MANTRA | Enterprise & Homeland Security



Case Study

How Space Research Agency Strengthened Enterprise Access Security Across Strategic Locations Using AI-Powered Access Control

Industry
Space Research & Strategic Infrastructure

Locations
2 Strategic Locations Across India

Solution
Enterprise Access Control & Management System (EACMS)

Authentication
AI-Based Face Recognition + Smart Card

EXECUTIVE SUMMARY

To strengthen access security across strategic facilities, the Space Research agency initiated the deployment of an AI-powered Enterprise Access Control & Management System (EACMS).

The objective was to establish a secure, contactless, and centrally managed access framework capable of supporting mission-critical operations while enhancing visibility, scalability, and operational continuity.

Following a rigorous technical evaluation and procurement process, Mantra Softech was selected as the technology partner for delivering the solution.

The deployment introduced AI-based face recognition, multifactor authentication, centralized monitoring, and resilient system architecture—creating a future-ready access management ecosystem for strategic infrastructure across India.

MAKE IN INDIA

CUSTOMER BACKGROUND

The Space Research agency is India's premier space agency and one of the world's leading institutions in space research, satellite systems, launch vehicles, and propulsion technologies.
Operating mission-critical infrastructure requires uncompromising standards of security, reliability, and operational resilience. Access to facilities, personnel, and sensitive assets must be governed by robust identity and access management frameworks to ensure security and continuity of operations.
As part of its modernization initiatives, Space Research agency embarked on enhancing its enterprise access control infrastructure across strategic locations in India.

BUSINESS CHALLENGES

As operations expanded across geographically distributed facilities, Space Research agency required an enterprise-grade access management framework capable of supporting modern security requirements while maintaining operational efficiency.
The organization sought to address several critical challenges:

- Strengthening physical security across strategic facilities
- Enabling secure and contactless authentication
- Centralizing monitoring of access events
- Improving operational efficiency in access management
- Ensuring high availability and business continuity
- Supporting future scalability across facilities
- Maintaining secure audit trails for monitoring and compliance

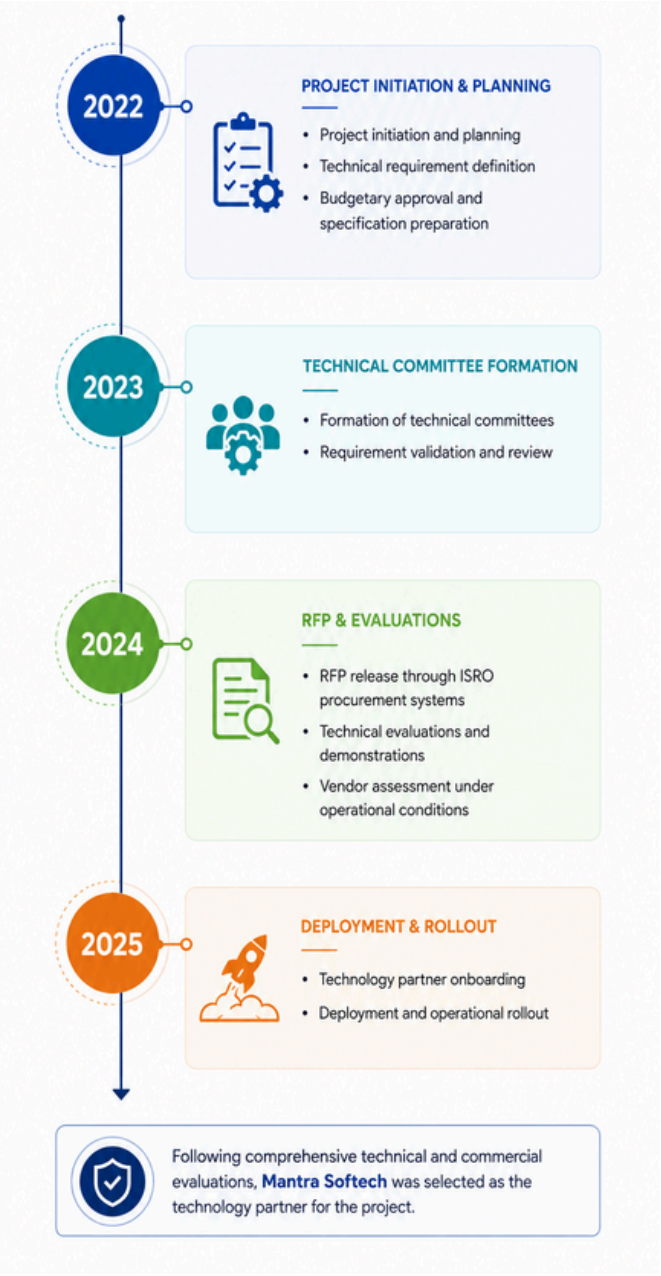
Given the strategic nature of its operations, the solution needed to deliver reliability, resilience, and enterprise-grade security.

