

# Hospitality Infrastructure Perspectives

Enabling improved traveler experiences



We build what's next to light, power, and connect everyday spaces.

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The hotel industry is continuously evolving to meet the changing demands of guest experience. Hospitality building managers are prioritizing the challenges of brand standards, integration, sustainability, connectivity, and compliance objectives.



Brand Standards



Integration



Sustainability



Connectivity



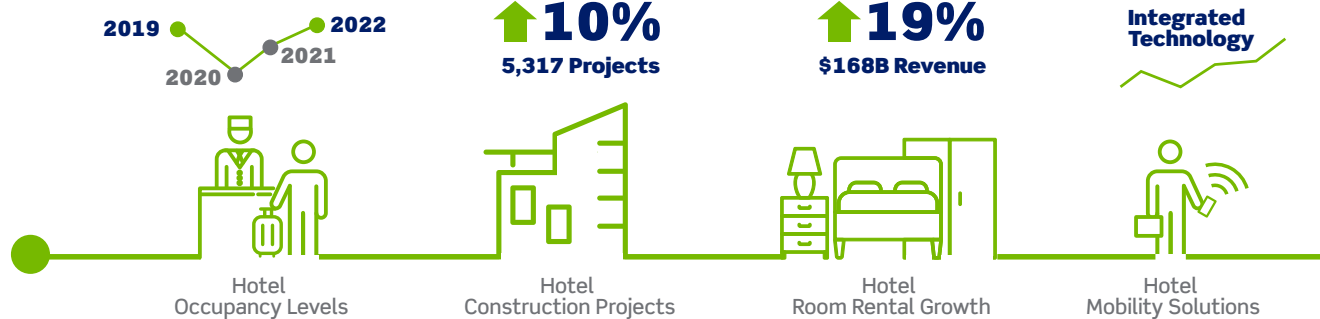
Compliance

Adopting the latest controls, lighting, electrical, and network solutions can help alleviate the above changing demands as well as enable the goals of hotel facility, IT, and engineering stakeholders.



## Brand Standards

As travel frequency continues to rise, the hospitality and lodging industry is under pressure to ensure it meets new perspectives and desired experiences that travelers now demand. Due to this pressure, hotel brands are improving standards, while designing an experience that incorporates the current expected level of care and excellence based on the latest consumer demands. Hotel organizations are maintaining best-in-class brand standards **that leverage the latest technology and consistent infrastructure.**



## Integration

Technology plays an increasingly large role in how the industry designs properties that cater to customers' needs and preferences, according to the AHLA State of the Industry report. Customers are looking for smart mobile and self-service solutions, with a focus on personalization and far-reaching control over their technology. As the global market for smart hospitality expands, the interoperability of building systems is expected to be one of the fast-growing areas that hospitality companies will continue to invest in. **Adopting utility based LAN architecture can enable more seamless integration of hospitality technology.**



## Sustainability

Environmental responsibility is another top-of-mind priority. Accenture's Responsible Travel report states that 83% of global travelers think that sustainable travel is vital, indicating an increased interest in sustainability and ensuring that personal values are in line with the goods and services they purchase, including their travel. The hotel industry is constantly seeking ways to reduce the impact of lighting, energy, and IT utilization to satisfy travelers expectations and their own organizations sustainability goals. **Hotels are specifically selecting contractors and manufacturers that represent solutions to improve building management efficiencies.**



## Connectivity

Connectivity within hotel rooms, lobbies, and amenity rooms is transforming from a nice-to-have, to a need-to-have for family and business travelers. Ensuring a consistent and a reliable connection means having strong networks and operating systems to manage buildings. Hotel management teams are also shifting away from in-house tools and beginning to rely on external property management systems to control operations and avoid issues with compatibility and compliance. **As a result of the shift from on-premise to cloud-based systems, there is an increased emphasis on redefining hotel controls lighting, electrical, and network connectivity.**



## Compliance

While hospitality managers and leaders guide their teams through the new trends, upgrades, and projects outlined above, code compliance should be a priority. Staying compliant is not just a responsible standard to meet, it can also inherently advance hotels in terms of safety, smart technology, and sustainability. Developers pay close attention to code updates because it helps to ensure that hotels are already taking steps to optimize energy management and using the latest and safest technology, as most codes already address those areas. **Best-in-class hotels lean on supply chain partners to stay informed with infrastructure code changes and revisions.**

### Information Sources





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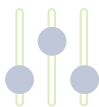
While the hospitality industry navigates the challenges outlined previously, they must find solutions that match the issues they face. Controls, Lighting, Electrical, and Network Infrastructure all have varying abilities to satisfy at least one of the hospitality challenges related to brand standards, integration, sustainability, connectivity, and compliance, as reflected in the below chart.

