

Comprehensive Security Management System Enhances City’s Security Cover

Cisco video surveillance solutions help Navi Mumbai Police to track, monitor and prevent crime

EXECUTIVE SUMMARY
<p>Customer Name: Navi Mumbai Municipal Corporation</p> <p>Location: Navi-Mumbai</p>
<p>BUSINESS CHALLENGE</p> <ul style="list-style-type: none"> • Implement a comprehensive security management system in Navi Mumbai • Ensure intelligent monitoring, and faster resolution in the event of a security breach • Enhance safety and security of life and property in the city • Manage multiple stake holders with diverse expectations and dependencies
<p>CISCO SOLUTION</p> <ul style="list-style-type: none"> • IP based city surveillance system that includes video surveillance, provides analytics and intelligent incident, response, emergency communication • Integrated solution that facilitates faster and efficient decision making and put in place preventive security mechanisms as required
<p>BUSINESS RESULTS</p> <ul style="list-style-type: none"> • Enhanced safety and security • Faster response time in the event of a security breach or violation of law • Improved Traffic Management • Scalable, flexible solution that reduces operational costs and risk

Business Challenge

Navi Mumbai, which is in close proximity to Mumbai is a rapidly growing business hub in Maharashtra. It is fast emerging as a key IT hub and requires an efficient integrated transport system, adequate and regular power supply, state-of-the-art telecom network in order to enhance the quality of life of its over 12 lakh residents.

Incidentally this region is also a prime target for terrorist/criminal activities that can inflict damage to life and property of the residents. The Government of Maharashtra realized the imminent need to enhance the security of the region and was on the lookout for a comprehensive security management system that would improve the overall security cover and assist Navi Mumbai Police in managing law & order.

The solution had to not only enable the civic authorities bring down the possibilities of a security breach but also ensure better safety across the city through 24x7 intelligent monitoring, quicker response time, faster access to evidence in case of a law violation.

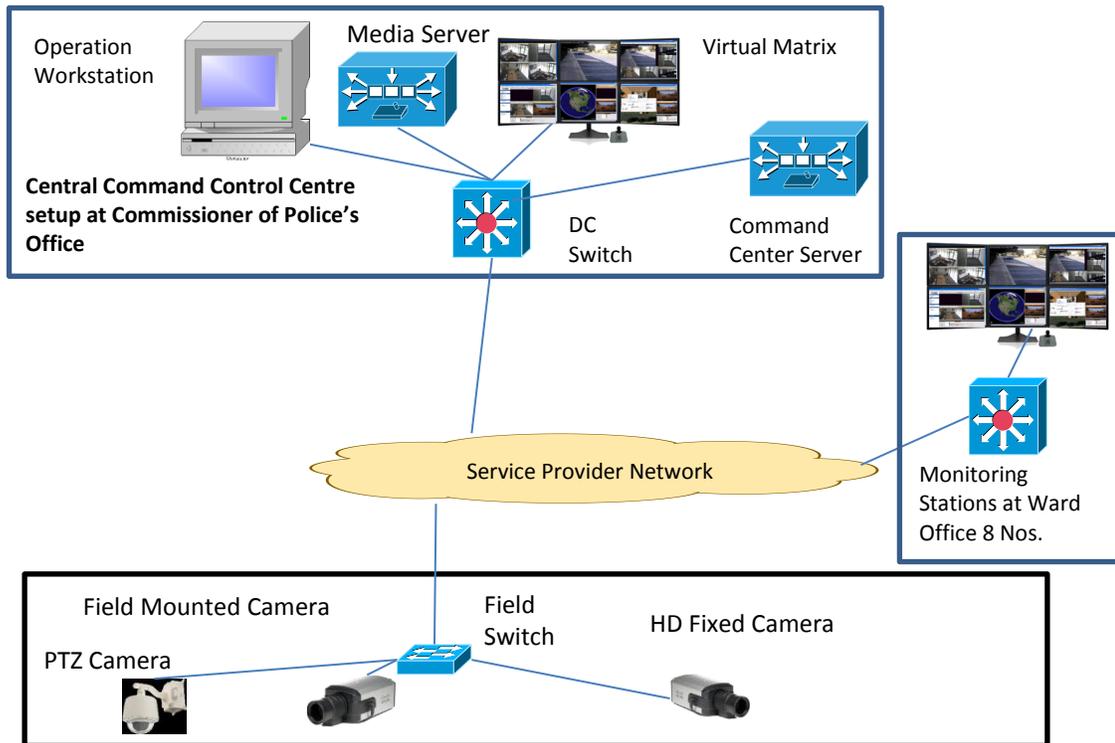
Integration of the various stakeholders like the Navi-Mumbai Police, NMMC (Navi-Mumbai Municipal Corporation), railways, shopping malls, multiplexes, theatres, schools, hotels, hospitals and other

public places, corporate houses and citizens was extremely critical. This was important because each of these stakeholders had a different set of expectations and dependencies.

