

Unit to Unit (U2U) Communication Setup

Installer/User Guide

Liebert® iCOM™ 3 - V1A Network and Liebert® iCOM™ 3 - V1A/Backwards Compatibility to PA, V1A/Backwards Compatibility to A9H The information contained in this document is subject to change without notice and may not be suitable for all applications. While every precaution has been taken to ensure the accuracy and completeness of this document, Vertiv assumes no responsibility and disclaims all liability for damages result from use of this information or for any errors or omissions.

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Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

Visit https://www.vertiv.com/en-us/support/ for additional assistance.

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1 Vertiv[™] Liebert[®] iCOM[™] 3 Unit to Unit Communication

The Liebert® iCOM[™] controller shall provide the capability of networking up to (32) Liebert units within a single network group. The networking capability shall provide access to standby/lead-lag and Teamwork Mode functionality. Vertiv recommends that all thermal units be connected to the same LAN (local area network) on the same IP subnet mask separate from any non-Liebert equipment.

1.1 Setting the IP Address

Figure 1.1 Network Setup/Unit IP Settings

NOTE: When multiple Liebert thermal units arrive on site, they will all have the same default network credentials. These network settings will need to be configured on all thermal units. Do not connect them into the network, but treat them as isolated single units for the next steps.





NOTE: The Vertiv[™] Liebert[®] iCOM[™] network settings will need to be changed from their default settings on all units separately.

Table 1.1 Default IP Addresses

Liebert® iCOM™ 3 boards	192.168.254.12
Liebert® iCOM™ 3 HMI	192.168.254.33
Liebert® iCOM™ 1/2 large	192.168.254.1
Liebert® iCOM™ 1 medium	192.168.254.2
Liebert® iCOM™ CDL	192.168.254.3
Liebert® iCOM™ 9-inch HMI	192.168.254.033
Liebert® iCOM™ CDS	192.168.254.4

IP Address is the IP address of the control board.

NOTE: The IP addresses of all units belonging to the same system must be in the same IP subnet. This means that the first three sets (octets) of digits of the IP address must be equal on all units in the same system, while the last digit must be unique.

Netmask is typically set to 255 - 255 - 0. This setting must be the same on all devices of the network.

Gateway and DNS (Domain Name System) typically have all digits set to 0.

After configuring all parameters, the settings need to be saved by pressing 'Save'.

NOTE: If the board's IP address was changed from the default IP address, the display will lose the connection, and needs to be adapted to this new IP address.

The IP address of the display needs to be changed accordingly (i.e., the first three sets (octets) equal to the boards IP, the last set (octet) unique).

The Homepage IP needs to be changed to point to the new board's IP Address.

Press and hold the upper-left corner of the display (minimum five seconds), log in and select:

- In Web Browser: 'Edit' and change the homepage IP (i.e., the board where the display shall point to), finish with 'Save'.
- Menu/Network/Network Interfaces: 'Edit' and change the Display's IP Address, Netmask, and Gateway
 accordingly, finish with 'Save'.

Once all devices have their unique IP address, the network can be established by connecting the Ethernet cables.

1.2 Setting Up the Network

Figure 1.2 Network Setup

	ED	K Back 🔣 Unit 🔓 Unlocked
NETWORK SETUP	NETWORK SETUP	
CATEGORY	PROPERTY	VALUE
Unit IP Settings	Number of Connected Units	- 2 +
Network Setup	Backwards Compatibility Mode	None 👻
Addresses 1-16	U2U Address	- 1 +
Copy Configuration	Apply Network Settings	No 👻
		Cancel Save

NOTE: These settings are only required on unit #1. They will be copied later to the other units. (See Network Setup, Copy Configuration on page 4 .)

Number of Connected Units defines the number of control boards in the team.

Backwards Compatibility Mode must be set to 'None' for Vertiv[™] Liebert[®] iCOM[™] 3 only systems, to 'PA' for mixed systems with Vertiv[™] Liebert[®] iCOM[™] 2 units with PA software, to 'A9H' or 'PH' if backwards compatibility is required with these applications.

NOTE: Even if backwards compatibility (mixed network) is required, it is suggested first setting up the system as a pure Liebert® iCOM[™] 3 V1A network, and once everything is connected and working, adding the backwards compatibility. See Backwards Compatibility Vertiv[™] Liebert® iCOM[™] 3 - V1A to Vertiv[™] Liebert® iCOM[™] 2 - PA on page 7.

