



SOLUTION BRIEF

IOT BUSINESS MANAGEMENT SOLUTION

The era of 5G and IoT

Beyond simply delivering wholesale connectivity, communication service providers (CSPs) are now evolving with the industry to realize the benefits of IoT and meet the market demand. Recognizing IoT is critical for future revenue growth, CSPs understand the need to assess their current IoT capabilities and evolve their role and offerings to enable new sustainable IoT revenue streams and help global enterprises launch their IoT solutions. Figure 1 shows how they can now move from simply being connectivity enablers to providing platforms that support the business needs of IoT use cases and further build an IoT ecosystem for creating digital value systems.

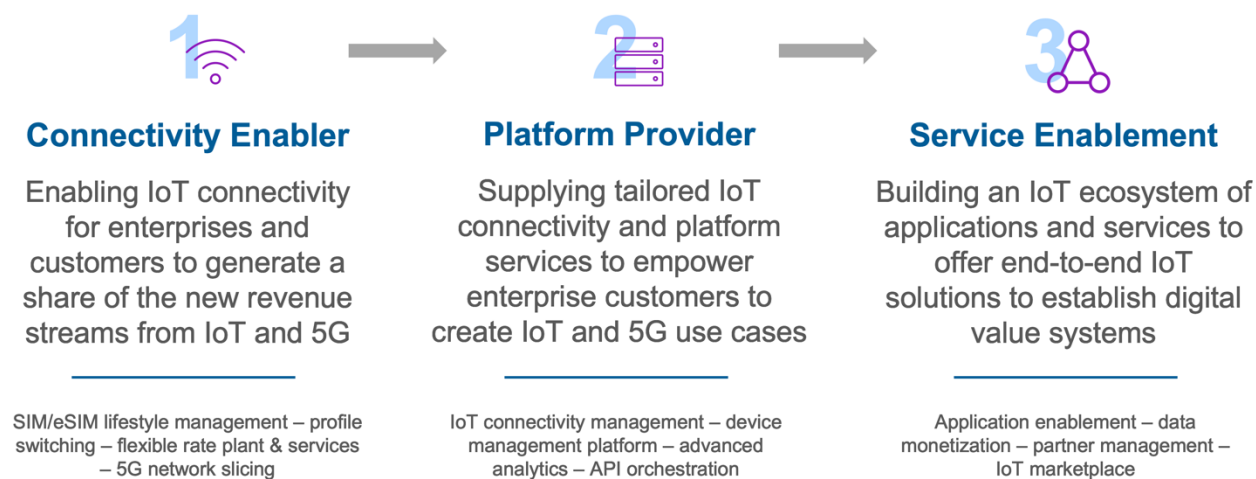


Figure 1

To successfully navigate through their IoT journey, CSPs must overcome complex industry challenges to ensure the business management portion of IoT systems is future-proof.



Digitizing legacy support system infrastructure to adapt to an IoT platform architecture and 5G



Managing complex commercial carrier relationships, regional privacy, and regulatory compliances



Building a unified platform aimed at connectivity, device, and application management for quick time to market



Extending global IoT connectivity to existing customers for sustainable IoT revenue streams



Enabling API-based access to an end-to-end platform for enterprise and 3rd party consumption



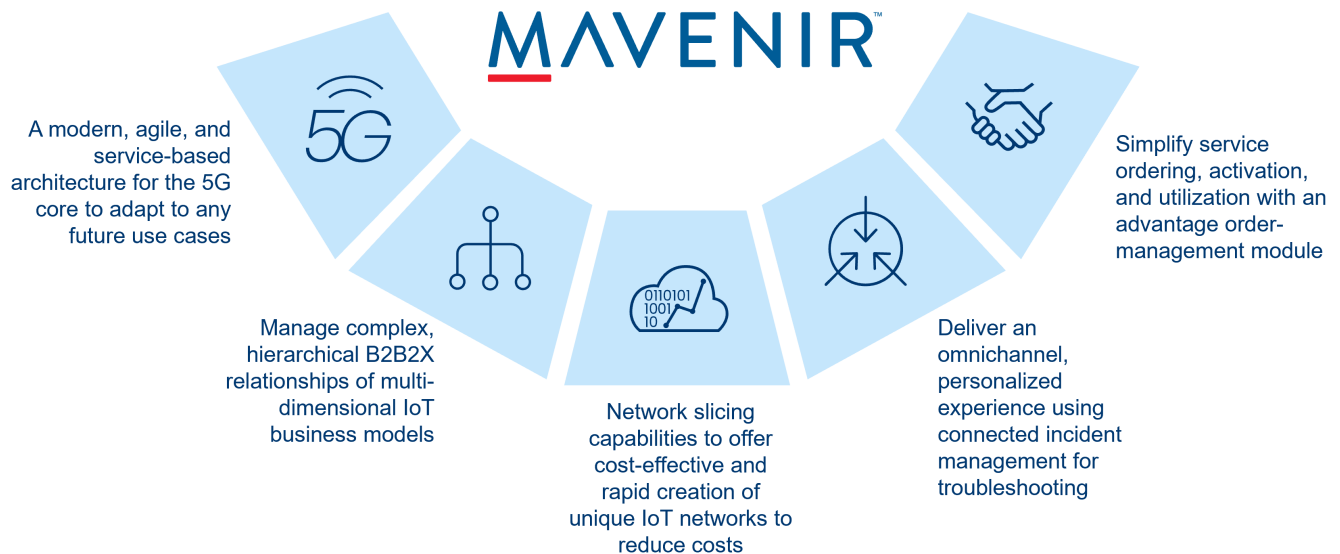
Supporting multi-technology IoT solutions and building an ecosystem of specialized vertical solutions



