DELLTechnologies

ISS | INTELLIGENT VIDEO. DEFINED.

Cities of the Future

Accelerating digital cities through innovation

2022

Digital cities foster innovation and create trusted and transparent cities that leverage technology and policies to improve innovation, livability, commerce, engagement, and sustainability and enable positive outcomes for the community.

intel.

Reimagining safety and transportation for digital cities

Safety, security, and transportation are at the core of empowering digital cities that operate optimally, making them safer and enabling them to offer services that enrich the human quality of life.

## Safe cities: Emerging use cases and application areas

- **Access management & perimeter protection -** Leveraging technology to efficiently access resources and provide for an intelligent perimeter security solution that protects citizens from emerging security threats.

- **City integrated operations center -** Enabling faster and more accurate decision-making with real-time collaboration and cross-channel information sharing.

- **Safety & security incidents monitoring -** Minimizing safety and security incidents and improving the quality of human life through advanced video analytics.

- **Smart infrastructure -** Understanding occupancy/visitor/crowd trends and behavior for planning and decision-making.

- **Smoke & fire detection -** Anticipating, preventing, detecting, and responding to fire incidents efficiently.

- **Situational awareness & multi-agency response -** Enabling real-time 360° view of safety and security, enhancing situational awareness through multi-agency coordination & response.

- **Intelligent traffic management -** Reducing traffic accidents, improving transport efficiency, minimizing traffic congestion, and managing carbon footprint efficiently.

- **Disaster management -** Enabling data-driven planning and management during natural disasters and special events.

✈ Emerging use cases for transportation in digital cities

- **Speed & red light violation detection -** Reducing traffic fatalities, increasing compliance, and improving road traffic governance

- **Adaptive traffic light systems (ATLS) integration -** Optimizing traffic management and minimizing traffic delays

- **Automated number plate recognition (ANPR) -** Detecting and identifying vehicles of interest

- **Road traffic monitoring -** Deploying video analytics solution to detect and enable rapid response to traffic incidents

- **License plate recognition (LPR) -** Increasing compliance and reducing crime, leading to safer cities

- **Vehicle count and identification -** Predicting the future demand and preparing future transportation policies

Traffic Analytics and Violation Detection
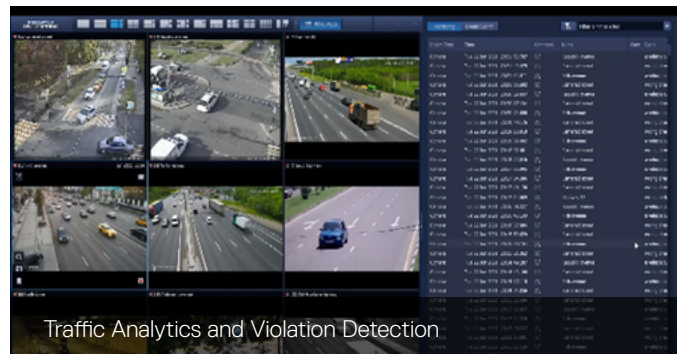
- **Traffic analytics -** Substantially reducing traffic congestion leading to significantly improved productivity

- **License plate and cargo number recognition -** Enabling advanced deep learning and template-based algorithms and capturing vehicle license plates and cargo container numbers with high accuracy

- **Intelligent situational awareness -** Enabling real-time monitoring and analytics designed to increase situational awareness of safety personnel

👆 Building the urban future

Solutions from Dell Technologies and ISS together deliver game-changing transformation for the citizens of tomorrow
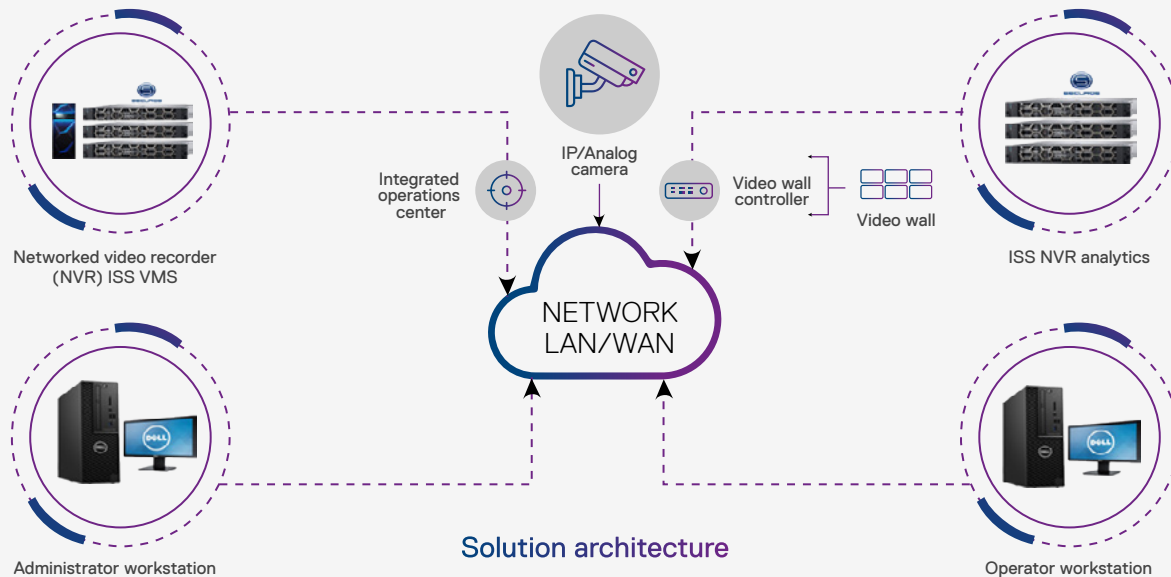
Dell Technologies helps cities build a robust digital core using its industry-leading edge to core-to-cloud technology platforms, end-to-end, and ready-to-configure solutions through its global & local partner ecosystem.

ISS SecurOS™ solution addresses the multifaceted challenges of urban mobility security, from logistics facilities to transportation hubs such as airports and rail stations and intelligent roadways.

The diverse, multi-cloud, software-defined, and unique needs of each deployment requires the advanced video management platform to be easily configurable and adaptable to meet the varied security and safety challenges. Video analytics plays a significant role in addressing the needs of transportation security personnel and homeland security staff.

SecureOS implements video analytics solutions such as object tracking, face recognition, unidentified object detection, intelligent traffic monitoring, train carriage, and cargo recognition, therefore enabling much more proactive solutions to meet the existing and emerging threats of the digital city infrastructure.

Networked video recorder
(NVR) ISS VMS

IP/Analog
camera

Integrated
operations
center

Video wall
controller

Video wall

ISS NVR analytics

NETWORK
LAN/WAN

Administrator workstation

Solution architecture

Operator workstation

🚩 Delivering impact

The key results of Dell Technologies and ISS's joint initiatives are outlined below. These initiatives aim to enable digital cities to adopt a strategic direction towards making cities operate optimally, be safer and offer services that enrich the human quality of life, promote inclusivity, and provide economic and social enhancing opportunities for all.

Key outcomes

- Increased compliance, leading to safer cities
- Improved resource efficiency through intelligence and automation
- Integrated reference architecture encompassing hardware and software stacks
- 360° view/real-time situational awareness of safety and security
- Informed decision making and management during natural disasters, special events
- Improved time to outcomes and ROI
- Optimized traffic management
- Automated & remote edge screening of large crowds

Questions? We're here to help.

From offering expert advice to solving complex problems, we've got you covered.

Call 1-800-433-2392   Get Support

For further information on Dell Digital Cities solutions, please reach out to us at DigitalCities@Dell.com.