshot shows the 'Customer Setting' interface. On the left is a sidebar menu with the following items: General Setting, Advance Setting, Customer Setting (highlighted in red), Network Setting, Email Setting, Communication Setting, and Gateway Export. The main content area is titled 'Customer Setting' and contains several sections: 'Default', 'Change Password' (with a 'Change Password' link), 'Add User' (with an 'Add User' link), and 'User Management'. Below 'User Management' is a table of users:

Username	Full Name	Actions
guest		Delete Edit
admin		Delete Edit
tester1	tester1	Delete Edit
BACnet		

At the bottom of the interface, there is a footer with a home icon, a grid icon, and the text 'Environment'.

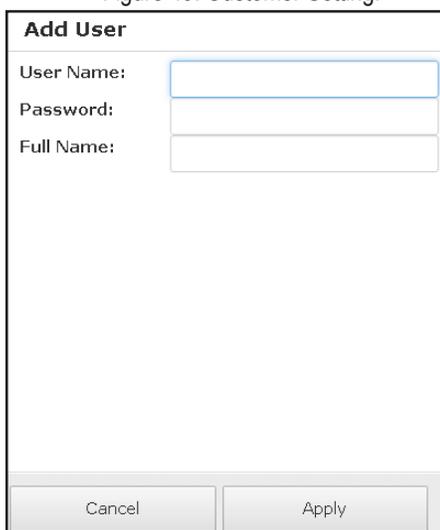
ENVIRONMENT VIEW

Customer Setting, continued.

Add user

Tap Add User to configure a new user.

Figure 49: Customer Setting.

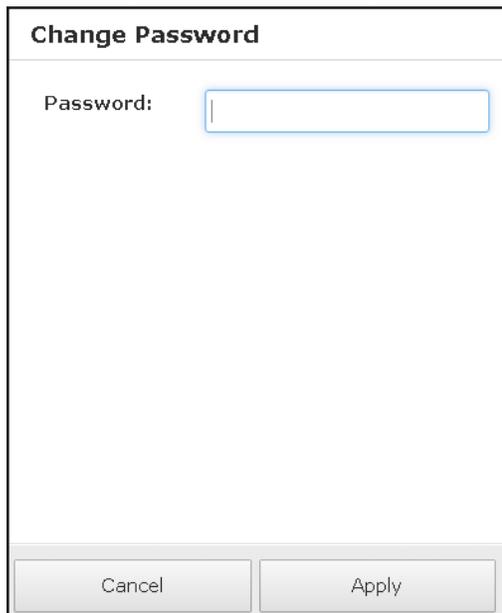


The 'Add User' dialog box contains three input fields: 'User Name:', 'Password:', and 'Full Name:'. Each field has a corresponding text input box. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Apply'.

Change Password

Tap Change Password to enter a new password.

Figure 50: Customer Setting.



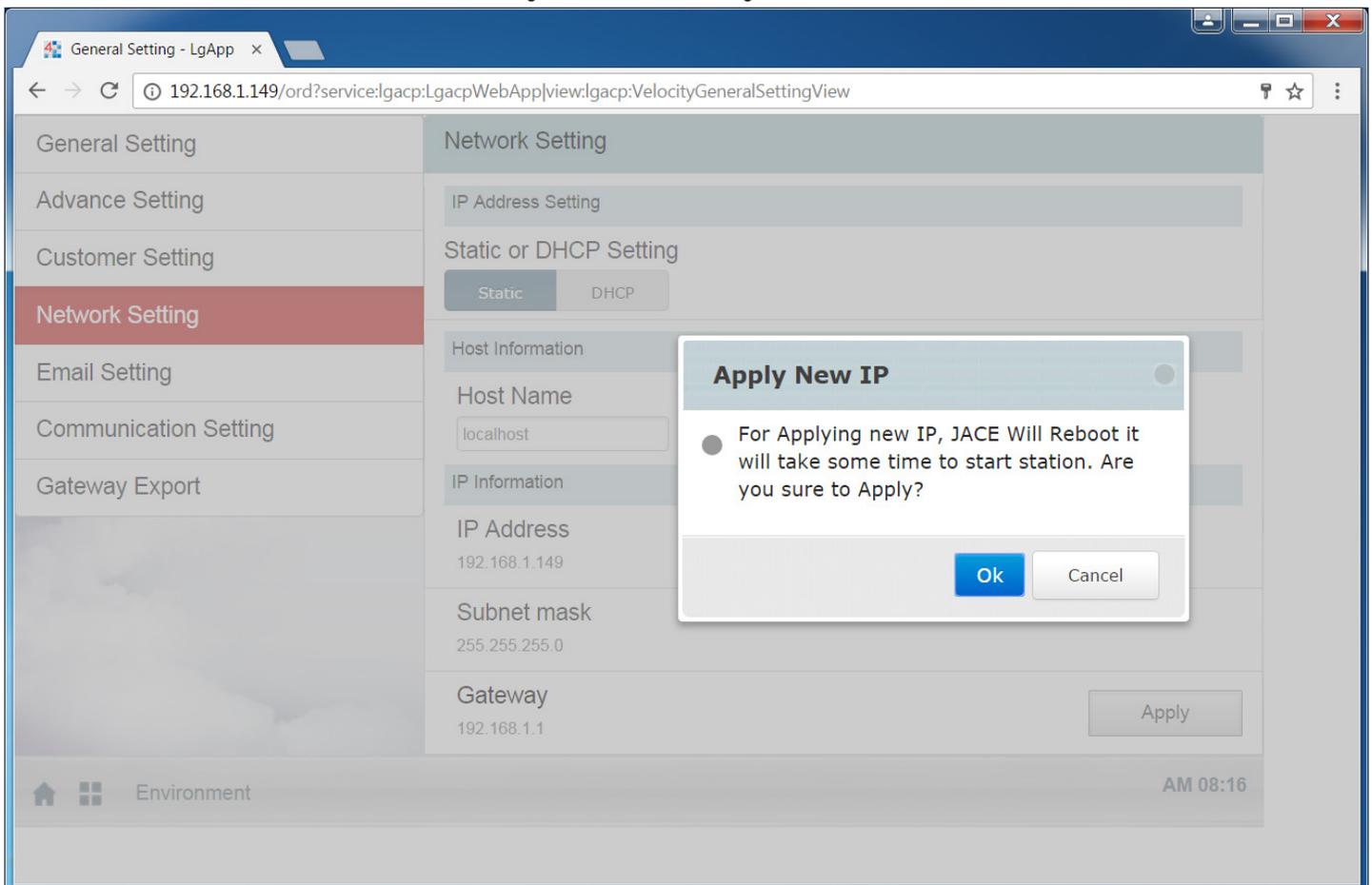
The 'Change Password' dialog box contains one input field labeled 'Password:'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Apply'.

Network Setting

This tab displays the Network information related to the MultiSITE Communications Manager controller, such as IP Address, Subnet Mask, Gateway, and Network Adapter.

1. Make changes as necessary and then tap the Apply button.
2. Tap OK in the pop-up window. The controller reboots to apply the changes.

Figure 51: Network Setting.



ENVIRONMENT VIEW

Email Setting

This tab is used to configure the email settings of the user.

- Account settings: Set up the email account for sending emails.
- Email setting: Set up the Host Name, Port, Authentication, SSL and TLS settings.
- Mailing Configuration: Configure the receiver's email address.

Figure 52: Email Setting.

Add Email Account

Account:

Password:

Cancel Apply

Figure 53: Email Setting.

