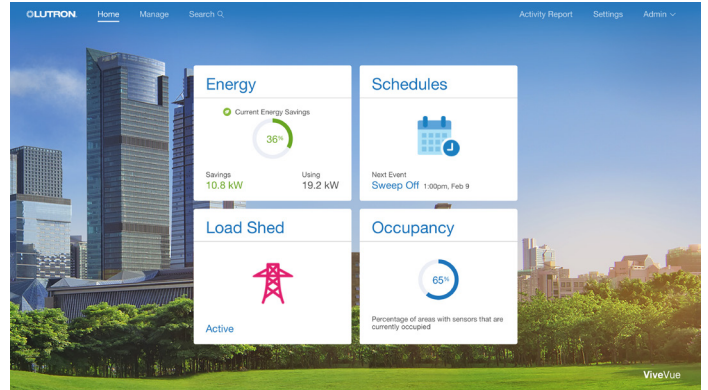


System Overview

The Vive Vue Management Suite is a facility management solution that creates a flexible, productive, and energy-efficient environment for a room, floor, or building. The system brings switching, dimming, wall controls, and smart sensors together under one software umbrella. The Vive Vue Management Suite is ideal for new construction or retrofit applications and can easily scale from a single room to an entire building.



Vive Vue Management Suite Licenses

- Works with Vive System Version 1.7 and above.
 - A software license is required for each Vive hub in the system.
 - Start-up required (remote or on-site) for Vive Vue commissioning only.
- The software license does not include start-up.
- Available licenses:
VIVE-VUE: Lighting Control Dashboard
- Vive Vue is compatible with Lutron Enterprise Vue software that allows the control of multiple buildings with multiple different Lutron control systems from a single software interface. See the Enterprise Vue spec sheet for more details.

Compatible Vive Hubs

The Vive Vue Management Suite is compatible with the following Vive wireless hub models that have software version 1.7 or later:

- HJS-0-FM
- HJS-1-XX
- HJS-2-XX

Job Name: Job Number:	Model Numbers:
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Features

Navigation

- Navigate through areas using graphical floor plans.
- When a floorplan is not available, standard non-graphical navigation is used.
- See **Floorplan Requirements** section on page 4 for more details.

User Access

- Username and password required for user access.
- Users can be created with admin access or non-admin access.
- Supports multiple user accounts with configurable area access and permission levels per user.
- Supports up to 20 concurrent users and up to 10,000 user accounts.
- Supports user authentication against an LDAP server.

Lighting Control

- Supports up to 100 Vive Hubs.
- Monitor current status of areas.
- Rename areas.
- Enable load shedding to respond to demand response events.
- Adjust area lighting levels.
- Access area and device settings to adjust functionality.

Occupancy

- View the occupancy status of areas that contain occupancy sensors.
- Access area and device settings to adjust functionality.

Scheduling

- Create and edit scheduled events.
- Events can be scheduled to occur at fixed times or relative to sunrise/sunset.

Energy Management

- View energy and power usage graphs by system, floor, or area.

System Requirements

- Vive System version 1.7 or later is required.
- Access to the Vive Vue software from multiple devices (e.g., laptops, desktops, tablets) on the network requires a Windows physical or virtual server (Q-Manager). See the following specifications for Q-Manager server requirements (to view online, click on the individual model numbers below):
 - QS-A-CMP-SBO-0: Customer provided server
 - QS-A-CMP-VSBO-0: Customer provided virtual server
- Q-Manager does not require a connection to the Internet in order to use Vive Vue.
- For remote start-up, an Internet connection with secure remote access is required. To more quickly respond to any future service needs, Lutron highly recommends configuring remote access to the Q-Manager server.
- In order to use Vive Vue, Vive hubs should be configured with static IP addresses or with Reserved DHCP addresses.
- For more information on server and network configuration, see www.lutron.com/ViveVueITGuide

Protocols Enabled

- ICMP
- mDNS

Job Name: Job Number:	Model Numbers:
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Browser Requirements for Vive Vue

- Vive Vue can be accessed on most devices running an HTML5 compliant browser.
- Recommended configurations:

Device	Browser
iPad Air, iPad Mini 2+, or iPad Pro	Safari (iOS 10 or 11)
Windows® laptop, desktop, or tablet	Google Chrome® Version 49

Ports Used

Traffic	Port	Type	Connection	Description
Outbound	80	TCP	Ethernet	Used to access the Vive Vue webpage
	443	TCP	Ethernet	Used to access the Vive Vue webpage
	5353	UDP	Ethernet	Used to discover the Vive Hub via mDNS
Inbound	80	TCP	Ethernet	Used to discover the Vive Hub when mDNS is not available
	8081	TCP	Ethernet	Used to communicate with the Vive Vue server
	8083	TCP	Ethernet	Used to communicate with the Vive Vue server
	8444	TCP	Ethernet	Used to communicate with the Vive Vue server
	5353	UDP	Ethernet	Used to discover the Vive Hub via mDNS

