

LG MultiSITE[™] Communications Manager **USER MANUAL**



Model Number: PBACNBTR0A

(PBACNBTR0 + ZSMA01BMS)

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 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.

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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

	This symbol indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
Note:	This symbol indicates situations that may result in equipment or property damage accidents only.
\bigcirc	This symbol indicates an action that should not be performed.

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

 \bigcirc 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 should 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.

\odot 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.

 \odot Do not install the MultiSITE Communications Manager unit if it will be exposed to rain or other precipitation. \odot Do not install the unit in a location exposed to open flame or extreme heat. \odot Do not touch the unit with wet hands. There is risk of fire, electric shock, physical injury and/or death.

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. \odot 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.*

 \odot Do not spill water or other liquid on the inside of the controller. \odot 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.*

\odot 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. \bigcirc 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. O 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.

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INTRODUCTION

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.

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.







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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.

ID	system_admin	
Passwd	Input Password,	
	save ID	
	Confirm	

Log Out

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



Home View

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



Number	ltem	Description
1	All Indoor Unit Controls	Tap the ON button to set the Operation Setting point of all the Indoor Units to ON.
1		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.

To access the Installing View, tap the ager controller display in this view.

icon in the Home View screen. All devices connected to the MultiSITE Communications Man-

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.

Grouping	Grouping			Installing		Cycle Mo	nitoring	
Unit Status		Devi	сеТуре	Unit Name	Addr/Port	Model	Capacity	
Total Unit ODU	24 6	\checkmark	ODU	ODU_55	5	MULTIV	100	-
idu ERV	6 6	\checkmark	ODU	ODU_4	4	MULTIV	100	
AWHP	6	\checkmark	ODU	ODU_3	3	MULTIV	100	
		\checkmark	ODU	ODU_2	2	MULTIV	100	
		\checkmark	ODU	ODU_1	1	MULTIV	100	
		\checkmark	ODU	ODU_0	0	MULTIV	100	
			IDU	IDU_5	5	AC	3	*
Auto Search								
Modify Unit De	el Unit		Inse	ert 🔽 ID	U Address Lock	<		

Figure 4: Installing View.

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.

Grouping		Installing		Cycle M	onitoring	
Unit Status	DeviceTyp	e Unit Name	Addr/Port	Model	Capacity	
otal Unit 11	IDU	IDU_10	0A	AC	3	-
DU 0 U 11		Auto Search		AC	3	
WHP 0		Auto Search will ta	ke several minutes		3	
		Installing informati with search inform	on will be replaced ation.	AC	3	
		Auto Search is in P	rogress.	AC	3	
		AutoSearch Progre	ss:25%	AC	3	
		Click on Cancel to a	cancel Auto Search	AC	3	-
Auto Search			Cance			
odify Unit Del Unit				_		

Figure 5: AutoSearch Devices.

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	
ODU - Unit Name	Address	Model	Capacity		Insert

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, you can change the Unit Name and address of the device.
- 3. Tap Update.

Figure 7: Modify device details.							
Grouping				Installing		Cycle Mor	nitoring
DeviceType Unit Name(20 Cha	racters)	Address	(00~FF)	Model(20 Characters	a) Capacity	Add at once	
ODU ODU_2		2		Model	Capacity		Update
Unit Status Total Unit	12	Devi	сеТуре	Unit Name	Addr/Port	Model	Capacity
ODU IDU	3 3	V	ODU	ODU_2	2		<u></u>
ERV AWHP	3 3	\checkmark	ODU	ODU_1	1		
		\checkmark	ODU	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.



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.

Grouping	Installing	Cycle Monitoring
Group1	Registered Unit(0)	 Unregistered Unit(18) AWHP_2 Add ERV_3 ERV_4 ERV_5 AWHP_3 AWHP_4 AWHP_5 IDU_0
Add Group Rename Delete		
nstalling		

Figure 9: Grouping View.

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.

Grouping	Installing	Cycle Monitoring
Group1	Registered Unit(0)	Unregistered Unit(18)
		AWHP_2
		Add ERV_3
		ERV_4
	Group Nam	e •
		CONFIRM CANCEL
		IDU_0
Add Group Rename Delete		
A II Installing		

Figure 10: Add New Group.

Add Devices to the Group

Reg

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.						
Registered Unit(2)		Unregistered Unit(16				
AWHP_2		V ERV_4				
ERV_3	 Add 	V ERV_5				
		V AVVHP_3				
	Extract►	V AWHP_4				

AWHP_5

IDU 0

IDU_1

IDU 2

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.

Figure 12: Remove Devices.

To select or unselect all the devices from a list, select the check box on top of the Registered Unit or Unregistered Unit list.

	0		
Grouping	Installing		Cycle Monitoring
Group Name	Registered Unit(3)		Unregistered Unit(6)
Group1	VIDU_2		V AWHP_1
Group2	✓ ERV_2	 Add 	V AWHP_2
	V AWHP_0		V ERV_0
		Extract▶	V ERV_1

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: Renam	e Group.			
Grouping		Installing		Cycle Monito	oring
Group Name	Registered Unit	:(3)		Unregistere	d Unit(6)
Group1	V IDU_2			V AWHP_1	
Group2	V ERV_2		 Add 	V AWHP_2	
	AWHP_0				
			Extract•	V ERV_1	
				V IDU_1	
	G	roun Name			
		roup1			
Add Group Rename Delete					Apply
A II Home			CONFIRM	CANCEL	

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Delete a Group

Select a group and tap the Delete button. The group will be deleted along with the devices under the 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 you select an ODU device from the list, you can view the Cycle Information for all of the Slave devices under that ODU.

