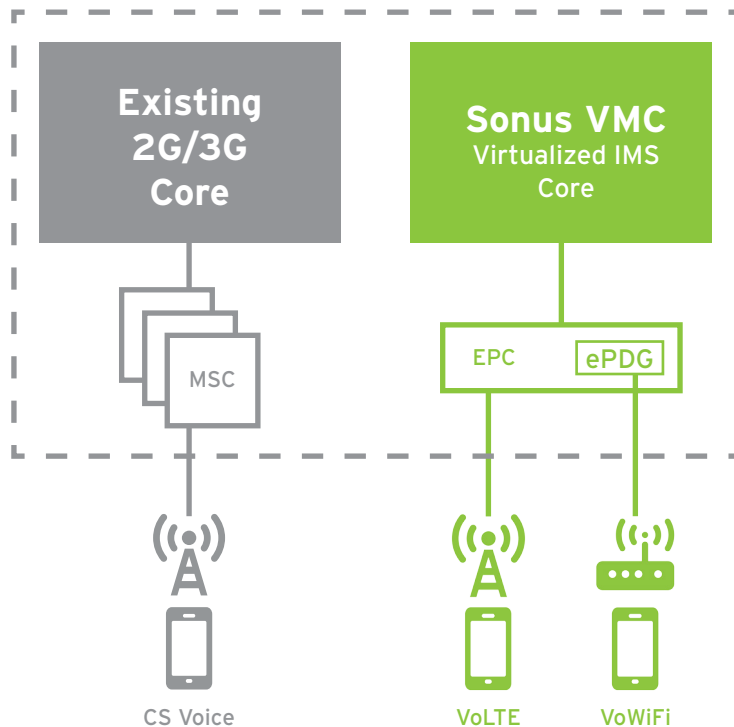


Sonus Virtual Mobile Core

Virtualized IMS Core for VoWiFi and VoLTE



The Sonus Virtual Mobile Core (VMC) is a virtualized IMS core that enables rapid delivery of next-generation voice and messaging services, including VoWiFi and VoLTE, for both mobile network operators and mobile virtual network operators.

Deployed and in service within Tier 1 mobile operator networks since 2010, the VMC is a carrier-grade solution that combines multiple IMS functions into a single, virtualized software product.

VMC IMS Functions

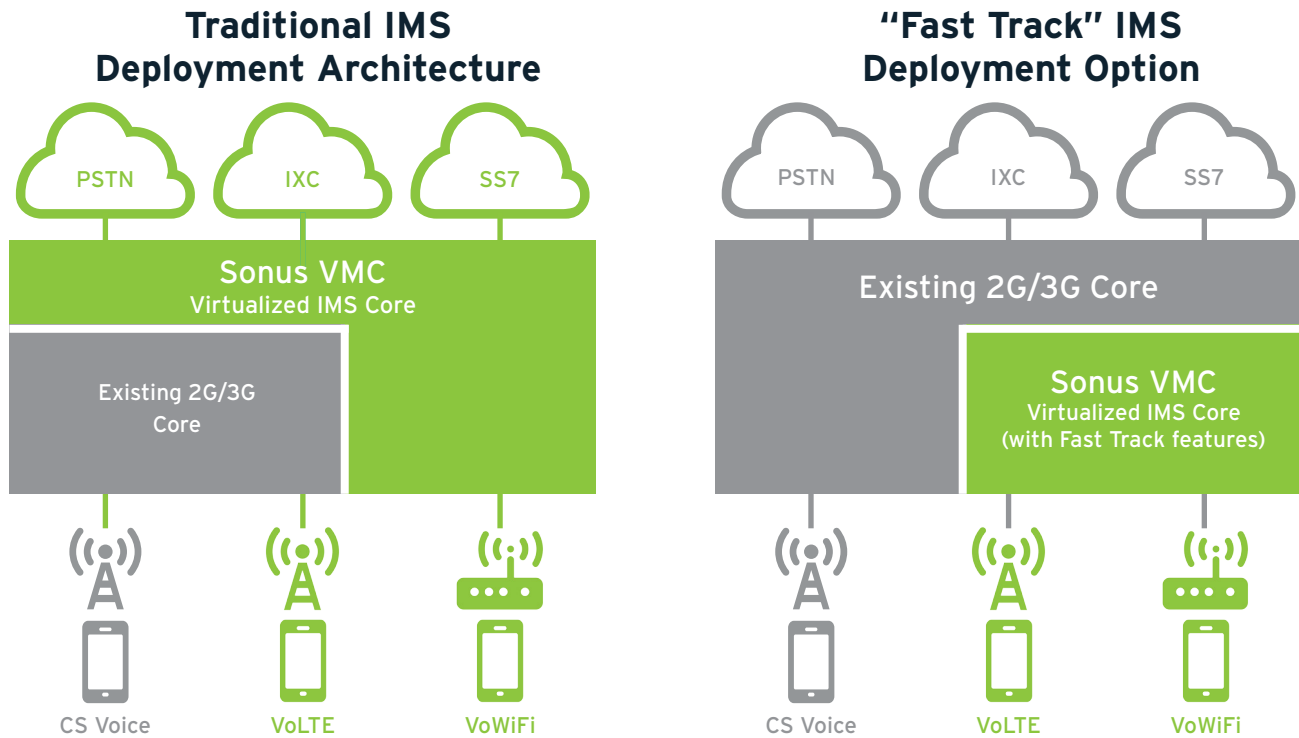
- Telephony Application Server (TAS)
- IP Short Message Gateway (IP-SM-GW)
- Service Consistency and Continuity Application Server (SCC-AS)
- IP Multimedia Service Switching Function (IM-SSF)
- Media Resource Function (MRF)
- Call Session Control Function (CSCF)

