

HOTEL & HOSPITALITY SOLUTIONS

IT, SECURITY, TELECOM & AUDIO VIDEO SOLUTIONS

















OFFICES & SHOW ROOM SOLUTIONS

- CCTV- HOTEL SURVEILLANCE
- BIOMETRIC ATTENDANCE SOLUTIONS
- · HOTEL ACCESS CONTROL SOLUTIONS
- HOTEL SMART LOCK SOLUTIONS
- · HOTEL SMART PARKING SOLUTIONS
- SMART OFFICE SOLUTIONS
- EPABX & INTERCOM SOLUTIONS
- PUBLIC ADDRESSING SOLUTIONS
- · INTRUDER ALARM SOLUTIONS
- WIRED & WIRELESS NETWORKING SOLUTIONS
- HOTEL STRUCTURED CABLING SOLUTIONS
- COMPUTERS, LAPTOPS, SERVERS & PRINTERS
- VIDEO CONFERENCING SOLUTIONS
- · COMMERCIAL DISPLAY SOLUTIONS
- ERP SOLUTIONS
- POINT OF SALES SOLUTIONS
- UPS & INVERTORS

CCTV- OFFICE SURVEILLANCE

Implementing CCTV (Closed-Circuit Television) in a hospitality environment, such as hotels or resorts, is crucial for enhancing security, ensuring guest safety, and managing operational efficiency.



IP / AHD CAMERA



WIFI CAMERA



BATTERY CAMERA



PTZ CAMERA



3G / 4G CAMERA



ANPR CAMERA



DUAL LENSE CAMERA



VANDAL PROOF CAMERA



VERI FOCAL CAMERA



TANDEM VIEW



SMART DUAL LIGHT CAMERA



ALARM ENABLED
CAMERA



FACE RECOGNITION CAMERA



PEOPLE COUNT CAMERA



PANORAMIC VIEW CAMERA



VMS SOFTWARE

CONSIDERATIONS

- Cover lobbies, corridors, parking lots, elevators, restaurants, and public spaces.
- Consider cameras with low-light capabilities for areas with minimal lighting
- Choose IP cameras for easy integration with the hotel's network, high resolution and high accuracy
- Use the AI features such as facial recognition, people counting, and object tracking and also Set up alerts.
- Implement access controls to ensure only authorized personnel can view live or recorded footage.
- Implement redundancy in critical components to ensure continuous operation.
- Design the system to be scalable, allowing for easy expansion or upgrades as the hotel grows or security needs change.
- Enable Corridor Mode in camera to monitor Corridors

CCTV SOLUTIONS

- Live & Recorded View
- Remote Monitoring & Recording Solutions
- Audio Recording
- Color Vision During the Night
- Low Light Performance
- Two way Talking
- Alerts & Notifications
- Facial Recognition & Face Detection
- Line Crossing & Perimeter Protection
- People Counting
- POS Integration
- N+1 Hot Spare connection
- Storage, Power & Network Redundancies
- Access Control Integration
- ANPR Solution
- Storage Server
- Cerntralized Monitoring Solutions

















BIO-METRIC ATTENDANCE SOLUTION

Biometric attendance solutions are widely used in Hospitality Industry for efficient and secure employee time and attendance tracking. This involves choosing the right system that meets the organization's needs for accuracy, efficiency, and convenience.







BIOMETRIC / FINGER PRINT



RFID CARDS



DESKTOP SOLUTION



WEB BASED SOLUTION



MOBILE ATTENDANCE



CLOUD BASED SOLUTIONS



DOOR ACCESS
CONTROL



WIFI BASED SYSTEMS



CUSTOM REPORTS



SCHEDULING & NOTIFICATIONS



EMPLOYEE
SELFLOGIN PORTAL

CONSIDERATIONS

- Consider biometric options such as fingerprint, facial recognition, or iris scanning for enhanced security and accuracy.
- Ensure seamless integration with HR, payroll, and timekeeping software.
- Choose a device with a user-friendly interface to minimize training requirements for staff.
- Ensure the system can handle future expansions and additional devices.
- Evaluate the connectivity options of the attendance device, such as Wi-Fi, Ethernet, or Bluetooth.
- Implement security features to protect attendance data and prevent unauthorized access.
- Implement strong user authentication mechanisms to prevent unauthorized access to attendance data.
- Clearly define attendance devices for staff and guests to address privacy concerns.