Email Settings

Host Name:

Port:

Authentication:

Use SSL:

Use Start TLS:

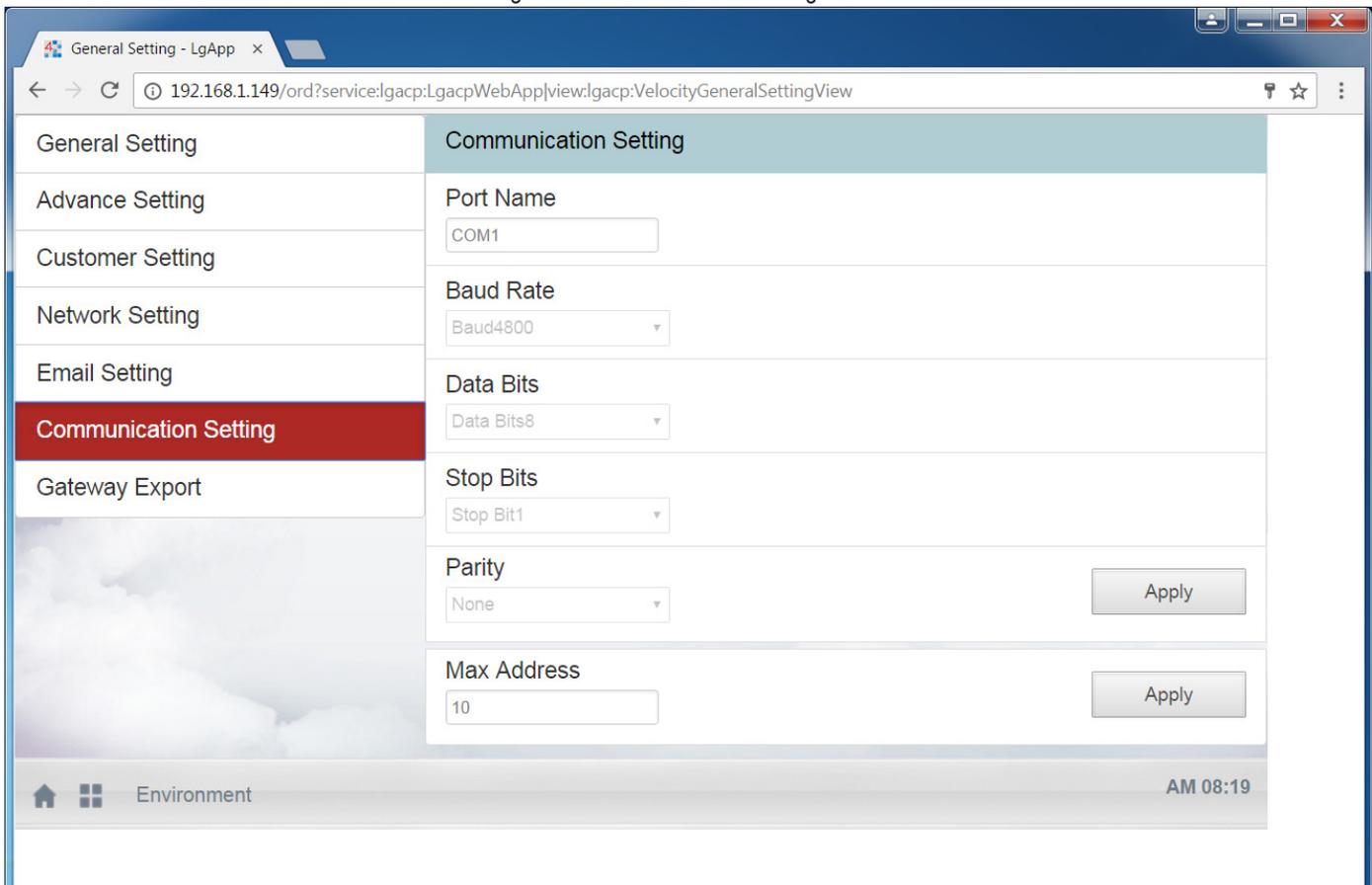
Cancel Apply

Communication Setting

This tab displays the settings for LgAcp Network's BAUD rate, Port Name, Data bits, Parity and Stop Bits. The Max Address for Auto Search and settings for Auto Mode support can also be changed.

1. Select the appropriate values by selecting from the drop-down menus.
2. Tap the Apply button to save the settings.

Figure 54: Communication Setting.



ENVIRONMENT VIEW

Gateway Export

This tab is used to enable the MultiSITE Communication Manager to communicate via BACnet IP or LonWorks. Lon Export supports a maximum number of 40 LG devices (IDUs, ODU, ERVs, AWHPs).

Export

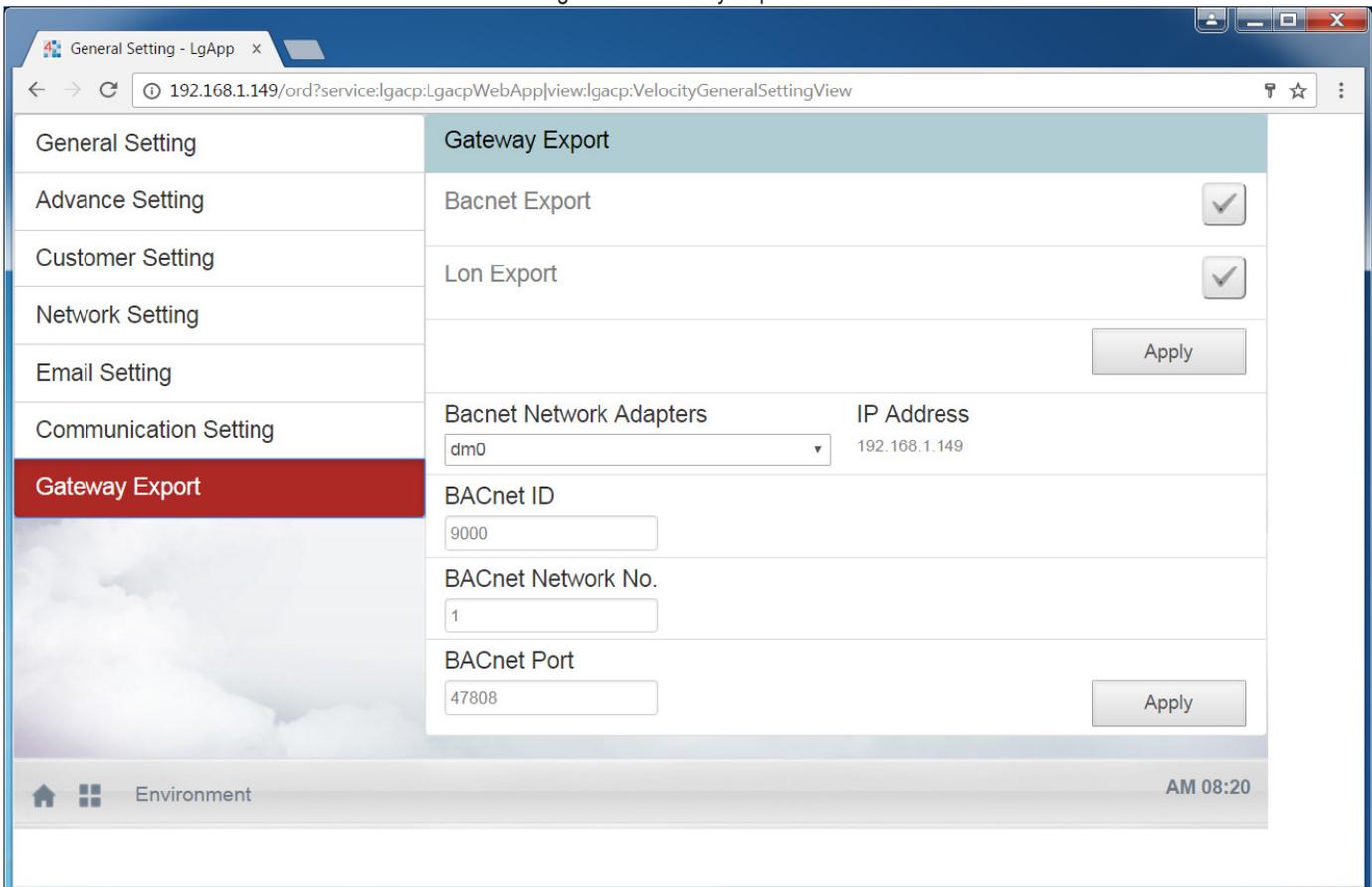
1. Select the export type: BACnet or LonWorks. This exports all LG HVAC System points.
2. Tap Apply. A pop-up message shows the progress of the export. This message closes when export is completed.

BACnet Network Adapter

The user can also set the BACnet IP Network Adapter using this view.

1. Select or change a BACnet IP Adapter from the drop down menu. The IP address of the adapter is displayed.
2. Tap Apply to set the IP Adapter information for BACnet IP.

Figure 55: Gateway Export.



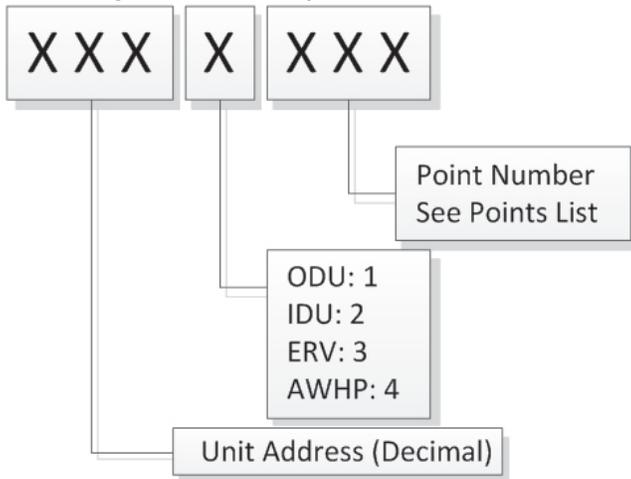
MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

BACnet Object IDs

BACnet Object IDs are in decimal and are specific to unit type.

