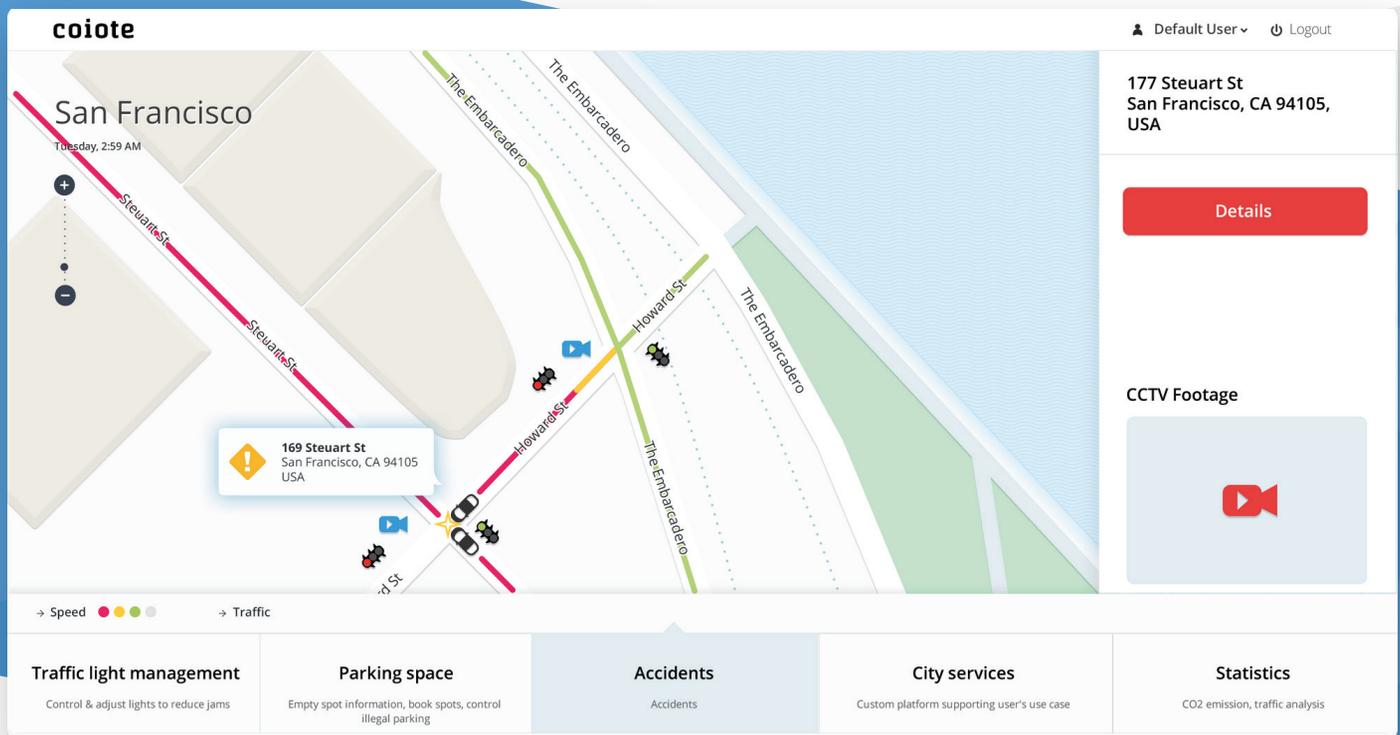


Enabling the IoT paradigm in the connected world requires robust and adaptive tools for device management, monitoring, coordination and troubleshooting. AVSystem Coiote is a perfect fit for current market needs bringing a comprehensive set of features for end-to-end management of constrained and unconstrained devices. Based on open industry standards, Coiote provides an ecosystem of advanced functions which enable fast delivery, easy maintenance and efficient monitoring of IoT services.



*Highly scalable, flexible,
well-designed business solution*

Coiote Description

AVSystem Coiote Platform supports numerous Internet of Things use cases such as: Remote Patient Monitoring, Smart Home appliances, Smart Meters and Smart City management. Using Coiote,

dynamically adjust the traffic lights for immediate congestion reduction, control and reserve parking spaces or aid emergency services for much faster accident reaction. Coiote also shows numerous

statistics such as CO2 emission or mains overload and helps in deep analysis. All of these using secure DTLS channels & LWM2M.

Professionalism you need. Solutions you desire. Flexibility you expect.

Key Features

- › Support of multiple M2M protocols: OMA LWM2M, MQTT, XMPP, TR-069, OMA-DM
- › Extended multi-tenancy module for logical separation of device management domains
- › Event-based task triggering and event aggregation
- › Flexible dynamic grouping of devices with flexible migration rules
- › REST API for easy integration with external systems and applications
- › Extensive business intelligence module for pro-active alerting and Big Data analysis
- › XML workflow engine for device management and actions coordination
- › HA-enabled clustered architecture with multiple active nodes for horizontal scalability
- › Data model virtualization which unifies device handling

Benefits

- › Seamless integration with state-of-the-art industry standards
- › Simplified deployment and management of new M2M services
- › Seamless introduction of complex orchestration policies
- › Easy coordination of collective device behavior
- › Fast development of new applications taking advantage of M2M connectivity
- › Collecting and analyzing data from heterogeneous population of devices (sensors, effectors, access devices, connected cars, smart home hubs and smart meters) for pro-active detection of problems and bottlenecks in IoT environment
- › Easy creation of complex workflows which coordinate actions on different devices and enable inter-device collaboration
- › One reliable ecosystem for end-to-end service management and device orchestration spanning over different industries
- › Managing different types of devices in the same way

Monitoring and data analysis

AVSystem Coiote enables analyzing large amounts of service status data obtained from devices via frequent parameter polling or by collecting asynchronous events. It manages end-to-end data flow from collecting fine-grained data samples to KPI computation and alerts generation. Coiote provides a set of monitoring plugins including plugins specific to M2M use cases such as Smart Home, Smart Metering, Automotive, E-Health, ATMs, and Smart Street Lights. Each plugin comes with a set of parameterized alerts, group-specific visualizations, device-specific visualizations, context-specific KPIs and report templates. Group-specific statistics, aggregates, KPIs and charts are computed for each group hierarchy existing in the system. Coiote also includes robust tools for event correlation, group comparison, trend prediction, outlier detection and map visualization.

LWM2M

Lightweight Machine to Machine (LWM2M) is an application layer protocol specified by the Open Mobile Alliance (OMA) and designed to provide a communication channel and set of interfaces between constrained devices and the management server. It aggregates several well-established technologies (UDP, DTLS, CoAP) into a protocol stack which enables reliable device management and monitoring all within minimal consumption of network resources. LWM2M is a next generation protocol widely adopted by different industries for Internet of Things applications.

AVSystem is a member of the Open Mobile Alliance and the vendor of LWM2M library for device manufacturers. The Coiote fully supports LWM2M as one of the device management protocols.

Device Management and Orchestration

Coordinating the behavior of different devices in heterogenic IoT environments requires advanced tools for dynamic grouping, event based action triggering, custom workflow execution and event correlation. AVSystem Coiote, with numerous high-level features for controlling

device collaboration, offers much more than simple device management. Based on easy-to-use wizards and XML tasks which can be defined using visual editor, the platform enables efficient orchestration of IoT devices by enforcing collective behavior of different device groups or

individual devices. The flexibility of the workflow engine together with inbuilt event bus allow correlating external and internal events and conditional execution of actions.

Our Selected Customers



Professionalism you need. Solutions you desire. Flexibility you expect.

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