Figure 15: ODU Cycle Information.

Grouping	Installing		Cycle Monitoring				
ODU_0	ODU Cycle Informati	on					
	Master	Slave 1	Slave 2	Slave 3			
000_1	ODU Address	0	Heat Exchange Temp	58.0 °C			
ODU_2	ODU Unit Type	Super	Subcool Inlet Temp	0.0 °C			
	Operation Mode	-1	Subcool Outlet Temp	106.0 °C			
000_3	MICOM Ver.	0.0	Subcool EEV	288.0			
ODU_4	Error Code	0.00	Hot Gas Valve	Close			
	Inverter Comp Freq	80.0	Inverter Discharge	158.0 °C			
ODU_55	Inverter FAN1 Freq	23.0	Temp.				
	Inverter FAN2 Freq	23.0	Refrigerant	R22			
	Air Temp	103.0 °C					
	High Pressure	109.0					
	Low Pressure	89.0					
	Suction Temp	114.0 °C					
	Liquid Pipe Temp	-71.0 ℃					

20



IDU Cycle Information

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

Grouping	Ins	stalling		Cycle Monitoring				
ODU	ODU Cycle Information							
ODU1		Sli	ave 1	Sla	ave 2	Slave 3	-	
ODU2	Unit Name	Group Name	Operation	Error	Mode	Target Temp	Fan	
ODU3	IDU_1 IDU_2	test1 test1	OFF ON	0.00	HEAT	28.0 °C 26.5 °C	Low	
ODU4	IDU_3	test2	ON	0.00	FAN	25.0 °C	Auto	
A III Installing								

Figure 16: IDU Cycle Information.



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



Control/

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- · 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.



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.



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.



Number	ltem	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.

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	Number	Item	Description
1	■ 品 茴	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.	$\langle \rangle$	Device icon	This is the device icon. The device shown may not represent the appearance of the actual unit.
3.	74 ^{°F} .0	Current temperature	Example of current temperature of the device.
4.	₩ HEAT	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.	64 .₀	Desired temperature	Example of desired temperature of the device.
6.	IDU 3	Device name	Name of the device.

Icon View



Monitoring View Colors and Icons

Operation Mode Icons





Device Status Icons

Icon	Description
	Filter Exchange
Ð	Full Lock On
	Schedule



Control Device Icons

lcon	Device Type
	Indoor Device
	ERV
	AWHP



Set values for IDUs

When you select an IDU group, 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.

Device Controls for IDU

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The following table describes the controls available when you select one or more IDU devices.

Figure 22: Device Controls for IDU.

Operation		Room	Set Tempe	erature	Mode						
On	Off	۰F	86 .₀		* COOL	* HEA	T 💌 A	UTO	0 DRY	争 FAN	Apply
GoTo		74.0		-	Fan Speed				Swing		
Sch	edule 🕨		64 . ^⁵	▲ ▼	Low	Middle	High	Auto	Set	Clear	Detail. 🕨

Item	Description
Operation	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).
	Tap [▲]/[▼] to set the temperature.
Set Temperature	The maximum/minimum temperatures that can be set may differ depending on the model of unit con- trolled.
Mode	 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. You cannot set the temperature in this mode. FAN: Sets the IDU in Fan Mode. Fan runs to clean the air. You cannot set the temperature in this mode.
Fan Speed	 LOW: Slow fan speed. MED: Medium fan speed. HIGH: Fast fan speed. AUTO: Fan speed automatically adjusts between low, medium, and high.
Swing	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 you to set additional properties for the IDU. The Monitor View is updated with the new values. See the next section for more details.

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Set IDU Details

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

~					Figure 23:	Device Co	ontrols f	or IDU.			
Operation		Room	Set Tempe	erature	Mode						
On	Off	°E	86 [™] 0		* COOL	A HEA		AUTO	⁰ DRY	争 FAN	Apply
GoTo		74.0		-	Fan Speed	ł			Swing		
Sche	dule		64 .⁰	▲ ▼	Low	Middle	High	Auto	Set	Clear	Detail. 🕨

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



Figure 24: IDU details.

The following table describes the controls available when you select the Detail button in the Device Controls section.

Item	Description
Operation	ON button: Starts the operation of the device.OFF Button: Stops the operation of the device.
Set	Tap [▲]/[▼] to set the temperature.
	Tap [▲]/[▼] to set the temperature.
Set Temperature	The maximum/minimum temperatures that can be set may differ depending on the model of unit being controlled.
Mode	 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. You cannot set the temperature in this mode. FAN: Sets the IDU in Fan mode. Fan runs to clean the air. You cannot set the temperature in this mode.
Fan Speed	 LOW: Slow fan speed. MED: Medium fan speed. HIGH: Fast fan speed. AUTO: Fan speed automatically adjusts between low, medium, and high.
Swing	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.
	HardLock: Disables thermostat control for all features.
	Clear: All functions are unlocked.
	ModeLock: Disables thermostat control for local mode setting.
Partial Lock	Clear: Mode is unlocked. Earl ock: Disables thermestet centrel for local fan speed setting
	Clear: Ean speed is unlocked
	TempLock: Disables thermostat control for local temperature setting.
	Clear: Temperature setting is unlocked.
Set Temp Range	Tap [▲]/[▼] to set the temperature limit.
Apply button	Tap the Apply button to apply the selected settings to the IDU devices.
2Setpoint or IDU 2Set button	If the IDU supports 2Set Point, the IDU 2Set button appears. Tap the IDU 2Set button to set up the 2Set point properties. You can change Occupancy, Cooling and Heating Set points, as well as Cooling and Heating Lower and Upper Set points.