U2U Address is the unit identification number within the system. It must be assigned sequentially, starting at '1'.

After configuring all parameters, the settings need to be saved by setting 'Apply Network Settings' to 'Yes' and touching 'Save'.

1.3 Setting the IP Addresses Belonging to the System



Figure 1.3 Addresses 1-16 (17-32)

NOTE: These settings need to be done only on unit #1 (See Network Setup, Copy Configuration on the next page .

These pages define the IP address of all units belonging to the system.

When setting 'Auto Configuration' to 'Yes', the control board will automatically configure these IP addresses starting from its local IP address; by setting the first three fields equal and increasing field 4 by one for all defined units (Number of connected units).

NOTE: After the auto-configuration process has completed, the IP addresses can be edited in case they are not sequential as the auto-configuration process assumes.

After configuring and/or verifying all parameters, the settings need to be saved by setting 'Apply Network Settings' to 'Yes' and then touching 'Save'.

NOTE: All units in the network need to have the same IP settings in that screen. In order to simplify the setup there is a Network Setup, Copy Configuration on the next page.

1.4 Network Setup, Copy Configuration

Figure 1.4	Network	Setup,	Сору	Configuration
------------	---------	--------	------	---------------

NETWORK SETUP	COPY CONFIGURATION	
CATEGORY	PROPERTY	VALUE
Unit IP Settings	Execute	None 👻
Network Setup	Status	Idle
Addresses 1-16		
Copy Configuration		Cancel Save

This page allows copying the U2U configuration to all other control boards in the system. Typically the copy process is started from unit #1.

The prerequisites for this operation are:

• All control boards are reachable: the IP addresses are setup correctly, and network cables are connected.

The copy process can be started by setting 'Execute' to 'Start' and then touching 'Save'.

If the status changes back to 'Idle' the copy process is complete, all units (except the one which triggered the process) will reboot to save the configuration and this concludes the setup.

Carefully check if the copy process was successful in all units.

1.5 System Overview

The System Overview menu on the Vertiv[™] Liebert[®] iCOM[™] 3 display is showing the system values and the status of the units of the system.



≡ v	SER SERV	ICE ADVA	NCED			< Back Unit	
SYSTEM	OVERVIEW	v			U01 Unit On		
System O	nOff		(Off On	U02 Unit On		
6	an 60 <mark>%</mark>		FC 0	*			
c	ool 31%		Heat ()%			
De	hum 0%		Humi (0%			
Temp	Setpoint 25.0 °C	Return 29.1°C	Supply 20.0 °C	Remote 30.0 °C			
Humi	20.0 rh%	47.7 rh%		50.0 rh% Save			

- Check the correct appearance of all.
- If units are missing:
 - Check/correct the settings of unit #1, and repeat the steps described in Network Setup, Copy Configuration on the previous page .

or

• Check/correct the individual unit settings.

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2 Backwards Compatibility Vertiv[™] Liebert[®] iCOM[™] 3 -V1A to Vertiv[™] Liebert[®] iCOM[™] 2 - PA

Mixed systems with PA are supported starting from Liebert® iCOM™ 3 V1A1.01.00R and Liebert® iCOM™ 2 PA2.06.57R.

NOTE: PA2.07.xxR versions are not yet supported.

Mixed systems require the PA Liebert[®] iCOM[™] 2 units being set as the first units in the team (e.g., U2U Address #1 to #3), and the V1A Liebert[®] iCOM[™] 3 units shall be appended after them (e.g., U2U Address #4 and #5).

The following instructions assume that the Liebert[®] iCOM[™] 2 network has loaded (was updated with) the software version mentioned above, and is fully functional.

2.1 Vertiv[™] Liebert[®] iCOM[™] 2 - PA: Service/BMS and Teamwork/Teamwork/Standby/Teamwork Mode

Figure 2.1 Teamwork/Standby/Teamwork Mode Control



'Compatibility with iCOM3' enables the communication to Liebert® iCOM™ 3. This setting is synchronized (i.e., automatically set in all Liebert® iCOM™ 2 units).

Set to 'Enabled' and touch 'Save'.

2.2 Vertiv[™] Liebert[®] iCOM[™] 2 - PA: Service/BMS and Teamwork/Teamwork/Standby/Vertiv[™] Liebert[®] iCOM[™] 3 Compatibility Setup



Figure 2.2 Teamwork/Standby, Liebert® iCOM™ 3 Compatibility Setup

NOTE: These settings need to be done only on unit #1. These settings are synchronized (i.e., automatically set in all Liebert[®] iCOM[™] 2 units).