- Employee Attendance
- Shift Management
- Leave & Permission Management
- Holiday Management
- Face Recognition
- Guest Management
- Canteen Management
- Alerts & Notifications
- Employee Management
- Automatic Scheduling of Reports
- Customization of Reports
- Multiple Organization Reports
- Mobile Punching
- Geo Fencing
- Door Access Control
- Report Customization
- Employee Self Management Portal











HOTEL ACCESS CONTROL SOLUTIONS

Access control in the hospitality industry is crucial for ensuring the safety and security of guests, staff, and property. It involves managing and monitoring access to different areas within the hotel, implementing security measures to prevent unauthorized entry, and providing a secure environment.



RECOGNITION



FINGER PRINT



RFID CARDS



QR CODE READER



EM LOCK



ACCESS CONTROL ACCESS CONTROL





GLASS DOOR ACCESS CONTROL



HOTEL DOOR LOCKS



FLAP BARRIER



SWING BARRIER



VISITOR MAN AGEMENT



CANTEEN **MANAGEMENT**

CONSIDERATIONS

- Guest Room Access Implement a secure and efficient mechanism for key card issuance and management.
- Lobby and Common Areas Use access control systems to restrict access to certain floors or sections of the hotel
- Employee Access Levels Define different access levels for hotel staff based on their roles and responsibilities
- Visitor Management Implement a visitor management system to track and control access for guests and visitors also issue temporary access cards for the visits
- Mobile Access- Explore mobile access solutions that allow guests to use their smartphones for room access.
- Emergency Exits -Ensure that emergency exits are clearly marked and easily accessible during emergencies
- Surveillance Integration -Integrate access control systems with surveillance cameras for comprehensive monitoring.

- Single Door Access Control
- Multi Door Access Control System
- Hotel Door Locks
- Glass Door Access Control
- Wooden Door Access Control System
- Cloud-Based Access Control
- Flap/ Swing Barriers integration
- Remote Opening
- Mobile-Based Authentication
- Access Control Software
- Alerts & Notifications
- Mobile App
- Centralized Management









HOTEL SMATRT LOCK SOLUTIONS

Smart lock solutions can significantly improve the guest experience, streamline hotel operations, and enhance security. By considering these features and best practices, hotels can choose and implement smart lock systems that align with their specific needs and contribute to a modern and secure hospitality environment.



HOTEL DOOR LOCKS

CONSIDERATIONS

- Mobile Key Integration:- allowing guests to use their smartphones as digital keys.
- RFID and NFC Technology- Implement smart locks with RFID or NFC technology for keyless entry using contactless keycards.
- Integration with Property Management System Ensure seamless integration with the hotel's Property Management System for automated guest key provisioning and deactivation.
- Remote Access Control Allow staff to remotely control and monitor door access, enabling quick response to guest requests or issues.
- Customizable Access Permissions- Provide customizable access permissions for different staff members and guest categories.
- Emergency Override- Include emergency override mechanisms, such as physical key options or master keys, for situations where electronic access is compromised.

- Key Card Access
- Mobile Key Access
- Centralized Key Management System
- Hotel Door Locks
- Property Management System Integration
- Audit Trail and Monitoring
- Real-time monitoring of door activity
- Customizable access levels for staff and gues
- Time-based access permissions for guests and staff
- Anti-tamper sensor









HOTEL PARKING MANAGEMENT SOLUTIONS

Parking management in hospitality, especially with the use of boom barriers and bollards, can enhance security, control access, and optimize traffic flow. Integrating boom barriers and bollards into parking management enhances security, control, optimize traffic flow and efficiency in hospitality settings. A well-managed parking system, including boom barriers, contributes to a positive guest experience by minimizing wait times and ensuring smooth entry and exit.