The implemented solution had to be scalable and easily integrate into existing security platforms in the city which the stakeholders were already familiar with. Speed of implementation was also critical to help reduce operational costs and risk and manage post implementation issues if any.

Cisco Solution

With a vision to implement a holistic and integrated surveillance system in Navi Mumbai, the Government of Maharashtra decided to align with Cisco for a connected physical security solution that would transform the way people, property and infrastructure in the city would be protected. A video surveillance system was implemented in order to enhance the overall safety and security of city, address concerns pertaining to likely violation of law and order, traffic violations, turnaround time for crime resolution and act as an aid to investigation.



The solution included latest video surveillance and analytics technology which provides live camera updates and alerts and ensures that no security breaches are missed due to human error or oversight. Part of the solution are IP based outdoor security cameras located across the city which have the ability to monitor, detect, alert and record attacks, theft, vehicular movement, human movement, etc. The video surveillance data from various cameras deployed at strategic locations in the city are stored, monitored and analyzed in a centralized control room. Intelligent reporting, Command and Control Engine & alert generation mechanisms enable faster and efficient decision making and help to put in place preventive security mechanisms as needed.

As part of the solution

- 7 entry points in the city have 4 HD Fixed Cameras each
- 27 Traffic Junctions have 4 HD fixed Camera and 1 PTZ Camera each
- 20 Public Locations have 5 IP Fixed HD Camera and 1 IP PTZ Camera each
- Public Location cameras are all connected on Wireless
- There are a total of 8 Monitoring stations at each Municipality ward office

“The implementation of a holistic and integrated surveillance system and its easy integration with existing security systems has helped enhance the safety and security of life and property in the city.”

—Sagar Naik, Mayor, Navi Mumbai Municipal Corporation



The entire solution runs on the network and the Cisco Unified Data Center architecture helps to integrate technology silos, reduce costs, and improve productivity. The ideal platform for delivering IT as a Service, Cisco Unified Data Center architecture unifies and dynamically optimizes compute, storage, and network resources that can be securely and rapidly repurposed and managed on demand to meet the needs of different customers or applications.

Through its secure, scalable network fabric—IT organizations can deliver network infrastructure or network services across all types of applications—from legacy applications to new virtualized applications. Consequently, customers can deliver outstanding scalability, performance, high availability across all applications.

Business Results

According to Mr Sagar Naik, Mayor, Navi Mumbai Municipal Corporation, “The implementation of a holistic and integrated surveillance system and its easy integration with existing security systems has helped enhance the safety and security of life & property in the city.”

The video surveillance system helps to:

- Provide alerts/ feedback to the Police Department about abnormal movements/suspicious objects
- Better manage security across the city through 24x7 intelligent monitoring
- Faster response to security breaches, improved turnaround time for investigation
- Quicker access to evidence in case of a law violation

The integrated architecture captures video data from all IP cameras. The data collected is aggregated for intelligent data processing for the creation of policy-based actionable information which is communicated to the relevant personnel for implementing on site. Since the solution is scalable and flexible, it meets the customer demand for bringing down operational costs and risk.

PRODUCT LIST

- Cisco HD IP Camera with Analytics - 248 Nos.
- Cisco IP PTZ Camera -34 Nos.
- Cisco Video Management Server with 24 TB Storage - 7 Nos.
- Cisco Central Command and Control S/w -1 No.
- Cisco Industrial Grade switches -54 Nos.
- Cisco Control Room Hardware -2 Nos.
- Cisco Wireless Access Point - 120 Nos



According to Mr. G.V.Rao - Jt. City Engineer (Electrical/IT), Navi Mumbai, "Using data from the installed CCTVs, around 50 to 60 criminal cases have been successfully resolved by the police. There is a demand for more cameras from all elected councilors who seen the positive effect of the video surveillance solution.

Next Steps

The City surveillance System is completely modular and scalable and future expansions planned are:

- Additional Cameras at all key locations
- Intelligent Incident Response & Emergency Communication System
- Integration with Intelligent Traffic Management Solutions
- Expand Control Rooms to multiple stakeholders
- Disaster Recovery
- Incorporate & Integrate with Private Industry Bodies like Hotels/Hospitals/Malls/Commercial Buildings.

More Information

To find out more about Cisco security solutions visit : www.cisco.com/go/physec



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)