The parameter 'Number of Connected Units' defines the team size.

NOTE: The number of connected units defines the total number of Liebert[®] iCOM[™] 2 plus Liebert[®] iCOM[™] 3 units in the system.

The parameter 'IP Auto-Configuration' operates as follows when set to 'Yes':

- 1. Assigns IP addresses within the range of the team consecutively according to the local IP address and unit ID.
- 2. Assigns IP address 0.0.0.0 to units outside the range of the team (e.g., starting from unit #6 in this example).
- 3. Does not reassign IP addresses when they are different from 0, i.e., they are (presumably) configured already.

Scroll down to check/set all IP addresses and states. If the IP addresses are not consecutive, make changes so that they match the actual units IP addresses on site.

After that, the Liebert[®] iCOM[™] 3 settings need to be updated:

• In Liebert[®] iCOM[™] 2, unit #1, set 'Copy to iCOM3' to 'Yes' and touch 'Save'.

NOTE: This is not yet implemented.

2.3 Copy Function

1 Alian Alia	♥ iCOM2 01	្ ^{រ្} 17.02.2022 09:42
USER SERVICE ADVANCED	Back Search	🔍 🙁 Power 🎦 Unlocked
TEAMWORK / STANDBY	ICOM3 COMPATIBILITY SI	ETUP
OPTIONS	SETPOINT	VALUE
Standby		UK
Unit Rotation	IP / Status Unit #07	192.168.0.8
Teamwork Mode		ОК ?
	Copy MT Configuration	No 🗘
ICOM3 Compatibility Setup	Copy to (0 = All)	- 0 + 32
	Copy Status	ок
		Cancel Save
<	<u>†</u> •••••	>

Figure 2.3 Teamwork/Standby, iCOM3 Compatibility Setup

'Copy MT Configuration' allows copying the IP configuration to Vertiv™ Liebert® iCOM™ 3 units.

Prerequisite: All units have their unique IP address, and their status shows 'OK'. Any other setting (like U2U Address, Number of Connected Units, etc.) for Liebert[®] iCOM[™] 3 units will be automatically set by the copy process.

Start the copy process by setting 'Copy MT Configuration' to 'Start', followed by 'Save'.

With 'Copy to' set to Zero all Liebert® iCOM™ 3 units will receive the IP and System configuration.

Watch the 'Copy Status' for Error Messages.

The copy process will take several minutes - it is completed once the Liebert® iCOM™ 3 units have rebooted.

• Check the status of each unit, it should show 'OK' after the copy process.

If communication interruptions occur during the copy process, one or all units may return an error status, like 'Err CpyCfg'. In this case:

- Set 'Copy MT Configuration' to 'Reset', followed by 'Save'.
- Repeat the process (for just one unit, or for all units (use 'Copy to' to select if all units or just one should repeat the process) by setting 'Copy MT Configuration' again to 'Start', followed by 'Save'.

Once complete, it is required to set 'Backwards Compatibility Mode' to 'PA' in each Liebert® iCOM™ 3 unit (see **Figure 1.2** on page 2).

2.4 System Overview Screens Vertiv[™] Liebert[®] iCOM[™] 3 and Vertiv[™] Liebert[®] iCOM[™] 2

The System Overview menus on Liebert® iCOM[™] 3 and Liebert® iCOM[™] 2 displays are showing the system values and the status of the units of the system. See **Figure 2.4** below and **Figure 2.5** below.

Figure 2.4 System Overview Liebert[®] iCOM[™] 3

USER SERVICE AD	VANCED	K Back 😳 Unit 🕒 Unlocked
SYSTEM OVERVIEW		U01 Unit On
System OnOff	Off On	U02 Unit On
Fan 5 <mark>4%</mark>	FC 20%	
Cool 90%	Heat 0%	U03 Unit On
Dehum 0%	Humi 0%	1104 Unit On
Seturint Petur	Supply Perote	
Temp 0.0°C 29.0°C	20.5°C 30.0°C	U05 Unit On
Humi 0.0 rh% 46.5 rh%	50.0 rh%	
	Save	

Figure 2.5 System Overview Liebert® iCOM™ 2



- Check the correct appearance of all units.
- If units are missing:
 - Check/correct the settings of unit #1, and repeat the steps described in this chapter.

or

• Check/correct the individual unit settings.

