



South India's Leading Educational Institution Relies on Matrix IP Cameras and ENVRs for Centralized Video Surveillance

Case Study

Industry:

Education

Location:

Chennai, Tamil Nadu, India

Company Profile

Founded in 1952, the group of Educational Institutes, located in Meenambakkam near Chennai, Tamil Nadu, India, stands as one of the oldest and most distinguished institutions in the country. Over the years, they have established primary and secondary schools as well as colleges in Chennai, offering a diverse range of courses in science, arts, commerce, and business management. As of 2016, they have evolved into a leading research and post-graduate institution, boasting three dedicated research departments in physics, mathematics, and economics.

Business Scenario:

Situated on a sprawling 40+ acre campus, the educational institutes cater to over 9000+ students and employ a dedicated faculty of 350+ staff members. They have over 100 classrooms, indoor and outdoor stadiums, auditoriums, seminar halls, libraries, labs and hostel facilities.

Given the expansive infrastructure and the substantial student population, ensuring the safety and security of the premises became a top priority. Despite a previous installation of a competitor's video surveillance system, the coverage was limited. Consequently, they recognized the need for a comprehensive solution that could effectively monitor all areas, including schools, colleges, and hostel facilities. They needed a solution that would not only provide thorough coverage but also enable both local and centralized monitoring from a single location.

Challenges:

- Securing more than 9000+ students and staff across the premises
- Needed a centralized video surveillance solution that could monitor the schools and college premises from one location
- Widespread infrastructure of the schools and colleges including classrooms, auditoriums, playgrounds, and hostel premises was scattered, making centralized surveillance a challenge
- Previously installed competitor video surveillance systems had failed to provide extensive coverage in all the locations necessary on the premises
- Need for a large number of cameras and thus a large number of recording servers with higher RAM for scalability
- Competitor brands' servers were based in China which wasn't reliable enough - These could be leveraged by hackers to gain access to the devices and exploit further the path of attack to target the educational institutes' environment

Solution:

Matrix proposed its professional series of 2MP Dome IP cameras for securing the indoor premises of the educational institute- like classrooms, libraries, auditoriums, seminar halls, and admin offices. They provided comprehensive coverage in the indoor facilities of the campus. Similarly, 5MP Bullet IP cameras were proposed to guard the outdoor facilities and infrastructure of the campus. So over 600 cameras were deployed throughout the school and college premises, providing comprehensive coverage.

For recording and viewing the footage, Matrix experts proposed NVR12808XCTS - 128 Channel Enterprise ENVR. As Matrix ENVR comes with an in-built Video Management Software - Matrix SATATYA SAMAS, there was no need to install a separate software. This eased out the local and centralized monitoring requirements while ensuring a user-friendly GUI. Moreover, Matrix's ENVR seamlessly integrated with the third-party IP Cameras already installed in the premises.

Matrix ENVR provided a centralized system management with well-defined user roles and rights. Its distributed architecture allowed centralized configuration, user-based login roles and rights, and an Audit Trail of user activities and IP addresses.

Products Offered:

