

CORE Quick Start Guide (14)

WaveLinx



SAFETY INSTRUCTIONS – DO NOT DISCARD



IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Class 1 component installation should be performed by a qualified electrician
- Installation shall be in accordance with all applicable local and NEC codes
- Turn the power off at the circuit breaker before wiring electrical components
- Designed for indoor installation and use only
- All new wiring must be fully verified before applying power
- Servicing of equipment should be performed by qualified service personnel



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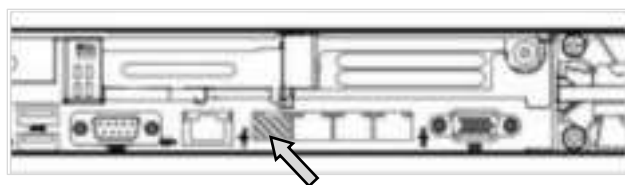
WaveLinx CORE is an on-site Smart Spaces Platform that moves real-time monitoring and processing to the edge of the network. It makes collected data—such as light level, and occupancy status—available to third-party systems through BACnet IP and the Published API.

What You Will Need

- Chrome 87+ or MS Edge 88+ on your computer
- A list of IP addresses for the WaveLinx CORE, WaveLinx Area Controllers (WAC), and/or WaveLinx Wired Ethernet Gateways (EG2)
- Latest WaveLinx CORE and WAC firmware versions

Port Selection for WaveLinx CORE Enterprise

The Ethernet port noted below must be used for WaveLinx CORE Enterprise installations.



WaveLinx CORE IP Address Assignment

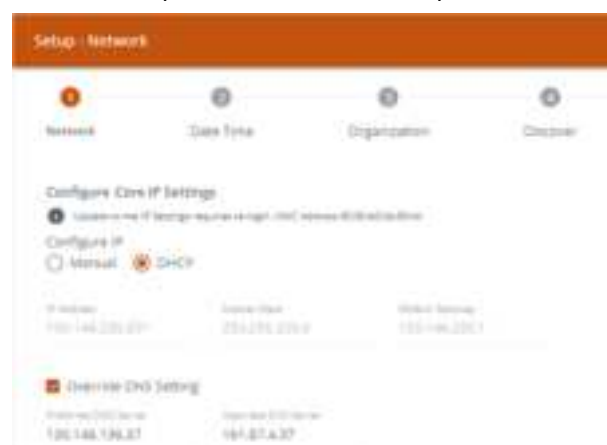
1. Connect WaveLinx CORE

- Power the WaveLinx CORE.
- Connect your laptop to the WaveLinx CORE using an Ethernet cable, directly or via a standalone network switch.

NOTE: The WACs/EG2s must be on the same LAN or subnets connected by the router.

2. Connect to Device Setup

- Set the IP address of your laptop to a value in the 192.168.2.nnn range (e.g., 192.168.2.200) with a subnet mask of 255.255.255.0 and the default gateway blank.
- Use your Web browser to connect to WaveLinx CORE IP address (https://192.168.2.100 by default).
- Log in to the WaveLinx CORE as “Admin” (the default password is “BXLinx!5”). This will trigger a password change and require you to log in to WaveLinx CORE with the new password. The Wizard will be launched, but only the **Network** phase will be used at this point.



- Enter (Manual or DHCP) the **IP Address**, **Subnet Mask**, and **Default Gateway** values from the Site Administrator.

NOTE: Record the WaveLinx CORE IP address for later.

IP ADDRESS: _____

- OPTIONAL:** If you are setting up dual network interfaces with CORE Enterprise, enter the separate **IP Address**, **Subnet Mask**, and **Default Gateway** values for the Corporate Network (typically Network Interface Card 2).

IP ADDRESS: _____

- Click **Next**, then close the Web browser.

WaveLinx CORE LAN Setup

1. Connect WaveLinx CORE to Network

- Disconnect the Ethernet connection from your laptop to the WaveLinx CORE.
- Connect the WaveLinx CORE to the LAN switch using an Ethernet cable.
- Connect your laptop to the LAN.

