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## COOPER WaveLinx Area Controller



## Product Specifications

- **Product Name:** WaveLinux CORE
- **Type:** Smart Spaces Platform
- **Connectivity:** Ethernet
- **Interfaces:** BACnet IP, Published API

## Product Usage Instructions

### What You Will Need:

Before starting the setup process, ensure you have the following:

- WaveLinux CORE device
- Laptop
- Ethernet cable
- Standalone network switch (optional)

### Setting Up WaveLinux CORE:

#### 1. WaveLinux CORE IP Address Assignment:

1. Power on WaveLinux CORE and connect your laptop to it using an Ethernet cable.
2. Set your laptop's IP address to 192.168.2.nnn range with subnet mask 255.255.255.0.
3. Access WaveLinux CORE through a web browser using the default IP address (<https://192.168.2.100>).
4. Login as Admin with default password BXLinx!5 and follow the on-screen instructions to set up the IP address.

5. Note down the WaveLinx CORE IP address for future reference.

## **2. WaveLinx CORE LAN Setup:**

1. Disconnect the laptop from WaveLinx CORE and connect WaveLinx CORE to the LAN switch.
2. Access WaveLinx CORE through a web browser using the recorded IP address.
3. Log in as Admin and proceed with the setup wizard to configure Date and Time settings.

## **IMPORTANT SAFEGUARDS**

### **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

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

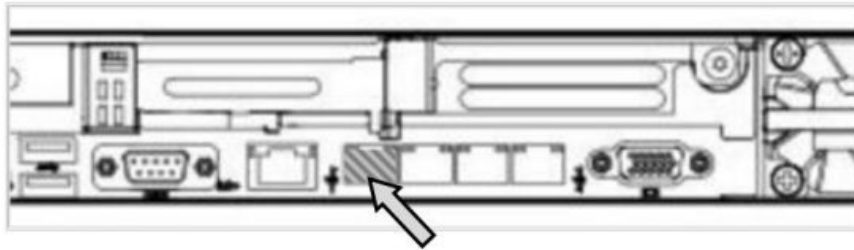
WaveLinx CORE is an on-site Smart Spaces Platform that moves real-time monitoring and processing to the edge of the network. It makes collected data, such as light level and occupancy status, available to third-party systems through BACnet IP and the Published API.

### **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.



## WaveLinux CORE IP Address Assignment

### Connect WaveLinux CORE

- Power the WaveLinux CORE.
- Connect your laptop to the WaveLinux 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.

### 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 the WaveLinux CORE IP address (https://192.168.2.100 by default).
- Log in to the WaveLinux CORE as “Admin” (the default password is “BXLinx!5”). This will trigger a password change and require you to log in to WaveLinux CORE with the new password. The Wizard will be launched, but only the Network phase will be used at this point.

Setup - Network

1 Network 2 Date Time 3 Organization 4 Discover

Configure Core IP Settings

Update to the IP Settings requires re-login. MAC Address 80:30:e0:2e:90:dc

Configure IP

☐ Manual ☒ DHCP

IP Address: 130.146.220.201 Subnet Mask: 255.255.255.0 Default Gateway: 130.146.220.1

☒ Override DNS Setting

Preferred DNS Server: 130.146.136.37 Alternate DNS Server: 161.87.4.37

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

## WaveLinux CORE LAN Setup

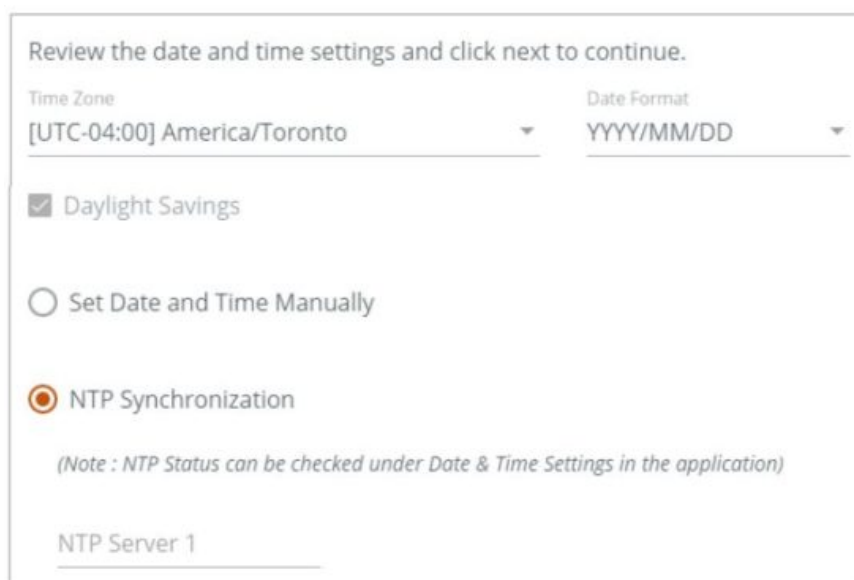
### Connect WaveLinux CORE to the Network