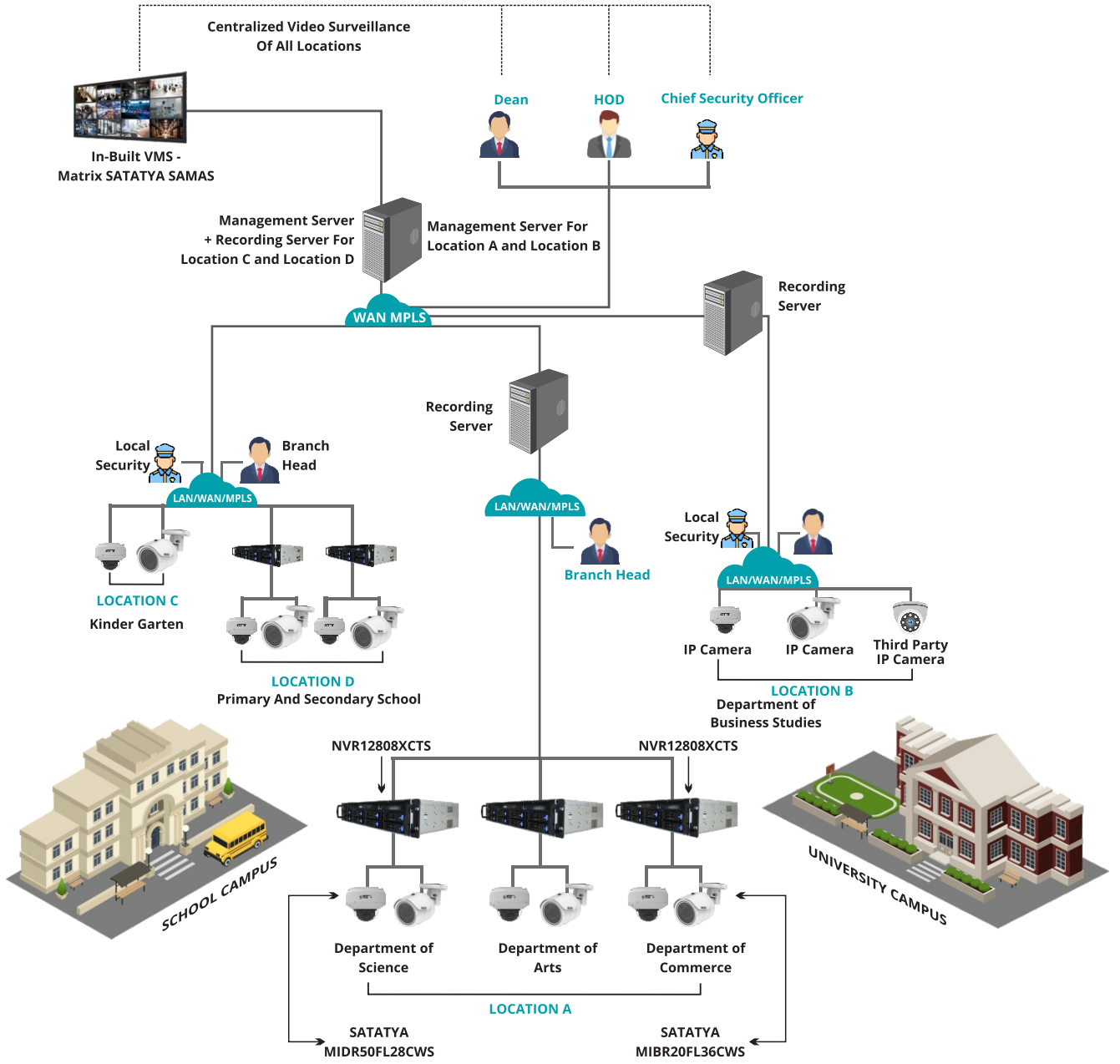
- **SATATYA MIBR20FL36CWS (470 Nos.)**
2MP IR Bullet Camera with 3.6mm Fixed Lens
- **SATATYA MIDR50FL28CWS (142 Nos.)**
2MP IR Dome Camera with 2.8mm Fixed Lens
- **SATATYA NVR12808XCTS (5 Nos.)**
128 Channel Enterprise NVR with 8 SATA Port
- **SATATYA SAMAS USER10**
10 Concurrent User Licence for Smart Client and Mobile Client

Benefits:

- Matrix IP Cameras provided comprehensive coverage throughout the premises.
- Matrix ENVRs come with an in-built server and software - Matrix SATATYA SAMAS due to which no separate investments for software were required. This made centralized video surveillance very easy.
- A particular user could see any camera installed at any location while sitting at any location.
- Bases in India, Matrix Server-grade ENVRs were more reliable than the competitors' servers located in China, reducing the chances of hacking attempts.
- Having four kinds of redundancies, Matrix ENVRs ensured minimal system downtime even in case of network and power failures.



Solution Diagram



About Matrix

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern businesses and enterprises. As a technology-driven, and customer-focused organization, the company is committed to keeping pace with the revolutions in the Security and Telecom industries.

With around 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like Video Surveillance Systems – Video Management Systems, Network Video Recorders and IP Camera, Access Control and Time-Attendance Systems as well as Telecom Solutions such as Unified Communications, IP-PBX, Universal Gateways, VoIP and GSM Gateways and Communication Endpoints. These solutions are feature-rich, reliable, and conform to international standards.

Having global footprints in Asia, Europe, North America, South America, and Africa through an extensive network of more than 4000+ channel partners, Matrix ensures that the products serve the needs of its customers faster and longer.

Matrix has ISO 27001: 2013, 20000-1 2018, 14001- 2015, and 9001: 2015 certifications for quality management standards. Matrix has also been awarded ZED Quality Certification, and DSIR Certification for indigenous R&D and Manufacturing. Matrix has gained the trust and admiration of customers representing the entire spectrum of industries.

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