RADiUS®

# COMPANY PROFILE

2024-2025

https://www.radiusinfotech.com

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# About Us.

The **Radius Group** comprises multiple companies collaborating to provide exceptional services across different operational regions including security and surveillance, access control, parking automation, and home automation, among others.

Established in **1994** and headquartered in **New Delhi, India**, our company brings over **30 years** of expertise in the field of technology and innovation. We are proud to be certified with **ISO 9001**, **ISO 27001**, **ISO 20243**, and **CMMI Level-3**, demonstrating our commitment to quality, security, and continuous improvement.

The main goal of the founders of the group was established as to build a business that would act in the market not for the commercial success but for the purpose of enhancing the living standard of people around the workplace, commercial facilities, and residential societies. The cutting-edge solutions offered by the group of companies are aimed at making a contribution to the forward-looking transformation to the society.

## Group Companies

- Radius Infotech (P) Ltd.
- Radius Infotech Services (P) Ltd.
- Radius Marketing (P) Ltd.
- Radius Synergies International (P) Ltd.
- Xenius Energy Solutions (P) Ltd.

# Radius Infotech Pvt. Ltd.

**Radius Infotech** commenced its operation across pan India since its establishment in the year **2007**. As an authorized distribution and service partner for renowned global brands like **MAGNETIC**, **HID BOSCH**, **HIKVISION**, **NOVUS**, and **PENTAMINDS** we offer cutting-edge solutions tailored to meet the diverse needs of our clients. With a strong PAN India presence, we are dedicated to delivering exceptional products and services across the country.

Radius Infotech has established a solid reputation for excellence in providing end-to-end technology solutions to our clients. Our focus is on designing, implementing, and supporting systems that optimize business processes, improve productivity, and drive growth.

## A PASSION FOR PROBLEM-SOLVING

Radius respond with newly emerged technologies and competitive products to the business opportunities of today's age and concentrate to fulfill the requirements of all our clients by providing them the appropriate and exclusive solution.

## OUR VISION & MISSION

We incorporate highly qualified team of technocrats and experts, who help provide our clients with unmatched solution for enhancing network infrastructure monitoring, security & surveillance, and visitor management, parking management, and access control.

# Our Products & Services

We specialize in rendering comprehensive services to fulfill the diverse demands of our clients. Our end-to-end services cater to the requirement of various industries, residential and commercial buildings, and businesses of all sizes. Our expertise covers a wide range of areas including building automation, network infrastructure, security, and surveillance to name a few.

**Some of our best rendered services include:**

## A. Off-the-shelf products:

## a. Security and Surveillance System

As security is the major concern in today's time, we offer you the complete multilevel security solution that includes

- **CCTV System** through which one can keep a watch on each part of their premises.


- **NVR/DVR:** We work on IP Camera, Speed Dome and C-mount Camera, bullet camera systems, hi-resolution camera systems integrated with different NVR based systems to provide recording for possibly many years, with a variety of quality and performance options and extra features.

- **AI based Video Management Software:** The robust framework of AI-Enabled Video Analytics excels at detecting suspicious behavior and identifying differences in patterns, intrinsic objects, or actions in real-time. It generates timely alerts, enabling operators to take preventive action swiftly and avert unfortunate occurrences.

# Entrance Automation Systems

- **Boom Barrier**: Boom Barrier offers robust security solutions with its compact design and sturdy construction. It is a bar, or pole pivoted in such a way as to allow the boom to block vehicular access through a controlled point. Boom gates are typically found at level crossing, parking facilities, checkpoints and entrances to restricted areas.

- **Tripod Turnstile**: Tripod turnstile gate is a common access control turnstile with 3 rotating arms that stop or release by rotating 120° each time. The 3-arm turnstile can be combined with a smart card, fingerprint, bar code, and other identification system equipment to form an intelligent access control system.

- **Swing/ Flap Barriers:** Swing and Flap Barriers are designed using DC Motors and highly reliable sensors to make it safe and secure. One of the main benefits of using swing and flap barriers is the ability to control access to certain areas. These barriers are a type of access control system that is commonly used in various settings, such as airports, train stations, office buildings, stadiums and many more places.