Unit Type	BACnet Object ID
ODU Master	xxx1001 - xxx1045
ODU Slave 1	xxx1101 - xxx1145
ODU Slave 2	xxx1201 - xxx1245
ODU Slave 3	xxx1301 - xxx1345
IDU	xxx2001 - xxx2054
ERV	xxx3001 - xxx3015
AWHP	xxx4001 - xxx4021

Figure 56: BACnet Object.



MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Master Points

Niagara Points		BACnet Objects			Lon Objects		Range							
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6	Text-7
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx1001	nvoERROR_[Device Name]	SNVT_count	Refer to LG Error code list							
RefrigerantType(M)	Enum Point	Refrigerant Type(M)	MI	xxx1002	nvoRefrigerantType_[Device Name]	SNVT_count		R407C (1)	R22 (2)	R410A (3)				
ODUType UpperDigit(M)	Enum Point	ODUType UpperDigit(M)	MI	xxx1003	nvoODUTypeUpperdigit_[Device Name]	SNVT_count		Super (1)	CO (2)	Sync (3)				
ODUType LowerDigit(M)	Enum Point	ODUType LowerDigit(M)	MI	xxx1004	nvoODUTypeLowerdigit_[Device Name]	SNVT_count		Super (1)	Super 2 (2)	Super3 (3)	Space (4)	Mini (5)	RHP (6)	Water (7)
SlaveUnit Quantity(M)	Numeric Point	SlaveUnit Quantity(M)	AI	xxx1005	nvoSlaveUnit Quantity_[Device Name]	SNVT_count_f								
UnitHasError(M)	Numeric Point	UnitHas Error(M)	AI	xxx1006	nvoUnitHaserror_[Device Name]	SNVT_switch								
OduOperation Mode(M)	Enum Point	OduOperation Mode(M)	MI	xxx1007	nvoOduOperationMode_[Device Name]	SNVT_count_f		Stop (1)	Cool (2)	Heat (3)				
Inv1Comp Frequency(M)	Numeric Point	Inv1Comp Frequency(M)	AI	xxx1008	nvoInv1CompCurrent Frequency_[Device Name]	SNVT_count_f								
Inv2Comp Frequency(M)	Numeric Point	Inv2Comp Frequency(M)	AI	xxx1009	nvoInv2CompCurrent Frequency_[Device Name]	SNVT_count_f								
CurrentFan1 Frequency(M)	Numeric Point	CurrentFan1 Frequency(M)	AI	xxx1010	nvoCurrentFan1 Frequency_[Device Name]	SNVT_count_f								
CurrentFan2 Frequency(M)	Numeric Point	CurrentFan2 Frequency(M)	AI	xxx1011	nvoCurrentFan2 Frequency_[Device Name]	SNVT_count_f								
OutsideTemp(M)	Numeric Point	OutsideTemp(M)	AI	xxx1012	nvoOutsideTemp_[Device Name]	SNVT_count_inc_f	°F							
CurrentHigh Pressure(M)	Numeric Point	CurrentHigh Pressure(M)	AI	xxx1013	nvoCurrentHigh Pressure_[Device Name]	SNVT_count_f								
CurrentLow Pressure(M)	Numeric Point	CurrentLow Pressure(M)	AI	xxx1014	nvoCurrentLow Pressure_[Device Name]	SNVT_count_f								
SuctionTemp(M)	Numeric Point	SuctionTemp(M)	AI	xxx1015	nvoSuctionTemp_[Device Name]	SNVT_count_inc_f	°F							
Inverter1Discharge Temp(M)	Numeric Point	Inverter1 Discharge Temp(M)	AI	xxx1016	nvoInv1DischargeTemp_[Device Name]	SNVT_count_inc_f	°F							
Inverter2Discharge Temp(M)	Numeric Point	Inverter2 Discharge Temp(M)	AI	xxx1017	nvoInv2DischargeTemp_[Device Name]	SNVT_count_inc_f	°F							
Std1Discharge Temp(M)	Numeric Point	Std1Discharge Temp(M)	AI	xxx1018	nvoStd1DischargeTemp_[Device Name]	SNVT_count_inc_f	°F							
Std2Discharge Temp(M)	Numeric Point	Std2Discharge Temp(M)	AI	xxx1019	nvoStd2DischargeTemp_[Device Name]	SNVT_count_inc_f	°F							
LiquidPipeTemp(M)	Numeric Point	LiquidPipe Temp(M)	AI	xxx1020	nvoLiquidPipeTemp_[Device Name]	SNVT_count_inc_f	°F							
HeatExchange UpperTemp(M)	Numeric Point	HeatExchange UpperTemp(M)	AI	xxx1021	nvoHeatExchangeTemp_[Device Name]	SNVT_count_inc_f	°F							
HeatExchange LowerTemp(M)	Numeric Point	HeatExchange LowerTemp(M)	AI	xxx1022	nvoHeatExchange UpperTemp_[Device Name]	SNVT_count_inc_f	°F							
HeatExchange LowerTemp(M)	Numeric Point	HeatExchange LowerTemp(M)	AI	xxx1023	nvoHeatExchange LowerTemp_[Device Name]	SNVT_count_inc_f	°F							
SubCoolPipeIn Temp(M)	Numeric Point	SubCoolPipeIn Temp(M)	AI	xxx1024	nvoSubCoolPipeInTemp_[Device Name]	SNVT_count_inc_f	°F							

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Master Points, continued.

Niagara Points		BACnet Objects			Lon Objects		Range			
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3
SubCoolPipeOutTemp(M)	Numeric Point	SubCoolPipeOutTemp(M)	AI	xxx1025	nvoSubCoolPipeOutTemp_[Device Name]	SNVT_count_inc_f	°F			
Main1EevPulse(M)	Numeric Point	Main1EevPulse(M)	AI	xxx1026	nvoMainEev1Position_[Device Name]	SNVT_count_f	°F			
Main2EevPulse(M)	Numeric Point	Main2EevPulse(M)	AI	xxx1027	nvoMainEev2Position_[Device Name]	SNVT_count_f	°F			
SubEevPulse(M)	Numeric Point	SubEevPulse(M)	AI	xxx1028	nvoSubEevPosition_[Device Name]	SNVT_count_f	°F			
SubCoolEevPulse(M)	Numeric Point	SubCoolEevPulse(M)	AI	xxx1029	nvoSubCoolEevPosition_[Device Name]	SNVT_count_f	°F			
OilEqEev(M)	Numeric Point	OilEqEev(M)	AI	xxx1030	nvoOilEqEev_[Device Name]	SNVT_count_f	°F			
ViEev1(M) [Vapor Injection]	Numeric Point	ViEev1(M) [Vapor Injection]	AI	xxx1031	nvoVaporInjectionEEV1_[Device Name]	SNVT_count_f				
ViEev2(M) [Vapor Injection]	Numeric Point	ViEev2(M) [Vapor Injection]	AI	xxx1032	nvoVaporInjectionEEV2_[Device Name]	SNVT_count_f				
ConnectedIduNumber(M)	Numeric Point	ConnectedIduNumber(M)	AI	xxx1033	nvoIDUQuantity_[Device Name]	SNVT_count_f				
OduCapacity(M)	Numeric Point	OduCapacity(M)	AI	xxx1034	nvoOduCapacity_[Device Name]	SNVT_count_f				
ControlStep(M)	Numeric Point	ControlStep(M)	AI	xxx1035	nvoControlStep_[Device Name]	SNVT_count_f				
Inv2Capacity(M)	Enum Point	Inv2Capacity(M)	MI	xxx1036	nvoInv2Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Inv1Heater(M)	Boolean Point	Inv1Heater(M)	BI	xxx1037	nvoInv1Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv2Heater(M)	Boolean Point	Inv2Heater(M)	BI	xxx1038	nvoInv2Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv1OilSensor(M)	Boolean Point	Inv1OilSensor(M)	BI	xxx1039	nvoInv1OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Inv2OilSensor(M)	Boolean Point	Inv2OilSensor(M)	BI	xxx1040	nvoInv2OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
CompressorQuantity(M)	Numeric Point	CompressorQuantity(M)	AI	xxx1041	nvoCompQuantity_[Device Name]	SNVT_count_f				
Inv1Backup(M)	Boolean Point	Inv1Backup(M)	BI	xxx1042	nvoInv1Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv2Backup(M)	Boolean Point	Inv2Backup(M)	BI	xxx1043	nvoInv2Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv1Capacity(M)	Enum Point	Inv1Capacity(M)	MI	xxx1044	nvoInv1Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Ddc(M)	Boolean Point	Ddc(M)	BI	xxx1045	nvoDdc_[Device Name]	SNVT_switch	Off (0)	On (1)		

