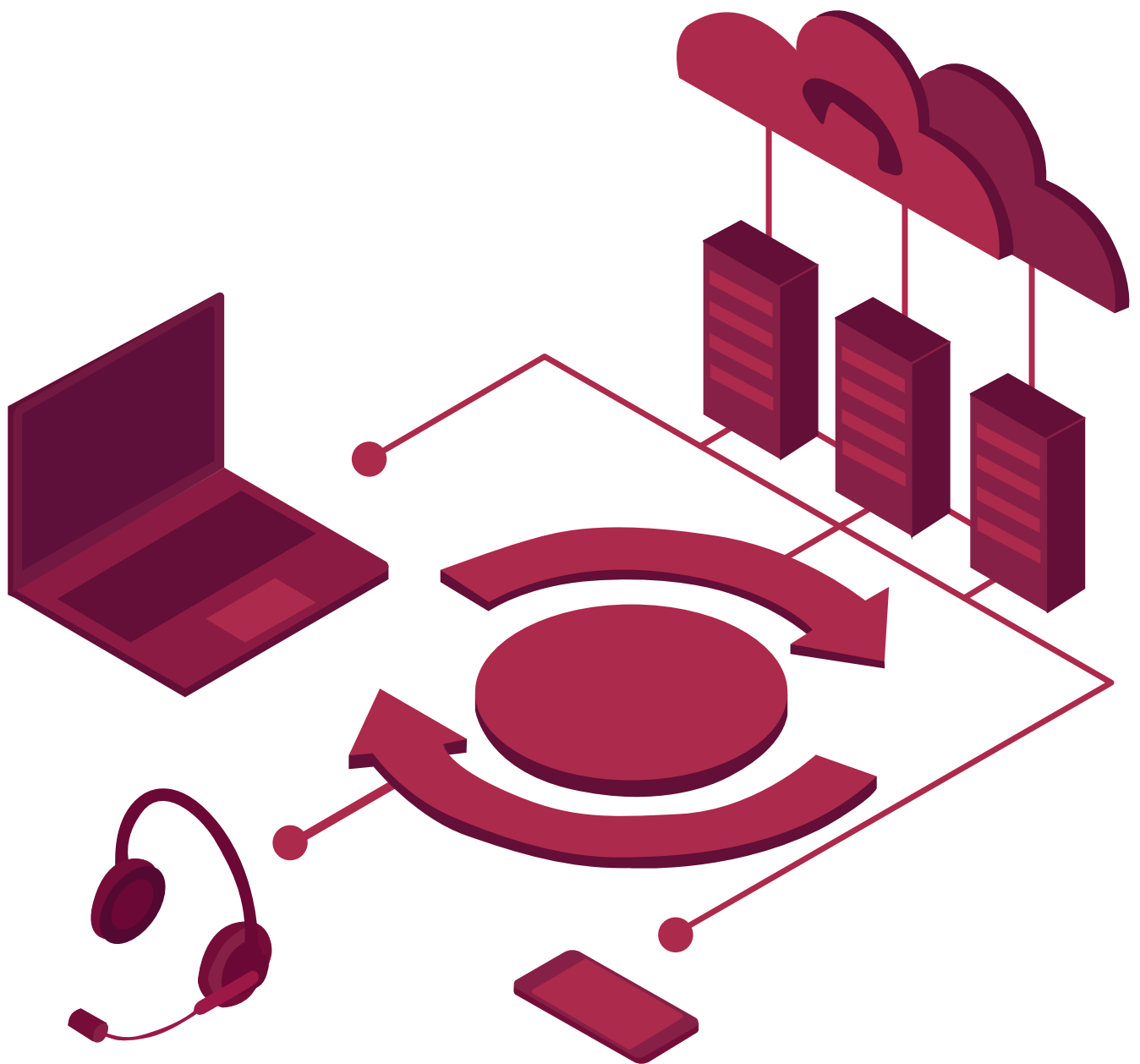


Athonet IMS

The Athonet platform for
IP Multimedia Subsystem

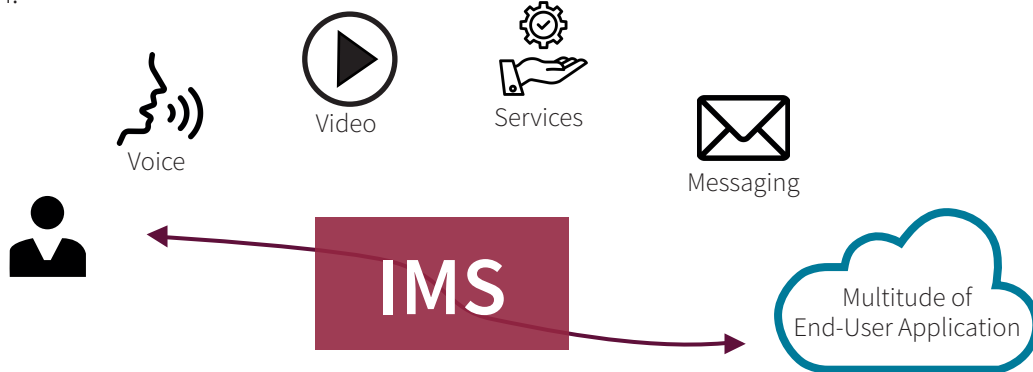


Simplest, Intuitive and Comprehensive Solution

Athonet IMS

The Athonet platform for IP Multimedia Subsystem

Athonet IMS (IP Multimedia Subsystem) is the platform, created by Athonet, a Hewlett Packard Enterprise acquisition, that provides native voice and video communication services to LTE or 5G terminals. It can be integrated with mission critical push-to-talk applications or with enterprise IP-PBX for public network interconnection.



Effective Communication Services



Enhanced Resilience



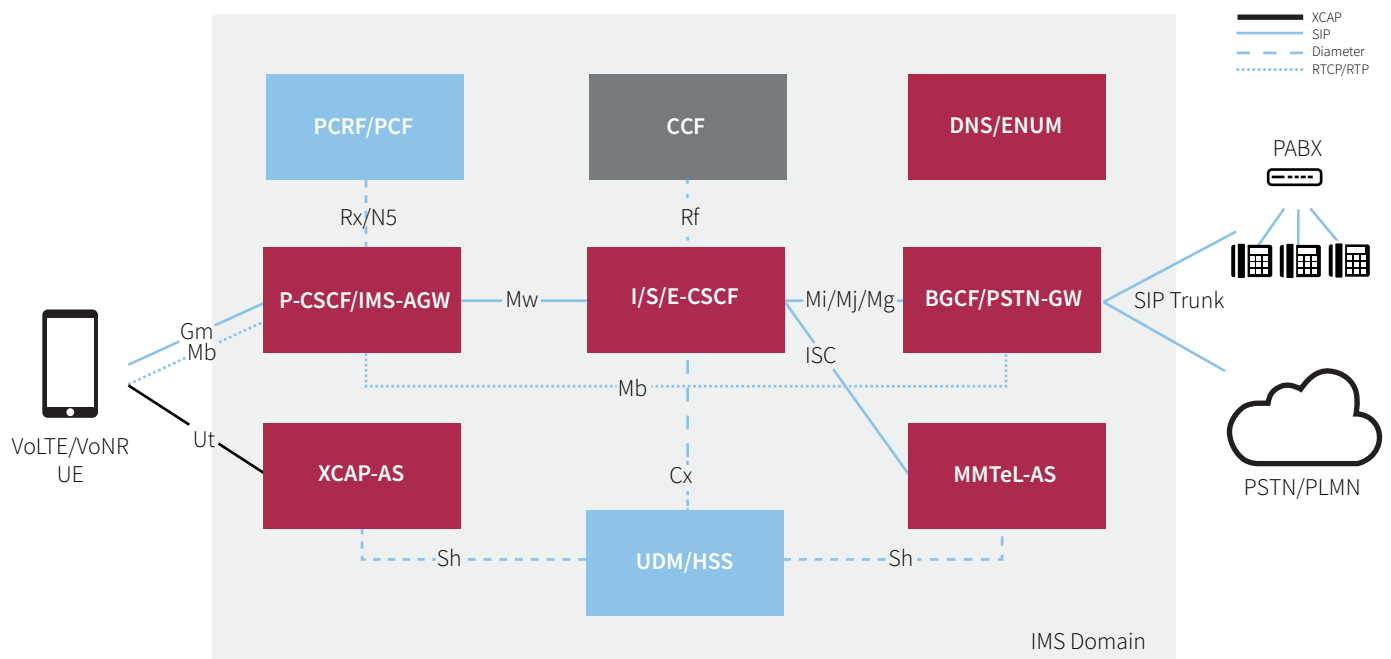
Efficient Operation & Maintenance



Reduced Deployment Time

The IMS Solution

The Athonet IMS is a value added platform for vertical industries, it is multi-access, multi-service, multi-device and multi-networks, it follows the best security practice for the subscriber authentication and it can be integrated in any IT context for operation and maintenance activity.



Athonet IMS

The Athonet platform for IP Multimedia Subsystem

Athonet IMS Functions and Roles

Session Border Controller (SBC)

Network Function at the access side of IMS network.

Call Session Control Function (CSCF)

IMS Core function handling the session control, authentication, routing, registration and session establishing.

Breakout Gateway Control Function (BGCF)

It provides routing functionalities between IMS and the other interconnected network like CS, PSTN/PLMN, or other not-IMS wireless network.

