1. **What is WaveLinx?**
WaveLinx Wireless Connected Lighting (WaveLinx) eliminates the cost and complexity of traditional control systems, and simplifies installation and commissioning while providing a flexible and reconfigurable wireless topology for “on the fly” space changes.

2. **What components do I need to have a complete WaveLinx system?**
- Insight Manager (Pro, Enterprise, Virtual)
- Lighting Xpert Insights Software
- BACnet Integration
- API Integration
- Wireless Area Controller (Gateway)
- WaveLinx Mobile App (Commissioning and user personal control)
- WaveLinx Wallstation (Manual lighting and scene control)
- Wireless Integrated Sensor (Fixture integrated occupancy sensor, ambient light sensor and control)
- WaveLinx Relay Switchpack with 0-10V
- WaveLinx Relays Switchpack with 0-10V 347VAC
- WaveLinx Receptacle 15A and 20A (Wall mounted power outlet)
- WaveLinx Room Based Sensor (Ceiling mounted multi sensor)
- Halo RL 56 (direct wireless downlights)
- WaveLinx Outdoor Load Control Module (area, site, flood lighting control)

3. **Are the sensor Occupancy or Vacancy?**
The WaveLinx sensors can be programmed as either Occupancy or Vacancy. The default setting for the occupancy groups is to default to Automatic ON to 50% (occupancy mode).

4. **Is Occupancy forwarding supported?**
Yes, WaveLinx supports occupancy set forwarding, which allows a sensor or group of sensors to trigger occupancy in another area based on the first area being occupied. This is often used to keep corridor lights ON when offices are occupied after hours.

5. **Can sensors be disabled?**
Yes, Integrated or external sensors can be disabled or have the sensitivity adjusted.

6. **Do you use PIR or Dual Technology?**
Currently WaveLinx supports a dense network of PIR based occupancy sensors either Integrated or ceiling mount. Because of the dense network of sensors, occupancy forwarding and other software features the expense of Dual Technology sensors may not be needed.
7. **Are the wallstations programmable?**
Yes, each button on the WaveLinx wireless wallstation can be programmed with the following actions.
- Scene Selection (default)
- Set Scene Toggle
- Set Zone Toggle
- Set Zone Level
- Set Raise Level
- Set Lower Level
- No Action
Each button is also programmed with the Area it is controlling as well as the Fade Rate.

8. **Can a wallstation control more devices in more than one area?**
Yes, each button can be programmed with an Area and Scene or Zone selection.

9. **Can a wallstation control devices that are connected to a different Wireless Area Controller?**
Current wallstations can control devices that are connected to the same Wireless Area Controller. Systems like WaveLinx that do not require a central server to coordinate communications between area controllers cannot support communications to other wireless networks.

10. **Does WaveLinx support partial off?**
Yes, WaveLinx mobile schedules allow you to create times when the Unoccupied light level may have different values.

11. **How does daylighting work?**
WaveLinx supports both open loop and closed loop daylighting. Closed loop daylighting is supported using integrated sensors providing accurate individual daylight zones for each luminaire. Open loop is supported using the WaveLinx ceiling sensor controlling multiple wireless relays or integrated sensor luminaires.

12. **What is the difference between open loop and closed loop daylighting?**
Open loop daylighting typically uses a single daylight sensor to control multiple groups of fixtures. This is used on many wired and wireless systems today. It uses less daylight sensors but may not be as accurate at setting daylight especially if partition walls or other obstacles are in the space.
Close loop daylighting uses a single daylight sensor per daylight zone and typically controls a single fixture, especially in today's environment of integrated sensors. This provides a daylight zone per fixture which means the light level at the work surface will be uniform, although the light output at the ceiling may vary from fixture to fixture based on how much light each fixture has to put out to maintain the desired light level.
13. **How does WaveLinx support Demand Response?**
The system sending the demand response signal must be connected to the same network as the WaveLinx system. A demand response signal can be sent to the Insight Manager via BACnet for enterprise demand response. Each Wireless Area Controller can be programmed with unique demand reduction values (20% default). The lights are gradually reduced over time until they reach the new target level.

14. **How do I know if an integrated sensor has been commissioned?**
The Instinct Integrated sensors provided LED feedback showing occupancy detection as well as communications and commissioning. The LED on the Instinct integrated sensor will blink Green when detecting Occupancy when it is in Out-of-the-box mode and not paired to a Wireless Area Controller. Once the Instinct integrated sensor has been paired to a Wireless Area Controller the internal LED will blink white when detecting occupancy and to show wireless communications traffic.

15. **What if I lose my login credentials for a Wireless Area Controller?**
A simple pushbutton sequence using the “PAIR” button on the Wireless Area Controller can be used to reset the WAC login credentials as well as the building intranet and Wi-Fi authentication credentials. This sequence does not affect any other programming in the WAC that may have been already completed. Refer to the Wireless Area Controller installation instructions for more information.

16. **How easy is it to replace a device after it has been setup using the WaveLinx Mobile App?**
It is very easy to replace devices that have already been programmed. Step 1: replace the physical hardware. Step 2: Press and release the “PAIR” button on the Wireless Area Controller to pair the new device with the WAC, this also places the new device in the default area in the WaveLinx Mobile App. Step 3: Within the WaveLinx Mobile App find the original device you want to replace, at the bottom of the screen you will see a “Replace” button. Press this button and you will see a list of similar devices that are in the default area. Select the device you just installed, this will place the new device in the area and inherit the programming of the original device.

17. **Can I restore the Wireless Area Controller to factory defaults?**
Yes, A simple pushbutton sequence using the “PAIR” button on the Wireless Area Controller can be used to restore the WAC to factory defaults. This clears all programming and removes all wireless devices from the WAC as well as resets all login credentials. Refer to the Wireless Area Controller installation instructions for more information.

18. **Can you disable daylight dimming?**
Yes, daylighting can be disabled using the WaveLinx mobile app.

19. **Does WaveLinx control outdoor lighting?**
Yes, WaveLinx now supports indoor and outdoor lighting control from a single system. The WaveLinx Outdoor Load Control Module is a 7 pin connector that enables any area, site, or flood fixture with a 7 pin receptacle.
20. **Does WaveLinx support BACnet integration?**
Yes, with the Insight Manager and Lighting Xpert Insight software WaveLinx can now provide BACnet integration across the entire WaveLinx network.

21. **Does WaveLinx support API integration?**
Yes, with the Insight Manager and Lighting Xpert software WaveLinx automatically exposes Area, zone and scene points for API integration.

22. **Is the WaveLinx system enterprise networkable?**
Yes, the Insight Manager can network up to 500 Wireless Area Controllers each supporting up to 200 wireless devices all under a single web based interface.