## Enabling Hospitality Goals with Controls, Lighting, Electrical, and Network Infrastructure.

Solution	Brand Standards	Integration	Sustainability	Connectivity	Compliance
 Controls	●	●	●	●	●
 Lighting	●	●	●	●	●
 Electrical	●	●	●	●	●
 Network	●	●	●	●	●

● Very Relevant   ● Relevant   ● Less Relevant

### Hotel Control Solutions



Leviton Control Solutions bring innovative design and features to hospitality applications, through specific products like distributed, daylighting, wireless controls, dimmers, occupancy/vacancy sensors, relay panels, and timer switches. These controls products provide precise, dependable control while offering the potential for significant energy savings.

### Hotel Electrical Solutions



Leviton Electrical Solutions offer safe and reliable management of electrical loads through various electrical wiring devices that are designed to withstand the rigors and code requirements of various environments.

### Hotel Lighting Solutions











Leviton Lighting Solutions bring a variety of options to illuminate the variety of spaces in hospitality locations. Leviton offers spec-ready and code compliant lighting for every space in a hospitality application.

### Hotel Network Solutions



Leviton Network Solutions supports hospitality networks around the globe with a selection of high performance network infrastructure products and systems. End-to-end performance ensures users are connected, engaged, and empowered while traveling, whether they're in the lobby, in their room, or working from the cloud.

## Controls, Lighting, Electrical and Network Application Benefits

Hospitality Space	Lighting & Controls	Electrical	Network
 EXTERIORS	Enhances parking areas, walkways, and entry points ensuring guest safety. Creates anticipation for an unforgettable stay with curbside appeal that promotes branding.	Opportunity for guest electrical vehicle charging, pedestal based and temporary power for outdoor equipment, food trucks, and events.	Enables cloud-based contactless entry systems that support guest room digital key access and IP video surveillance applications.
 LOBBIES	Creates a great first impression by receiving guests with an inviting atmosphere. Elevates guest experience with a comfortable and convenient transition space.	Ensures guest access to device charging with wall, floor and furniture mounted solutions. Fast, powerful charging of laptops, tablets and phones with optimized, adapter free USB ports.	Delivers high performance connectivity to support guest Wi-Fi, digital signage, entertainment systems, notification, and guest check-in applications.
 DINING AREAS/BARS	Fosters a unique dining experience balancing food and beverage presentation and kitchen functionality to deliver a memorable stay.	Offers protection of audio visual and electrical equipment from electrical surges. Controls, dimmers, and relay panels enable customized lighting and partitioning of areas.	Provision of seamless connectivity and online access to ensure guest retention at hotel dining facilities. Also supports digital signage, entertainment, and POS systems.
 RESTROOMS	Elevates functionality and aesthetics. Enhances visibility and promotes cleanliness.	Ensures guest safety with electrical devices required in restrooms. Occupancy, vacancy, and humidity sensors for automated on/off control, coupled with decorative and antimicrobial face plates.	Extension of network connectivity to support sensor-based automation of washroom consumables, digital signage, and in-room audio applications.
 ELEVATOR AREAS	Enables an appropriate level of illumination for safe egress. Emergency back-up lighting ensures guest safety during power outage. Ambient lighting provides seamless transition from floor to floor.	Reduced energy from unoccupied elevator lobbies with sensors that turn the lights to partial-ON and partial-OFF based on occupancy for safety.	Consider a uLAN design philosophy to support destination dispatch elevators, public safety DAS, guest kiosks, and network-based notifications for preventative maintenance.
 GUEST ROOMS	Presents a comfortable, calm, and stress-free environment. Enhances guest comfort and convenience with scene lighting, while considering operating and maintenance costs.	Delivers availability of appropriate power to support personal devices, USB, and hotel appliance (iron, dryer) charging. Antimicrobial treated switches and receptacles promote cleanliness.	Network reliability performance for continuous uptime of Wi-Fi, IPTV and IP telephony services, room level automation, and PoE door access control systems.
 EVENT SPACES	Establishes a dynamic, flexible, and customizable space unique to each event. Enhances aesthetics and highlights high traffic areas and event focal points.	Generates sufficient electrical capacity, and temporary power to support large scale trade shows, and live events that meet code compliance requirements.	Provisions adequate conference room connectivity to support web-based and in-person meetings. Sufficient network capacity to cater for peak traffic demand and in-suite voice and video for events.
 OFFICES	Enhances attentiveness, productivity, and motivation. Creates a comfortable work atmosphere. Provides low-glare illumination around workstations.	Availability of adequate power to support office equipment, appliances and work devices while considering the ability to control, sense, schedule and optimize the environment for productivity.	Enables fixed and remote desk-based network availability for both permanent and visiting staff that support back of house requirements and administration functions.
 OPERATIONAL	Supporting task-based lighting for high-traffic operational spaces such as meal preparation, laundry, and maintenance.	Increased focus on personal safety and efficiency in operational environments. Provision of surge-protected power for equipment exposed to moisture, abuse, and high-traffic conditions.	Network enablement of safety and security applications including cameras and access control. Sensor based monitoring applications and ULAN architecture to support various operational technologies.
 PARKING	Enhances safety and security for guests and employees while meeting energy code requirements.	Supports the need for electrification and provides guests safe and reliable EV charging solutions.	Offering seamless Wi-Fi, DAS, and IP safety and security devices including security cameras, access control, and emergency call stations.