A comprehensive IoT business management solution for market differentiation

Prepare for the influx of future 5G and IoT use cases with Mavenir's BSS platform, integrated for IoT and 5G core capabilities. The platform extends IoT connectivity, device management, and application management capabilities to enable CSPs to build an IoT ecosystem of applications and services for generating lasting revenues from IoT.

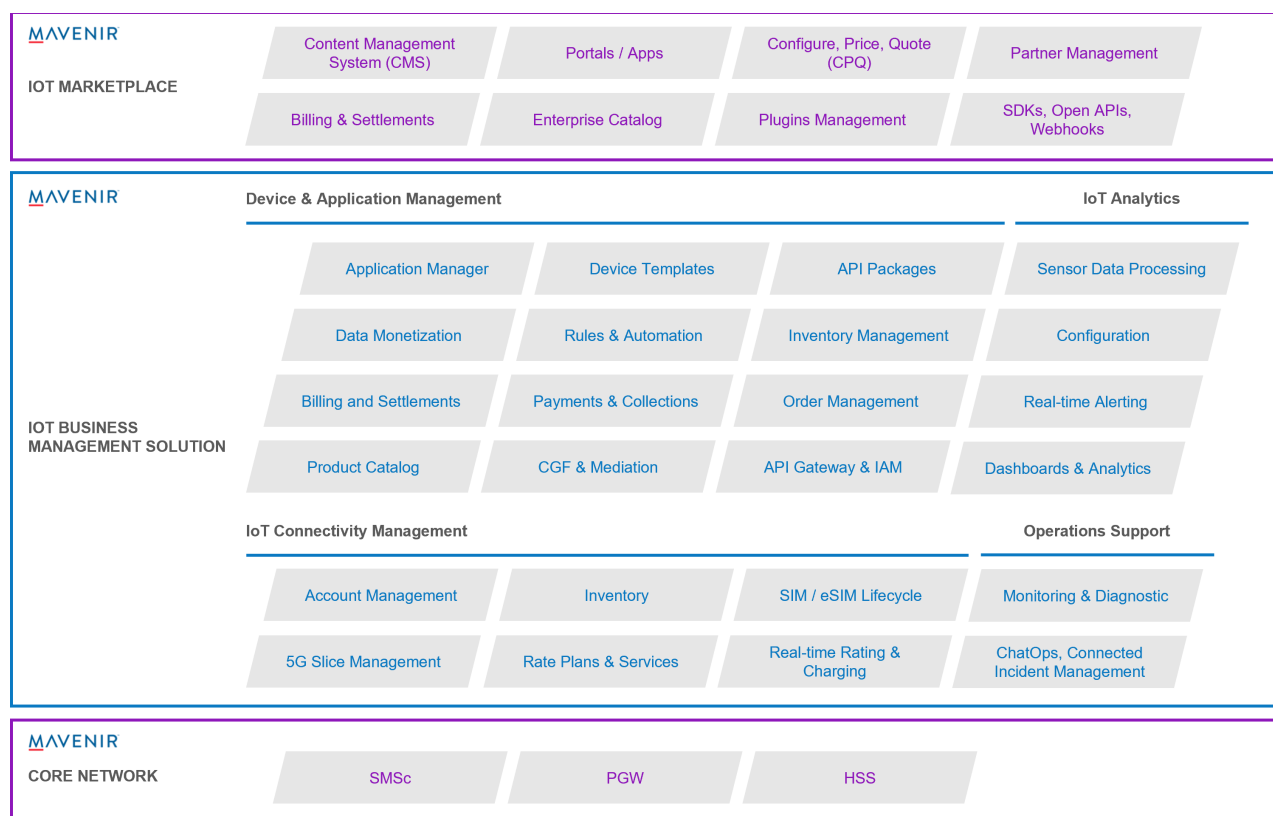
Mavenir's future-proof IoT Business Management solution makes it easy for CSPs to onboard IoT device OEMs, 3rd party service providers, and enterprise partners, enabling a multi-vertical marketplace of IoT solutions and services for their customers.