# Bollards & Tyre killers

**Bollards** in vehicle entrance systems are used to control access, protect pedestrians, and enhance security. They come in various types, including fixed, removable, and retractable bollards, each serving specific needs. Retractable bollards are particularly useful for allowing controlled entry while blocking unauthorized vehicles. These barriers are commonly found at building entrances, parking areas, and high-security zones to ensure safe and efficient traffic management.

**Tyre killers,** or **spike strips**, are devices used in vehicle entrance systems to prevent unauthorized vehicle access by damaging tyres if a vehicle attempts to enter in the wrong direction. They are typically installed at entry points, especially in secure areas or high-security facilities. When a vehicle drives over the spikes, the tyres are punctured, rendering the vehicle immobile. These systems are effective in controlling access and deterring unauthorized vehicles from bypassing security checkpoints.

# Access Control System

Unlike regular **access control systems** that use access cards and/or codes, a biometric access control system uses a person's physical traits such as their fingerprints, face, and iris. These traits cannot be copied, thus improving the accuracy of identification and authentication.

## FACE RECOGNITION


## FINGER

## FACE WITH FINGER


## IRIS BASED

# Frisking/ Scanning System

Frisking is a cutting-edge security solution designed to streamline the check-in process and enhance safety at exam centers. Whereas scanning system, uses advanced algorithms digital signal processing minimizes false alarms.X-ray baggage scanners are advanced security devices used to inspect the contents of luggage, bags, and packages at airports, government buildings, transportation hubs, and high-security facilities.

The **Hand-held metal detector** is designed for efficient security operations, alerting personnel to detected metal objects with ease. Built for comfort, it minimizes user fatigue during prolonged use, while its lightweight, sturdy frame ensures easy portability. Powered by rechargeable batteries, the device eliminates the hassle of wires and provides flexibility in operation.

This advanced **door frame metal detector** features multiple detection zones, ensuring thorough coverage and high accuracy in identifying metal objects, including small items and weapons. It alerts security personnel immediately upon detection, providing real-time feedback. Engineered to withstand harsh environments, making it a dependable tool for security operations in demanding settings.

**X-ray baggage scanners** are advanced security devices used to inspect the contents of luggage, bags, and packages at airports, government buildings, transportation hubs, and high-security facilities. These scanners use X-ray technology to generate images of the items inside the bags, allowing security personnel to identify any potential threats or prohibited items.

# Networking in Layer 2 and 3 Managed Switches

Managed switches are sophisticated networking devices that provide advanced control and configuration options, typically found in enterprise or large-scale networks. These switches operate at different layers of the OSI model, with Layer 2 and Layer 3 switches offering distinct functionalities. Here's a breakdown of networking in Layer 2 and Layer 3 managed switches:

## LAYER-2

Layer 2 switches operate primarily at the Data Link Layer (Layer 2) of the OSI model. They use MAC (Media Access Control) addresses to forward frames between devices within the same network. Key features of Layer 2 managed switches include:

- MAC Address Table
- VLANs (Virtual LANs)
- Spanning Tree Protocol (STP)
- Link Aggregation (LACP)
- Port Security

## LAYER-3

Layer 3 switches operate at the Network Layer (Layer 3) of the OSI model and are often referred to as "multilayer" switches. These switches can perform traditional Layer 2 functions but also have the ability to make forwarding decisions based on IP addresses. Key features of Layer 3 managed switches include:

- Routing Capabilities
- Inter-VLAN Routing
- Access Control Lists (ACLs)
- Redundancy Protocols
- IP Routing Performance

