

# Achieving COMPLETE NETWORK VISIBILITY with a Single Pane of Glass

How **Goa Mopa Airport** achieved Swift, Scalable, and Secure Network Management with Echelon Edge's **Percipient NMS**?

## About the Customer

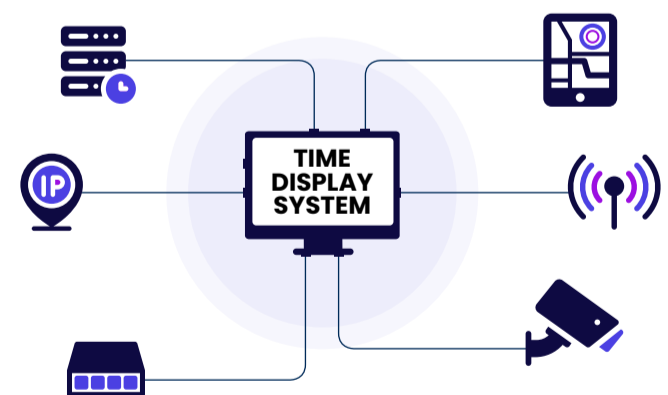
The **Goa Mopa Airport** has been developed with a strong emphasis on environmental consciousness to incorporate a range of customer-friendly features. These include a solar power plant, green buildings, LED lights on the runway, a rainwater harvesting system, and an advanced sewage treatment plant with recycling facilities. These customer-centric initiatives not only enhance connectivity but also contribute to boost tourism. The state-of-the-art airport is designed to provide an exceptional customer experience while adhering to sustainable practices.



## Project Background

The **Goa Mopa Airport by Airport Authority of India (AAI)** had a project requirement to establish a Local Area Network Infrastructure at its ATS Complex, which consisted of multiple buildings. The objective was to provide IP connectivity for various services while ensuring desired isolation. The solution needed to be highly reliable, scalable, and resilient, with the ability to recover and converge effectively in the event of any failures.

Additionally, there was a need for centralized control and end-to-end monitoring of the IT network infrastructure. This monitoring system had to be capable of monitoring faults and the performance of a state-of-the-art NTP Based Time Display System. The Time Display System included components such as an NTP Server, GPS Receiver with Antenna, IP Network with Firewall & Network Switches, POE-based Clocks, and services like IP Telephony & Voice network, Video/CCTV streams, and Data network. The monitoring solution also needed to offer automated network configuration management to enable seamless and rapid deployment.



## Challenges Faced

### 01 Swift Deployment

The challenge was to quickly implement a scalable and secure solution that provides end-to-end infrastructure monitoring.

### 03 Better Control & Automation

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### 02 Complete Visibility

Achieving comprehensive visibility into the infrastructure and network was a key challenge. Real-time monitoring and insights were required across all components.

## Solution Offered

The implementation of Echelon Edge's Percipient NMS offered **Real-time Fault & Performance** data visibility. Its **Unified Dashboard** provided actionable insights and made easy for the Goa Mopa Airport operations team to analyze and address issues efficiently.