IoT business management solution

Mavenir provides future-proof technologies and frameworks to help CSPs monetize their network investment by addressing modern business cases for IoT and network slicing with an open and adaptable solution. The IoT solution is completely cloud-native, supports multiple connectivity technologies, and provides a unified model for orchestration of any IoT scenario. Coupled with comprehensive device and application management features, Mavenir enables an end-to-end business management service for CSPs to meet the complex demands of IoT customers.



Mavenir IoT Business Management Solution Modules
 Optional Mavenir Modules

Figure 2: Mavenir IoT Business Management Solution

The solution diagram in Figure 2 highlights Mavenir’s IoT Business Management Solution with its end-to-end capabilities to empower CSPs, OEM vendors, and application developers. For CSPs looking to launch new IoT services or replace their existing networks, Mavenir can offer state-of-the-art core network capabilities. Mavenir layers an optional Marketplace to help CSPs deliver completely digital seller and buyer experiences while handling more use cases.



Solution benefits

MACH

**M: Microservices,
A: API-First, C: Cloud-Native,
H: Headless**

The industry's only MACH-platform, designed for the telecommunication industry future, using a rich library of microservices and open APIs



No-code / low-code

Fast-track operations with a no-code approach. Design advanced workflows with UI-driven journey builders and more



Cloud agnostic

Cloud-agnostic platform ensuring flexibility, scalability, and native-compliance for quick time to market of IoT services



Multi-tenancy

Advanced account management with multi-tenancy across product, subscription, configuration, and deployment



Risk-free experimentation

Stay lean, react quickly to market changes, and lower the total cost of ownership



Supports multiple technologies

Supports multiple wired/wireless technologies like Fixed Line, Sigfox, LoRa, NB-IoT, CAT-M1



Online metering and charging

Prevent revenue leakage with real-time charging of IoT devices for service usage



Billing

Intelligent split billing based on service, APN, and URL filtering with analytics models and probes



Unified live troubleshooting

Integration with OSS/CEM and LBS systems with real-time and live service troubleshooting



Real-time low latency analytics of sensors

Designed with cloud-native principles to scale, ready for deployment on any cloud, including edge and public clouds



Unified Insights from multiple applications

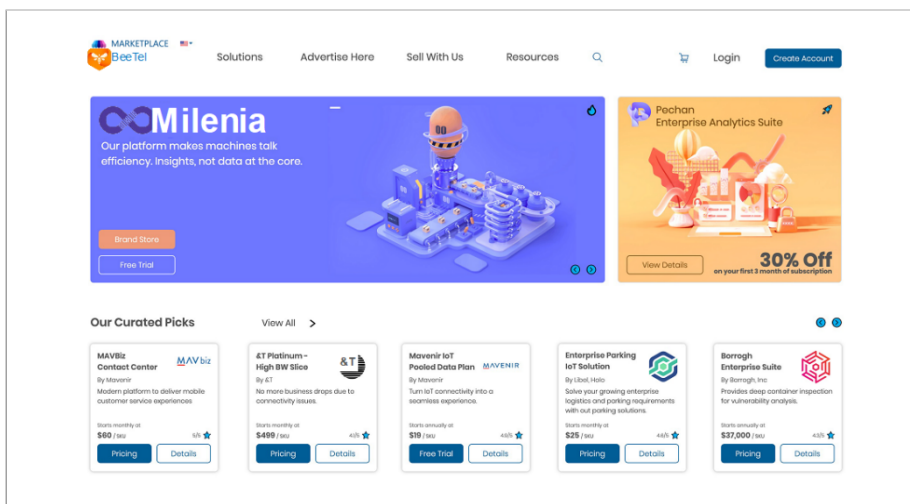
Multiple AI applications are available on a single platform allowing sensor fusion and unified insights



Add value with a Marketplace

Take the IoT business management environment a step further. Easily create a marketplace experience by bundling cross-partner IoT products and services into unified offerings with flexible growth models that help build enhanced customer relationships as new IoT solutions are delivered to the market at scale.

Constantly evolving, the Marketplace is a dynamic model, and Mavenir's Marketplace platform, built on an open architecture, is easy to customize with a CSP's in-house DevOps practice.



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 our website at www.mavenir.com