



SOLUTION BRIEF

MAVENIR'S CLOUD-NATIVE IMS

Mavenir's Cloud-Native IMS enables communications service providers (CSPs) to evolve their existing voice and messaging services as they transition to the 5G era. The solution simplifies the evolution of voice and messaging services from 2G to 5G by ensuring a consistent user experience across technology generations. It is purpose-built for fully automated cloud environments, allowing CSPs to operate with web-scale agility.

Cloud-Native IMS Solution Highlights

- > **Cloud-Native Architecture:** Each network function (NF) is decomposed into separate stateless microservices that are individually scalable. A common session data layer stores stateful information, allowing registration and session information from a failed microservice to be retrieved by any other available microservice.
- > **Any Cloud:** The solution is deployable as virtual network functions (VNF) on OpenStack or container network functions (CNF) on Kubernetes, in both private and public clouds without sacrificing feature parity.
- > **Automation:** Network functions are delivered as artifacts to a continuous integration and continuous delivery (CI/CD) repository, enabling automation pipelines and can also integrate into observability frameworks using Kafka, Prometheus, and Fluent Bit.
- > **Telco Grade:** Offers sophisticated telecommunications industry operational capabilities such as weighted load balancing, network-level coordinated overload controls, throttling, and graceful shutdown as well as a full suite of service assurance metrics.
- > **Multiple Services:** IMS voice services span mobile, fixed residential, and business segments. They support standard SMS and text messaging as well as rich communication services (RCS) and services on multiple devices, such as smartwatches, and can deliver services over WiFi networks.





- > **Multiple Generations:** Supports voice and messaging over both 4G (VoLTE) and 5G (VoNR) packet and access networks as well as backward compatibility with full 2G/3G voice and messaging service feature parity.
- > **Service Innovation:** Proprietary services, not defined in standards, can be developed, to meet new market use cases and differentiate from competitors using this platform for service innovation.



Collaborating with AWS

Mavenir's collaboration with AWS allows CSPs to deploy Mavenir's market-leading Cloud-Native IMS with AWS's computing infrastructure, state-of-the-art container deployment and management technologies, and big data analytics services.

By combining the IMS cloud-native expertise of Mavenir with the global scale of AWS, the partnership is set to meet CSP challenges for agility, scale, and resiliency well into the future.



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