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3 Backwards Compatibility Vertiv™ Liebert® iCOM™ 3 -V1A to Vertiv™ Liebert® iCOM™ 1 - A9H

Mixed systems with A9H are supported starting from Liebert® iCOM™ 3 V1A1.01.000R and Liebert® iCOM™ 1 A9H_1_04_52R_ MT.

The following instructions assume that the Liebert[®] iCOM[™] 1-A9H network has loaded (was updated with) the software version mentioned above, and is fully functional.

3.1 Service/S800 System/Network Setup



SERVICE MENUS	
S800 SYSTEM / NETWORK SETUP	
allows set-up of unit to unit (U2U) communications for multiple units	
♦ to change level ♦ to navigate ♦ to open requested menu ESC to unselect	

System/Network Setup is where the system on Liebert® iCOM™ 1 side gets configured.

3.2 Service/S800 System/Network Setup, Page 2

Figure 3.2	S800 System/Network Setup, Page 2

SYSTEM / NETWORK SETUP 2/5	٩U	NIT 01►
SSSC PASSWORD(Actual_Level	0)	????
Sava Monitoring Protocol	Velo 100 Velo	ocity V4
SSN2 IF HOORESS SSN2 Network	192,168, 255,255	255 000
SSKE Gateway	0.000	000.000
SSSE MAC	00:00:68:	15:98:01
State U2U Protocol		GBP
SSER UZU Haaress		1
S848 Bootloader Variables	OK	No
S844 Static RAM	OK	No
Attention: any changes done on	these parameter	rs
must be followed by a 'Save+Re	boot' command.	

S836 is the IP address of the Liebert® iCOM™ 1 Board.

NOTE: The IP addresses of all units belonging to the same system must be in the same IP subnet. In most cases (i.e., with an IP subnet mask of 255.255.255.0), this means that the first three digits of the IP address must be equal on all units in the same system, while the last digit must be unique.

3.3 Service/S800 System/Network Setup, Page 3

Figure 3.3 S800 System/Network Setup, Page 3

SYSTEM / NETWORK SETUP 3/5 (iCOM3)	∢iCOM2 01►
SEAR PASSWORD (Actual Level 7)	???? Yeş
S848 Auto IP Configuration S848 Copy Configuration / to Unit	No No No Z ALI
5853 5854	
<u>5855</u> Status	<u> </u>
<pre> for next/previous unit</pre>	t parameter confirm

S846, Enable Communication to V1A: If set to 'Yes', enables communication to V1A. Leave at 'No' for now.

S847, Number of Connected Units defines the number of connected units; in our case seven units (the total number of Vertiv[™] Liebert[®] iCOM[™] 1 plus Vertiv[™] Liebert[®] iCOM[™] 3 units in the system).

S848, IP Auto-Configuration (the same as Figure 3.4 on the next page) operates as follows:

- Yes:
- 1. Assigns IP addresses within the range of the local MT group consecutively according to the local IP address and unit ID.
- 2. Assigns IP address 0.0.0.0 to units outside the range of the local MT group.
- 3. Does not reassign IP addresses when they are different from 0, i.e., they are (presumably) configured already.
 - All of Group:

Same as 'Yes' except for point #3.

• All:

Assigns all 32 IP addresses consecutively according to the local IP address and unit ID.

NOTE: Group Size (= Number of Connected Units) defines the total number of Liebert[®] iCOM[™] 1 plus Liebert[®] iCOM[™] 3 units in the system.

3.4 Service/S800 System/Network Setup, Page 4

Figure 3.4 S800 System/Network Setup, Page 4



IP addresses of the seven units in our example. If the IP addresses are not consecutive, make changes so they match the actual units' IP addresses on site.

NOTE: These settings need to be done only on unit #1. These settings are synchronized (i.e., automatically set in all Liebert[®] iCOM[™] 1 units).

NOTE: Liebert[®] iCOM[™] 3 units need to have their U2U Addresses appended to the Liebert[®] iCOM[™] 1 units; i.e., 1-4 = iCOM[™] 1, 5-7 = iCOM[™] 3. The settings must also be duplicated in the Liebert[®] iCOM[™] 3 HMI (see Setting Up the Network on page 2 and Setting the IP Addresses Belonging to the System on page 3).

3.5 Service/S800 System/Network Setup, Page 3 - Enable Communication to V1A

Figure 3.5 System/Network Setup, Page 3



Set S846, 'Enable Communication to V1A' to 'Yes' and wait for the status to show OK. If the status shows Cfg Error, double check the IP addresses for conflicts.

