CITY.ONE
THE COMPLETE PLATFORM FOR SMART CITIES

With the rapid growth of urbanization and pressure to reduce CO₂ emissions and energy consumption, today’s city managers face unprecedented challenges. The current model of disconnected legacy services controlled and managed separately limits the potential for innovative solutions. The Internet of Things (IoT) and Machine-to-Machine (M2M) technologies can connect services in exciting new ways, breaking down the current “silos” and transforming urban centers into the Smart Cities of the future.

PLAT.ONE is leading the way with CITY.ONE, an IoT/M2M application platform designed to manage the full spectrum of city services including parking, city lighting, waste management, smart building control, traffic management, public transport and more; all from a single platform. By seamlessly integrating Machine-to-Machine (M2M) technologies embedded throughout a city’s infrastructure, CITY.ONE helps city managers reduce energy consumption, greenhouse gas emissions and maintenance costs, while improving the lives of citizens and enabling innovative new services that can increase city appeal.

DEEP DATA PROTECTS CITIZENS AND ASSETS
CITY.ONE’s unique deep data management technology enables secure integration of data from various service applications and open data sources from residents and businesses, delivering improved service optimization and analytics. For example, information from drivers regarding traffic accidents can be quickly shared across services to minimize impact by re-routing buses, taxis and emergency vehicles and modifying traffic signaling to optimize flow. CITY.ONE’s ability to securely manage and appropriately anonymize sensitive data across the city infrastructure allows citizens and businesses to safely and securely play a more active role in improving the quality of life in their community.

Contact us and let us show you how PLAT.ONE can help you build your connected society today!

BENEFITS:

- An enterprise-grade application platform to rapidly develop and deploy city-wide services
- Centralized control and monitoring of your metering infrastructure from a single on-premise or cloud-ready platform with web-based and mobile configuration and dashboards
- Highest level of data security and sensitive data anonymization to protect consumer and company data yet allow for a new generation of smart-energy developers to create innovative services
- Fully-distributed operations allow for local, real-time operations and coordinated system-wide services
- Standards-based OSGI architecture allows for easy integration of legacy systems and devices, and modern web services and social media providing a framework for city wide, citizen-accessible services
A BRIGHT IDEA FOR CITY LIGHTING

Bring your city’s street lighting grid into the 21st century with CITY.ONE, an Internet of Things (IoT) and Machine-to-Machine (M2M) application platform designed to manage large street lighting grids. CITY.ONE offers city service managers centralized monitoring and control of street lights to lower energy consumption and maintenance costs, quickly identify outages and create customized lighting programs.

THE CHALLENGE

With vast numbers of street lights occupying today’s cities, city service managers face a daunting task managing energy consumption, maintenance and rapid identification of outages. The aging, inefficient street lighting infrastructure found in many cities can consume as much as 40% of a city’s energy budget and requires frequent manual inspection for bulb performance.

THE SOLUTION

Based on PLAT.ONE’s enterprise-grade IoT/M2M application platform, CITY.ONE offers a remote lighting and control solution for smarter regulation of city lighting grids. CITY.ONE’s versatile and scalable platform establishes two-way communication between IoT-enabled street lights and a central control application, enabling remote monitoring and control based on customizable programs or environmental conditions. For example, street lights can be automatically switched on or off, or dimmed in response to car or foot traffic to both minimize energy consumption and maximize lamp life.

Lamp data analytics enable pre-emptive maintenance decisions and energy consumption tracking, including alarm features for rapid detection of outages. With its extendable data model and device identity and clustering functionality, street lights can be integrated with other smart city solutions such as smart camera systems for traffic or parking space monitoring. CITY.ONE readily handles multiple hardware configurations, giving city managers flexibility in purchasing new smart lighting systems or retrofitting existing systems, without the need for application developers to make expensive changes to the existing applications. Leverage the power of PLAT.ONE’s state of the art CITY.ONE solution to bring street lighting into the future with reduced energy consumption and maintenance costs, and new and improved services to citizens.