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Indoor 2Setpoint Controls

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

	Figure 25	: IDU c	letails.			
IDU			IDU 2Set			
Operation		Set				
On	Off	~		0	~	
Mode						
* COOL		UTO O DRY SFAN		AN		
Fan Speed						
Low	Middle	High		Auto	Auto	
Swing		Filter	Alarm			
Set	Clear	Clear				
Partial Lock						
HardLock	Clear	Mod	deLock Clear		r	
FanLock	Clear	Tem	mpLock Clear		ir -	
Set Temp Rang	e					
• 60	.0	•	86	0		
Cancel		Apply				



Indoor 2Setpoint Mode Icons

lcon	Device Туре
Now [™] COOL 74.0 ± 72 [™]	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.
Now ₩ COOL 74.0 ± 72'F	If the occupancy is 'Occupied', a human shape is shown.
Now COOL RIDE 74.0 ± 72*F	If 'OVERRIDE' is set on the remote control, OVERRIDE text is shown. OVERRIDE function allows you to switch the occupancy status (Occupied/Unoccupied) regard- less of schedules or set-up time.
Now COOL OVER 74.0 ± 72'F	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) regard- less 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.



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.

IDU	Back
Occupancy	
Occupied	Unoccupied
Cooling Set Temp	Heating Set Temp
▼ 86 [°] .0	▲ ▼ 64.0 ▲
Cooling Upper Limit	Heating Upper Limit
▼ 81.0	▲ ▼ 70.0 ▲
Cooling Lower Limit	Heating Lower Limit
▼ 71.0	▲ €3.0
Cancel	Apply

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. [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.


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.



IDU_4

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. You can set 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.

Operation		Room	Set Temperatu	ure	Mode				
On	Off				◎ AUTO	[∆] HE	AT 👘 NO	ORMAL	Apply
GoTo		16°			Fan Speed				
Sche	dule 🕨	10.5		-	Low	High	Super	Auto	Detail. 🕨

Figure 28: ERV Control View.



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

- 5. In the Details window, you can set 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.

$\epsilon \rightarrow C$ (i) 192.168.1.149/ord/service:lgacp	:LgacpWebApp view:	Igacp:Velocity	/ControlMoni	torView			\$:
Control/Monitor						Filter	Icon 👻	
	Operation		Set					
1005	On	Off	•	^				
ERVs	Mode							
	🙆 AUTO	💥 HE	X 3	NORMAL	100			
	Fan Speed				_			
	Low	High	Super	Auto				
	Lock							
	Set		C	lear				
	Additional Function							
	EnergySaving	Quickf	Fresh	None				
	Heater On	Heater Off	Humid On	Humid Off				
~	Co-Airconditioner							
		HEAT	AUTO					
Operation Room Set								
On Off	Cance		Ap	ply			Apply	
GoTo					J			
0.0	-			-				
Schedule		LOW	High	Super A	Auto		Detail. 🕨	
Control/Monitor							AM 07:50	

Figure 29: ERV Control View.

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Set Values in AWHP Control View

AWHP Device View

When you select an AWHP Group, 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.





AWHP 0

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. You can set 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.





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

5. In the Details window, you can set 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.

AWHP		
Operation		
On		Off
Hotwater		
On		Off
Partial Lock		
On		Off
Mode		
* COOL	🔅 HEAT	AUTO
Air Temp	HotWa	ater Temp
▼ 18 ⁵ 0	• •	50°o 🔺
Cancel		Apply

Figure 32: 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
<u> </u>				

AWHP Unit Name Address Model	Capacity	PipeOut 🔻	PipeOut 🔻	Insert

Filter button

The Filter button enables you to filter 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.



Cancel	Apply



30

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 allows you to program the behavior of the devices. If a device must adhere to a certain schedule, you can program the device 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 you to toggle 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

You can configure and add a schedule for a device.

- 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 buttor		Figure	36:	Add a	Schedule	button
----------------------------------	--	--------	-----	-------	----------	--------

<	> today		April	2017		month week		Total	
	, coudy		April	2011		inonan meen			
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Christmas		
26	27	28	29	30	31	1			
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	E Lobby	Ψ	
2	2		5	6	7	R			
∠ Breaktime	Loppy	Loppy	Lobby	Loppy	Loppy	Breaktime	Deservations	-	
Broanteinie	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime		Breaktime		
9	10	11	12	13	14	15			
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime			
10	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime				
16	17	18	19	20	21	22			
Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Breaktime			
23	24	25	26	27	28	29			
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime			
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime				
30	1	2	3	4	5	6			
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	-		
	Breaktime	Breaktime	Вгеактіте	Breaktime	Breaktime		Add a schedule		

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:

You must first create a group in the Grouping tab of the Installing View before creating schedules.

Figure 37: Add new schedule.

IDUs	Schedule Name						
1003	Please, Enter the nam	e of schedule.					
V IDU_0	Time	Period F	rom Pei	riod To	Period/We	ekday	
V IDU_1	0	04/27/20	17 04	/27/2017	Period	Weekday	
	Repeat Pattern	Se	lect Day				
100_2	EveryDay 🕶		Sun M	on Tue	Wed Thu	Fri Sat	
V IDU_3			C	ommand			- 11
V IDU_4	IDU(2)			Comr	nand summ	ary	
V IDU_5							
V IDU_6							
V IDU_7							
V IDU_8							

Element	Function
Schedule Name	Enter the schedule name.
Time field	Tap the clock button to select the desired time.
Period From and Period To option	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	 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 option	A schedule using this method is configured for each week day.





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.