# Storage Devices

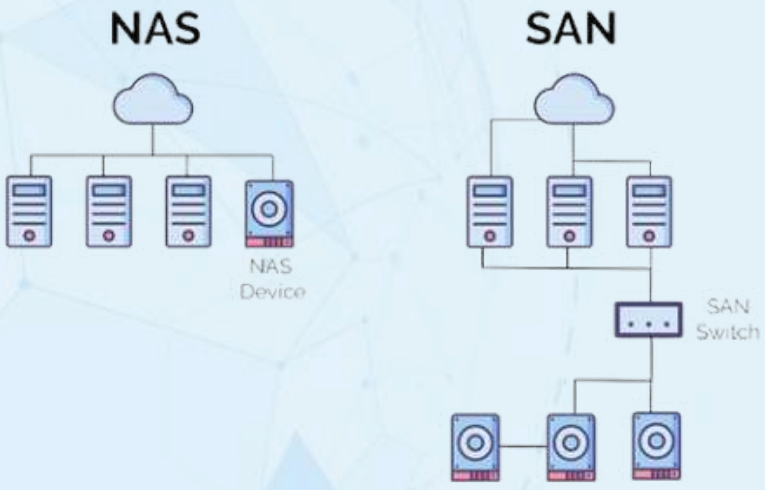
## Workstations

workstation or personal computer, which is primarily used by an individual user, a server is built to serve the needs of multiple users or clients simultaneously. Servers are commonly used in various industries and organizations, including businesses, government agencies, educational institutions, and web hosting companies.

## Servers

A server is a powerful computer system that is designed to provide services and resources to other computers, known as clients, over a network. It acts as a central hub for data storage, processing, and communication within a networked environment. Servers are typically designed to be highly reliable, scalable, and efficient to handle a large number of client requests simultaneously.

## NAS/ SAN Storage Devices



# Fire Alarm & Detection System

A **fire alarm and detection system** is essential for safeguarding lives and property from the threat of fire. It uses a combination of smoke, heat, and flame detectors to identify early signs of fire. When a threat is detected, the system activates alarms—such as sirens or strobe lights—to alert occupants and initiate an evacuation. Our advanced system can also integrate with fire suppression systems, control ventilation, and notify emergency responders. Regular maintenance and testing are crucial to ensuring reliability. In an emergency, a well-functioning fire alarm system helps minimize damage, prevent injury, and enable a swift, organized response.

# Public Address System

## Analog Based

An analog-based public address (PA) system amplifies sound through traditional analog circuitry, delivering clear audio for announcements and emergency alerts. It typically includes microphones, amplifiers, and speakers, offering a reliable and cost-effective solution for public communication in various settings.

## IP Based

An IP-based public address (PA) system uses network protocols to transmit audio over an IP network, allowing for flexible, scalable communication across multiple locations. It enables centralized control, integration with other networked systems, and real-time announcements via IP-enabled speakers and devices.
4o mini

# Telecommunication System

Telecommunication systems are networks that enable the transmission of voice, data, and video over long distances using various technologies such as wired, wireless, and satellite communication. They include components like telephone lines, fiber-optic cables, radio towers, and mobile networks, facilitating communication between individuals and businesses globally. These systems support voice calls, internet services, video conferencing, and more, playing a vital role in both personal and professional interactions. Our modern telecommunication systems also integrate advanced technologies like 5G, VoIP, and IoT to improve connectivity and efficiency. Overall, they are the backbone of global communication, enabling seamless exchange of information.

# Digital/ SIP PBX System

## Digital

Digital systems, such as VoIP (Voice over IP), use internet connections to transmit voice data, improving clarity and flexibility compared to traditional analog systems. SIP-based solutions allow for easy integration with mobile devices, cloud services, and other communication tools. This modern setup enhances scalability, reliability, and cost-effectiveness for businesses of all sizes.

## SIP PBX

Telecommunication systems using digital technology and SIP (Session Initiation Protocol) PBX (Private Branch Exchange) systems offer enhanced voice communication by leveraging digital signal processing and internet protocols. SIP PBX systems enable businesses to make voice calls over the internet, reducing costs and providing advanced features like voicemail, call forwarding, and conferencing.