# Hospitality Infrastructure Perspectives

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Enhance guest experiences for an unforgettable stay

- Promotes welcoming and safe environments
- Builds brand loyalty and repeat business
- Balances guest experience and space functionality/efficiency
- Creates a conducive space for guests to do business

## SMART HOSPITALITY LIGHTING & CONTROL SOLUTIONS

The following visualization suggests typical products and solutions that may be found relevant to each space.



LC4 Fire-Rated Downlights



Keycard Switch



LRTH



Sensors



CTL Eclipse Curve Series



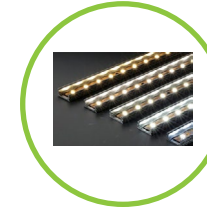
Sapphire Touch Screen



LVSA



Fixture Mount Sensors



24V Tunable White LED Tapelight



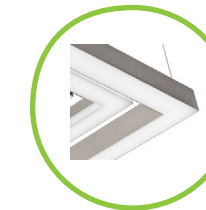
Intellect Enabled ClearForm



Intellect Keypads



IRC



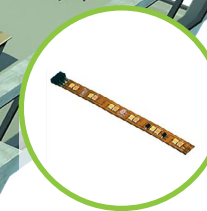
Erika Architectural Pendants



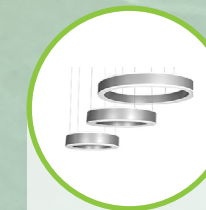
Gravity Cylinders



Room Combine



15W LED Graphic Light



Katrina Architectural Rings



GreenMAX DRC Room Control System



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# SMART HOSPITALITY ELECTRICAL & NETWORK SOLUTIONS

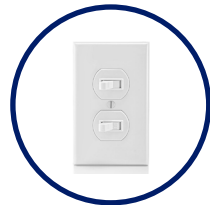
The following visualization suggests typical products and solutions that may be found relevant to each space.



