

Spirent VoLTE/RCS Solution Suite

For Service Providers

Spirent's VoLTE/RCS Solution Suite for Service Providers includes two main modules: the BEEHD Cross-Platform Video Client Solution and the ProLab® RCS/VoLTE Testing Suite.

With a complete, multi-platform, pre-integrated, interoperable solution and testing suite, Service Providers can focus on their unique service and application for a unified user experience, without the need for complicated integrations or VoIP expertise. That means faster time-to-market and enhanced usability.

With Spirent's VoLTE/RCS Solution Suite, Service Providers can rapidly launch branded video calling services, introduce managed interoperable superior quality rich communication services, enable video calling on multiple platforms with unified user experience, and add VoIP/VoLTE capabilities to Joyn/RCS clients, as well as test and analyze applications to make certain they are up to speed before rollout and monitor in real-time service quality.



Equipped with Spirent's VoLTE/RCS Solution Suite, Service Providers can:

- Rapidly launch subscriber UC applications that outpace OTT offerings
- Add UC capabilities to vertical market applications
- Expand offerings to include UC clients for the enterprise market
- Test devices for quality and VoLTE/RCS standard compliancy before deploying on their networks
- Monitor running service quality

Solution Highlights

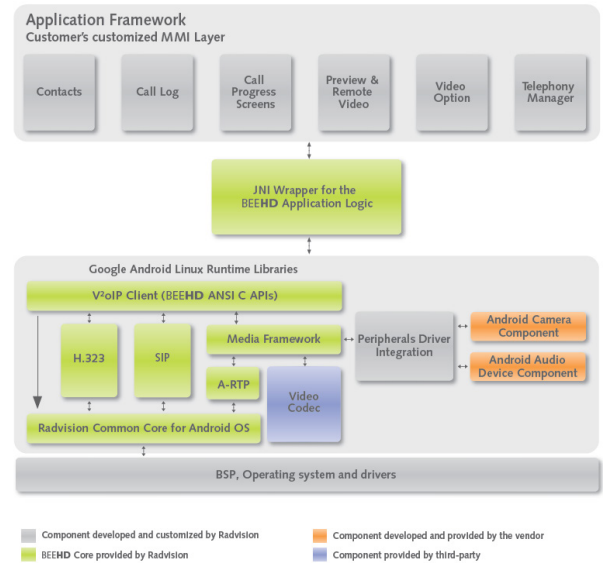
- **Multi-Platform:** Runs on Android, iOS, Windows, and MAC OS, mobile handsets, tablets, and PCs
- **Unsurpassed video quality:** Up to High Definition resolution even on unmanaged, error-prone networks
- **Hardware acceleration:** Allows high resolution/frame rate and longer battery life
- **Multi-Protocol, SIP or H.323:** Fully interoperable, for both carrier grade and enterprise networks
- IMS/VoLTE/RCS-standard compliant
- **Out-of-the-Box Solution:** Complete application in
- **Customizable:** From basic GUI changes to low-level message and call flow manipulation
- **End-to-End:** From development to deployment testing and service monitoring

BEEHD Cross-Platform Video Client Solution

BEEHD is a complete VoLTE/RCS-based video communications client that enables Service Providers to launch customizable video calling services for Android, iOS, Windows, or MAC OS-based devices.

The BEEHD Cross-Platform Video Client Solution's Client Engine is a complete, multi-platform, pre-integrated, interoperable platform. It is based on the BEEHD Client Engine that handles the signaling, media negotiations, streaming and management. The solution comes as a full customizable application, with a set of APIs, a sample application in source code and comprehensive documentation for integrating video services into existing applications.

The complete Client Engine comes with multi-protocol support (SIP/IMS/VoLTE/RCS, H.323) media control and codecs, and utilizes advanced algorithms assuring superb video quality even in harsh network conditions. Possible integration with Hardware Platform provides optimized solution using hardware accelerators and seamless integration with peripherals, such as cameras, display, speakers and microphones.



ProLab RCS/VoLTE Testing Suite and Media Quality Measurement

The ProLab RCS/VoLTE Testing Suite is a highly scalable and feature-rich testing and validation solution to emulate a wide range of actual network conditions for real-time testing of voice and video over LTE devices. It provides and maintains expected Quality of Service (QoS) standards as per key factors, including signaling, security, media and network topology. Since the success of VoLTE devices and services depends on service-readiness, as well as the ability of the network to support a wide range of services, the ProLab Suite lets you take a proactive approach to ensure VoLTE readiness prior to complete deployment of VoLTE and RCS devices and network elements.

The ProLab RCS provide the capability to simulate MSRP, XDM Client, XCAP Server, Presence Server, Ut Interface (Supplementary Service).

The ProLab IMS/VoLTE Suite comes pre-packaged with plug-and-play scripts and media files with a wide variety of test case simulations, including SIP, IMS, RTP, and audio & video testing. Advanced scripting is useful for developing complex and special case test scenarios capable of interacting with

sophisticated IMS network topologies, and provides a vast range of testing capabilities, including authentication (AKA-MD5, AKA-V2, Digest), Security (SigComp, TLS, IPSec), IPv4, IPv6 Call Features, GSMA test cases, such as IR.92, IR.94, and audio & video test cases based on AMR-WB, AMR-NB, H.263, H.264 and more.

The VoLTE Media Quality Measurement tool offers passive real-time and offline measurement and analysis capabilities using the ITU-T Standard and Spirent's innovative techniques that take into consideration inherent video images, in addition to network parameters. Audio & Video Quality measurement enables testing both audio quality and video quality, using no-reference and full-reference mode.



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Spirent Developer Tools
 Formerly Radvision's
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