👫 Control/Monitor - LgApp 🗙									_ اك		x
\leftrightarrow \rightarrow C (i) 192.168.1.149/ord?servi	ce:lgacp:LgacpWebApp	p view:lgacp:\	/elocityScł	neduleVie	ew.					☆	:
V IDUs	Schedule Name										
	Please, Enter the nam	ne of schedule.									
V IDU_0	Time	Period	d From	Period	То	Perio	d/Week	day			
✓ IDU_1	©	04/27/	/2017	04/27/	2017	Pe	eriod	Weekday			
	Repeat Pattern		Select Da	у							
100_2	EveryDay 🗸		Sun	Mon	Tue	Wed 7	Thu	Fri Sat			
V IDU_3				Comr	nand				- 11		
V IDU_4	IDU(2)				Comr	nand sun	nma	ry			
V IDU_5					IDU -Operatio	on : On					
V IDU_6					-Mode : Al	UTO					
V IDU_7											
V IDU_8											
V IDU_9											
						Cancel		Confirm			
A Schedule								AI	M 07:57		-

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.

100_0		Command
✓ IDU_4	IDU(2)	Command summary
V IDU_5		IDU -Operation : On
V IDU_6		-Mode : AUTO
V IDU_7		
V IDU_8		
✓ IDU_9		
		Cancel Confirm
A Schedule		AM 07:57



Check Schedule

You can check schedule details for a device.

- 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

You can modify a registered schedule.

- 1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
- 2. Tap/select a schedule you wish to modify 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.

Delete Schedule

You can delete a registered schedule.

- 1. Tap the Schedule icon in the Home View screen to access the Scheduling View.
- 2. Tap/select a schedule you wish to delete from the schedule list. The schedule details are displayed
- 3. Tap the Delete button.

Figure 42: Delete Schedule.

									Total	
<	> today		April	2017		month week			*	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	EEE Christm	as	~	
26	27	28	29	30	31	1 ^				
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	Lobby		-	
2	3	4	5	6	7	8				
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	Breaktir	ne	.	
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime		Di cultur			
9	10	11	12	13	14	15	Repeat	None		
Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby Breaktime	Breaktime				
16	17	18	19	20	21	22	Period	2017-01-01~2017	-12-31	
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	Time	10:15 44		
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime		Time	10:15 AM		
23	24	25	26	27	28	29	No.Unit	2Unit		
Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime				
30	1	2	3	4	5	6	Edit		Delete	
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime				
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	•		Add a schedule		

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

Figure 43: Delete Schedule Confirmation.

<	> today		April	2017		month week	_	Total
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Christmas	
	27	28	29		31	1 ^		
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime	Lobby	Ψ.
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	Q		
Breaktime	Lobby	Lobby	Lobby					*
	Breaktime	Breaktime	Breakti	Delete S	Schedule	Confirmat	tion	
9	10	11	12	olocted Co	bodulo will	he deleted		
Breaktime	Lobby Breaktime	Lobby Breaktime	Lobby			De deleted.		
16	17	18	19	o you war	it to Contir	iue?		
Breaktime	Lobby	Lobby	Lobby					
	Breaktime	Breaktime	Breakti			Yes	No	
23	24	25	26					
Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime		
	1	2		4		6		
Breaktime	Lobby	Lobby	Lobby	Lobby	Lobby	Breaktime		
	Breaktime	Breaktime	Breaktime	Breaktime	Breaktime	×	Add a schedu	le



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EVENT LOG VIEW

Tap the Event Log Licon 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	11.	Event	
FIgure	44.	Eveni	LUY.

ent	Log		Total	Control	Error		04/27/2017	04/27/2017		
	Date	Time	UnitName	Code	Code DetailInformation					
	2017-04-27	07:56:47.647	ERV_01	Error	alarm Value: 242; from State: normal; to State: fault; source Name: Error Code(M);				^	
1	2017-04-27	07:59:29.958	AWHP_01	Error	alarmValue:242;fromSt	tate:normal	toState:fault;sourceNa	me:ErrorCode(M);		
1	2017-04-27	08:08:13.948	IDU_3_OperationSetting(C)	Control	oldVa	lue:false;ne	wValue:true;user:admii	n;		
1	2017-04-27	08:08:13.948	IDU_3_ModeSetting(C)	Control	oldValue:COOL;newValue:AUTO;user:admin;					
1	2017-04-27	08:08:16.980	IDU_4_OperationSetting(C)	Control	oldVa	lue:false;ne	wValue:true;user:admii	n;		
1	2017-04-27	08:08:20.564	IDU_5_OperationSetting(C)	Control	oldValue;false;newValue:true;user.admin;					
1	2017-04-27	08:08:23.725	IDU_6_OperationSetting(C)	Control	oldValue:false;newValue:true;user.admin;					
2	2017-04-27	08:08:26.793	IDU_7_OperationSetting(C)	Control	oldVa	lue:false;ne	wValue:true;user:admin	n;	-	
Ack	nowledge A	larms						Send Email		

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. You can select single or multiple alarms.
Send Email button	Tap this button to send the logged Event/Alarm data via email. Email configuration can be ac- cessed in the Environment View.

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ENERGY REPORT VIEW

Tap the Energy Report selected IDUs in a group.

icon in the Home View screen to generate a monthly or daily report of power consumption data for all or

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 you select All Groups, 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 you 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 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) can also be changed.

Figure 46: General Setting.

General Setting	General Setting
Advance Setting	Language
Customer Setting	Time Setting
Network Setting	1:22 AM
Email Setting	Date Setting 10/28/2016
Communication Setting	Temperature display
Gateway Export	Celsius (C) •
	Initial date for statistics 1(Power Initial Date)/1(Gas Initial Date)
	Version Information ver 4.1.27.9
Environment	

LG MultiSITETM Communications Manager

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.