BENEFITS:

- Reduce energy costs with intelligent, on-demand lighting control and data analytics across the lighting grid
- Real time monitoring of lamp conditions for smarter pre-emptive maintenance planning
- Easy control and visualization of lamp status over the entire city grid

SMART STREET LIGHTING
SMART PARKING

THE SEARCH FOR A PARKING SPACE IS OVER
Transform the parking experience for drivers and reduce city congestion and air pollution with CITY.ONE, an Internet of Things (IoT) and Machine-to-Machine (M2M) application platform designed to improve parking space management. CITY.ONE supports applications that help drivers quickly and easily locate available parking spaces, reducing congestion and CO2 emissions, while powering new services to improve the parking experience.

THE CHALLENGE
As urban populations grow so does the challenge for drivers to find parking spaces. It is estimated that 30% of city traffic is caused by drivers searching for available parking spaces. Not only does this lead to city congestion it also contributes to needless extra fuel consumption and CO2 emissions. Existing legacy parking infrastructures often require significant labor to monitor parking meters and issue tickets with little flexibility for innovative improvements.

THE SOLUTION
CITY.ONE is a smart parking application platform that works with a wide range of parking sensor technologies and protocols for maximum flexibility and rapid deployment of new smart parking applications. Based on PLAT.ONE’s proven, enterprise-grade IoT/M2M application platform, CITY.ONE links data from wireless parking space sensors distributed throughout city centers to a central control application. Such data can be used in real time to direct drivers towards available parking spaces via indication panels and smartphone apps while allowing constant, remote monitoring for parking violations.

CITY.ONE’s advanced security features and sensitive data anonymization enable innovative new smartphone-based booking and payment options, reducing labor costs and improving the parking experience. CITY.ONE’s big data ready architecture and extendable data model ensures the scalability to handle parking solutions in even the largest cities and the flexibility to integrate with other smart city applications such as smart street lighting.

BENEFITS:
- Reduce traffic congestion and CO2 emissions by helping drivers quickly identify available parking spaces
- Monitor parking usage patterns for future planning decisions
- Reduce labor costs associated with manual parking meter monitoring and ticketing
- Enable innovative new smartphone-based payment and booking services
SMART WASTE MANAGEMENT

TAKE THE WASTE OUT OF WASTE MANAGEMENT
Take waste management into the future with CITY.ONE, an Internet of Things (IoT) and Machine-to-Machine (M2M) application platform with a smart waste management solution. CITY.ONE leverages the power of connectivity to reduce the cost and carbon footprint of waste management while improving service quality and enabling innovative new approaches to collection scheduling, billing and customer engagement.

THE CHALLENGE
With a wide range of constantly changing variables affecting waste collection strategies such as container types, waste volumes and types, waste management managers are constantly looking for innovative ways to maximize efficiency, reduce costs and improve quality of service. Existing waste management processes are more reactive and less efficient as waste handlers lack advanced data on materials to be collected on each route.

THE SOLUTION
By leveraging the power of the IoT and M2M communication, waste management organizations can transform their operations. Based on PLAT.ONE’s enterprise-grade IoT/M2M application platform, CITY.ONE offers a smart waste management solution that gives waste management organizations more control over their operations. The platform collects and integrates data from waste bin sensors, vehicle GPS systems, as well as data from other connected city services such as traffic monitors and open data sources, enabling truly optimized and dynamic vehicle route planning.

BENEFITS:
- Increase efficiency, improve service, reduce costs and service disruptions with smart dynamic collection routing based on real time data
- Statistical analyses on historical data to further improve collection strategies at the neighborhood level
- Reduce labor costs associated with manual parking meter monitoring and ticketing
- Better engagement with citizens to more accurately communicate pickup times and enable innovative incentive programs and billing options.