### 01 Micro-services Architecture

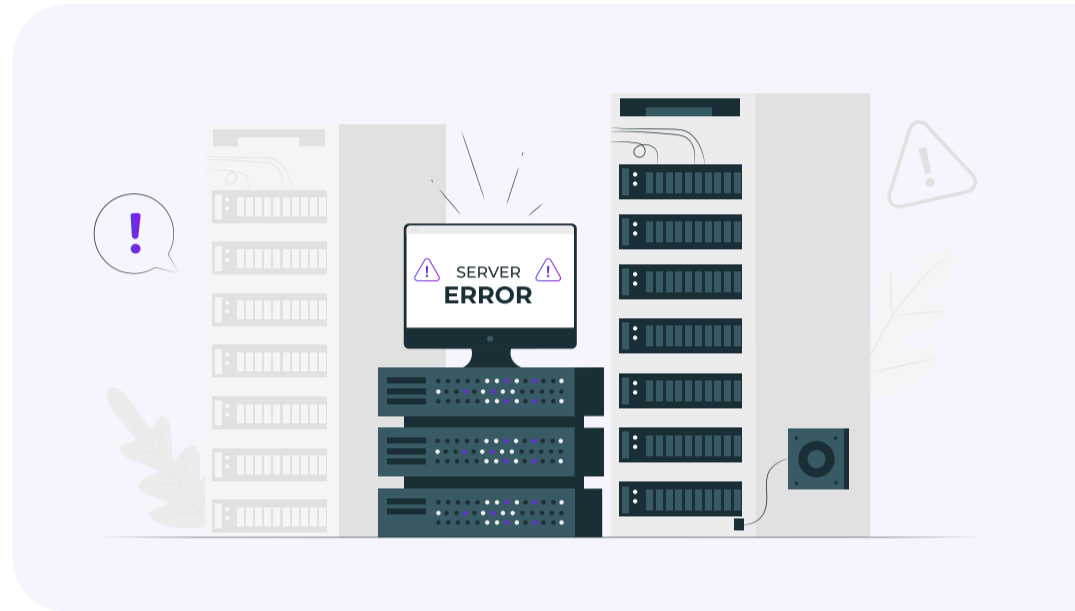
The utilization of a micro-services architecture facilitated the rapid deployment of the solution that enabled quick setup and activation of the services.

### 03 Quick Fault Identification

The solution enabled rapid fault identification by consolidating alerts, events, and metrics in one centralized location. This streamlined the troubleshooting process to respond promptly to any network issues.

### 02 Automation Platform

The Solution streamlined complex network operations with network configuration management. It optimized efficiency, reduced manual workload, and minimized errors through an automation platform. Playbooks-based configuration management enhanced AAI's network operations by enabling quick and error-free deployment of changes at scale with improved efficiency.



## Outcomes

### 01 Time to Value

AAI achieved swift deployment of Percipient NMS that enabled them to set up and commence system monitoring within a few hours. The implementation utilized **Ansible-based Configuration Management** to enhance the efficiency and effectiveness of the deployment process.

### 03 Improved Efficiency & Automation

With our **Playbook-based Configuration Management**, AAI gained rapid visibility, control, and deployment capabilities over its network. The implementation of best practice controls included automating backups of both running and baseline network configurations, effectively preventing the adverse impact of accidental changes to network device configurations. This approach ensured the network's stability and minimized any potential disruptions.

### 02 From Reactive to Proactive

The Percipient NMS empowered AAI to extract metrics from various infrastructure components and access them through a **Centralized and User-friendly Graphical User Interface (GUI)**. This consolidated data provided users with the ability to create personalized dashboards, graphs, and alerts that focused on metrics relevant to their specific requirements. Now, AAI can leverage this consolidated information to quickly generate insightful infographics tailored to their unique needs.

## Conclusion

Echelon Edge's **Percipient NMS** has helped the **Goa Mopa Airport** to improve network visibility and efficiency. As a result, it has been able to improve the performance of its airports and provide a better experience for its passengers.





## About Echelon Edge

Echelon Edge, a leading provider of integrated solutions that enable businesses to thrive in the digital age. Our commitment to excellence and customer satisfaction is evident in everything we do. As a solution-oriented company, we focus on unlocking the full potential of your IT infrastructure needs, while magnifying the opportunities to take your business to the next level.

Echelon specializes in NMS, Big Data Analytics platform, IoT Device Management, and connectivity solutions, all of which are designed to support business run and reinvent themselves with software, solutions, and services. With over 10 years of experience, we have successfully delivered integrated solutions to a diverse clientele spanning telecommunications, government, and enterprise sectors.

To learn more about how Echelon Edge's Percipient NMS can help you improve your network visibility and efficiency, please [Connect With Us](#) today.