3.6 Service/S800 System/Network Setup, Page 4 - Check Unit Status





Check the status of each unit. The example is showing the states when all units are configured and connected.

NOTE: The status update can take some time.

3.7 System and Network Overview

Menus on Vertiv[™] Liebert[®] iCOM[™] 1 and Vertiv[™] Liebert[®] iCOM[™] 3 are showing the system values and the status of the units of the system.

Figure 3.7 System Overview Liebert® iCOM[™] 3

\odot				\odot	JNIT 5	11/02/21 15:31
= _	USER SERVICI	E ADVANCED			< Back	k Unit 🔓 Unlocked
SYSTE	M OVERVIEW				U01 Unit On	
System	OnOff Fan 100%		FC 0%	Off On	U02 Unit On	
	Dehum 0%	Return	Humi 07	6 Remote	U04 Unit On	
Temp	18.0 °C	25.8 °C	22.5°C	22.1*C	U05 Unit On	
Humi	20.0 %	35.0 %		50.0% Save	U06 Unit On	

Scroll down for more units.

3.7.1 View Network Vertiv[™] Liebert[®] iCOM[™] 1

Enter menu User/View Network:

```
Figure 3.8 View Network
```

VIEW NETWORK 1/2	≺UNIT 0	j⊳
UNIT 01 UNIT ON UNIT 02 UNIT ON UNIT 03 UNIT ON UNIT 04 UNIT ON UNIT 05 UNIT ON UNIT 06 UNIT ON UNIT 07 STANDBY UNIT 08 OFFLINE	UNIT 09 OFFLINE UNIT 10 OFFLINE UNIT 11 OFFLINE UNIT 12 OFFLINE UNIT 13 OFFLINE UNIT 14 OFFLINE UNIT 15 OFFLINE UNIT 16 OFFLINE	
Press⇔to oth	er pages, this window is READ only	

The status of units 17 - 32 are on View Network 2/2.

3.8 Copy Function

NOTE: These settings are only required on unit #1. These settings are synchronized (i.e., automatically set in all Vertiv[™] Liebert[®] iCOM[™] 1 units).

NOTE: Vertiv[™] Liebert[®] iCOM[™] 3 units need to have their U2U addresses appended to the Liebert[®] iCOM[™] 1 units, i.e., 1-4 = iCOM[™] 1, 5-7 = iCOM[™] 3.

After that, the Liebert® iCOM™ 3 settings need to be updated.

'Copy Configuration' allows copying the IP configuration to Liebert® iCOM™ 3 units.

Prerequisite: All units have their unique IP address, and their status shows 'OK'. Any other setting (like U2U Address, Number of Connected Units, etc.) for iCOM[™] 3 units will be automatically set by the copy process.

Start the copy process by setting 'Copy Configuration' to 'Start'.

With 'to Unit' set to 'All' all iCOM™ 3 units will receive the IP and System configuration.

Watch the 'Status' line for Error Messages.

The copy process will take several minutes - it is completed once the iCOM™ 3 units have rebooted.

• Check the status of each unit, it should show 'OK' after the copy process.

If communication interruptions occur during the copy process, one or all units may return an error status, like 'Err CpyCfg'. In this case:

- Set 'Copy Configuration' to 'Reset'.
- Repeat the process (for just one unit, or for all units (use 'to Unit' to select if all units or just one should repeat the process) by setting 'Copy Configuration' again to 'Start'.

Once complete, it is required to set 'Backwards Compatibility Mode' to 'A9H' in each iCOM™ 3 unit (Figure 1.2 on page 2).

Appendices

Appendix A: Technical Support and Contacts

A.1 Technical Support/Service in the United States

Vertiv Group Corporation

24x7 dispatch of technicians for all products.

1-800-543-2378

Liebert® Thermal Management Products

1-800-543-2778

Liebert[®] Channel Products

1-800-222-5877

Liebert® AC and DC Power Products

1-800-543-2378

A.2 Locations

United States

Vertiv Headquarters

1050 Dearborn Drive

Columbus, OH, 43085, USA

Europe

Via Leonardo Da Vinci 8 Zona Industriale Tognana

35028 Piove Di Sacco (PD) Italy

Asia

7/F, Dah Sing Financial Centre

3108 Gloucester Road

Wanchai, Hong Kong

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