INTELLIGENT IOT PLATFORM

Mavenir's Intelligent IoT Platform (IIoTP) provides an easy-to-use and robust platform that applies artificial intelligence (AI) to data streams from IoT sensors for analyzing and generating alerts for actionable insights. The comprehensive solution is built on cloud-native frameworks and leverages recent technology advancements in 5G, Edge Computing and AI to unleash the potential of new IoT-based use cases across industries.
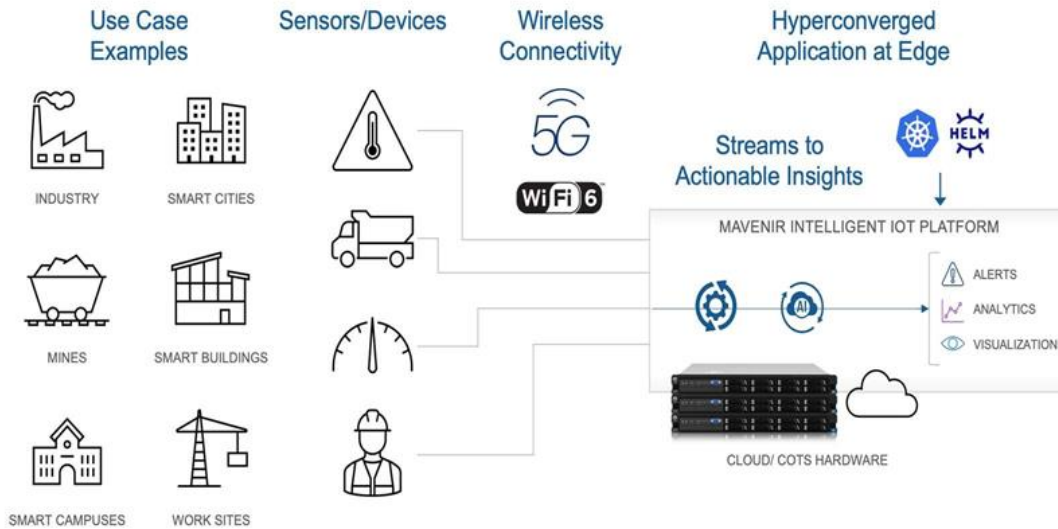

Figure 1: Mavenir's Intelligent IoT Platform

A Comprehensive End-to-End IoT Solution with Low Latency
The Intelligent IoT Platform has been designed to deliver a solution that ensures quick time to value and a strong return on investment. The core capabilities include:

Ease of use
The platform offers an intuitive point-and-click user interface with insights plotted on preconfigured dashboards to quickly visualize and understand patterns and trends. Rules can be specified to generate alerts and deliver emails, text messages, or MQTT events on message servers. The interface has been designed for ease of use by business users such as floor supervisors at manufacturing plants, municipal authorities for smart cities, worksite managers at mines, and building managers of smart buildings.

Rapid onboarding of a variety of sensors
IIoTP offers rapid onboarding and deployment of sensors, simple configuring of rules specific to a particular type of sensor, and timely actionable insights. In addition, sensors that support MQTT can be easily integrated irrespective of the communication technology (e.g., 5G, WiFi, LoRA, SigFox, Bluetooth, or Zigbee).

IIOTP USE CASES

Manufacturing – Asset monitoring, predictive maintenance, worker safety

Smart Cities & Smart Campuses – Environmental monitoring

Smart Buildings – Efficient building management

Mining & Construction – Worker safety, Equipment monitoring

Unified dashboards and integration with other systems of engagement

Alerts from other applications such as Intelligent Video Analytics can also be integrated and shown on a unified dashboard. Message brokers can be used to orchestrate communication of detected insights through Production Line Controllers, for instance, on manufacturing floors. Message brokers are based on MQTT protocols where events can be published, and clients can subscribe to receive and react to them. This flexibility allows greater automation and faster realization of end-to-end use cases.

Deploy on the cloud and the edge

Built on a cloud-native framework, Mavenir's Intelligent IoT Platform can be deployed on any cloud type based on the performance requirements. The data processing and insight generation can happen on the edge to achieve low latency, and the insights can be sent to the public cloud for storage and long-term analysis. Plus, the application is delivered as containerized microservices that expand to scale, ensure high availability of services, and support a variety of deployments.

Why Mavenir for IoT Analytics

Large number of sensors can be easily integrated

Cloud-native design with microservice architecture

Unified insights from multiple applications for E2E use case realization

Delivers low latency and real-time insights

Intuitive user interface for ease of use

Bundled with 5G networks

About Mavenir

Mavenir is building the future of networks and pioneering advanced technology, focusing on the vision of a single, software-based automated network that runs on any cloud. As the industry's only end-to-end, cloud-native network software provider, Mavenir is transforming the way the world connects, accelerating software network transformation for 250+ Communications Service Providers in over 120 countries, which serve more than 50% of the world's subscribers.

For more on Mavenir Solutions, please visit www.mavenir.com