# IOT Solutions

A comprehensive **parking management** and **guidance solution** maximizes parking efficiency by providing real-time information on available spots, reducing congestion and enhancing the overall user experience. Integration of a **visitor management system,** it streamlines guest registration and access, improving security and convenience. **Touchless elevator solutions** offer enhanced hygiene and seamless operation, allowing users to interact without physical contact. For residential societies, advanced **visitor** and **vehicle entrance management systems** control access to ensure secure and efficient entry for residents and their guests. Additionally, a **Network Management System (NMS)** ensures the smooth operation of all these systems, enabling centralized monitoring and maintenance. Together, these technologies create a smart, secure, and efficient environment for both commercial and residential spaces.

## Cutomised Solutions:

- Parking Management System (CUROPark) using UHF RFID, ANPR, Card and QR based system
- Parking Guidance System
- Visitor Management System (CuroVMS & CuroZapp)
- Touchless Elevator Solution (CuroElevate)
- Society Visitor and Vehicle Entrance Management (CuroNext)
- Network Monitoring System (NMS)

# CUROPark

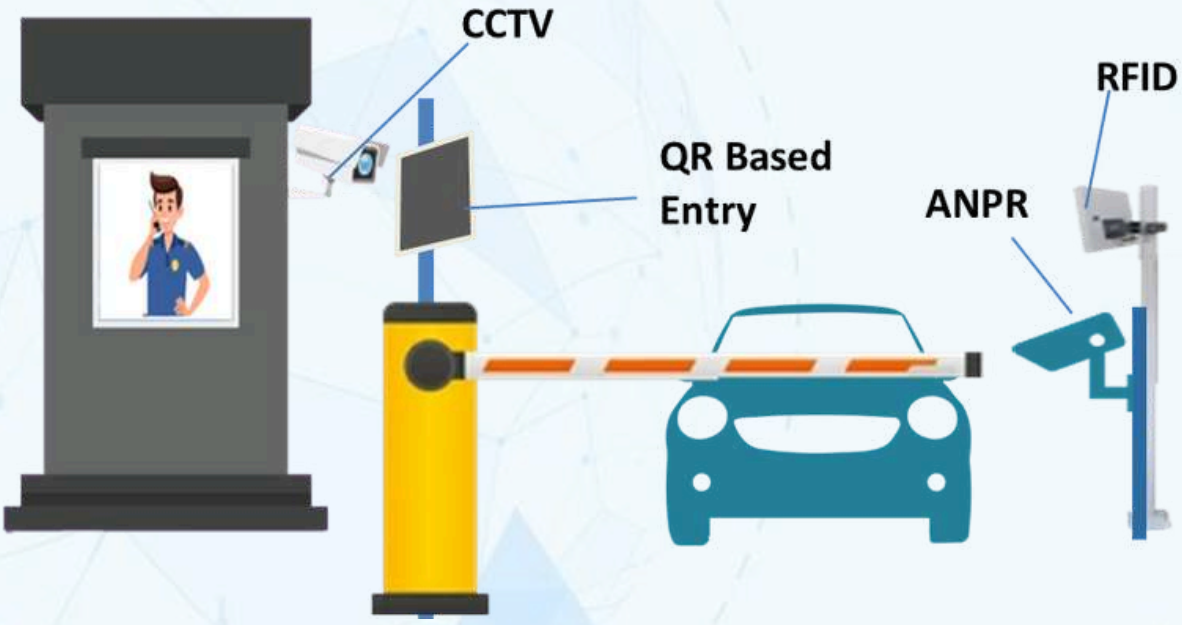
## A New- Age Parking Management Solution

CuroPark is an automated parking management solution designed to streamline the parking methodologies of multi-tenant commercial buildings, residential buildings, retail buildings, residential buildings, retail segments such as malls and port areas. It helps optimize the use of parking space and reduces chaotic car parking issues.


## Features

- Automation for cabs/vendor/guests
- First come first serve
- Parking reservations
- Block and blacklist vehicle
- Real-time parking availability
- Exit as per security settings by users

## Parking Management System using ANPR, RFID, QR Based



# Parking Guidance System (PGS)

The **Parking Guidance System** allows users to park in vacant slots while also checking and receiving notifications about adjacent available spaces. The integrated app provides directional navigation to help users easily find their parked vehicle using third-party indoor navigation. Additionally, real-time parking availability can be checked, ensuring a smoother and more efficient parking experience.

