Gemalto Simplifies Cell Tower Management

Monitoring and maintaining the scores of cell towers that dot the world’s landscape is critical for both consumers and companies who have grown increasingly dependent on cellular infrastructure. Gemalto, the world leader in digital security and Machine-to-Machine (M2M) technology, and ConnectM, a leading telecom infrastructure provider, have teamed up to expand the capabilities of Mobile Network Operators (MNOs) and tower companies to remotely monitor cell towers. By quickly deploying world-class technology, tower owners can cost effectively manage and control telecom assets and equipment, which are distributed over a widely dispersed geographic area.

ConnectM and SensorLogic Platform

Maintaining remotely located passive infrastructure is more than an access challenge for field personnel. The remote locations and harsh conditions combine with the logistics of providing power and fuel to ensure equipment continues to operate as required adds to the difficulty. To maintain Service Level Agreements (SLAs), equipment checks and maintenance must be combined with active monitoring to ensure ongoing reliability. ConnectM’s advanced Tower Remote Monitoring Solution (TRMS) and the cloud-based Gemalto Cinterion® SensorLogic™ Application Enablement Platform provide the ability to monitor remote cell towers, track fuel consumption, tower shelter condition, power availability, battery voltage and site access history while reducing the time and expense of field maintenance visits.
Optimized Cell Tower Management

Loss Reduction
Careful monitoring of fuel consumption and power usage allows cell tower operators to easily detect fuel loss, theft and delivery fraud on a site-by-site basis. The SensorLogic solution collects fuel usage data and correlates it across multiple sites to gain an accurate picture of fuel and power consumption for each site. Intelligent analytics reveal when usage patterns exceed estimates helping to identify leaks, delivery errors or loss by theft.

SensorLogic Cloud-Based Platform as a Service (PaaS)
By integrating M2M services into a single cloud-based application enablement platform, the SensorLogic platform can combine data from a variety of devices, assets, and software solutions into one horizontal platform. SensorLogic collects disparate data from a variety of devices and then normalizes and transforms it into actionable business intelligence. Benefits include:

> Supports existing and future devices - both out of the box and custom designs
> Supports existing and new applications, including web clients and mobile (iOS, Android, etc.)
> Easily integrates devices and assets at the edge into backend enterprise systems
> Works with off-the-shelf M2M application to bring solutions to your marketplace quickly

Complete End-to-End Solution
Together, the ConnectM TRMS Solution and the Cinterion SensorLogic Platform delivers a complete end-to-end solution that seamlessly connects tower owners with their field assets offering immediate business value through:

> Increased Tower Uptime
> Reduced Operational Costs
> Higher Asset Utilization Rates
> Improved Location Security
> Greater Power Management

By integrating both monitoring and remote services into cell tower sites, tower operators gain insight and analytics to keep cell towers functioning at peak levels by managing temperature, humidity, door access, video monitoring, diesel generator access/usage, battery voltage and power consumption and more.

Minimal Capital Expenditure
As a hosted service, the SensorLogic PaaS offers a turn-key solution to improve network operations, reduce costs, and improve SLAs. Leveraging ready-made devices, field technicians install sensors and wireless communication systems to cell tower sites. The device-agnostic SensorLogic platform can be configured to connect with virtually any device, enabling the integration of existing devices that report to a single management application providing up-to-the-minute status updates and reports on mission critical assets. The open APIs further enable data management and access to existing software applications for integration to asset management and financial systems.

Gemalto Machine-to-Machine
As the global leader in digital security, Gemalto provides market leading SIM solutions and services to more than 400 global MNOs. Gemalto’s unique portfolio of M2M solutions and services provides carriers and customers from virtually every vertical industry with the confidence to excel in a complex M2M ecosystem. Gemalto’s end-to-end M2M solutions and services include ruggedized Machine Identity Modules (MIMs), Cinterion M2M Wireless Modules, On Demand Secure Provisioning Services, Security Consulting and the SensorLogic M2M Application Enablement Platform.

Visit www.gemalto.com/m2m for more information and contact details.

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