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 1 Points

Niagara Points		BACnet Objects			Lon Objects		Range							
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6	Text-7
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx1101	nvoERROR_ [Device Name]	SNVT_ count	Refer to LG Error code list							
Refrigerant Type(M)	Enum Point	Refrigerant Type(M)	MI	xxx1102	nvoRefrigerantType_ [Device Name]	SNVT_ count		R407C (1)	R22 (2)	R410A (3)				
ODUTypeUpper Digit(M)	Enum Point	ODUTypeUpper Digit(M)	MI	xxx1103	nvoODUTypeUpperdigit_ [Device Name]	SNVT_ count		Super (1)	CO (2)	Sync (3)				
ODUTypeLower Digit(M)	Enum Point	ODUTypeLower Digit(M)	MI	xxx1104	nvoODUTypeLowerdigit_ [Device Name]	SNVT_ count		Super (1)	Super2 (2)	Super3 (3)	Space (4)	Mini (5)	RHP (6)	Water (7)
SlaveUnit Quantity(M)	Numeric Point	SlaveUnit Quantity(M)	AI	xxx1105	nvoSlaveUnitQuantity_ [Device Name]	SNVT_ count_f								
UnitHasError(M)	Numeric Point	UnitHasError(M)	AI	xxx1106	nvoUnitHaserror_ [Device Name]	SNVT_ switch								
OduOperation Mode(M)	Enum Point	OduOperation Mode(M)	MI	xxx1107	nvoOduOperationMode_ [Device Name]	SNVT_ count_f		Stop (1)	Cool (2)	Heat (3)				
Inv1Comp Frequency(M)	Numeric Point	Inv1Comp Frequency(M)	AI	xxx1108	nvoInv1CompCurrent Frequency_ [Device Name]	SNVT_ count_f								
Inv2Comp Frequency(M)	Numeric Point	Inv2Comp Frequency(M)	AI	xxx1109	nvoInv2CompCurrent Frequency_ [Device Name]	SNVT_ count_f								
CurrentFan1 Frequency(M)	Numeric Point	CurrentFan1 Frequency(M)	AI	xxx1110	nvoCurrentFan1Fre- quency_ [Device Name]	SNVT_ count_f								
CurrentFan2 Frequency(M)	Numeric Point	CurrentFan2 Frequency(M)	AI	xxx1111	nvoCurrentFan2 Frequency_ [Device Name]	SNVT_ count_f								
OutsideTemp(M)	Numeric Point	OutsideTemp(M)	AI	xxx1112	nvoOutsideTemp_ [Device Name]	SNVT_ count_inc_f	°F							
CurrentHigh Pressure(M)	Numeric Point	CurrentHigh Pressure(M)	AI	xxx1113	nvoCurrentHighPressure_ [Device Name]	SNVT_ count_f								
CurrentLow Pressure(M)	Numeric Point	CurrentLow Pressure(M)	AI	xxx1114	nvoCurrentLowPressure_ [Device Name]	SNVT_ count_f								
SuctionTemp(M)	Numeric Point	SuctionTemp(M)	AI	xxx1115	nvoSuctionTemp_ [Device Name]	SNVT_ count_inc_f	°F							
Inverter1Discharge Temp(M)	Numeric Point	Inverter1Discharge Temp(M)	AI	xxx1116	nvoInv1DischargeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
Inverter2Discharge Temp(M)	Numeric Point	Inverter2Discharge Temp(M)	AI	xxx1117	nvoInv2DischargeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
Std1Discharge Temp(M)	Numeric Point	Std1Discharge Temp(M)	AI	xxx1118	nvoStd1DischargeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
Std2Discharge Temp(M)	Numeric Point	Std2Discharge Temp(M)	AI	xxx1119	nvoStd2DischargeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
LiquidPipe Temp(M)	Numeric Point	LiquidPipeTemp(M)	AI	xxx1120	nvoLiquidPipeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
HeatExchange Temp(M)	Numeric Point	HeatExchange Temp(M)	AI	xxx1121	nvoHeatExchangeTemp_ [Device Name]	SNVT_ count_inc_f	°F							
HeatExchange UpperTemp(M)	Numeric Point	HeatExchangeUpper Temp(M)	AI	xxx1122	nvoHeatExchangeUpper Temp_ [Device Name]	SNVT_ count_inc_f	°F							
HeatExchange LowerTemp(M)	Numeric Point	HeatExchangeLower Temp(M)	AI	xxx1123	nvoHeatExchangeLower Temp_ [Device Name]	SNVT_ count_inc_f	°F							

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 1 Points, continued.

Niagara Points		BACnet Objects			Lon Objects		Range			
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3
SubCoolPipe InTemp(M)	Numeric Point	SubCoolPipe InTemp(M)	AI	xxx1124	nvoSubCoolPipeInTemp_[Device Name]	SNVT_count_inc_f	°F			
SubCoolPipe OutTemp(M)	Numeric Point	SubCoolPipe OutTemp(M)	AI	xxx1125	nvoSubCoolPipeOutTemp_[Device Name]	SNVT_count_inc_f	°F			
Main1Eev Pulse(M)	Numeric Point	Main1Eev Pulse(M)	AI	xxx1126	nvoMainEev1Position_[Device Name]	SNVT_count_f				
Main2Eev Pulse(M)	Numeric Point	Main2Eev Pulse(M)	AI	xxx1127	nvoMainEev2Position_[Device Name]	SNVT_count_f				
SubEev Pulse(M)	Numeric Point	SubEev Pulse(M)	AI	xxx1128	nvoSubEevPosition_[Device Name]	SNVT_count_f				
SubCoolEev Pulse(M)	Numeric Point	SubCoolEevPulse(M)	AI	xxx1129	nvoSubCoolEevPosition_[Device Name]	SNVT_count_f				
OilEqEev(M)	Numeric Point	OilEqEev(M)	AI	xxx1130	nvoOilEqEev_[Device Name]	SNVT_count_f				
ViEev1(M) [Vapor Injection]	Numeric Point	ViEev1(M) [Vapor Injection]	AI	xxx1131	nvoVaporInjectionEEV1_[Device Name]	SNVT_count_f				
ViEev2(M) [Vapor Injection]	Numeric Point	ViEev2(M) [Vapor Injection]	AI	xxx1132	nvoVaporInjectionEEV2_[Device Name]	SNVT_count_f				
Connected IduNumber(M)	Numeric Point	Connected IduNumber(M)	AI	xxx1133	nvoIDUQuantity_[Device Name]	SNVT_count_f				
OduCapacity(M)	Numeric Point	OduCapacity(M)	AI	xxx1134	nvoOduCapacity_[Device Name]	SNVT_count_f				
ControlStep(M)	Numeric Point	ControlStep(M)	AI	xxx1135	nvoControlStep_[Device Name]	SNVT_count_f				
Inv2Capacity(M)	Enum Point	Inv2Capacity(M)	MI	xxx1136	nvoInv2Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Inv1Heater(M)	Boolean Point	Inv1Heater(M)	BI	xxx1137	nvoInv1Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv2Heater(M)	Boolean Point	Inv2Heater(M)	BI	xxx1138	nvoInv2Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv1OilSensor(M)	Boolean Point	Inv1OilSensor(M)	BI	xxx1139	nvoInv1OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Inv2OilSensor(M)	Boolean Point	Inv2OilSensor(M)	BI	xxx1140	nvoInv2OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Compressor Quantity(M)	Numeric Point	Compressor Quantity(M)	AI	xxx1141	nvoCompQuantity_[Device Name]	SNVT_count_f				
Inv1Backup(M)	Boolean Point	Inv1Backup(M)	BI	xxx1142	nvoInv1Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv2Backup(M)	Boolean Point	Inv2Backup(M)	BI	xxx1143	nvoInv2Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv1Capacity(M)	Enum Point	Inv1Capacity(M)	MI	xxx1144	nvoInv1Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Ddc(M)	Boolean Point	Ddc(M)	BI	xxx1145	nvoDdc_[Device Name]	SNVT_switch	Off (0)	On (1)		