ANPR CAMERA



LONG RANGE READERS



QR CODE READER



LOOP DETECTOR



CONTROLLER



RFID CARDS



BIO-METRIC



FACE RECOGNITION



VISITOR MANAGEMENT



BOLLARDS

CONSIDERATIONS

- Parking management systems allows for centralized control and coordination of various components within the parking infrastructure.
- Automatic entry for Guest and Staffs
- Connect boom barriers with access control systems to regulate vehicle entry and exit.
- Integrate with the hotel's key card system for seamless access for authorized vehicles.
- Use ANPR or Long range reader technology with boom barriers for automated vehicle identification.
- Ensure the flow of traffic, preventing congestion and ensuring a smooth experience for both guests and staff.
- Ensure the parking management system is integrated with the hotel's emergency response system.

- Boom Barriers
- Boom Barrier Integration with ANPR camera
- Boom Barrier Integration with RFID Readers
- Boom Barrier Integration with Access Control
- Boom Barrier Integration with Biometric,
 RFID , Face Recognition Readers
- Boom Barrier Integration with Loop Detectors
- Integration with Ticketing System
- Integration with Visitor Management
- Centralized Management Software
- Mobile App
- Bollards Installation
- Customization of Bollard









SMART HOTEL AUTOMATION

Smart hotel automation solutions leverage technology to enhance the guest experience, streamline operations, and improve overall efficiency. Implementation should align with the hotel's brand, enhance operational efficiency, and provide tangible benefits to both guests and hotel staff.



SMART LIGHTING SOLUTIONS



SMART HVAC SOLUTIONS



OCCUPANCY SENSORS



SMART MEETING ROOM
SOLUTIONS



VOICE ACTIVATED ASSISTANCE



SMART PLUGS



SMART CURTAIN



SMART SHUTTER



ENERGY MANAGEMENT SOLUTIONS



CENTRALIZED MANAGEMENT



SCHEDULING & CONTROLING

CONSIDERATIONS

- Smart Thermostats Allow guests to control room temperature using a mobile app or in-room touchscreen.
- Automated Lighting: Sensors and smart lighting systems adjust lighting based on guest preferences & occupancy
- Automated Curtains/Blinds Smart curtains can be controlled remotely for convenience and energy efficiency.
- Voice-Activated Assistants- Use Amazon Alexa or Google
 Assistant to enable guests to control room features using voice commands.
- Occupancy Sensors Optimize energy consumption by automatically adjusting lighting, temperature, and other room settings based on guest presence

- Smart Lighting Solution
- Energy Saving Solutions
- Temperature Control Solutions
- Smart Plugs & Energy Monitoring Solution
- Smart Switches
- Security Alarm Integration
- Scheduling & Controlling
- Centralized Management
- Voice Assistance
- Room Occupancy







EPABX SYSTEM

EPABX (Electronic Private Automatic Branch Exchange) systems play a crucial role in the hospitality industry by facilitating efficient communication within hotels. These systems provide internal and external communication services, connecting various departments, rooms, and external contacts. Implementing a robust EPABX system in the hospitality sector contributes to effective internal communication, enhances guest services, and supports overall operational efficiency.







HYBRID PBX



IP-PBX



SERVER BASED-PBX



VOIP - FXO- FXS GATEWAYS



GSM- FXS - FCT GATEWAYS



VOIP - T1 / E1-PRI GATEWAYS



SIP IP PHONE



DIGITAL KEYPHONE



ANALOG PHONE



SOFT PHONE

CONSIDERATIONS

- **Scalability-** Ensure the system is scalable to accommodate the current and future communication needs of the hotel.
- Multi Department Connectivity- The EPABX should support multi-departmental connectivity to facilitate smooth communication between different hotel departments.
- **Guest Room Extensions-** Ensure the system supports features like room service requests, wake-up calls, and direct dialing to enhance the guest experience.
- **Voice Mail-** Consider EPABX systems that offer voice mail functionality for guests and staff.
- An automated attendant- Guide callers to the appropriate department, improving overall call handling efficiency.
- Emergency calling-Priority lines, quick dialing services, and broadcast capabilities can be crucial during emergencies.

- EPABX Solutions
- Intercom Solutions
- IP PBX Solutions
- VoIP Solutions
- Analog and IP Phones
- Desktop & Cordless Phones
- Call Forwarding and Conferencing
- Unified Communication
- Hybrid Communication
- Centralized Management













PUBLIC ADDRESSING SYSTEM

Public addressing systems play a vital role in the hospitality industry by providing a means of communication to guests, staff, and visitors in various areas of the establishment. These systems contribute to the overall guest experience, safety, and operational efficiency. Implementing an effective public addressing system in the hospitality sector requires careful planning and consideration of the unique needs of the establishment. A well-designed system contributes to guest satisfaction, safety, and the overall atmosphere of the hotel.















