

Project Brief

Bus Rapid Transit System (BRT), Delhi



IndigoVision IP Video Helps Keep Delhi Buses on Time



End User
BRTS, Delhi

Country
India

Vertical Market
Traffic

Partner
Siemens India

Technology Features
Distributed & Scalable
Architecture
Low Latency
Activity Controlled Framerate
IVSnap

Background

Delhi, India's second largest city, has developed an innovative Bus Rapid Transit (BRT) system that uses IndigoVision's complete IP Video surveillance solution to help ensure its smooth operation. BRT is a high-quality, high-capacity bus service that travels on exclusive lanes along designated routes. An example of its advanced traffic management technology is the ability of BRT buses to signal a green light at an upcoming intersection to stay on schedule, reducing travel time by up to 30%. Besides giving priority to buses, the system also provides dedicated lanes for pedestrian and non-motorised vehicles like cycles and rickshaws.

Solution

A key to the successful operation of the system was the decision to deploy a distributed and scalable IP Video solution. IndigoVision's system delivers high-quality video over long distances to a central control room and can be easily expanded as the BRT system grows over the next decade. With such long project timescales, deploying future-proof technology was very important. IndigoVision has proven its ability to provide this with IP Video systems that have been installed for over 10 years, which are still being actively used and expanded to this day.

"The quality and capability of the surveillance system is key to the operation of the BRT system," explains Goutam Roy, BRTS Project Manager at Siemens India. "The IP Video allows operators to monitor the smooth running of the system, identify illegal use of the bus lane by motorists and ensure bus drivers abide by the rules and do not deviate from the prescribed routes. This is achieved because the IndigoVision technology provides the operators with very good quality video through intuitive Video Management Software (VMS) and smooth control of PTZ cameras over large distances. The marriage of intelligent traffic management and live surveillance feeds allows the system to be closely controlled, reducing commuting times and saving money."

It is extremely low latency that enables smooth PTZ control over long distances. The minimal transport delay across the network is due both to the excellent compression deployed and the design of the distributed server-less architecture.

Benefits

- Scalable architecture provides platform for future growth
- Low-latency video allows PTZ cameras to be smoothly controlled over large distances
- Activity Controlled Framerate (ACF) feature reduces bandwidth and storage requirement
- IVSnap utility allows video snapshots to be regularly updated on BRTS website for live traffic updates – see www.dimts.in
- IndigoVision standalone resilient Network Video Recorders (NVRs) store 15 days of 24/7 footage from all cameras