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 2 Points

Niagara Points		BACnet Objects			Lon Objects		Range							
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6	Text-7
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx1201	nvoERROR_[Device Name]	SNVT_count	Refer to LG Error code list							
RefrigerantType(M)	Enum Point	RefrigerantType(M)	MI	xxx1202	nvoRefrigerantType_[Device Name]	SNVT_count		R407C (1)	R22 (2)	R410A (3)				
ODUTypeUpper Digit(M)	Enum Point	ODUTypeUpper Digit(M)	MI	xxx1203	nvoODUTypeUpper-digit_[Device Name]	SNVT_count		Super (1)	CO (2)	Sync (3)				
ODUTypeLower Digit(M)	Enum Point	ODUTypeLower Digit(M)	MI	xxx1204	nvoODUTypeLower-digit_[Device Name]	SNVT_count		Super (1)	Super2 (2)	Super3 (3)	Space (4)	Mini (5)	RHP (6)	Water (7)
SlaveUnit Quantity(M)	Numeric Point	SlaveUnit Quantity(M)	AI	xxx1205	nvoSlaveUnit Quantity_[Device Name]	SNVT_count_f								
UnitHasError(M)	Numeric Point	UnitHasError(M)	AI	xxx1206	nvoUnitHasError_[Device Name]	SNVT_switch								
OduOperation Mode(M)	Enum Point	OduOperation Mode(M)	MI	xxx1207	nvoOduOperation-Mode_[Device Name]	SNVT_count_f		Stop (1)	Cool (2)	Heat (3)				
Inv1Comp Frequency(M)	Numeric Point	Inv1Comp Frequency(M)	AI	xxx1208	nvoInv1CompCurrent-Frequency_[Device Name]	SNVT_count_f								
Inv2Comp Frequency(M)	Numeric Point	Inv2Comp Frequency(M)	AI	xxx1209	nvoInv2Comp CurrentFrequency_[Device Name]	SNVT_count_f								
CurrentFan1 Frequency(M)	Numeric Point	CurrentFan1 Frequency(M)	AI	xxx1210	nvoCurrentFan1 Frequency_[Device Name]	SNVT_count_f								
CurrentFan2 Frequency(M)	Numeric Point	CurrentFan2 Frequency(M)	AI	xxx1211	nvoCurrentFan2 Frequency_[Device Name]	SNVT_count_f								
OutsideTemp(M)	Numeric Point	OutsideTemp(M)	AI	xxx1212	nvoOutsideTemp_[Device Name]	SNVT_count_inc_f	°F							
CurrentHigh Pressure(M)	Numeric Point	CurrentHigh Pressure(M)	AI	xxx1213	nvoCurrentHigh Pressure_[Device Name]	SNVT_count_f								
CurrentLow Pressure(M)	Numeric Point	CurrentLow Pressure(M)	AI	xxx1214	nvoCurrentLow Pressure_[Device Name]	SNVT_count_f								
SuctionTemp(M)	Numeric Point	SuctionTemp(M)	AI	xxx1215	nvoSuctionTemp_[Device Name]	SNVT_count_inc_f	°F							
Inverter1Discharge Temp(M)	Numeric Point	Inverter1Discharge Temp(M)	AI	xxx1216	nvoInv1Discharge-Temp_[Device Name]	SNVT_count_inc_f	°F							
Inverter2Discharge Temp(M)	Numeric Point	Inverter2Discharge Temp(M)	AI	xxx1217	nvoInv2Discharge-Temp_[Device Name]	SNVT_count_inc_f	°F							
Std1Discharge Temp(M)	Numeric Point	Std1Discharge Temp(M)	AI	xxx1218	nvoStd1Discharge-Temp_[Device Name]	SNVT_count_inc_f	°F							
Std2Discharge Temp(M)	Numeric Point	Std2Discharge Temp(M)	AI	xxx1219	nvoStd2Discharge-Temp_[Device Name]	SNVT_count_inc_f	°F							
LiquidPipe Temp(M)	Numeric Point	LiquidPipeTemp(M)	AI	xxx1220	nvoLiquidPipeTemp_[Device Name]	SNVT_count_inc_f	°F							
HeatExchange Temp(M)	Numeric Point	HeatExchange Temp(M)	AI	xxx1221	nvoHeatExchange-Temp_[Device Name]	SNVT_count_inc_f	°F							

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 2 Points, continued.

Niagara Points		BACnet Objects			Lon Objects		Range			
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3
HeatExchange UpperTemp(M)	Numeric Point	HeatExchange UpperTemp(M)	AI	xxx1222	nvoHeatExchangeUpperTemp_[Device Name]	SNVT_count_inc_f	°F			
HeatExchange LowerTemp(M)	Numeric Point	HeatExchange LowerTemp(M)	AI	xxx1223	nvoHeatExchange LowerTemp_[Device Name]	SNVT_count_inc_f	°F			
SubCoolPipeln Temp(M)	Numeric Point	SubCoolPipeln Temp(M)	AI	xxx1224	nvoSubCoolPipelnTemp_[Device Name]	SNVT_count_inc_f	°F			
SubCoolPipe OutTemp(M)	Numeric Point	SubCoolPipe OutTemp(M)	AI	xxx1225	nvoSubCoolPipeOutTemp_[Device Name]	SNVT_count_inc_f	°F			
Main1Eev Pulse(M)	Numeric Point	Main1Eev Pulse(M)	AI	xxx1226	nvoMainEev1Position_[Device Name]	SNVT_count_f				
Main2Eev Pulse(M)	Numeric Point	Main2Eev Pulse(M)	AI	xxx1227	nvoMainEev2Position_[Device Name]	SNVT_count_f				
SubEev Pulse(M)	Numeric Point	SubEev Pulse(M)	AI	xxx1228	nvoSubEevPosition_[Device Name]	SNVT_count_f				
SubCoolEev Pulse(M)	Numeric Point	SubCoolEev Pulse(M)	AI	xxx1229	nvoSubCoolEevPosition_[Device Name]	SNVT_count_f				
OilEqEev(M)	Numeric Point	OilEqEev(M)	AI	xxx1230	nvoOilEqEev_[Device Name]	SNVT_count_f				
ViEev1(M) [Vapor Injection]	Numeric Point	ViEev1(M) [Vapor Injection]	AI	xxx1231	nvoVaporInjectionEEV1_[Device Name]	SNVT_count_f				
ViEev2(M) [Vapor Injection]	Numeric Point	ViEev2(M) [Vapor Injection]	AI	xxx1232	nvoVaporInjectionEEV2_[Device Name]	SNVT_count_f				
ConnectedIdu Number(M)	Numeric Point	ConnectedIdu Number(M)	AI	xxx1233	nvoIDUQuantity_[Device Name]	SNVT_count_f				
OduCapacity(M)	Numeric Point	OduCapacity(M)	AI	xxx1234	nvoOduCapacity_[Device Name]	SNVT_count_f				
ControlStep(M)	Numeric Point	ControlStep(M)	AI	xxx1235	nvoControlStep_[Device Name]	SNVT_count_f				
Inv2Capacity(M)	Enum Point	Inv2Capacity(M)	MI	xxx1236	nvoInv2Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Inv1Heater(M)	Boolean Point	Inv1Heater(M)	BI	xxx1237	nvoInv1Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv2Heater(M)	Boolean Point	Inv2Heater(M)	BI	xxx1238	nvoInv2Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv1OilSensor(M)	Boolean Point	Inv1OilSensor(M)	BI	xxx1239	nvoInv1OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Inv2OilSensor(M)	Boolean Point	Inv2OilSensor(M)	BI	xxx1240	nvoInv2OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Compressor Quantity(M)	Numeric Point	Compressor Quantity(M)	AI	xxx1241	nvoCompQuantity_[Device Name]	SNVT_count_f				
Inv1Backup(M)	Boolean Point	Inv1Backup(M)	BI	xxx1242	nvoInv1Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv2Backup(M)	Boolean Point	Inv2Backup(M)	BI	xxx1243	nvoInv2Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv1Capacity(M)	Enum Point	Inv1Capacity(M)	MI	xxx1244	nvoInv1Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Ddc(M)	Boolean Point	Ddc(M)	BI	xxx1245	nvoDdc_[Device Name]	SNVT_switch	Off (0)	On (1)		