GOOSE NECK MIC

WIRELESS MIC

LAPEL MIC

BOUNDARY MIC CIELING SPEAKER

BOX SPEAKERS PENDANT SPEAKERS















SUB WOOFERS

POWER AMPLIFIER

MIXER AMPLIFIER

PRE - AMPLIFIER

MIXER

VOLUME CONTROLLERS

CABLING SOLUTIONS

CONSIDERATIONS

- Zoning and Area Coverage- Divide the hotel premises into zones based on functional areas (lobby, restaurant, pool area, etc.) to provide clear communication where needed.
- Emergency Notification- Integrate the public addressing system with emergency notification systems.
- Background Music- Consider integrating the public addressing system with background music capabilities.
- Intercom and Two-Way Communication- Use intercom features for staff communication or guest inquiries.
- Automated Scheduling and Announcements- Use prerecorded messages or automated scripts for routine announcements at specific times
- Volume Control Provide volume control for different zones to adjust the audio level as needed.

- Traditional Wired PA System:
- IP Based PA System
- Portable PA System
- Gest Room Solutions
- Voice Evacuation System
- Public Address & Background Music System
- Meeting Room & Training Room Solution
- Scheduling & Controlling
- Emergency Notifications
- Centralized Management
- Scheduled notifications













INTRUDER ALARM

Implementing a well-designed intruder alarm system, tailored to the specific needs of the hotel, is essential for enhancing security and providing peace of mind for guests and staff.



SHUTTER SENSOR



MOTION SENSOR



VIBRATION SENSOR



IR BEAM DETECTOR



PANIC SWITCH



THERMAL DETECTOR



HOOTER



GSM DIALER



KEY PAD



SMOKE DETECTORS



CONTROL PANEL



REMOTE KEY

CONSIDERATIONS

- Detects unauthorized access or intrusion
- Deterrence and Prevention
- Access Control Integration
- Detects Fire and Smoke
- Environmental Monitoring
- 24/7 Monitoring
- Integration with Surveillance Cameras
- Mannual Alerting in Emergencies
- Integration with Building Management Systems
- Notification and Communication
- Remote Monitoring and Controls
- Compliance with Regulations
- Insurance Premium Reduction
- Schedule & Control
- Server Room Protection

- Wired Alarm System
- Wireless Alarm System
- Door and Window Sensors
- Motion Detectors
- Glass Break Detectors
- Shock Sensors
- Perimeter Protection
- Panic Buttons
- Access Control Integration
- Audible Alarms and Sirens
- Central Monitoring Station









WIRED AND WIRELESS NETWORKING

Implementing a robust and reliable network infrastructure is crucial in the hospitality industry to meet the connectivity needs of guests, staff, and operational systems. In many hospitality settings, a hybrid approach that combines both wired and wireless technologies is often deployed to provide a comprehensive and flexible networking infrastructure. Wired connections may be prioritized in certain areas where reliability and high bandwidth are critical, while wireless networks offer convenience and mobility in public spaces and guest rooms.







ACCESS POINT



NETWORK SWITCH



LOAD BALANCER



FIRE WALL

CONSIDERATIONS

- High-Speed Internet Access- Provide high-speed internet access to meet the demands of guests for streaming, online activities, and business-related tasks.
- Guest Room Connectivity- Ensure reliable and highperformance Wi-Fi in guest rooms to cater to the connectivity needs of guests using smartphones, laptops, and other devices. Implement sufficient wireless coverage to eliminate dead zones.
- **Public Spaces Wi-Fi-** Extend Wi-Fi coverage to public areas such as lobbies, restaurants, and outdoor spaces to enhance guest experience. Consider access points to maintain connectivity while guests move around the premises.
- Redundancy and Reliability- Implement redundancy measures, such as failover configurations and backup internet connections, to ensure continuous network availability.
- Network Security- Implement robust network security
 measures, including firewalls, intrusion detection systems, and
 encryption protocols. Use Virtual LANs (VLANs) to segment
 guest and administrative networks.
- Authentication and Access Control- Utilize a captive portal for guest authentication, enabling customized login pages and terms of use.

