




# Red Hat and ng-voice partner to offer innovative voice solutions

“After 12 years of working on the legacy HW-native IMS and VNF-based IMS, I am glad to see a true cloud-native IMS performing very well over the public cloud. We were very impressed by the speed of deployment, excellent resilience, and high flexibility of ng-voice IMS. More importantly, it is the willingness and capability of the ng-voice team to quickly adjust to our environment and deliver our custom requirements. This is a valuable differentiation from the incumbent vendors.”

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## Challenges addressed with a cloud-native IMS joint offering

The modern telecommunications (telco) industry is undergoing a significant transformation, propelled by shifts in technology and increasing demands for flexibility, scalability, reduced total cost of ownership (TCO), and overall operational efficiency. The combination of ng-voice’s cloud-native IP multimedia subsystem (IMS) hosted on Red Hat® OpenShift® offers a unique solution that directly addresses these trends.

### 1. Technological evolution and industry demands

- ▶ *Enhanced voice and Internet of Things (IoT) capabilities, including full-featured IMS:* Providing a complete set of IP multimedia services, this joint solution supports critical applications.
- ▶ *Full-featured voice services:* Carrier-grade voice via Voice over Long-Term Evolution (VoLTE) and Voice over New Radio (VoNR) for greenfield and traditional replacement and P5G/IoT.
- ▶ *Advanced IoT solutions:* This includes voice solutions tailored for deployment in IoT and private 4G or 5G environments designed to deliver highly scalable solutions on demand while efficiently managing resources.
- ▶ *Cloud-native:* By using cloud-native technologies in a containerized, microservices-based architecture, the joint solution ensures uninterrupted scalability, agility, resilience, and swift time to market while reducing complexity and aligning with industry trends toward more flexible infrastructure.
- ▶ *Platform-agnostic and deployable anywhere:* With Red Hat OpenShift, the ability to deploy on any cloud infrastructure and various deployment models is possible. This flexibility caters to diverse organizational needs, including greenfield projects, new use cases, and carrier-grade voice conventional replacements.

### 2. Innovation, cost efficiency, and speed to market

- ▶ *Innovation and cost savings:* By using a microservices-based architecture, the joint solution optimizes resource allocation, which results in a small boot-up latency and greatly lowers the TCO—up to 80% less footprint than current deployments.
- ▶ *Speed to market:* With the cap-n-grow model, businesses can scale their operations, accelerating time to market for new services in less time.

## Expanded use cases and benefits

### 1. Primary IMS deployment

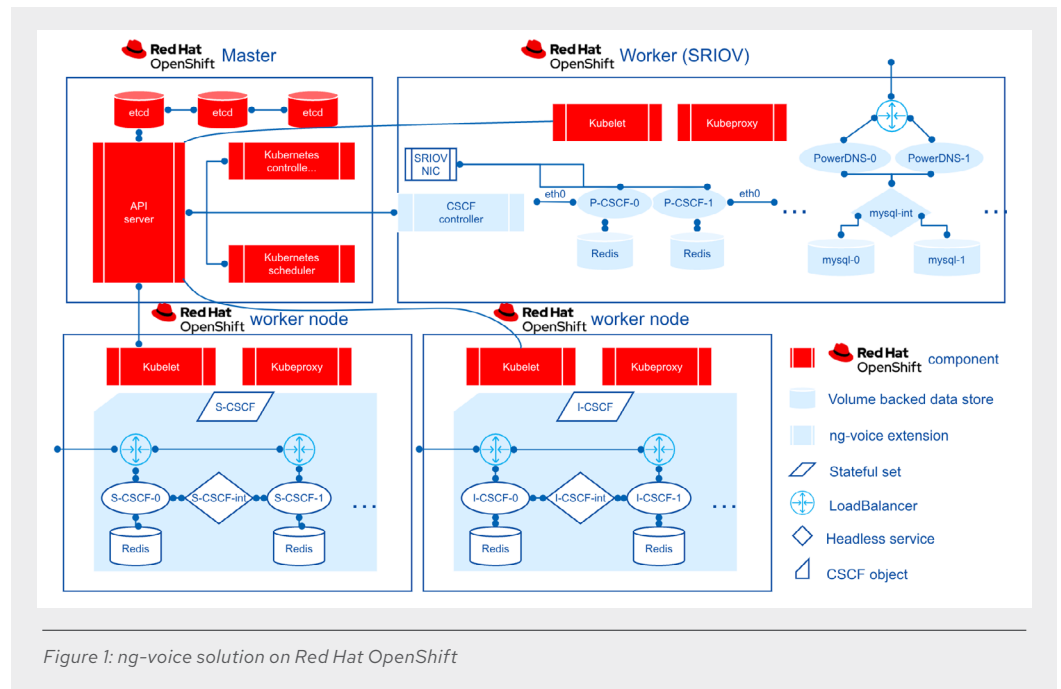
- ▶ *Full-featured solution optimized for all operators:* ng-voice IMS acts as the primary IMS, satisfying all functional and nonfunctional requirements for both mobile network operators (MNOs) and mobile virtual network operators (MVNOs). The full feature set serves operators of all sizes, from tier-1 MNOs to MVNE groups helping many small operators, showcasing incredible versatility and allowing flexibility and a broad reach.

## 2. Dual IMS deployments

- ▶ **Backup and expansion capability:** This deployment allows ng-voice IMS to run parallel to the existing or primary IMS for various use cases like backup capacity during upgrades, emergency failover during blackouts, and expansion capacity to accommodate growth in VoLTE-enabled devices.
- ▶ **Interoperability:** The capability to integrate with many vendors and ensure full standard compliance allows ng-voice IMS to fully interwork with existing IMS components, promoting effortless connectivity and minimized downtimes.

## 3. Dedicated use case deployment

- ▶ **Specialized in IoT environments and private networks:** ng-voice IMS addresses specific requirements in contexts like emergency calling in cars and hospital communication systems. Its highly scalable and resource efficiency make it suitable for IoT traffic profiles, as it can efficiently scale on demand without consuming excessive resources.



### About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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