- Disconnect the Ethernet connection from your laptop to the WaveLinux CORE.
  - Connect the WaveLinux 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 WaveLinux CORE.
- Use your Web browser to connect to WaveLinux CORE at the IP address recorded earlier (STEP 2d: WaveLinux CORE IP Address Assignment).
  - Log in to WaveLinux CORE as "Admin" (using the new password).
  - When the Wizard starts, click Next, then click New System, to move on to the Date Time phase.

## Set the Date and Time

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

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



Review the date and time settings and click next to continue.

Time Zone: [UTC-04:00] America/Toronto ▼ Date Format: YYYY/MM/DD ▼

☒ Daylight Savings

☐ Set Date and Time Manually

☒ NTP Synchronization

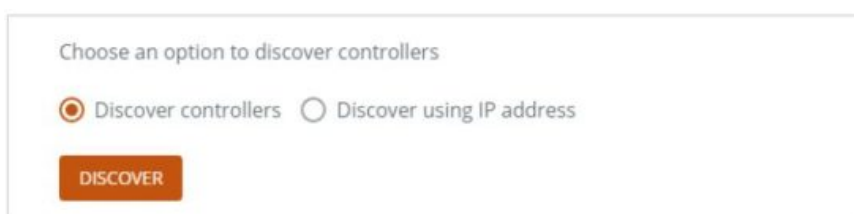
*(Note : NTP Status can be checked under Date & Time Settings in the application)*

NTP Server 1: \_\_\_\_\_

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

## Discover Controllers

- Click Automatic, and then click Discover Now.
- Verify that all Controllers are discovered. If any are missing, ping each IP address (or telnet to port 8081) to test its network status.






Choose an option to discover controllers

☒ Discover controllers ☐ Discover using IP address

**DISCOVER**

- 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).

| <input checked="" type="checkbox"/> | Controller Name   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> |  Alpha-WAC-2 |
| <input checked="" type="checkbox"/> |  WAC-17      |
| <input checked="" type="checkbox"/> |  WAC-51      |

- Repeat the Controller selection in Step c) until all Controllers have been imported.
  - 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.
- Click Next to move to the Floor phase, and then configure one or more floors (use Add Floor when setting up multiple Floors).
  - Click Next to move to the Area Controllers phase.

## Set Up Area Controller

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

Associate area controller to a floor to build the hierarchy and manage controllers and click 'Finish' to complete the setup wizard

|   |                                   |
|---|-----------------------------------|
| Controller Name   | Building and Floor                |
|  Alpha-WAC-2 | Default Building, Default Floor ▾ |

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

## Change Default Passwords

- 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.

- For each default account, click the Username, and then click Change Password in the User Details sidebar.
- 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 are 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:

- 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 its associated BACnet objects.
- Set up the WaveLinx CORE Published APIs by referring to “Configuring the Published APIs”.
- Set up the demand response interfaces by referring to “Configuring Demand Response”.
- 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, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, 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 to 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.

## **Warranties and Limitation of Liability**

Please refer to [www.cooperlighting.com/global/resources/legal](http://www.cooperlighting.com/global/resources/legal) for our terms and conditions.


## **ABOUT COMPANY**

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## FAQs

- **What should I do if I forget the password for WaveLinx CORE?**  
If you forget the password, you can perform a password reset by following the instructions provided in the user manual or contacting customer support.
- **Can I use WaveLinx CORE without connecting it to a LAN?**  
No, WaveLinx CORE requires connection to a LAN for proper functionality and data access.

## Documents / Resources

|   |  |
|---|--|
|  | <div> <a href="#">COOPER WaveLinx Area Controller</a> [pdf] User Guide         </div> <div>           WaveLinx Area Controller, WaveLinx, Area Controller, Controller         </div> |
|---|--|

## References

- [User Manual](#)

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