- Wired Networking
- Wireless Networking
- Managed Or Unmanaged Network
- Virtual LAN Network
- Network Switches
- Router
- Fire Wall
- Load Balancer
- Access Points
- Captive Portal
- Network Redundancy
- Network Security
- Power Over Ethernet

















STRUCTURED CABLING FOR HOTELS

Implementing a robust and reliable network infrastructure is crucial in the hospitality industry to meet the connectivity needs of guests, staff, and operational systems. In many hospitality settings, a hybrid approach that combines both wired and wireless technologies is often deployed to provide a comprehensive and flexible networking infrastructure. Wired connections may be prioritized in certain areas where reliability and high bandwidth are critical, while wireless networks offer convenience and mobility in public spaces and guest rooms.



COPPER CABLES





NETWORK RACKS



JACK PANELS



CABLE MANAGERS



FIBER LIU



PATCHCORDS



FIBER CABLES

FACE PLATE & I/O MODULE



CABLING, DRESSING & LABELING



CONDUITS & TRAYS



FUKE & OTTR TESTING



CONDUITS & TRAYS

CONSIDERATIONS

- Comprehensive Planning-Conduct a thorough assessment of the hotel's current and future communication needs. Plan for the integration of voice, data, video, and other systems.
- Scalability- Design a structured cabling system that is scalable and can accommodate future expansion.
- Flexibility and Adaptability- Ensure that the cabling infrastructure can support emerging applications and services.
- Separation of Networks -Segregate voice and data networks to ensure optimal performance.
- Cable Pathways- plan and install cable pathways carefully to minimize cable stress and ensure a neat and organized appearance.
- **Redundancy and Reliability** Build redundancy into critical pathways to ensure network reliability. point of failure.
- Labeling and Documentation -Clearly label cables, patch panels, and endpoints to simplify troubleshooting and maintenance.

- 1G, 10G, 25G 40 G Networks
- Fiber Optic Cabling
- Coaxial Cabling
- Shielded Twisted Pair Cabling
- Unshielded Twisted Pair Cabling
- Power over Ethernet (PoE) Cabling
- Structured Cabling for Data Centers
- Horizontal and Vertical Cabling
- Structured Cabling Standards
- Labeling and Documentation
- Server Room
- Cable Management
- Fluke Testing
- OTTR Testing













COMPUTER, PRINTER, SERVER & STORAGE

Structured cabling refers to a standardized and organized approach to designing and installing a cabling system that supports various hardware uses and provides a comprehensive telecommunications infrastructure. The primary goal of structured cabling is to create a flexible and scalable network that can accommodate a variety of devices and technologies while minimizing disruptions and simplifying maintenance.













DESKTOP/LAPTOP

PRINTERS

SERVER

STORAGE

ANTIVIRUS

OPERATING SYSTEM

CONSIDERATION

- Employee Workstations
- Document Printing
- Scanning and Copying
- Local Storage
- Network Attached Storage (NAS)
- File Servers
- Email Servers
- Application Servers
- Database Servers

- Desktop
- Laptops
- Workstations
- Thin Clients
- NUC
- Inkjet Printers
- Laser Printers
- Multifunction Printers (MFPs)
- ID Card & Thermal Printers
- Tower Servers
- Rack Servers
- Blade Servers
- Storage Servers
- RAM
- Hard disc
- Network Attached Storages















VIDEO CONFERENCING

Video conferencing solutions facilitate virtual meetings and collaboration, allowing individuals or teams to connect in real-time, regardless of their physical locations. Various video conferencing platforms offer a range of features to enhance communication, collaboration, and productivity.



considerations

- Reduces Travelling Cost And Saving the Time
- Participants to Connect From Different Locations
- Enables Face-to-face interaction
- Allows observing facial expressions & body language of Participants.
- Allows real-time sharing of information and updates.
- Employees can connect regularly without the need of physical presence
- Participants can join meetings from anywhere with an internet connection
- Real Time document Sharing
- Organizations Can conduct training programs & workshops
- Enables the sharing of educational materials & presentations

- Huddle Room Conferencing Solution
- Small to Medium-Sized Meeting Room Solution
- Boardroom/Conference Meeting Room solution
- Web Based Meeting Solutions
- Online Training Solutions
- Wireless Presentation Systems
- Customized and Integrated Solutions















COMMERCIAL DISPLAY SOLUTIONS

In the hospitality industry, commercial display solutions play a crucial role in enhancing guest experience, communication, and brand presentation. A well-designed and strategically placed display system can contribute significantly to the overall ambiance and functionality of a hospitality establishment.