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 3 Points

Niagara Points		BACnet Objects			Lon Objects		Range							
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6	Text-7
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx1301	nvoERROR_ [Device Name]	SNVT_ count	Refer to LG Error code list							
Refrigerant Type(M)	Enum Point	Refrigerant Type(M)	MI	xxx1302	nvoRefrigerantType_ [Device Name]	SNVT_ count		R407C (1)	R22 (2)	R410A (3)				
ODUTypeUpper Digit(M)	Enum Point	ODUTypeUpper Digit(M)	MI	xxx1303	nvoODUTypeUpperdigit_ [Device Name]	SNVT_ count		Super (1)	CO (2)	Sync (3)				
ODUTypeLower Digit(M)	Enum Point	ODUTypeLower Digit(M)	MI	xxx1304	nvoODUTypeLowerdigit_ [Device Name]	SNVT_ count		Super (1)	Super2 (2)	Super3 (3)	Space (4)	Mini (5)	RHP (6)	Water (7)
SlaveUnit Quantity(M)	Numeric Point	SlaveUnit Quantity(M)	AI	xxx1305	nvoSlaveUnitQuantity_ [Device Name]	SNVT_ count_f								
UnitHasError(M)	Numeric Point	UnitHas Error(M)	AI	xxx1306	nvoUnitHaserror_ [Device Name]	SNVT_ switch								
OduOperation Mode(M)	Enum Point	OduOperation Mode(M)	MI	xxx1307	nvoOduOperationMode_ [Device Name]	SNVT_ count_f		Stop (1)	Cool (2)	Heat (3)				
Inv1Comp Frequency(M)	Numeric Point	Inv1Comp Frequency(M)	AI	xxx1308	nvoInv1CompCurrent Frequency_ [Device Name]	SNVT_ count_f								
Inv2Comp Frequency(M)	Numeric Point	Inv2Comp Frequency(M)	AI	xxx1309	nvoInv2CompCurrent Frequency_ [Device Name]	SNVT_ count_f								
CurrentFan1 Frequency(M)	Numeric Point	CurrentFan1 Frequency(M)	AI	xxx1310	nvoCurrentFan1Frequency_ [Device Name]	SNVT_ count_f								
CurrentFan2 Frequency(M)	Numeric Point	CurrentFan2 Frequency(M)	AI	xxx1311	nvoCurrentFan2 Frequency_ [Device Name]	SNVT_ count_f								
OutsideTemp(M)	Numeric Point	OutsideTemp(M)	AI	xxx1312	nvoOutsideTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
CurrentHigh Pressure(M)	Numeric Point	CurrentHigh Pressure(M)	AI	xxx1313	nvoCurrentHighPressure_ [Device Name]	SNVT_ count_f								
CurrentLow Pressure(M)	Numeric Point	CurrentLow Pressure(M)	AI	xxx1314	nvoCurrentLowPressure_ [Device Name]	SNVT_ count_f								
SuctionTemp(M)	Numeric Point	SuctionTemp(M)	AI	xxx1315	nvoSuctionTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
Inverter1Discharge Temp(M)	Numeric Point	Inverter1 Discharge Temp(M)	AI	xxx1316	nvoInv1DischargeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
Inverter2Discharge Temp(M)	Numeric Point	Inverter2 Discharge Temp(M)	AI	xxx1317	nvoInv2DischargeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
Std1Discharge Temp(M)	Numeric Point	Std1Discharge Temp(M)	AI	xxx1318	nvoStd1DischargeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
Std2Discharge Temp(M)	Numeric Point	Std2Discharge Temp(M)	AI	xxx1319	nvoStd2DischargeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
LiquidPipe Temp(M)	Numeric Point	LiquidPipe Temp(M)	AI	xxx1320	nvoLiquidPipeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
HeatExchange Temp(M)	Numeric Point	HeatExchange Temp(M)	AI	xxx1321	nvoHeatExchangeTemp_ [Device Name]	SNVT_ count_ inc_f	°F							
HeatExchange UpperTemp(M)	Numeric Point	HeatExchange UpperTemp(M)	AI	xxx1322	nvoHeatExchangeUpper- Temp_ [Device Name]	SNVT_ count_ inc_f	°F							

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ODU Slave 3 Points, continued.

Niagara Points		BACnet Objects			Lon Objects		Range			
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3
HeatExchange LowerTemp(M)	Numeric Point	HeatExchange LowerTemp(M)	AI	xxx1323	nvoHeatExchangeLowerTemp_[Device Name]	SNVT_count_inc_f	°F			
SubCoolPipe InTemp(M)	Numeric Point	SubCoolPipe InTemp(M)	AI	xxx1324	nvoSubCoolPipeInTemp_[Device Name]	SNVT_count_inc_f	°F			
SubCoolPipe OutTemp(M)	Numeric Point	SubCoolPipe OutTemp(M)	AI	xxx1325	nvoSubCoolPipeOutTemp_[Device Name]	SNVT_count_inc_f	°F			
Main1Eev Pulse(M)	Numeric Point	Main1Eev Pulse(M)	AI	xxx1326	nvoMainEev1Position_[Device Name]	SNVT_count_f				
Main2Eev Pulse(M)	Numeric Point	Main2Eev Pulse(M)	AI	xxx1327	nvoMainEev2Position_[Device Name]	SNVT_count_f				
SubEev Pulse(M)	Numeric Point	SubEev Pulse(M)	AI	xxx1328	nvoSubEevPosition_[Device Name]	SNVT_count_f				
SubCoolEev Pulse(M)	Numeric Point	SubCoolEev Pulse(M)	AI	xxx1329	nvoSubCoolEevPosition_[Device Name]	SNVT_count_f				
OilEqEev(M)	Numeric Point	OilEqEev(M)	AI	xxx1330	nvoOilEqEev_[Device Name]	SNVT_count_f				
ViEev1(M) [Vapor Injection]	Numeric Point	ViEev1(M) [Vapor Injection]	AI	xxx1331	nvoVaporInjectionEEV1_[Device Name]	SNVT_count_f				
ViEev2(M) [Vapor Injection]	Numeric Point	ViEev2(M) [Vapor Injection]	AI	xxx1332	nvoVaporInjectionEEV2_[Device Name]	SNVT_count_f				
Connectedldu Number(M)	Numeric Point	Connectedldu Number(M)	AI	xxx1333	nvoDUQuantity_[Device Name]	SNVT_count_f				
OduCapacity(M)	Numeric Point	OduCapacity(M)	AI	xxx1334	nvoOduCapacity_[Device Name]	SNVT_count_f				
ControlStep(M)	Numeric Point	ControlStep(M)	AI	xxx1335	nvoControlStep_[Device Name]	SNVT_count_f				
Inv2Capacity(M)	Enum Point	Inv2Capacity(M)	MI	xxx1336	nvoInv2Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Inv1Heater(M)	Boolean Point	Inv1Heater(M)	BI	xxx1337	nvoInv1Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv2Heater(M)	Boolean Point	Inv2Heater(M)	BI	xxx1338	nvoInv2Heater_[Device Name]	SNVT_switch	Off (0)	On (1)		
Inv1OilSensor(M)	Boolean Point	Inv1OilSensor(M)	BI	xxx1339	nvoInv1OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Inv2OilSensor(M)	Boolean Point	Inv2OilSensor(M)	BI	xxx1340	nvoInv2OilSensor_[Device Name]	SNVT_switch	Not Detect Oil (0)	Detect Oil (1)		
Compressor Quantity(M)	Numeric Point	Compressor Quantity(M)	AI	xxx1341	nvoCompQuantity_[Device Name]	SNVT_count_f				
Inv1Backup(M)	Boolean Point	Inv1Backup(M)	BI	xxx1342	nvoInv1Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv2Backup(M)	Boolean Point	Inv2Backup(M)	BI	xxx1343	nvoInv2Backup_[Device Name]	SNVT_switch	Backup Operation Not Used (0)	Backup Operation Used (1)		
Inv1Capacity(M)	Enum Point	Inv1Capacity(M)	MI	xxx1344	nvoInv1Capacity_[Device Name]	SNVT_count		4.4 Horsepower (1)	4.8 Horsepower (2)	6.8 Horsepower (3)
Ddc(M)	Boolean Point	Ddc(M)	BI	xxx1345	nvoDdc_[Device Name]	SNVT_switch	Off (0)	On (1)		