🥂 General Setting - LgApp 🛛 🔪			
\leftarrow \rightarrow C () 192.168.1.149/ord?service:lgacp	:LgacpWebApp view:lgacp:Velo	ocityGeneralSettingView	¶☆:
General Setting	Advance Setting		
Advance Setting	Backup Station		Download Station Backup
Customer Setting	Auto Mode		
Network Setting	true •]	Apply
Email Setting	Oil Return Operation	Oil Return Operation Time	Apply
Communication Setting	enable disable	12:00 AM	түүл
Gateway Export			
Environment			AM 08:15

Figure 47: Advance Setting.

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, you can add new users.

Customer Setting General Setting Advance Setting Default LG MultiSITETM Communications Manager Customer Setting **Change Password** Change Password Network Setting Add User Email Setting Add User **Communication Setting** User Management Gateway Export guest admin tester1 tester1 BACnet A 11 Environment

Figure 48: Customer Setting.

Delete

Delete

Delete

Edit

Edit

Edit

Add user

Tap Add User to configure a new user.

Figure	49: Customer Setting.
Add User	
User Name:	
Password:	
Full Name:	
Cancel	Apply

Change Password

Tap Change Password to enter a new password.

Figure 50: Customer Setting.

Change Password				
Password:				
Cancel	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.

Conorol Cotting	Network Setting	Aygeneral setting view	
General Setting	Network Setting		
Advance Setting	IP Address Setting		
Customer Setting	Static or DHCP Setting	9	
Network Setting	Static DHCP		
Email Setting	Host Information	Apply New IP	
	Host Name		
Communication Setting	localhost	• For Applying new IP, JACE Will Reboot it	
Gateway Export	IP Information	you sure to Apply?	
	IP Address 192.168.1.149	Ok Cancel	
	Subnet mask 255.255.255.0		
	Gateway 192.168.1.1	Арр	ly
A III Facilitation		٨	M 08:16

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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:	User@gmail.com	
Password:	•••••	
Cancel Apply		

Figure 53: Email Setting.

Email Settings	
Host Name:	https://gmail.com
Port:	25
Authentication:	\checkmark
Use SSL:	\checkmark
Use Start TLS:	\checkmark
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.

🚰 General Setting - LgApp 🛛 🗙		
← → C ③ 192.168.1.149/ord?service:lga	acp:LgacpWebApp view:lgacp:VelocityGeneralSettingView	¶☆:
General Setting	Communication Setting	
Advance Setting	Port Name	
Customer Setting		
Network Setting	Baud Rate	
Email Setting	Data Bits	
Communication Setting	Data Bits8 v	
Gateway Export	Stop Bit1 *	
	Parity Apply	
	Max Address 10 Apply	
A II Environment	АМ	08:19

Gateway Export

This tab is used to enable the MultiSITE Communication Manager to communicate via BACnet IP or LonWorks.

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 Adatper 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.

C 192.108.1.149/ord/servic	e:igacp:LgacpwebApplyiew:igacp:velocityGeheralSettingView	т ж :
General Setting	Gateway Export	
Advance Setting	Bacnet Export	\checkmark
Customer Setting	Lon Export	\checkmark
Network Setting		
Email Setting		Apply
Communication Setting	Bacnet Network Adapters IP Address	
	dm0 v 192.168.1.149	
Gateway Export	BACnet ID	
	9000	
	BACnet Network No.	
	1	
	BACnet Port	
	47808	Apply
		AM 08:20



Indoor Unit

Name	Object Type	Description
On/Off	во	Start Stop Command
On/Off	BI	Start Stop Status
Lock	во	Lock Command
Lock	ВІ	Lock Status
FilterSign	BI	Filter Sign
FilterSign Release	BV	Filter Sign Reset
OperationMode	МО	Operation Mode Command
OperationMode	MI	Operation Mode Status
Vane	во	Vane Command
Vane	ВІ	Vane Status
FanSpeed	МО	Fan Speed Command
FanSpeed	MI	Fan Speed Status
RoomSetPoint	AV	Room Temperature Setpoint Setting
RoomSetPoint	AI	Current Setpoint Status
RoomTemp	AI	Room Temperature
ERROR	AI	Malfunction Code
PipeInTemp	AI	Pipe In Temperature
PipeOutTemp	AI	Pipe Out Temperature
UpperSetTempRange	AV	Upper Temperature Range Setting
UpperSetTempRange	AI	Upper Temperature Range Status
LowerSetTempRange	AV	Lower Temperature Range Setting
LowerSetTempRange	AI	Lower Temperature Range Status
FuncLock	во	All Lock Command
FuncLock	BI	All Lock Status



Indoor Unit (Continued)

Name	Object Type	Description
ModeLock	во	Mode Lock Command
ModeLock	ВІ	Mode Lock Status
FanLock	во	Fan Lock Command
FanLock	BI	Fan Lock Status
TempLock	во	Setpoint Temperature Lock Command
TempLock	ВІ	Setpoint Temperature Lock Status
Осс	во	Occupancy Command
Occ	ВІ	Occupancy Status
CoolSetTemp	AV	Cooling Setpoint Setting
CoolSetTemp	AI	Cooling Setpoint Status
HeatSetTemp	AV	Heating Setpoint Setting
HeatSetTemp	AI	Heating Setpoint Status
CoolUpperTemp	AV	Cooling Upper Temperature Setting
CoolUpperTemp	AI	Cooling Upper Temperature Status
HeatUpperTemp	AV	Heating Upper Temperature Setting
HeatUpperTemp	AI	Heating Upper Temperature Status
CoolLowerTemp	AV	Cooling Lower Temperature Setting
CoolLowerTemp	AI	Cooling Lower Temperature Status
HeatLowerTemp	AV	Heating Lower Temperature Setting
HeatLowerTemp	AI	Heating Lower Temperature Status
ThermoOn/Off	MI	Thermal On/Off Status
AccumPowerIDU	AI	Accumulator Power Distribution Status
CurrentPowerIDU	AI	Current Indoor Power
Deadband	AI	Deadband Status