PROJECT OBJECTIVES

Space Research agency aimed to:

- Modernize enterprise access control infrastructure
- Enable AI-powered biometric authentication
- Improve security and user experience through contactless access
- Establish centralized visibility across facilities
- Strengthen audit readiness and event monitoring
- Build a scalable and future-ready architecture
- Ensure uninterrupted operations during network disruptions

IMPLEMENTATION TIMELINE





SOLUTION DELIVERED

Enterprise Access Control & Management System (EACMS)

Mantra Softech deployed an AI-driven Enterprise Access Control & Management System designed to meet the demands of mission-critical environments.

Key Capabilities

AI-Based Face Recognition
Advanced facial recognition technology enables fast, secure, and reliable authentication of authorized personnel.

Multifactor Authentication
The system combines face recognition with smart card validation to strengthen access security.

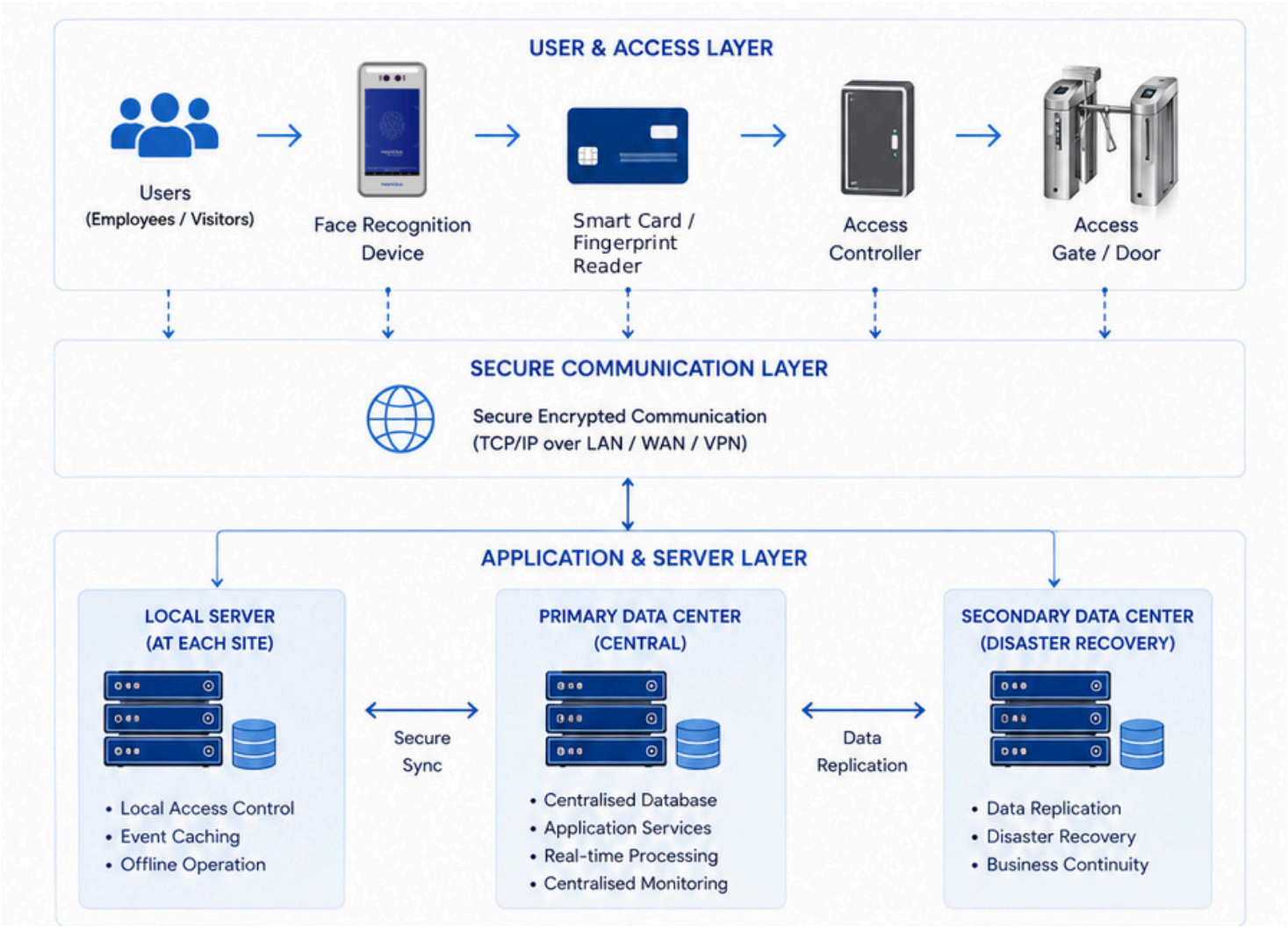
Centralized Monitoring
Access events across facilities are monitored through centralized server infrastructure.