VMC Virtualization

The Sonus VMC operates as an entirely software-based solution, leveraging commercial off-the-shelf (COTS) hardware. As a result, the VMC provides operators with significant capital and operational cost advantages over legacy core network solutions. Support for virtualization platform environments, including VMware, KVM and OpenStack, enables even greater savings as operators evolve towards a full NFV architecture.

VMC Fast Track Deployment Option

Planning, installing, testing and productizing an IMS core network for VoWiFi and VoLTE services is an often overwhelming task, presenting significant challenges throughout the entire organization. Many of these challenges are due to the network upheaval required to establish the IMS domain as the primary core for serving the VoLTE/VoWiFi subscriber. In effect, the new IMS core must supersede and override the existing 2G/3G core, replacing every network subsystem that has been developed since the inception of that network. This architectural approach forces far-reaching and fundamental changes to basic systems and Sonus within the network, including those for subscriber management, billing, IN services, network interconnection and more.



To address these challenges and simplify the rollout of VoWiFi and VoLTE, Sonus has added a number of unique Fast Track features to the VMC. These optional features allow operators to avoid the most disruptive of these network changes by enabling the VMC to appear as just another MSC/VLR within the existing 2G/3G core network. As a result, operators can deliver standard IMS-based VoWiFi and VoLTE services while continuing to leverage existing core systems and interfaces, including:

- Gateway-MSCs for network interconnection,
- HLR for subscriber management,
- IN platforms for advanced services, and
- CDR and IN-based charging systems.

Imagine if adding support for VoWiFi and VoLTE were as easy as adding another MSC /VLR to the network.

About Sonus Networks

Sonus enables and secures real-time communications so the world's leading service providers and enterprises can embrace the next generation of SIP and 4G/LTE solutions, including VoIP, video, instant messaging, and online collaboration. With customers in more than 50 countries and nearly two decades of experience, Sonus offers a complete portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), Cloud Exchange Networking Platform, policy/routing servers, and media and signaling gateways. For more information, visit www.sonus.net or call 1-855-GO-SONUS. Sonus is a registered trademark of Sonus Networks, Inc. All other company and product names may be trademarks of the respective companies with which they are associated.

Sonus Networks North American Headquarters

4 Technology Park Drive
Westford, MA 01886
U.S.A.
Tel: +1-855-GO-SONUS

Sonus Networks APAC Headquarters

1 Fullerton Road #02-01
One Fullerton
Singapore 049213
Singapore
Tel: +65-68325589

Sonus Networks EMEA Headquarters

Edison House
Edison Road
Dorcan, Swindon
Wiltshire
SN3 5JX
Tel: +44-14-0378-8114

Sonus Networks CALA Headquarters

Homero No. 1933-902
Col. Los Morales, C.P. 11510
Mexico City, Mexico
Distrito Federal
Mexico Tel: +52-55-1950-3036
Int'l Tel: +1-978-614-8741

To learn more, call Sonus at 855-GO-SONUS
or visit us online at www.sonus.net

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