Indoor Unit (Continued)

Name	Object Type	Description
2SetAuto	AO	Enable 2Set Auto
2SetAuto	AI	2Set Auto Status
Override	ВІ	Override Status
OccSensor	ВІ	Occupancy Sensor Status
OccSensorInstalled	ВІ	Occupancy Sensor Installed
2SetFuncSupport	ВІ	2Set Auto Support

ERV

Name	Object Type	Description
On/Off	во	Start Stop Command
On/Off	ВІ	Start Stop Status
Lock	во	Lock Command
Lock	ВІ	Lock Status
FilterSign	ВІ	Filter Sign
FilterSignRelease	BV	Filter Sign Reset
Fan Speed	МО	Fan Speed Setting
Fan Speed	MI	Fan Speed Status
Malfunction Code	AI	Malfunction Code
Operation Mode	МО	Operational Mode
Operation Mode	МІ	Operational Mode Status
Heater	во	Heater Command
Heater	ВІ	Heater Status
Power Saving Status of ERV	во	Power Saving Status of ERV Command
Power Saving Status of ERV	ВІ	Power Saving Status of ERV Status
Rapidity Status of ERV	во	Rapidity Status of ERV Command
Rapidity Status of ERV	ВІ	Rapidity Status of ERV Status
RoomTemperature	AI	Room Temperature



Outdoor Unit (Monitor Only)

Name	Object Type	Description
RefrigerantType	MI	Type of Refrigerant
ODUTypeUpperdigit	Al	HP, HR or Cool Only
ODUTypelowerdigit	AI	Generation
ERROR	Al	Malfunction Code
SlaveUnitQuantity	AI	Slave ODU Quantity
Unithaserror	ВІ	Error Status
ODU_OperationMode	MI	Operational Mode of Outdoor Unit
Inv1CompCurrentFrequency	AI	Compressor_1 Current Frequency
Inv2CompCurrentFrequency	AI	Compressor_2 Current Frequency
CurrentFan1Frequency	AI	Fan_1 Frequency
CurrentFan2Frequency	AI	Fan_2 Frequency
OutsideTemp	AI	Outdoor Air Temperature
CurrentHighPressure	AI	High Pressure
CurrentLowPressure	AI	Low Pressure
SuctionTemp	AI	Suction Temperature
Inv1dischargeTemp	AI	Inverter_1 Discharge Temperature
Inv2dischargeTemp	AI	Inverter_2 Discharge Temperature
LiquidpipeTemp	AI	Liquid Pipe Temperature
HeatExchangetemp	Al	Heat Exchange Temperature
HeatExchangeuppertemp	AI	Heater Exchange Upper Temperature
HeatExchangelowertemp	AI	Heater Exchange Lower Temperature
SubcoolpipeinTemp	AI	Sub Cool Pipe-In Temperature
SubcoolpipeoutTemp	Al	Sub Cool Pipe-Out Temperature
MainEEV1Position	AI	Main EEV_1 Position



Outdoor Unit (Monitor Only, Continued)

Name	Object Type	Description
MainEEV2Position	AI	Main EEV_2 Position
SubcoolEEVPosition	AI	Sub Cooling EEV Position
OILEQEEV	AI	Oil EEV
VaporInjectionEEV1	AI	Vapor Injection EEV_1
VaporInjectionEEV2	AI	Vapor Injection EEV_2
Compquantity	AI	Compressor Quanity
Inv1Heater	ВІ	Inverter_1 Heater
Inv2Heater	ВІ	Inverter_2 Heater
Inv1Oilsensor	ВІ	Inverter_1 Oil Sensor
Inv2Oilsensor	ВІ	Inverter_2 Oil Sensor
Inv1Backup	ВІ	Inverter_1 Backup
Inv2Backup	ВІ	Inverter_2 Backup
Inv1Capacity	AI	Inverter_1 Capacity
Inv2Capacity	AI	Inverter_2 Capacity
IDUquantity	AI	Indoor Unit Quantity
ODUcapacityHP	AI	Outdoor Unit HP Capacity
ControlStepEnhaceCapacity	AI	Operating Capacity Control given by IO Module
TargetCompPercent	AV	Operating Capacity Control
TargetCompPercent	AI	Operating Capacity Status

Name	Object Type	Description
On/Off	во	On/Off Command
On/Off	ВІ	On/Off Command Status
Lock	во	Lock Command
Lock	BI	Lock Status
OperationMode	МО	Operational Mode Setting
OperationMode	MI	Operational Mode Status
Air/WaterSetPoint	AO	Room Temperature Setpoint
Air/WaterSetPoint	AI	Room Temperature Setpoint Status
HotwaterSetPoint	AV	Hot Water Setpoint
HotwaterSetPoint	AI	Hot Water Setpoint Status
ControlMode	во	Control Mode Command
ControlMode	ВІ	Control Mode Status
HotwaterOnly	ВІ	Hot Water Only Status
RoomTemp	AI	Room Temperature
ERROR	AI	Malfunction Code
HotwaterOperation	во	Hot Water Operation Command
HotwaterOperation	ВІ	Hot Water Operation Status
WaterInTemp	AI	Water In Temperature
WaterOutTemp	AI	Water Out Temperature
HotwaterTankTemp	Al	Hot Water Tank Temperature
SolarSourceTemp	AI	Solar Temperature
SetPipeOutWaterTempCom- mand	AV	Supply Water Temperature Command
SetPipeOutWaterTempStatus	AI	Supply Water Temperature Status