NOTE: If you are using a static IP address on the LAN, please change your laptop's IP address to one that can access WaveLinx CORE.

1. Connect WaveLinx CORE to Network (continued)

- d) Use your Web browser to connect to WaveLinx CORE at the IP address recorded earlier (*STEP 2d: WaveLinx CORE IP Address Assignment*).
- e) Log in to WaveLinx CORE as “Admin” (using the new password).
- f) When the Wizard starts, click **Next**, then click **New System**, to move on to the **Date Time** phase.

2. Set the Date and Time

- a) Select the **Time Zone** in which WaveLinx CORE will be operating, and then select the desired **Date Format**.
- b) Select **NTP Synchronization**, then enter the NTP Server address.

IMPORTANT: NTP Synchronization must be set up and enabled to obtain reliable data.

- c) Click **Next**, and then confirm the WaveLinx CORE reboot required to apply the **Date Time** changes.
- d) Wait for WaveLinx CORE to reboot, then log in, and then proceed to the **Organization** page.
- e) Enter the Organization name, then optionally set the Working Hours (under Additional Details), and then click **Next** to proceed to the **Discover** phase.

3. Discover Controllers

- a) Click **Automatic**, and then click **Discover Now**.
- b) Verify that all Controllers are discovered. If any are

missing, ping each IP address (or telnet to port 8081) to test its network status.

- c) Once all connected Controllers are discovered, select the checkbox for each Controller you want to connect to WaveLinx CORE (10 at a time on larger sites is recommended).

3. Discover Controllers (continued)

- d) Repeat the Controller selection in Step c) until all Controllers have been imported.
- e) Click **Next** to move to the **Building** phase, and then configure one or more buildings (use **Add Building** when setting up multiple Buildings).

NOTE: Be sure to set the time zone for each Building so that Schedules will function properly.

- f) Click **Next** to move to the **Floor** phase, and then configure one or more floors (use **Add Floor** when setting up multiple Floors).
- g) Click **Next** to move to the **Area Controllers** phase.

4. Set Up Area Controller

- a) Under **Please select a floor**, choose the Building and Floor combination for the first Area Controller.

- b) Repeat Step a) for each Area Controller.
- c) Click **Finish** to apply your configuration, and then log in to WaveLinx CORE when the system is available again.

Change Default Passwords

- a) While logged in to the WaveLinx CORE as “Admin”, click (upper right), then click **Admin**, and then click **Users**.

NOTE: The “Admin” password was changed earlier but if you decide to change it again, do so after the rest are complete to avoid being automatically logged out.

- b) For each default account, click the **Username**, and then click **Change Password** in the User Details sidebar.
- c) Enter and confirm a new, valid password, then optionally select **Password Expires**, and then click **Save**.

Verify Installation and Setup

Confirm that the WaveLinx CORE alarm and event monitoring is working. For example, disconnect one of the WaveLinx Area Controllers and check that an alarm is generated within 10 minutes.

Further Steps

Refer to the *WaveLinx CORE System Configuration Guide* when performing any of the following optional tasks:

- a) Set up BACnet by referring to “Setting Up BACnet”. Use a BACnet explorer, such as CAS BACnet Explorer from <http://chipkin.com> or BACnet Explorer NG from <https://sierramonitor.com>, to discover the WaveLinx CORE and it’s associated BACnet objects.
- b) Set up the WaveLinx CORE Published APIs by referring to “Configuring the Published APIs”.
- c) Set up the demand response interfaces by referring to “Configuring Demand Response”.
- d) Review the applications of the Enterprise Dual Network Interface Card by referring to the following sections:
 - Enterprise Dual Network Interface Card Configuration (located in the Appendix)
 - Setting Up BACnet
 - Setting Up the Email Server

FCC Statement

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

Note: The 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 or more 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.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

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