Powerful data management tools including statistical analysis enables smarter decision-making for future collection strategies and tracking for waste reduction campaigns. High security and data privacy protection enables closer engagement with customers at the house level for innovative new services such as personal waste volume monitoring, collection scheduling and notifications and innovative payment options and waste reduction incentives.
BUILDING A BETTER BUILDING

Transform your building into the smart building of the future with CITY.ONE, an Internet of Things (IoT) and Machine-to-Machine (M2M) application platform that offers a smart building management solution. Reduce energy consumption and maintenance costs while improving living conditions with CITY.ONE, a platform that leverages the power of the IoT to connect multiple building systems for ultimate control and efficiency.

THE CHALLENGE

Today’s commercial and residential buildings are ecosystems consisting of multiple systems, each working independently to provide one aspect of a comfortable and safe living space, from lighting and air quality to security and climate control, and are high energy consumers. Building support staff must work constantly to monitor and maintain the various systems while building owners struggle to reduce energy consumption and running costs.

THE SOLUTION

Buildings offer numerous opportunities to reduce operating costs and energy consumption with Internet of Things (IoT) and Machine-to-Machine (M2M) technologies. Based on PLAT.ONE’s enterprise-grade IoT/M2M application platform, CITY.ONE is an application platform designed to turn buildings into smart structures. CITY.ONE links data from multiple IoT-enabled systems to a central control application, allowing centralized and dynamic control and monitoring of such systems as heating/air conditioning, interior and exterior lighting, smoke and fire sensors, plant water sensors, parking, security and surveillance and utility meters. Intelligent camera and building access applications can be used to collect and integrate data on occupant usage patterns.

CITY.ONE can collect, process and store data from multiple systems, to optimize daily operating procedures dynamically in response to occupancy patterns, reducing energy consumption, lowering operating costs and improving security while optimizing living conditions. CITY.ONE works with a heterogeneous range of devices, ideal for smart building applications involving multiple distinct hardware configurations. CITY.ONE’s security features, high scalability and device handling flexibility creates a future-proof solution that can expand with your needs.
SMART URBAN TRANSPORTATION

THE CHALLENGE
As urban populations grow so do the challenges of maintaining safe, efficient and reliable public transportation systems. These complex systems require constant monitoring for system failures, delays, preventative maintenance and security and are high energy consumers. Aging public transportation systems rely on multiple, disconnected systems, resulting in high running costs and complex overall management.

THE SOLUTION
PLAT.ONE has recognized the opportunity for M2M/IoT technologies to help city municipalities better manage transportation systems, reduce costs, improve service quality and offer innovative new services. Based on PLAT.ONE’s proven, enterprise-grade IoT/M2M application, CITY.ONE offers an Intelligent Transportation System which encompasses a broad range of technologies that integrate information from multiple data sources from a single platform, giving transportation managers more control over transportation grids, including more complete views of system status in real time. The platform can integrate data from a wide range of sensors and monitors distributed throughout the transportation infrastructure for increased safety and smarter scheduling and route planning decisions. CITY.ONE’s ability to handle data from a heterogeneous range of devices provides maximum flexibility for integration with retrofit systems or hardware upgrades.

CITY.ONE features advanced alarm functionality for rapid and easy identification of system failures, and system status monitoring for tracking energy consumption and preventative maintenance needs. Big data handling capabilities allow for historical analysis of data for future decision making. By integrating data from other smart city services such as traffic monitors and open data sources such as commuter reports of accidents or outages, CITY.ONE provides for a truly holistic approach to maximizing public transportation efficiency, quality and safety with a single platform that is quick to deploy.

BENEFITS:
- Reduce energy consumption and improve service quality, with dynamic routing and scheduling based on real time data from multiple city services including open data sources
- Improve control and visualization of transportation grid status across multiple transportation systems with alarm features for enhanced safety
- Real-time monitoring of system status for pre-emptive maintenance planning

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