



RADVISION IMS Developer Suite

Advanced building blocks for developing IMS-compliant products

For over a decade RADVISION is a proven market leader in the Voice and Video over IP and 3G markets. Now RADVISION is proud to offer a complete suite of IMS (IP Multimedia Subsystem) developer solutions to meet the needs of IMS client and server developers.

IMS-based services enable multi-mode communications - including voice, text, location, pictures and video, or any combination of these - in a highly personalized and secure manner. As a result, IMS is perceived as the cornerstone of the industry's fixed/mobile convergence path. The IMS network is defined by a set of standards established by the 3GPP (Third Generation Partnership Project), the IETF (Internet Engineering Task Force) and TISPAN (Telecoms & Internet converged Services & Protocols for Advanced Networks).

RADVISION's IMS Developer Suite includes toolkits and products that provide all the necessary signaling and media protocols to easily and cost-effectively meet the IMS challenge.

Protocol Toolkits

IMS SIP Toolkit

The RADVISION IMS SIP Toolkit is a powerful and highly versatile set of tools to facilitate development of IMS SIP applications while reducing development time and costs. The Toolkit includes all the required components, including an extensive choice of quick start sample applications that enable full user control and flexibility, a GUI test application, and detailed documentation. The IMS SIP Toolkit is fully compliant with IETF, 3GPP and TISPAN standards. Supported features include: P-headers, AKA, Security Agreement, IPsec transport layer, IMS registration and others.

The IMS SIP Toolkit is made up of the SIP Toolkit, IMS Add-On and SigComp Add-On.

IMS MEGACO/H.248 Toolkit

Designed for decomposed gateway architectures, RADVISION's highly scalable MEGACO/H.248 Toolkit is a set of software modules for developing Media Gateways or Media Gateway Controller applications. The IMS MEGACO/H.248 toolkit is fully compliant with both 3GPP and ETSI/TISPAN IMS architectures, enabling development of 3GPP IMS architecture elements: MGCF/IMMGW, MRFC/MRFP and ETSI/TISPAN architecture elements: AGW/RGW, SPDF/BGF.

IMS DIAMETER Toolkit

The RADVISION DIAMETER Toolkit enables development of IMS DIAMETER-compliant network elements. Implementing all major IMS interfaces, it allows seamless integration with IMS-based IP networks (3GPP and TISPAN). Standards-based (IETF, TISPAN and 3GPP), the IMS DIAMETER Toolkit is highly reliable and delivers superior performance.

IMS Advanced RTP/RTCP Toolkit

When IMS requires audio and video, RADVISION's Advanced RTP Toolkit is an essential part of the solution. With its support for PoC-specific signaling and extended reports, the Advanced RTP Toolkit is capable of handling IMS related services. The Advanced RTP Toolkit comes with a large set of supported codec payloads, including AMR, AMR-WB, G.7xx, MPEG1 and 2, H.263, MPEG4, H.264, and the option to add additional codecs.

Protocol Toolkits

- IMS SIP Toolkit
- IMS MEGACO/H.248 Toolkit
- IMS DIAMETER Toolkit
- IMS Advanced-RTP/RTCP Toolkit

IMS SIP Server Platform

IMS Client Suite

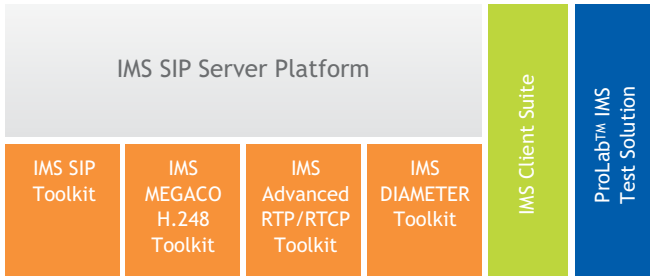
ProLab™ IMS Test Solution

IMS SIP Server Platform

The RADVISION IMS SIP Server Platform is a software framework that implements all the necessary building blocks for SIP servers and supports rapid and effective development of IMS applications. Based on RADVISION's market leading IMS SIP Protocol Toolkit, the IMS SIP Server Platform implements a proxy server engine, B2BUA engine, IMS Presence engine, Redirect server component, registrar server and general events server engine. IMS SIP server application developers can use the IMS SIP Server Platform to develop AS, (x)CSCFs, BGCF, SEG and other IMS entities.

ProLab™ IMS Test Solution

The IMS ProLab Test Management Suite is specifically designed to perform advanced signaling tests (such as evaluating the number of calls handled), media tests (such as checking for packet loss, delay, and jitter), and voice and video quality. Additionally, ProLab™ enables simulating different network topologies. The RADVISION IMS ProLab Test Solution is a powerful and highly versatile set of tools to facilitate testing and pre-deployment of IMS SIP applications while reducing time and costs. The IMS ProLab SIP Test Solution is fully compliant with IETF and 3GPP standards.



IMS separates between entities that provide different network services, as opposed to earlier architectures that lacked this separation. IMS defines unique network entities for call control, service control, resource control, media control and packet switch control.