Antimicrobial Switches & Wallplates



Poke Through Floorboxes



Commercial Grade Switches



Surge Protection



USB Receptacles



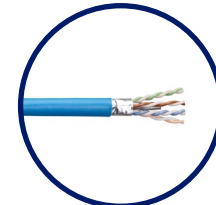
IEC Pin & Sleeve Devices



EVSE - light commercial EV Series



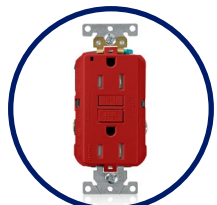
EVSE - Chargepoint DC Charging



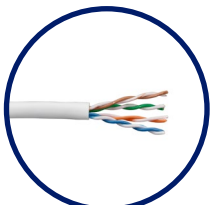
Category 6A Connectivity to Support WiFi



Category 6A Connectivity to Support 4k IPTV



Tamper Resistant Receptacles



Category 6 Connectivity to Support Access Control



Ceiling Consolidation Point



GFCI Receptacles



Concrete Floorboxes



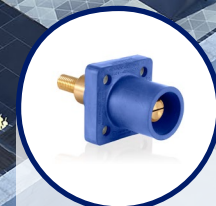
Levlok Modular Wiring Devices



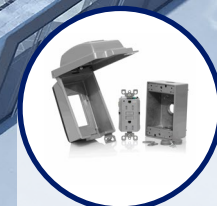
Category 6 Connectivity to Support Digital Signage



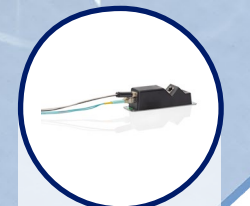
Category 6 Connectivity to Support Guest Check-in



Temporary Power



Weatherproof Covers



One Reach PoE Extension System for Security Cameras



VXC Assembly for WiFi to Enable Digital Key Applications



# The DNA of Successful Deployment and Remediation

Leverage partners to meet organizational objectives, on-time and under budget

● Hospitality Stakeholders ● Leviton

## CONSTRUCTION PHASES

## REMEDATION PHASES

### PHASE 1

#### Facility Needs Assessment

Discuss what is needed to best optimize and maintain the physical condition and value of facility, develop capital budgets, and prioritize resources.

● Define use cases that meet organizational objectives.

### PHASE 2

#### Pre-Construction and Design Phase

Review, revise, and expand schematic plans and elevations to incorporate all the details and specifications required for construction.

● Operationalize requirements through programmatic and design development.

### PHASE 3

#### Procurement Phase

Plan and acquire goods and services needed for construction, while considering timeline, quality of project, and budget.

● Establish engineering efforts that leverage maximum acquired value of equipment, material, and construction services.

### PHASE 4

#### Construction Phase

Architect, engineers, and project manager to perform quality control inspections, respond to Requests for Information (RFIs) and review and approve technical submittals.

● Realize benefits of planning that results in effective implementation, quality assurance, approvals, tracking of deviations, and guaranteed delivery of contractor requirements.

### Solve Organizational Challenges



Brand Standards



Integration



Sustainability



Connectivity



Code Compliance

### PHASE 5

#### Facility Operation

Following the conclusion of a project, continuously track and monitor efficiency of day-to-day operations to ensure needs are being met.

● Maximize facility uptime and minimize operational costs.

### PHASE 6

#### Repairs and Maintenance

Continuously address and minimize need for repairs through preventative maintenance and strategic planning; use a thorough approach to repairs when needed, keeping a long-term building perspective in mind.

● Reduce capital expenditure related to maintenance and repair.

### PHASE 7

#### Annual Needs Assessment

On a yearly basis, ensure teams are routinely communicating and monitoring for potential facility needs and repair priorities.

● Cyclical assessment and revision of organization goals and objectives.



Leviton Partner

Catalyst

● Understand objectives to advise possibilities and practical considerations.

● Advocate design and specifications with practical solutions to meet use case goals.

● Ensure integrity of design and construction intent are met during procurement with solutions that exceed requirements.

● Generate engineering submittals and solutions for vertically integrated supply chain.

● Ensure upgrade path and product life cycle outpaces emerging demands.

● Solutions that achieve predictive maintenance and operational efficiency goals, with life cycles that outlast their design intent.

● Act as a trusted advisor of compliance with new codes, standards and emerging technologies in order to enhance infrastructure to proactively address evolving operational requirements.

Successful partnerships with solution experts meshed with relevant project life cycle roadmaps can ensure successful remediation and deployment that further translate into positive organizational growth and operations.



CONTROLS



LIGHTING



ELECTRICAL



NETWORK



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