Multimedia Telephony Application Server (MMTel-AS)

It is act as an application server for supplementary services invoked based on initial Filter Criteria.

IP-Short-Message-Gateway (IP-SM-GW)*

IP-Short-Message-Gateway supports text and binary payload, status report and concatenated messages

Voice Mail Server (VMS)*

It is part of Athonet IMS ecosystem to implement message recording and interrogation.

Conference Application Server (ConfAS)*

It allows multiple users to be part to the conference by implementing the Three-Way mechanism.

Gateway Mobile Switching Center (GMSC)*

It is used to route calls outside the mobile network for the roaming use cases.

PSTN Gateway

It performs interworking function with CS domain or PBX by using SIP Trunk and RTP for control and media plane.

XCAP Application Server

It handles supplementary service interrogation, activation and deactivation by UE via Ut interface.

Interconnection Border Control Function (IBCF)*

It is an SBC with border functionalities such as interworking with other IMS domain for roaming purpose.

Domain Name Server (DNS/ENUM)

It is a network function to translate NAPTR, SRV and A records for IMS routing functionalities.

Media Resource Function (MRF)*

It is an AS providing announcement and tones for network and service cases.

Home Subscriber Server (HSS)

It is a subscribers database containing user's identity.

(*) Items in Roadmap

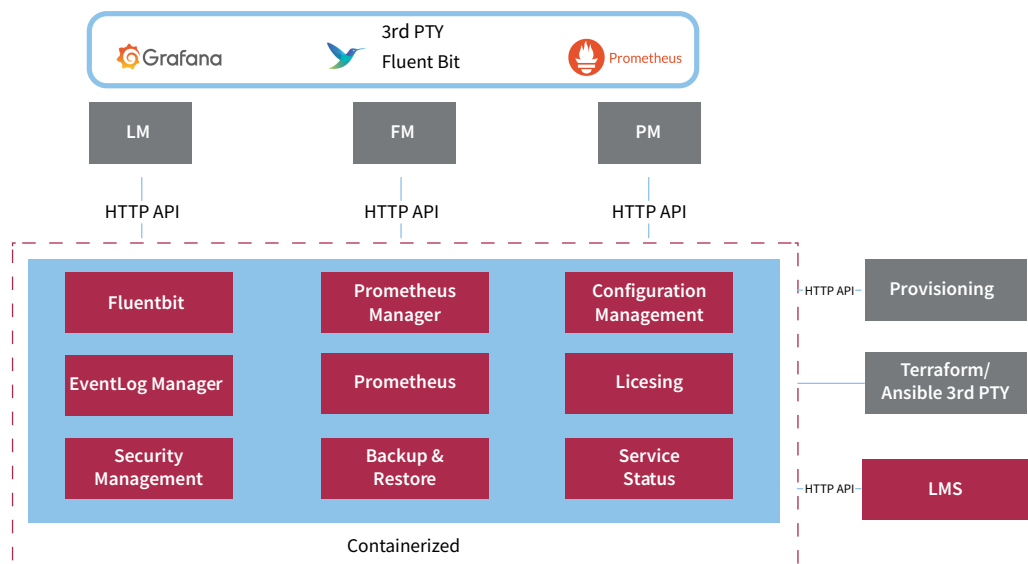
 Common O&M with simplified WebGUI aligned with Athonet 5GC

 Automated Processes via HTTP API

 Instant Delivery



AWS and Google Cloud support



Athonet IMS

The Athonet platform for IP Multimedia Subsystem



Easy to adopt voice solution for verticals

Athonet IMS is the best product-market fit for vertical market, it covers the mobile private network requirements in terms of deployments, automation, services and usability.



Simplified architecture for instant and effective deployment option

Athonet IMS follows 3GPP architecture by simplifying its complexity in a containerized environment with a low resource footprint (less than 20MB size for a NF) and guarantees a fast time to market.



Ready for 5G with a deployment in just 1 Virtual Machine (Compact)

The compact offer is deployable on hypervisor in a virtual environment and fully on cloud, such as AWS and GCP, by bringing to the customer a unique solution to deliver VoLTE and VoNR services on the same instance.



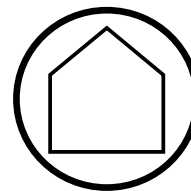
Intuitive and easy to operate with Athonet IMS WebGUI

Athonet WebGUI has been designed to break down the complexity of the configuration and focus on usability. Moreover the possibility to use HTTP API for configuration automation reduces the human error.



Fully On-Site

Manage the entire infrastructure by running it on server(s) or private cloud completely in house



Fully Cloud

Manage and run your private network on public cloud environment and resources

do you want to know more?

contact us to discover how we can improve your services thanks to our Core

info@athonet.com