AERIS IoT SERVICES:
A COMPLETE IoT SOLUTION

The Aeris IoT Services platform is a comprehensive IoT solution geared to enhance revenue, create new services and business models, and provide a distinct market differentiation, creating distance between your company and the competitors.

From Insight to Improvements:
Aeris IoT Services Platform

Aeris IoT Services provides an end-to-end modular technology platform that enables customers to make the pivotal change from unconnected product to connected services offerings. This journey is a challenging and complex process and Aeris has the knowledge, experience, and technology to implement, accelerate, and optimize these services, which include connectivity, storage, analytics, and service layer functionality.

Things and Data

In spite of the fact that IoT refers to things, the IoT is about data. Lots and lots of data. Connecting 'things' is just a means to an end — greater intelligence. And in-depth knowledge that comes from business-specific data can provide previously unseen, granular visibility into all aspects of a supply chain, a fleet, or a collection of things (solar panels, water pumps, medical devices). Collecting all that information, however, is just one step of a comprehensive solution. The solution itself is comprised of several key elements.

AERIS SOLUTIONS

Locate and Assess:
Aeris IoT Asset Management

Aeris IoT Asset Management is the enterprise solution for connecting assets, people, and operations. It primarily is the asset analytics for IoT connectivity aimed at OEMs, fleet rental, leasing, and finance organizations. For example, with medical devices or medical adherence, key features include, but are not limited to, account settings; asset workflow; location track and trace capabilities; device performance and behavior; usage and efficiency; alert management; predictive and preemptive remote device diagnostic maintenance; and overall asset analytics.
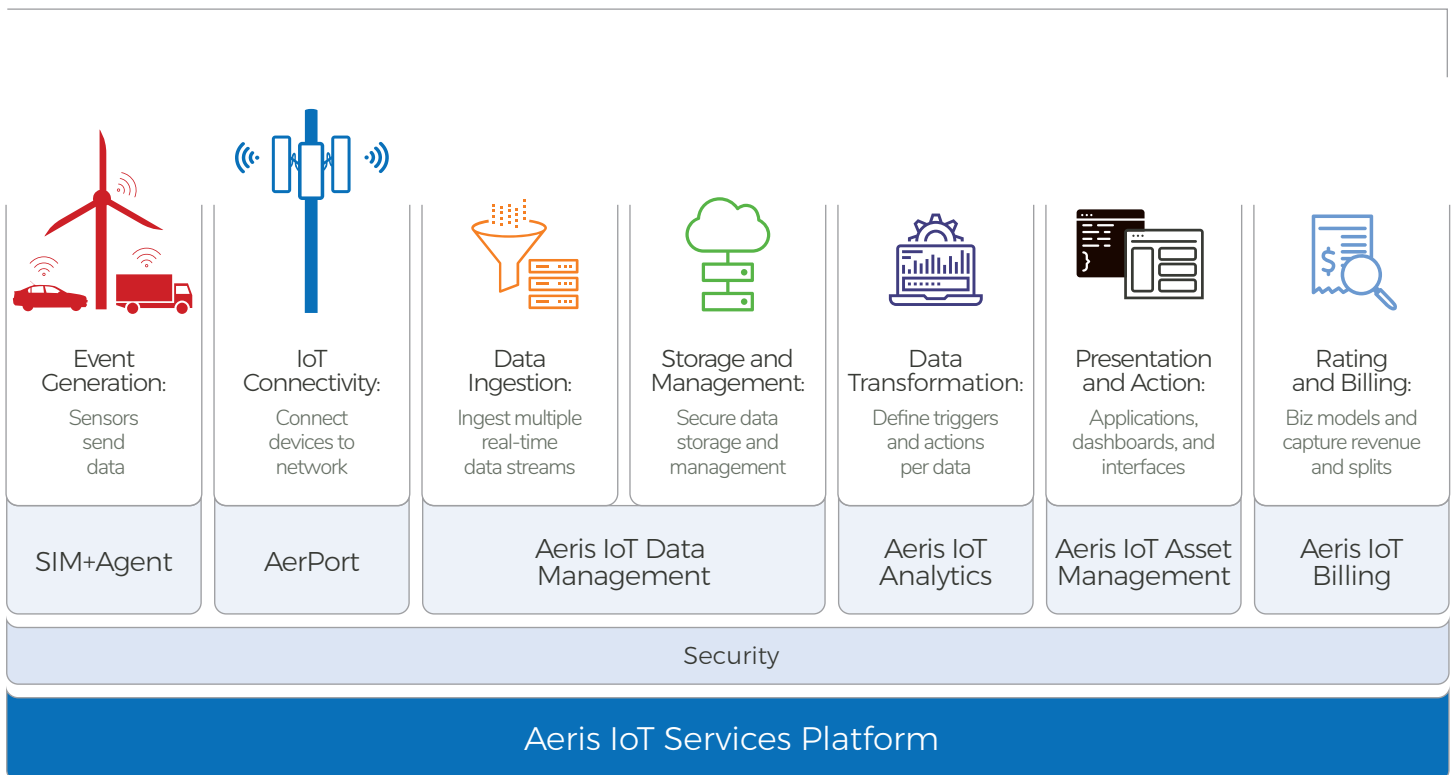
Previously, aftermarket solutions for tracking management existed but none could customize specifically for OEM needs. By leveraging the Aeris IoT Asset Management platform, tracking data can provide real-time alerts and corrective actions in seconds, thereby avoiding delays when sub-optimal performance is detected.

Extending the Ownership Experience:
Aeris IoT Automotive Services

The Aeris IoT Automotive Services platform enables automakers to customize connected vehicle solutions in order to create a better driving and ownership experience.