## Why PGS?

- Real-Time Space Detection
- Directional Signage
- Ultrasonic Sensor-Based Space Detection
- Camera-Based Vehicle Detection and Monitoring
- Dynamic Traffic Flow Management
- Parking Space Utilization Analytics


# Touchless Elevator Solution (CuroElevate)

Unlike conventional push-button systems, touch-free elevator solutions significantly reduce the risk of accidental virus transmission, making them a safer option for all users. Touch-free solutions offer passengers peace of mind, reducing their worry about touching shared surfaces, especially in public or high-traffic areas. With growing awareness of hygiene and safety, adopting touchless technology in elevators is becoming an essential step toward a more secure and convenient user experience.

## Why Curo Elevate?

- Reliable and efficient
- Reduces both wait times and energy costs.
- Need to accept new touchless way of life.
- Curo Elevate can be integrated with any lift type and OEM.
- Mobile App is available for both Apple iOS and Android.

# Curo VMS (Visitor Management System)

CuroVMS is an intelligent visitor management system that helps automate visitor registration, check-in/check-out and automate visitor gates/turnstile using QR reader. Solution helps in modernizing front desk, easily manage visitors, fast and secure access of visitors. Solution also helps in managing and analyzing visitors' visits using real-time dashboard and reporting.

## Features list

- Pre-appoint visitors
- Touchless Kiosk
- Digital E-Pass
- Cloud based system
- QR-Check-in/Out
- Smart Reporting


# Curo ACS (Access Control System)

CuroACS Solution helps in modernizing the traditional access control system into APP & Cloud based digital access control system using QR code and readers, that automate check-in/check-out via gates/turnstile using QR reader.


## Features list

- Admins can add/modify/delete users for smooth check-in/out.
- Scan QR to get access over gate/turnstile
- QR integrated Digital ACS on mobile for easy operation.
- Secure and cloud-based technology for easy and remote operation.

# Curo Zapp (Integration of ACS & VMS)

The integration of **Curo VMS (Visitor Management System)** and **Curo ACS (Access Control System)** through **Curo Zapp** creates a seamless, efficient solution for managing both visitor access and building security. Curo Zapp allows for real-time synchronization between visitor check-ins and access control, ensuring that only authorized individuals can enter specific areas of a building.


This integration streamlines operations by automating access permissions based on visitor status and enhances security by providing a centralized platform for monitoring both visitor movements and access events. With Curo Zapp, businesses can ensure a smoother, more secure experience for both visitors and staff, improving operational efficiency and reducing security risks.

# Society, Visitor & Vehicle Management System (Curo Next)

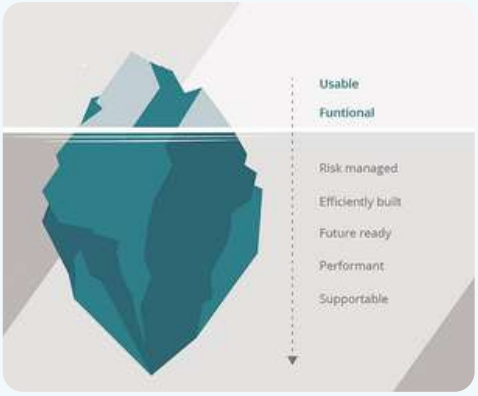
The CuroNext Society, Visitor, and Vehicle Management System offers an integrated solution to manage access for residents, visitors, and vehicles in residential communities. It streamlines visitor check-ins through pre-registration, allowing for quick access via QR codes or RFID cards, enhancing security and efficiency. The system uses automated number plate recognition (ANPR) for seamless vehicle entry and real-time tracking of parking spaces. Residents and security personnel receive instant alerts and updates, ensuring a smooth flow of people and vehicles. CuroNext improves safety, reduces congestion, and provides a hassle-free experience for all users.