MultiSITE Communications Manager LonWorks Network Variables List Indoor Unit

Name	Object Type	Description
nviLock	SNVT_switch	Start Stop Command
nvoLock	SNVT_switch	Start Stop Status
nviFilterSign	SNVT_switch	Filter Sign
nvoFilterSignRelease	SNVT_switch	Filter Sign Reset
nviMode	SNVT_hvac_mode	Operation Mode Command
nvoMode	SNVT_hvac_mode	Operation Mode Status
nviSwing	SNVT_switch	Vane Command
nvoSwing	SNVT_switch	Vane Status
nviFanSpeed	SNVT_switch	Fan Speed Command
nvoFanSpeed	SNVT_switch	Fan Speed Status
nviSetPoint	SNVT_temp_p	Room Temperature Setpoint Setting
nvoSetPoint	SNVT_temp_p	Current Setpoint Status
nvoRoomTemp	SNVT_temp_p	Room Temperature
nvoERROR	SNVT_hvac_status	Malfunction Code
nvoPipeInTemp	SNVT_temp_p	Pipe In Temperature
nvoPipeOutTemp	SNVT_temp_p	Pipe Out Temperature
nviUpperSetTempRange	SNVT_temp_p	Upper Temperature Range Setting
nvoUpperSetTempRange	SNVT_temp_p	Upper Temperature Range Status
nviLowerSetTempRange	SNVT_temp_p	Lower Temperature Range Setting
nvoLowerSetTempRange	SNVT_temp_p	Lower Temperature Range Status
nviFuncLock	SNVT_switch	All Lock Command
nvoFuncLock	SNVT_switch	All Lock Status
nviModeLock	SNVT_switch	Mode Lock Command
nvoModeLock	SNVT_switch	Mode Lock Status

MultiSITE Communications Manager LonWorks Network Variables List Indoor Unit (Continued)

Name	Object Type	Description
nviFanLock	SNVT_switch	Fan Lock Command
nvoFanLock	SNVT_switch	Fan Lock Status
nviTempLock	SNVT_switch	Setpoint Temperature Lock Command
nvoTempLock	SNVT_switch	Setpoint Temperature Lock Status
nviOcc	SNVT_switch	Occupancy Command
nvoOcc	SNVT_switch	Occupancy Status
nviCoolSetTemp	SNVT_temp_p	Cooling Setpoint Setting
nvoCoolSetTemp	SNVT_temp_p	Cooling Setpoint Status
nviHeatSetTemp	SNVT_temp_p	Heating Setpoint Setting
nvoHeatSetTemp	SNVT_temp_p	Heating Setpoint Status
nviCoolUpperTemp	SNVT_temp_p	Cooling Upper Temperature Setting
nvoCoolUpperTemp	SNVT_temp_p	Cooling Upper Temperature Status
nviHeatUpperTemp	SNVT_temp_p	Heating Upper Temperature Setting
nvoHeatUpperTemp	SNVT_temp_p	Heating Upper Temperature Status
nviCoolLowerTemp	SNVT_temp_p	Cooling Lower Temperature Setting
nvoCoolLowerTemp	SNVT_temp_p	Cooling Lower Temperature Status
nviHeatLowerTemp	SNVT_temp_p	Heating Lower Temperature Setting
nvoHeatLowerTemp	SNVT_temp_p	Heating Lower Temperature Status
nvoThermoOn/Off	SNVT_switch	Thermal On/Off Status
nvoAccumPowerIDU	SNVT_count_f	Accumulator Power Distribution Status
nvoCurrentPowerIDU	SNVT_count_f	Current Indoor Power
nvoDeadband	SNVT_temp_p	Deadband Status
nvi2SetAuto	SNVT_switch	Enable 2Set Auto
nvo2SetAuto	SNVT_switch	2Set Auto Status



MultiSITE Communications Manager LonWorks Network Variables List

Indoor Unit (Continued)

Name	Object Type	Description
nvoOverride	SNVT_switch	Override Status
nvoOccSensor	SNVT_switch	Occupancy Sensor Status
nvoOccSensorInstalled	SNVT_switch	Occupancy Sensor Installed
nvo2SetFuncSupport	SNVT_switch	2Set Auto Support

ERV			
Name	Object Type	Description	
nviOperation	SNVT_switch	Start Stop Command	
nvoOperation	SNVT_switch	Start Stop Status	
nviLock	SNVT_switch	Lock Command	
nvoLock	SNVT_switch	Lock Status	
nviFilterSign	SNVT_switch	Filter Sign	
nvoFilterSignRelease	SNVT_switch	Filter Sign Reset	
nviFanSpeed	SNVT_switch	Fan Speed Setting	
nvoFanSpeed	SNVT_switch	Fan Speed Status	
nvoERROR	SNVT_hvac_status	Malfunction Code	
nviMode	SNVT_hvac_mode	Operational Mode	
nvoMode	SNVT_hvac_mode	Operational Mode Status	
nviHeater	SNVT_switch	Heater Command	
nvoHeater	SNVT_switch	Heater Status	
nviDrift	SNVT_count	Power Saving Status of ERV Command	
nvoDrift	SNVT_count	Power Saving Status of ERV Status	
nviQuick	SNVT_switch	Rapidity Status of ERV Command	
nvoQuick	SNVT_switch	Rapidity Status of ERV Status	
nvoRoomTemp	SNVT_temp_p	Room Temperature	