Note: For ports used to access the Vive hub, see Lutron specification submittal 369902 at www.lutron.com

Vive Vue Reporting Features

Vive Vue is able to log historical data and add the following capabilities to the Vive system:

- Logging of calculated or measured energy usage for lighting loads (depending on hardware). Check load control specification submittal for further details.
- Energy reports allow the user to gather historical information about the building's energy and power usage.
- Energy reports can show a comparison of cumulative energy used over a period of time for one or more areas in the system.
 - Data is stored in 15 minute intervals for up to 2 years.
 - Data is stored in hourly intervals for up to 10 years (depends on configuration)

Space Utilization Reports for Entire Building or Areas

Vive Vue is able to record and analyze occupancy sensor data and provide reports that allow facility teams to:

- Understand when and how often spaces are occupied.
- Maximize the usage of the existing floorspace by re-purposing unused spaces.
- Make smarter decisions on the types of spaces to add when expanding or re-purposing building real estate.
- Improve the efficiency of building operations (such as cleaning and maintenance) by scheduling activities during times of low occupancy.
- Track the percentage of areas with sensors that are currently occupied.
- View occupancy history using charts and bar graphs.
- Create custom occupancy history reports for selected areas, floors, etc.
- Filter data by working hours or non-working hours
- Define the time range of working hours.
- View space utilization data on the Vive Vue graphical floorplan.

Specifications

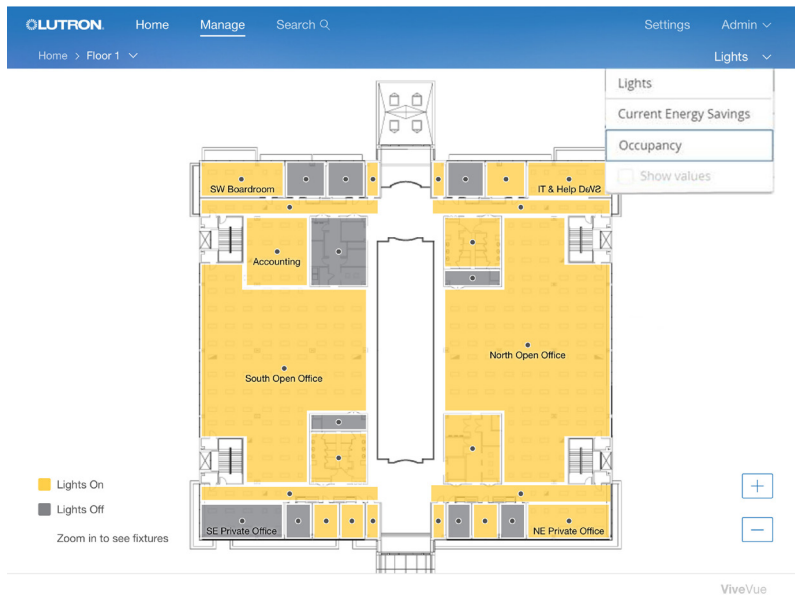
- The resolution of occupancy data is determined by the occupancy sensor timeout. Default occupancy sensor timeout values are:
 - Lutron Radio Powr Savr wireless XCT occupancy sensors – 15 minutes
 - Vive integral fixture sensors – 15 minutes
 - PowPak fixture sensor – 15 minutes

Job Name:	Model Numbers:
Job Number:	

Floor Plan Requirements

- Lutron requires one electronic drawing per floor of the system (provided by the customer) prior to software installation to create the Vive Vue navigation images. All drawings need to be in .dwg, .pdf, or .png format. If the drawings are provided after the date of software installation, additional fees will apply for the additional services needed to add the drawings into the system at a later time. An example of a Vive Vue navigation image is shown in **Figure 1** below.
- Multiple hubs can be associated with a single floor/drawing, but a given hub cannot be assigned across more than one floor/drawing.
- If drawings are not provided, or if drawings do not meet requirements above, a non-graphical list of areas will be used. These can be organized by floor.
- In addition to the drawings, Lutron requires the contact information of the individual who is authorized by the owner to make any decisions regarding the design and functionality of the images shown in Vive Vue.
- The VIVE-VUE license covers the inclusion of floorplan drawings in the state that they are provided to Lutron by the customer. Lutron can provide additional file cleanup services to improve the readability and aesthetics of the drawings (such as removing unwanted electrical wiring details). This service can be ordered using the model number: LSC-FP-EDIT.

Figure 1 - Typical Vive Navigation Image



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<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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