INDOOR / OUTDOOR
VIDEO WALL



INTERACTIVE PANEL



MENU BOARD



DIGITAL STANDEE/ KIOSK

CONSIDERATIONS

- **Lobby Displays:** Use digital signage in lobbies for welcoming messages, event information, and promotional content.
- Menu Boards: Restaurants and bars can utilize digital menu boards for dynamic and visually appealing presentations of food and beverage offerings.
- In-Room Televisions: Provide smart TVs in guest rooms with interactive features, streaming capabilities, and access to hotel services.
- Video Walls- Create visually stunning displays in large public areas using video walls for advertising, branding, or event promotions.
- Check-in Kiosks- Implement touchscreen kiosks for self-service check-ins, reducing wait times at the front desk.
- Information Kiosks- Place interactive kiosks in common areas to provide guests with information about hotel amenities, local attractions, and events.
- Centralized Content Management- Utilize a centralized content management system to control and update content across multiple displays.

- Outdoor / Indoor Video Wall Solution
- Commercial TV
- Interactive panels
- Video Player
- Remote content playing
- Kiosks & Standees
- Hotel menu board solutions
- Centralized Content Management













ERP SOLUTIONS

Enterprise Resource Planning (ERP) solutions are comprehensive software systems that integrate and automate various business processes across an organization. These systems facilitate the flow of information and help businesses streamline operations, enhance efficiency, and make informed decisions. Here are key aspects and functionalities of ERP solutions:



CONSIDERATIONS

- Automates repetitive tasks, reducing manual effort and errors.
- Offers up-to-date insights into business operations and performance.
- Visualizes key metrics and trends for informed decisionmaking.
- Connects different departments and encourages collaboration.
- Facilitates the sharing of information across the organization.
- Minimizes errors in data entry and processing, leading to cost savings.
- Provides the data and insights needed for strategic planning
- Helps organizations adhere to industry regulations and standards.
- Maintains an audit trail for compliance reporting.
- Facilitates a holistic view of customer interactions and history.
- Implements role-based access controls to protect sensitive data.
- Secures data transmission and storage

- Financial Management
- Supply Chain Management
- Human Resources Management
- Customer Relationship Management (CRM)
- Manufacturing Management
- Project Management
- Asset Management
- Business Intelligence and Reporting
- Compliance and Risk Management
- Mobile Accessibility
- Cloud-Based ERP

POINT OF SALES SYSTEM

The Point of Sale (POS) refers to the location where a transaction occurs between a buyer and a seller. It is often associated with the physical or digital space where a customer makes a payment for goods or services. he Point of Sale (POS) refers to the location where a transaction occurs between a buyer and a seller. It is often associated with the physical or digital space where a customer makes a payment for goods or services









MOBILE POS

ALL IN ONE POS

CANTEEN MANAGEMENT

POS SOFTWARES

CONSIDERATIONS

- Payment Processing & Centralized Data Management
- Inventory Management:
- Ensures reliable and fast internet connectivity
- Stock Tracking & Product availability
- Sales Reporting and Analytics
- Integration with Other Systems
- Print or Digital Receipts
- Invoice Generation
- individual user accounts for employees
- Allows customers to create accounts for personalized services.
- Payment Security

- Retail POS Systems
- Restaurant POS Systems
- Hospitality POS Systems
- Mobile POS Systems
- Self-Service Kiosk POS Systems
- Grocery Store POS Systems



CALICUT

BARAMCO BUILDING, 2ND FLOOR CHINTHAVALAPPU, CALICUT - 4

MALAPPURAM

POOKKAYIL TOWER, PARAPPUR ROAD KOTTAKKAL, MALAPPURAM

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