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

IDU Points

Niagara Points		BACnet Objects			Lon Objects		Range					
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx2001	nvoERROR_ [Device Name]	SNVT_count	Refer to LG Error code list					
LockSetting(M)	Boolean Point	LockSetting(M)	BI	xxx2002	nvoLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
LockSetting(C)	Boolean Writable	LockSetting(C)	BO	xxx2003	nviLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
Operation Setting(M)	Boolean Point	Operation Setting(M)	BI	xxx2004	nvoOperation_ [Device Name]	SNVT_switch	Stop(0)	Start(1)				
Operation Setting(C)	Boolean Writable	Operation Setting(C)	BO	xxx2005	nviOperation_ [Device Name]	SNVT_switch	Stop(0)	Start(1)				
FilterSign(M)	Boolean Point	FilterSign(M)	BI	xxx2006	nvoFilterSign_ [Device Name]	SNVT_switch	Normal(0)	Alarm(1)				
FanSpeed Setting(M)	Enum Point	FanSpeed Setting(M)	MI	xxx2007	nvoFanSpeed_ [Device Name]	SNVT_count		Low(1)	Middle(2)	High(3)	Auto(4)	
FanSpeed Setting(C)	Enum Writable	FanSpeed Setting(C)	MO	xxx2008	nviFanSpeed_ [Device Name]	SNVT_count		Low(1)	Middle(2)	High(3)	Auto(4)	
SwingSetting(M)	Boolean Point	SwingSetting(M)	BI	xxx2009	nvoSwing_ [Device Name]	SNVT_switch	Off(0)	On(1)				
SwingSetting(C)	Boolean Writable	SwingSetting(C)	BO	xxx2010	nviSwing_ [Device Name]	SNVT_switch	Off(0)	On(1)				
ModeSetting(M)	Enum Point	ModeSetting(M)	MI	xxx2011	nvoMode_ [Device Name]	SNVT_count		Cool(1)	Dry(2)	Fan(3)	Auto-Cool(4)	Heat(5)
ModeSetting(C)	Enum Writable	ModeSetting(C)	MO	xxx2012	nviMode_ [Device Name]	SNVT_count		Cool(1)	Dry(2)	Fan(3)	Auto(4)	Heat(5)
SetPoint Setting(M)	Numeric Point	SetPoint Setting(M)	AI	xxx2013	nvoSetPoint_ [Device Name]	SNVT_count_ inc_f	°F Cool(64-86), Heat(60-86)					
SetPoint Setting(C)	Numeric Writable	SetPoint Setting(C)	AV	xxx2014	nviSetPoint_ [Device Name]	SNVT_count_ inc_f	°F Cool(64-86), Heat(60-86)					
Room Temperature(M)	Numeric Point	Room Temperature(M)	AI	xxx2015	nvoRoomTemp_ [Device Name]	SNVT_count_ inc_f	°F					
Pipeln Temperature(M)	Numeric Point	Pipeln Temperature(M)	AI	xxx2016	nvoPipelnTemp_ [Device Name]	SNVT_count_ inc_f	°F					
PipeOut Temperature(M)	Numeric Point	PipeOut Temperature(M)	AI	xxx2017	nvoPipeOutTemp_ [Device Name]	SNVT_count_ inc_f	°F					
IduAddress LockSetting(M)	Boolean Point	IduAddress LockSetting(M)	BI	xxx2018	nvoIDUAddress Lock_[Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
IduAddress LockSetting(C)	Boolean Writable	IduAddress LockSetting(C)	BO	xxx2019	nviIDUAddress- Lock_[Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
ModeLock Setting(M)	Boolean Point	ModeLock Setting(M)	BI	xxx2020	nvoModeLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
ModeLock Setting(C)	Boolean Writable	ModeLock Setting(C)	BO	xxx2021	nviModeLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
FanLock Setting(M)	Boolean Point	FanLock Setting(M)	BI	xxx2022	nvoFanLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
FanLock Setting(C)	Boolean Writable	FanLock Setting(C)	BO	xxx2023	nviFanLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
Temperature LockStatus(M)	Boolean Point	Temperature LockStatus(M)	BI	xxx2024	nvoTempLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				
Temperature LockStatus(C)	Boolean Writable	Temperature LockStatus(C)	BO	xxx2025	nviTempLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)				

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

IDU Points, continued.

Niagara Points		BACnet Objects			Lon Objects		Range	
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1
LowerSetTemperatureRangeSetting(M)	Numeric Point	LowerSetTemperatureRangeSetting(M)	AI	xxx2026	nvoLowerSetTempRange_[Device Name]	SNVT_count_inc_f	°F (60 ~ 86)	
LowerSetTemperatureRangeSetting(C)	Numeric Writable	LowerSetTemperatureRangeSetting(C)	AV	xxx2027	nviLowerSetTempRange_[Device Name]	SNVT_count_inc_f	°F (60 ~ 86)	
UpperSetTemperatureRangeSetting(M)	Numeric Point	UpperSetTemperatureRangeSetting(M)	AI	xxx2028	nvoUpperSetTempRange_[Device Name]	SNVT_count_inc_f	°F (60 ~ 86)	
UpperSetTemperatureRangeSetting(C)	Numeric Writable	UpperSetTemperatureRangeSetting(C)	AV	xxx2029	nviUpperSetTempRange_[Device Name]	SNVT_count_inc_f	°F (60 ~ 86)	
Pt2SetAutoSupportSetting(M)	Boolean Point	Pt2SetAutoSupportSetting(M)	BI	xxx2030	nvo2SetAuto_[Device Name]	SNVT_switch	IDU Does Not Support (0)	IDU Does Support (1)
CoolTemperatureUpperRangeSetting(M)	Numeric Point	CoolTemperatureUpperRangeSetting(M)	AI	xxx2031	nvoCoolUpperTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
CoolTemperatureUpperRangeSetting(C)	Numeric Writable	CoolTemperatureUpperRangeSetting(C)	AV	xxx2032	nviCoolUpperTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
CoolTemperatureLowerRangeSetting(M)	Numeric Point	CoolTemperatureLowerRangeSetting(M)	AI	xxx2033	nvoCoolLowerTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
CoolTemperatureLowerRangeSetting(C)	Numeric Writable	CoolTemperatureLowerRangeSetting(C)	AV	xxx2034	nviCoolLowerTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
HeatTemperatureUpperRangeSetting(M)	Numeric Point	HeatTemperatureUpperRangeSetting(M)	AI	xxx2035	nvoHeatUpperTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
HeatTemperatureUpperRangeSetting(C)	Numeric Writable	HeatTemperatureUpperRangeSetting(C)	AV	xxx2036	nviHeatUpperTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
HeatTemperatureLowerRangeSetting(M)	Numeric Point	HeatTemperatureLowerRangeSetting(M)	AI	xxx2037	nvoHeatLowerTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
HeatTemperatureLowerRangeSetting(C)	Numeric Writable	HeatTemperatureLowerRangeSetting(C)	AV	xxx2038	nviHeatLowerTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
CoolSetTemperatureSetting(M)	Numeric Point	CoolSetTemperatureSetting(M)	AI	xxx2039	nvoCoolSetTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
CoolSetTemperatureSetting(C)	Numeric Writable	CoolSetTemperatureSetting(C)	AV	xxx2040	nviCoolSetTemp_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
CoolSetTemperatureSettingUnocc(C)	Numeric Writable	CoolSetTemperatureSettingUnocc(C)	AV	xxx2041	nviCoolSetTempUnocc_[Device Name]	SNVT_count_inc_f	°F (50 ~ 99)	
HeatSetTemperatureSetting(M)	Numeric Point	HeatSetTemperatureSetting(M)	AI	xxx2042	nvoHeatSetTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
HeatSetTemperatureSetting(C)	Numeric Writable	HeatSetTemperatureSetting(C)	AV	xxx2043	nviHeatSetTemp_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
HeatSetTemperatureSettingUnocc(C)	Numeric Writable	HeatSetTemperatureSettingUnocc(C)	AV	xxx2044	nviHeatSetTempUnocc_[Device Name]	SNVT_count_inc_f	°F (40 ~ 90)	
OccupancyModeSetting(M)	Boolean Point	OccupancyModeSetting(M)	BI	xxx2045	nvoOcc_[Device Name]	SNVT_switch	Unoccupied(0)	Occupied(1)
OccupancyModeSetting(C)	Boolean Writable	OccupancyModeSetting(C)	BO	xxx2046	nviOcc_[Device Name]	SNVT_switch	Unoccupied(0)	Occupied(1)
OverrideMode(M)	Boolean Point	OverrideMode(M)	BI	xxx2047	nvoOverride_[Device Name]	SNVT_switch	Not Selected (0)	Selected (1)
OccupancySensorInstalled(M)	Boolean Point	OccupancySensorInstalled(M)	BI	xxx2048	nvoOccSensorInstalled_[Device Name]	SNVT_switch	Not installed (0)	Installed (1)
OccupancySensorStatus(M)	Boolean Point	OccupancySensorStatus(M)	BI	xxx2049	nvoOccSensor_[Device Name]	SNVT_switch	Detected Unoccupy (0)	Detected Occupy (1)
Pt2SetFunctionStatusSetting(M)	Boolean Point	Pt2SetFunctionStatusSetting(M)	BI	xxx2050	nvo2SetFuncSupport_[Device Name]	SNVT_switch	Not Supported (0)	Supported (1)
ThermoStatus(M)	Boolean Point	ThermoStatus(M)	BI	xxx2051	nvoThermoOnOff_[Device Name]	SNVT_switch	Off(0)	On(1)
Deadband (M)	Numeric Point	Deadband (M)	AI	xxx2052	nvoDeadband_[Device Name]	SNVT_count_inc_f	°F	
AccumulatedPowerofIDU(M)	Numeric Point	AccumulatedPowerofIDU(M)	AI	xxx2053	nvoAccumPowerIDU_[Device Name]	SNVT_count_f	kWh (99999.9)	
CurrentPowerofIDU(M)	Numeric Point	CurrentPowerofIDU(M)	AI	xxx2054	nvoCurrentPowerIDU_[Device Name]	SNVT_count_f	W (999999)	

