

Vive Hub Integration API

The Vive Hub Integration Application Programming Interface (API) enables integration partners to implement their custom interfaces into a Vive hub using a RESTful protocol to control and monitor their system.

Access to the Vive API protocol documentation requires approval by Lutron. Contact your local Lutron representative or email workswith@lutron.com for more information.

System Requirements

- For Vive hub models HJS-2, HMS-2, and HKS-2 with firmware 1.12 or greater
 - An HJS-UPDATE license may be purchased to add API capability to a -0 or -1 Vive hub.
 - Devices integrating with the Vive hub via API must support encrypted TLS connections. Clear text connections are not supported.
 - For network setup requirements, refer to the Corporate Network section of the Hub Spec Submittals (HJS: P/N 369902, HKS: P/N 3691044, HMS: P/N 3691044-04) on www.lutron.com
 - To use API integration using the "One-time pairing" method with a partner application, the API integration must be explicitly authorized on each hub and the partner application must have a Lutron-provided certificate installed.
 - API integration using the "Login with a username/ password" method doesn't require a Lutron-provided certificate installed in the integrating application.
 - The maximum number of concurrent API connections to a Vive hub is ten (10).
- Note:** "One-time pairing" or "Login with a username/ password" methods are selected while adding integration in Vive hub.

Capabilities

Discover Resources (read-only)

- Rooms / Areas
 - Area names
- Zones and Zone Type Groups*
 - Zone name
 - Control type (dimnable lights, switched lights, CCOs, and receptacles)
- Device
 - Device name, model number, serial number
 - Type (example–Maestro dimmer)
 - Pico buttons

* A Zone Type Group is a collection of all zones of one control type in one area.

** Requires Vive hub software 01.13 or higher.

Monitor Status (read and subscribe)

- Rooms / Area Status
 - Space is occupied / unoccupied
 - Lighting level (the highest level amongst the area's lighting zones)
 - Instantaneous power and max power
- Zone and Zone Type Group* Status
 - Light intensity (0–100%)
 - Switch lighting state (On / Off)
 - CCO state (Open / Closed)
 - Receptacle status (On / Off)
- Device Alerts
 - Low battery
 - Missing devices
 - Programming not received by the devices
- Sensor-level occupancy state
- Virtual Button (Scenes) list**
- System load shed status
- Emergency status**

Control Lights and Devices (write)

- Zone and Zone Type Group Control
 - Level, raise, lower and stop
 - Fade time (dimmed loads only)
 - Delay time
- Press, hold and release Pico buttons
- Activate or deactivate Load Shed
- Activate Scenes (Virtual Button)**
- Activate or deactivate Emergency**

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Job Name: Job Number:	Model Numbers:
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