# Network Monitoring System

Network Monitoring System (NMS) is an advanced system designed to monitor and manage network infrastructure. It allows network administrators to monitor the performance, health, and security of network devices and systems in real-time.

## Ice Berg Principal

The **Iceberg Principle** in network monitoring emphasizes that visible issues in a network, such as slow speeds or outages, represent only a small fraction of potential underlying problems. Most network inefficiencies, security threats, or performance bottlenecks lie hidden beneath the surface, undetected without deep analysis. Our robust network monitoring system not only address surface-level issues but also provide insights into deeper, less visible concerns.




## Network security assessment and monitoring

**Network security assessment and monitoring** involve evaluating a network's vulnerabilities, threats, and potential risks to ensure its integrity and protection. Regular assessments help identify weaknesses in security protocols, hardware, and software, while continuous monitoring detects suspicious activity and potential breaches in real-time. This proactive approach of ours allows for timely responses to emerging threats and ensures that security measures are up to date.

# Proactive system health monitoring

Proactive system health monitoring in a **Network Monitoring System (NMS)** involves continuously tracking key network metrics to identify potential issues before they cause disruptions. By monitoring device performance, traffic, and system resources, the NMS can trigger alerts for early intervention. This approach helps maintain network reliability, minimize downtime, and ensure optimal performance.


# Detection of Unauthorized or Misbehaving System Components


Detection and alert of unauthorized or misbehaving system components involves real-time monitoring to identify any unusual behavior, unauthorized access, or malfunctioning devices that could pose a security threat or disrupt network operations. Once detected, the system generates immediate alerts, enabling IT teams to investigate and take corrective actions swiftly. This proactive approach helps prevent security breaches, data loss, and ensures the smooth functioning of network infrastructure.

# System uptime record and analysis to achieve SLA

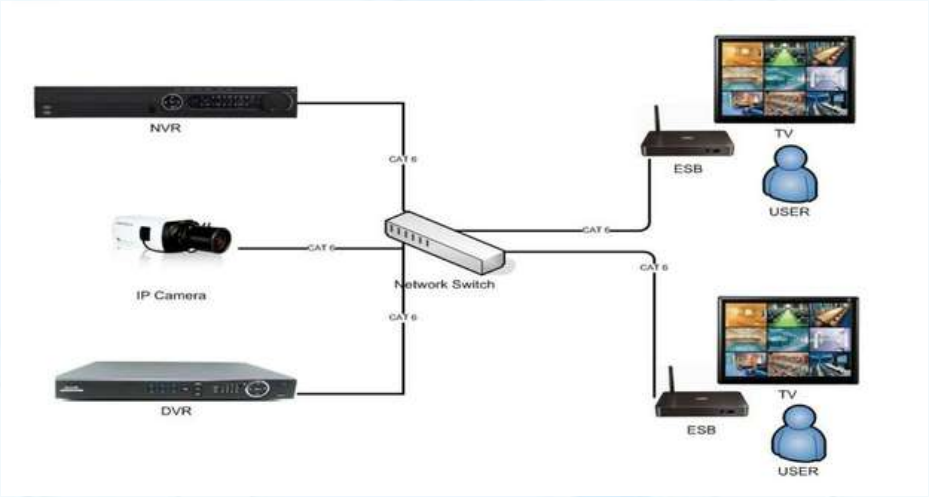
System uptime record and analysis in an NMS are vital for tracking network availability and ensuring SLA compliance. By monitoring uptime and identifying downtime patterns, the system helps IT teams address issues proactively. This analysis ensures that SLA targets are met, improving network reliability and service quality.

# Extended Surveillance Box (ESB)

Customized hardware and software design, coupled with advanced configuration techniques, enables distributed active monitoring and control for network systems. This approach allows for real-time surveillance and dynamic management through the use of Enterprise Service Bus (ESB), facilitating efficient communication between various system components. By utilizing surveillance clustering, multiple monitoring nodes can work together to collect and analyze data, improving fault tolerance and scalability.