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

ERV Points

Niagara Points		BACnet Objects			Lon Objects		Range				
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3	Text-4
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx3001	nvoERROR_[Device Name]	SNVT_count	Refer to LG Error code list				
HeaterSetting(M)	Boolean Point	HeaterSetting(M)	BI	xxx3002	nvoHeater_[Device Name]	SNVT_switch	Off(0)	On(1)			
HeaterSetting(C)	Boolean Writable	HeaterSetting(C)	BO	xxx3003	nviHeater_[Device Name]	SNVT_switch	Off(0)	On(1)			
UserMode(M)	Enum Point	UserMode(M)	MI	xxx3004	nvoUserMode_[Device Name]	SNVT_count		None(1)	Quick-Fresh(2)	Energy Savings(3)	
UserMode(C)	Enum Writable	UserMode(C)	MO	xxx3005	nviUserMode_[Device Name]	SNVT_count		None(1)	Quick-Fresh(2)	Energy Savings(3)	
LockSetting(M)	Boolean Point	LockSetting(M)	BI	xxx3006	nvoLock_[Device Name]	SNVT_switch	Permit(0)	Prohibit(1)			
LockSetting(C)	Boolean Writable	LockSetting(C)	BO	xxx3007	nviLock_[Device Name]	SNVT_switch	Permit(0)	Prohibit(1)			
Operation Setting(M)	Boolean Point	Operation Setting(M)	BI	xxx3008	nvoOperation_[Device Name]	SNVT_switch	Stop(0)	Start(1)			
Operation Setting(C)	Boolean Writable	Operation Setting(C)	BO	xxx3009	nviOperation_[Device Name]	SNVT_switch	Stop(0)	Start(1)			
FilterSign(M)	Boolean Point	FilterSign(M)	BI	xxx3010	nvoFilterSign_[Device Name]	SNVT_switch	Normal(0)	Alarm(1)			
FanSpeed Setting(M)	Enum Point	FanSpeed Setting(M)	MI	xxx3011	nvoFanSpeed_[Device Name]	SNVT_count		Low(1)	Middle(2)	High(3)	Auto(4)
FanSpeed Setting(C)	Enum Writable	FanSpeed Setting(C)	MO	xxx3012	nviFanSpeed_[Device Name]	SNVT_count		Low(1)	Middle(2)	High(3)	Auto(4)
OperationMode Setting(M)	Enum Point	OperationMode Setting(M)	MI	xxx3013	nvoOperationMode_[Device Name]	SNVT_count		Hex(1)	Auto(2)	Normal(3)	
OperationMode Setting(C)	Enum Writable	OperationMode Setting(C)	MO	xxx3014	nviOperationMode_[Device Name]	SNVT_count		Hex(1)	Auto(2)	Normal(3)	
Room Temperature(M)	Numeric Point	Room Temperature(M)	AI	xxx3015	nvoRoomTemp_[Device Name]	SNVT_count_inc_f	°F				

MULTISITE COMMUNICATIONS MANAGER BACNET/ LON OBJECT POINTS LIST

AWHP Points

Niagara Points		BACnet Objects			Lon Objects		Range			
Niagara Points Name	Niagara Points Type	BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type	Text-0	Text-1	Text-2	Text-3
ErrorCode(M)	Numeric Point	ErrorCode(M)	AI	xxx4001	nvoERROR_ [Device Name]	SNVT_count	Refer to LG Error code list			
Operation Setting(M)	Boolean Point	Operation Setting(M)	BI	xxx4002	nvoOperation_ [Device Name]	SNVT_switch	Stop(0)	Start(1)		
Operation Setting(C)	Boolean Writ-able	Operation Setting(C)	BO	xxx4003	nviOperation_ [Device Name]	SNVT_switch	Stop(0)	Start(1)		
Lock(M)	Boolean Point	Lock(M)	BI	xxx4004	nvoLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)		
Lock(C)	Boolean Writ-able	Lock(C)	BO	xxx4005	nviLock_ [Device Name]	SNVT_switch	Permit(0)	Prohibit(1)		
OperationMode Setting(M)	Enum Point	OperationMode Setting(M)	MI	xxx4006	nvoOperationMode_ [Device Name]	SNVT_count		Cool (1)	Auto (2)	Heat (3)
OperationMode Setting(C)	Enum Writable	OperationMode Setting(C)	MO	xxx4007	nviOperationMode_ [Device Name]	SNVT_count		Cool (1)	Auto (2)	Heat (3)
AirWaterSetPoint Setting(M)	Numeric Point	AirWaterSetPoint Setting(M)	AI	xxx4008	nvoAirWaterSetPoint_ [Device Name]	SNVT_count_ inc_f	°F (42 ~ 122)			
AirWaterSetPoint Setting(C)	Numeric Writ-able	AirWaterSetPoint Setting(C)	AV	xxx4009	nviAirWaterSetPoint_ [Device Name]	SNVT_count_ inc_f	°F (42 ~ 122)			
ControlMode Setting(M)	Boolean Point	ControlMode Setting(M)	BI	xxx4010	nvoControlMode_ [Device Name]	SNVT_switch	AirSetPoint (0)	Water SetPoint (1)		
HotWaterOperation Status(M)	Boolean Point	HotWaterOperation Status(M)	BI	xxx4011	nvoHotWaterOperation_ [Device Name]	SNVT_switch	Off (0)	On (1)		
HotWaterOperation Status(C)	Boolean Writ-able	HotWaterOperation Status(C)	BO	xxx4012	nviHotWaterOperation_ [Device Name]	SNVT_switch	Off (0)	On (1)		
HotWaterSetPoint Setting(M)	Numeric Point	HotWaterSetPoint Setting(M)	AI	xxx4013	nvoHotWaterSetPoint_ [Device Name]	SNVT_count_ inc_f	°F (86 ~ 122)			
HotWaterSetPoint Setting(C)	Numeric Writ-able	HotWaterSetPoint Setting(C)	AV	xxx4014	nviHotWaterSetPoint_ [Device Name]	SNVT_count_ inc_f	°F (86 ~ 122)			
Room Temperature(M)	Numeric Point	Room Temperature(M)	AI	xxx4015	nvoRoomTemperature_ [Device Name]	SNVT_count_ inc_f	°F			
WaterInlet Temperature(M)	Numeric Point	WaterInlet Temperature(M)	AI	xxx4016	nvoWaterInTemp_ [Device Name]	SNVT_count_ inc_f	°F			
WaterOutlet Temperature(M)	Numeric Point	WaterOutlet Temperature(M)	AI	xxx4017	nvoWaterOutTemp_ [Device Name]	SNVT_count_ inc_f	°F			
HotWaterTank Temperature(M)	Numeric Point	HotWaterTank Temperature(M)	AI	xxx4018	nvoHotWaterTankTemp_ [Device Name]	SNVT_count_ inc_f	°F			
SolarSource Temperature(M)	Numeric Point	SolarSource Temperature(M)	AI	xxx4019	nvoSolarSourceTemp_ [Device Name]	SNVT_count_ inc_f	°F			
Accumulated PowerofIDU(M)	Numeric Point	Accumulated PowerofIDU(M)	AI	xxx4020	nvoAccumPowerIDU_ [Device Name]	SNVT_count_f	kWh (99999.9)			
CurrentPower ofIDU(M)	Numeric Point	CurrentPower ofIDU(M)	AI	xxx4021	nvoCurrentPowerIDU_ [Device Name]	SNVT_count_f	W (999999)			



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Supersedes: UM_MultiSITE_Communications_Manager_11_18

UM_MultiSITE_Communications_Manager_10_18

UM_MultiSITE_Communications_Manager_06_18

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