Providing complete automotive services—as well as a delivery platform—enable secure, embedded telematics to easily integrate and connect with the vehicle, allowing for full account creation and management services. To further ease the process, notifications and updates can be delivered remotely via a Smartphone. The Aeris IoT Automotive solution includes a control client in the vehicle that obtains location, manages communications, and handles services delivery; a services catalog, with an extensive set of micro-services; an over-the-air (OTA) manager that updates software in the vehicle remotely, adding new services, patching security bugs, and more; API gateways that easily connect to OEM systems or municipal systems; and easy integration with third-party systems.

AERIS IoT SERVICES: FROM DEVICE TO APPLICATION

Event Generation:	IoT Connectivity:	Data Ingestion:	Storage and Management:	Data Transformation:	Presentation and Action:	Rating and Billing:
Sensors send data	Connect devices to network	Ingest multiple real-time data streams	Secure data storage and management	Define triggers and actions per data	Applications, dashboards, and interfaces	Biz models and capture revenue and splits
SIM+Agent	AerPort	Aeris IoT Data Management		Aeris IoT Analytics	Aeris IoT Asset Management	Aeris IoT Billing

Security

Aeris IoT Services Platform

PLATFORM SERVICES

Collect and Control in the Cloud: Aeris IoT Data Management

Aeris IoT Data Management, the Aeris cloud platform, provides the foundation to store and manage data in a highly scalable and secure environment. Built to handle the most demanding IoT / M2M applications, Aeris IoT Data Management enables your business to seamlessly scale up to millions of devices. With an architecture designed for reliability, Aeris ensures your data is securely collected and processed without delays or costly outages. The software-as-a-service (SaaS) based model and pay-as-you grow pricing plan requires no upfront infrastructure investment. And cost per device decreases as your device deployment footprint increases.

Real-Time Data Insights: Aeris IoT Analytics

While Aeris AerPort deals with device management, such as location and usage, Aeris IoT Analytics helps companies understand the data collected by these devices, which can lead to a decrease in business expenditures, reduction in equipment outages and downtime, and improvements in business operations.

The analytics platform applies business rules to the data stored in the cloud. Using business triggers and actions, Aeris IoT Analytics then is used to find insights. From there, the findings can be presented immediately through the web, mobile apps, and APIs.

CONNECTIVITY

Global Coverage: Aeris IoT Connectivity

Aeris is built for IoT, with an operational reach in more than 190 countries, managing a total of more than one billion IoT events per day. And, unlike other providers, the Aeris solution is carrier agnostic and pre-configured, with certified hardware that provides GSM, CDMA, and LTE connectivity.

Aeris IoT Connectivity enables data acquisition across a wide range of ingestion methods, such as cellular, Wi-Fi, additional non-cellular technologies, and support for APIs, including Restful APIs, MQTT, CoAP, or even custom APIs.

Aeris makes global deployments easier, with international coverage and roaming capabilities, local language support, 24x7 device monitoring and management, and the ability to administer devices from any location.

Device Monitoring and Management Portal: Aeris AerPort

Aeris AerPort™ provides a single portal for managing global deployments, including device management oversight, provisioning, billing activation, VPN, location and tracking capabilities, suspending or canceling devices, and access to customer support. Traffic management retrieves real-time, detailed device information to analyze performance and evaluate overall cost per device and per solution. The smart alerts allow businesses to keep tabs on devices and manage billing overages and anomalies, thereby keeping costs in sight and under control.

Use Cases

AUTOMOTIVE CONNECTED VEHICLE

HEALTHCARE

TELEMATICS

WIRELESS POS

FIXED ASSETS

UTILITIES

DIFFERENTIATORS

Flexible, Usage-Based Plans: Aeris IoT Billing

Aeris IoT Billing is designed specifically for device lifecycle billing management (during activation, suspension, etc.) and supports a myriad of rollover and pooling policies. Additionally, it is flexible enough to support multiple business models, such as fixed and variable billing services measuring remote asset utilization and feature sets. Customers can make automated rate plan adjustments based on real-time information of what is happening on the network. For example, with Aeris IoT Billing, it is easy to automatically move a device to a high data volume rate plan based upon a pre-determined usage threshold. Running in the cloud and supporting nearly limitless scalability, Aeris IoT Billing is designed for the needs of the IoT / M2M market now and in the future.

Securing the System

Securing an IoT platform requires an end-to-end approach, from physical devices and sensors to data connections, to host systems, to the services and data stored in the cloud.

And while security risks can never be completely eliminated, Aeris has the tools and expertise to mitigate these risks with the responsible development of IoT applications. Aeris believes that IoT needs security at the design stage, and not as an afterthought.

Deriving Value from One Solution

Built for IoT and road tested at scale, Aeris IoT Services helps organizations, big and small, capture and use data from thousands of disparate endpoints and devices, at unprecedented volumes and speed, to identify changes and respond proactively. Analysts believe this increased access to data will drive a new type of industrial revolution propelled by highly accurate, real-time analysis, alerts, and automated decisions and actions. This, in turn, will provide greater operational efficiencies, improved supply chain management, new services and business models, and real cost savings while dramatically improving the overall customer experience.

ABOUT AERIS:

Aeris is a technology partner with a proven history of helping companies unlock value through IoT. For more than a decade, we've powered critical projects for some of the most demanding customers of IoT services today. We strive to fundamentally improve their businesses by dramatically reducing costs, accelerating time-to-market, and enabling new revenue streams. Built from the ground up for IoT and road tested at scale, Aeris IoT Services are based on the broadest technology stack in the industry, spanning connectivity up to vertical solutions. As veterans of the industry, we know that implementing an IoT solution can be complex, and we pride ourselves on making it simpler.

Visit **www.aeris.com** or follow us on Twitter **@AerisM2M** to learn how we can inspire you to create new business models and to participate in the revolution of the Internet of Things.

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