Conversely, de-clustering allows the system to dynamically adapt by isolating monitoring groups when needed, optimizing resource allocation and ensuring that performance remains consistent across the network. This level of flexibility and customization ensures that the network remains secure, efficient, and capable of handling complex monitoring and control tasks at scale.

## ESB- Network Connectivity Diagram




# SIP Protocol

The **Session Initiation Protocol (SIP)** is a signaling protocol used to initiate, manage, and terminate real-time communication sessions, such as voice, video, and messaging. SIP is widely employed in **VoIP (Voice over IP)** and video conferencing systems to establish connections between endpoints. It operates on a request-response model, enabling devices to communicate with one another over IP networks. SIP can work with other protocols, like RTP for media transport, and supports features like call forwarding, voicemail, and presence management. Its flexibility and scalability make it a core technology in modern communication systems, including unified communications and WebRTC.

## Integration and Usage

Integration in the **SIP protocol** involves connecting SIP with other communication protocols to enable seamless real-time interactions. SIP commonly integrates with **RTP** for media transport, **XMPP** for presence and messaging, and **STUN/TURN** for **NAT** traversal in WebRTC. Additionally, SIP can be secured using **TLS** for signaling encryption and SRTP for securing media streams. This integration allows SIP to function in diverse environments, from enterprise VoIP systems to web-based communication.

The SIP protocol is primarily used for establishing and managing voice and video calls over IP networks, making it essential in VoIP and video conferencing applications. It is also widely used in instant messaging and presence management systems, enabling real-time communication. SIP facilitates call features such as call forwarding, voicemail, and conference calling. Its flexibility allows it to integrate with other protocols like RTP for media and STUN/TURN for NAT traversal, supporting both enterprise and consumer communication platforms.

# Our Partners

Novus

*Innovating Possibilities*

Novus Automation Pvt. Ltd. aims to revolutionize the security industry by innovating, manufacturing, and automating advanced products and software solutions. Novus offers the most advanced security hardware's, including **access control system, security and surveillance system, entrance control system, traffic control system,** and **embedded security solutions** to our valued customers. Dedicated to technology enthusiasts with a passionate in-house Research and Development (R&D) team that pioneers advanced technologies such as **Artificial Intelligence**, **IoT, and Machine Learning**.

**Accelerate Your Business with Novus Automation**

PENTAMINDS

Technologies Private Limited

**Pentaminds Technologies Pvt. Ltd.** was founded in 2015 with vision to create quality innovative solution. At Pentaminds Technologies we are aware that creating client-oriented software takes a mixture of technical excellence and clear communication and our firm hires only the very best to ensure you receive both. We know that every client is unique and we strive to deliver an individual, innovative and affordable proposal every time and to follow it through with an outstanding delivery which is both on time and within budget.

IMPLEMENTING

**IMAGINATIONS!!**

DESIGN! DEVELOP! DELIVER!

# Our Esteemed Client

## Real Estate & Infrastructure

DLF BUILDING INDIA

ELDECO

EMBASSY

GAURS your own world

CapitaLand

## Facility & Management

JLL

CBRE

CUSHMAN & WAKEFIELD

## Corporate

KPMG

ORACLE

pwc

## Educational

CHITKARA UNIVERSITY

BENNETT UNIVERSITY TIMES OF INDIA GROUP

INDUS VALLEY PUBLIC SCHOOL EDUCATION RENDERS POLITENESS

## Hospitality

TAJ Hotels Resorts and Palaces

THE LEELA PALACES HOTELS RESORTS

JW MARRIOTT®

# Shyama Prasad Mukherjee Port

- CuroPark has API level integration with third party vendor at **Shyama Prasad Mukherjee Port, Kolkata.**
- Real-time data will be pushed from port server to Curopark server, and these servers are managed by third party.
- **ANPR** readers are used to read the number plate of a vehicle and capture the picture to keep the records
- **RFID Reader** are used to read the **RFID/FASTag.**
- Display board to show the slot number and parking fair.
- Boom barrier to manage entry and exit.

# Thank you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