IMS Client Suite

Part of RADVISION’s Developer Suite, the RADVISION IMS Client Suite is a complete package of IMS client-side building blocks designed to simplify and dramatically reduce development time of IMS Client applications. This complete set of versatile development and testing tools is OS independent, which allows seamless porting between platforms. The small footprint and modular and extendable platform allows developers to mix and match components, and reusing common building blocks, significantly reducing development time. In addition, the high level APIs hide the inherent complexity of IMS and SIP complexity, further reducing development time.

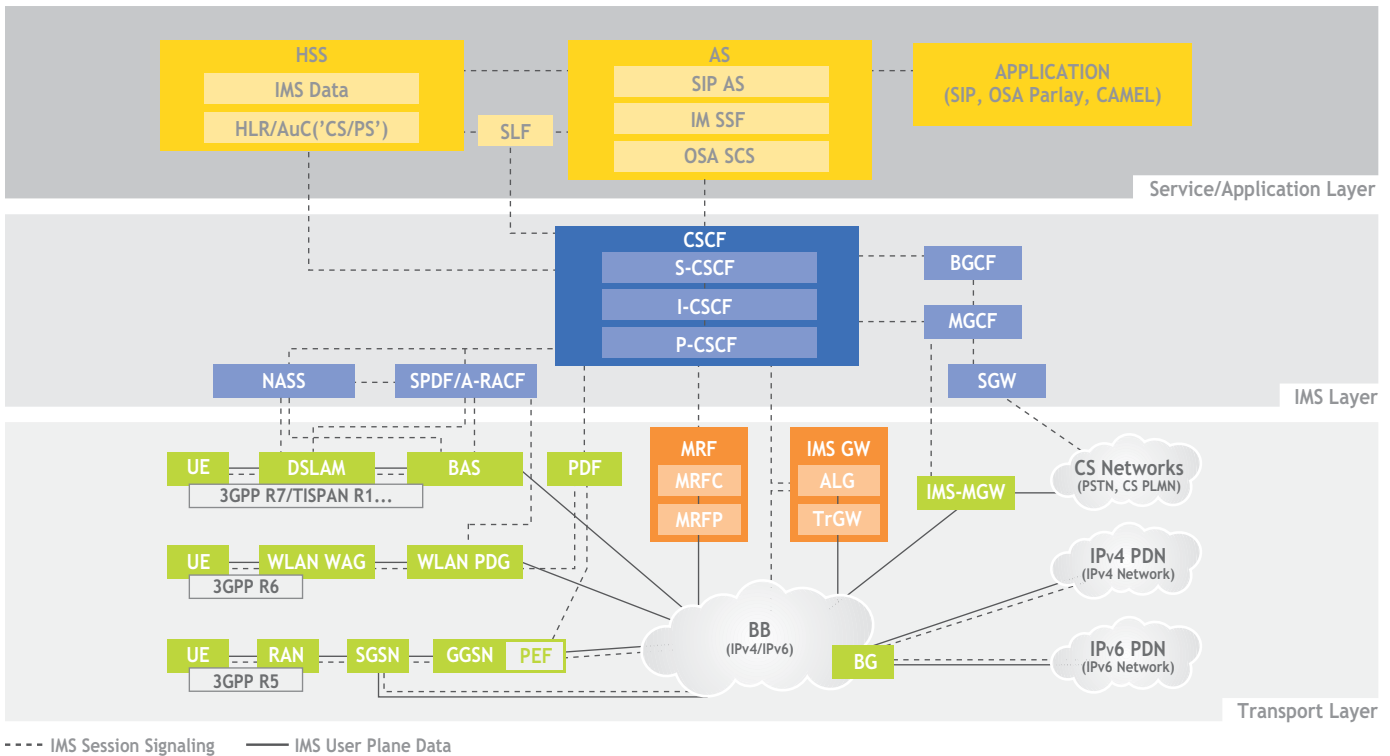
IMS/MMD Network Architecture

The IMS network separates between the access plane and the user plane. The access plane can be a radio access network (RAN) or any other access layer. In IMS the user plane is actually a Packet Switching network. This level is the transportation plane for all media and signaling within and outside the IMS network. Above the user plane is the control plane. Entities in this layer control the media streams and signaling links between other entities - for example call control and media control. The application level, above the user level, handles delivery of advanced services that require service logic beyond session setup/teardown.

RADVISION’s Client Suite includes:

- IM and Presence Module - supports SIP MESSAGE
- V²oIP engines - to enable voice and video over IMS networks
- MVT Engine (Mobile Video Telephony) - to enable mobile video telephony over IMS

IMS Architecture - Layered Approach



About RADVISION

RADVISION (NASDAQ: RVSN) is the industry’s leading provider of market-proven products and technologies for unified visual communications over IP and 3G networks. With its complete set of standards-based video networking infrastructure and developer toolkits for voice, video, data and wireless communications, RADVISION is driving the unified communications evolution by combining the power of video, voice, data and wireless - for high definition video conferencing systems, innovative converged mobile services, and highly scalable video-enabled desktop platforms on IP, 3G and emerging next-generation IMS networks. For more information about RADVISION, visit www.radvision.com

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