PRESIDIO™
Internet of Things

CONNECTED MASS TRANSIT

Improve Rider Services and Safety

The Challenge
The world's population continues to move to urban areas with census predictions that over 70% of people on the planet will live in a city by the year 2050. This trend puts strains on transportation infrastructure and creates environmental issues.   As a result, Mass Transit organizations are challenged with increasing ridership of their trains, buses and planes to reduce automobile traffic and improve the quality of life in our cities. In order to drive more demand for public transportation, the system must be safer and more efficient while providing a positive rider experience.

Now more than ever, Mass Transit organizations need a partner with strong knowledge of the challenges they face that can integrate vehicle technology and remote surveillance solutions. Enter the Presidio IoT Connected Transit architecture, a solution built by experts in the world of mobile and industrial video, computing and communications. Presidio IoT has a heritage of over 20 years developing products and solution specifically for transportation clients.

We provide:

Extensive and Diverse Experience
Presidio IoT has provided mobile solutions and consulting services to Mass Transit and Transportation clients for over a decade. Our experience spans all major verticals, including first responders, transportation, utilities, DoD, fleet, and more. Presidio consultants are highly-experienced professionals with industry-recognized certifications and strong backgrounds in mobility, security, compliance, and core networking technology.

Standards Based Approach-Unified and Secure
Presidio IoT leverages standards wherever possible, ensuring an agency has the best possible path to the future while maximizing existing technology investments. The approach converges legacy technology into a unified solution empowering centralized visibility of the entire system including surveillance and fleet management. The solution also addresses common security concerns by using encrypted communications devices coupled with Presidio Cyber Security expertise.

Benefits

• Improved passenger and employee safety through unified video including onboard and transit stations

• New onboard services including WIFI and entertainment options

• Better passenger communication through signage and mobile applications including arrival time information

• Increased revenue by increasing ridership and marketing and promotion sales

• Meet governmental and industrial safety compliance requirements

• Reduce fleet costs by improved route management and preventive maintenance

• Cut fuel and carbon emissions by over 10% annually

CONNECTED MASS TRANSIT

The Presidio IoT Connected Mass Transportation solution includes:

Mobile Video and Surveillance

The mobile video system is a smart digital capture solution designed specifically for the Mass Transit organizations. Complete with the most advanced IP-based, wide-angle, hi-res camera system as well as a long-range wireless MIC and advanced video processing unit. Presidio IoT can leverage the system to provide an IACP-compliant video solution that unifies visibility across the entire system including transit systems. The solution's modular approach allows Presidio IoT to tailor the system to meet an agency's current and future needs.

Digital Signage

The digital signage is a component of the of an integrated enterprise video and content solution. The system is a comprehensive suite of digital signage, desktop video, and streaming TV applications that are all centrally managed. This solution offers riders new entertainment onboard and improved communication and public service announcements.

Mobile Communications

The mobile communication offering features MobileIP, the IETF standard for seamless mobility. Along with MobileIP, the offering supports AES, FIPS and IPSEC security protocols. By implementing MobileIP, IPSEC and FIPS protocols, Presidio is able to protect rider's information assets. The system has an industry unique feature, allowing for the integrated and seamless combination of a client on the laptop, tablet or smartphone to work with the mobile router, creating a holistic solution never seen before in the industry.

Fleet Management

Presidio provides a complete mobile asset tracking and telematics solution that provides visibility into performance and maintenance for Mass Transit fleets. The solution delivers savings in fuel consumption by reducing idle times, speeding and inefficient routes. In addition, the connected diagnostics provide preventive maintenance alerts which improves asset life and reduce costly part replacements.

Presidio IoT Integration

With the vast array of vehicle systems and physical environments, Presidio IoT brings the software, electronic, and mechanical engineering services together to deliver a truly integrated environment. We also integrate dispatch systems with fleet management and Cisco Unified Communications as well as mechanical solutions to provide secure and protected technology deployments within vehicle environments. Presidio IoT delivers a truly integrated solution for Mass Transit organizations.

Contact Presidio IoT to schedule an envisioning workshop to determine requirements and engagement at DLIOT@presidio.com.