MultiSITE Communications Manager LonWorks Network Variables List Outdoor Unit (Monitor Only)

Name **Object Type** Description nvoRefrigerantType SNVT count f Type of Refrigerant nvoODUTypeUpperdigit HP, HR or Cool Only SNVT count f nvoODUTypelowerdigit SNVT count f Generation **nvoERROR** SNVT hvac mode Malfunction Code nvoSlaveUnitQuantity SNVT_count_f Slave ODU Quantity SNVT switch nvoUnithaserror Error Status nvoODU OperationMode SNVT count f Operational Mode of Outdoor Unit SNVT count f nvolnv1CompCurrentFrequency Compressor 1 Current Frequency nvolnv2CompCurrentFrequency SNVT count f Compressor 2 Current Frequency nvoCurrentFan1Frequency Fan_1 Frequency SNVT_count_f nvoCurrentFan2Frequency SNVT_count_f Fan_2 Frequency **Outdoor Air Temperature** nvoOutsideTemp SNVT temp p nvoCurrentHighPressure SNVT count f **High Pressure** nvoCurrentLowPressure SNVT count f Low Pressure nvoSuctionTemp SNVT_temp_p Suction Temperature nvolnv1dischargeTemp SNVT temp p Inverter 1 Discharge Temperature Inverter_2 Discharge Temperature nvolnv2dischargeTemp SNVT_temp_p nvoLiquidpipeTemp SNVT_temp_p Liquid Pipe Temperature nvoHeatExchangetemp SNVT_temp_p Heat Exchange Temperature nvoHeatExchangeuppertemp SNVT_temp_p Heater Exchange Upper Temperature nvoHeatExchangelowertemp Heater Exchange Lower Temperature SNVT_temp_p nvoSubcoolpipeinTemp SNVT temp p Sub Cool Pipe-In Temperature nvoSubcoolpipeoutTemp SNVT_temp_p Sub Cool Pipe-Out Temperature



nvoMainEEV1Position

Main EEV 1 Position

SNVT count f

MultiSITE Communications Manager LonWorks Network Variables List

Outdoor Unit (Monitor Only, Continued)

Name	Object Type	Description
nvoMainEEV2Position	SNVT_count_f	Main EEV_2 Position
nvoSubcoolEEVPosition	SNVT_count_f	Sub Cooling EEV Position
nvoOILEQEEV	SNVT_count_f	Oil EEV
nvoVaporInjectionEEV1	SNVT_count_f	Vapor Injection EEV_1
nvoVaporInjectionEEV2	SNVT_count_f	Vapor Injection EEV_2
nvoCompquantity	SNVT_count_f	Compressor Quanity
nvolnv1Heater	SNVT_switch	Inverter_1 Heater
nvolnv2Heater	SNVT_switch	Inverter_2 Heater
nvolnv1Oilsensor	SNVT_switch	Inverter_1 Oil Sensor
nvolnv2Oilsensor	SNVT_switch	Inverter_2 Oil Sensor
nvolnv1Backup	SNVT_switch	Inverter_1 Backup
nvolnv2Backup	SNVT_switch	Inverter_2 Backup
nvolnv1Capacity	SNVT_count_f	Inverter_1 Capacity
nvolnv2Capacity	SNVT_count_f	Inverter_2 Capacity
nvoIDUqauntity	SNVT_count_f	Indoor Unit Quantity
nvoODUcapacityHP	SNVT_count_f	Outdoor Unit HP Capacity
nvoControlStepEnhaceCapacity	SNVT_count_f	Operating Capacity Control given by IO Module
nviTargetCompPercent	SNVT_count_f	Operating Capacity Control
nvoTargetCompPercent	SNVT_count_f	Operating Capacity Status

MultiSITE Communications Manager LonWorks Network Variables List

Name	Object Type	Description
nviOperation	SNVT_switch	On/Off Command
nvoOperation	SNVT_switch	On/Off Command Status
nviLock	SNVT_switch	Lock Command
nvoLock	SNVT_switch	Lock Status
nviOperationMode	SNVT_hvac_mode	Operational Mode Setting
nvoOperationMode	SNVT_hvac_mode	Operational Mode Status
nviAir/WaterSetPoint	SNVT_temp_p	Room Temperature Setpoint
nvoAir/WaterSetPoint	SNVT_temp_p	Room Temperature Setpoint Status
nviHotwaterSetPoint	SNVT_temp_p	Hot Water Setpoint
nvoHotwaterSetPoint	SNVT_temp_p	Hot Water Setpoint Status
nviControlMode	SNVT_switch	Control Mode Command
nvoControlMode	SNVT_switch	Control Mode Status
nvoHotwaterOnly	SNVT_switch	Hot Water Only Status
nvoRoomTemp	SNVT_temp_p	Room Temperature
nvoERROR	SNVT_hvac_status	Malfunction Code
nviHotwaterOperation	SNVT_switch	Hot Water Operation Command
nvoHotwaterOperation	SNVT_switch	Hot Water Operation Status
nvoWaterInTemp	SNVT_temp_p	Water In Temperature
nvoWaterOutTemp	SNVT_temp_p	Water Out Temperature
nvoHotwaterTankTemp	SNVT_temp_p	Hot Water Tank Temperature
nvoSolarSourceTemp	SNVT_temp_p	Solar Temperature
SetPipeOutWaterTempCom- mand	SNVT_temp_p	Supply Water Temperature Command
SetPipeOutWaterTempStatus	SNVT_temp_p	Supply Water Temperature Status





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