Decentralized Administration
Authorized personnel at individual locations can perform local administrative functions.

Comprehensive Event Logging
Complete traceability of access activities supports monitoring and audit requirements.

Network Failure Handling
The system continues local operations during network outages and automatically synchronizes records upon restoration.

SOLUTION ARCHITECTURE



RESULTS & OUTCOMES

The deployment delivered measurable improvements in access security, operational efficiency, and system resilience.

Key Outcomes

✓ Secure and contactless authentication
✓ Enterprise-wide visibility of access events
✓ Enhanced security for mission-critical infrastructure
✓ High system availability and redundancy
✓ Comprehensive audit trails and event logging
✓ Improved operational efficiency
✓ Business continuity during network disruptions
✓ Scalable architecture for future expansion



WHY THIS PROJECT MATTERS

- Technology deployments within organizations such as Space Research agency demand the highest standards of security, reliability, and scalability.
- Solutions operating in such environments must perform consistently while safeguarding strategic infrastructure and supporting mission-critical operations.
- The successful deployment of EACMS for Space Research agency demonstrates Mantra Softech's capability to deliver enterprise-grade identity and access management solutions for some of the country's most demanding security environments.
- This engagement further strengthens Mantra Softech's expertise in supporting critical infrastructure, government, defense, homeland security, and strategic institutions where trust, performance, and resilience are paramount.

SECURING TODAY. ENABLING TOMORROW.

With EACMS, Mantra Softech has empowered space research with a future-ready, intelligent and resilient access control ecosystem across strategic facilities.

Enterprise Access Control & Management System (EACMS)
Securing People. Protecting Missions.



ENHANCED SECURITY
AI-powered authentication strengthens access security across strategic facilities.

CENTRALIZED VISIBILITY
Real-time monitoring of access events across multiple locations.

AUDIT READINESS
Comprehensive event logging and traceability ensures compliance.

CONTACTLESS ACCESS
AI-based face recognition and smart card enable secure and seamless access.

BUSINESS CONTINUITY
High-availability architecture ensures uninterrupted operations, always.

FUTURE SCALABILITY
Scalable and resilient platform designed to grow with evolving needs.

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