

Reducing Complexity

Developing a V²oIP and VoLTE/ViLTE (Voice and Video over LTE) client can be a tedious task: various standards requirements, support of multiple signaling protocols, media codecs and processing algorithms, security aspects and additional features all need to be integrated into the device - a handful for any developer. Softil's BEEHD solves this problem by providing a complete, pre-integrated solution that enables our customers to focus on the application and the UI while enjoying the benefits of using a complete client framework that can be easily modified and customized.

The BEEHD answers the needs of

- ODM/OEM and device manufacturers that want to add video communications capabilities to their products
- Service Providers looking to offer VoLTE and RCS and video calling clients
- Chipset vendors pursuing a pre-integrated VoIP, VoLTE and RCS solution for their chipsets
- Application developers wanting to add VoIP to their applications
- Solution providers and integrators that want to develop Public Safety and Mission Critical Communication clients
- System integrators looking for a complete client solution to easily integrate into their system
- Contact centers looking to enhance their reachability and strengthen their engagement with customers
- The enterprise market for soft video and voice clients

Highlights

- Ready-to-use, multi-platform client engine: The framework is highly integrated and consists of signaling, call control, and media.
- Shortest TTM (time-to-market): Reduces development, integration, and testing cycles usually required when creating video communication clients.
- Highest Quality of Experience: Utilizes advanced algorithms, assuring superb video quality even in harsh network conditions.
- Interoperability: Backed with more than 20 years of market leadership in the VoIP industry, all application aspects are standards based and rigorously tested for interoperability.
- Supports various hardware platforms: Provides an optimized solution for specific chipsets and seamless integration with peripherals, such as cameras, display, speakers, and microphones.
- RCS (Rich Communication Suite), VoLTE and IMS ready: Built-in support of RCS, VoLTE, ViLTE and IMS enables quick development of solutions for these environments. The BEEHD is built and tested to interwork with various IMS systems.
- Public Safety over LTE: The BEEHD supports Mission Critical Push-to-Talk (MCPTT), Push-to-Video, One-to-many and Many-to-one communication, along with additional capabilities required for first responder communications.

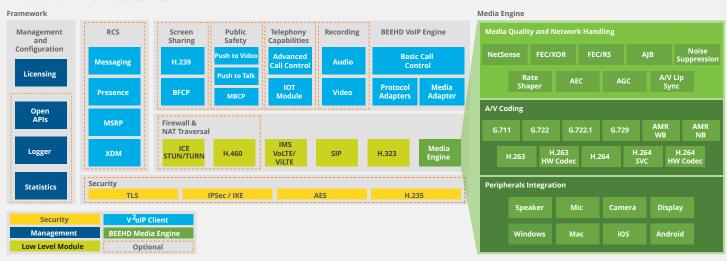






BEEHD Cross-Platform Video Client Solution

Modular Architecture:



Product Specification	S		
Public Safety	■ VoLTE IR.92 and IR.94 ■ Push-to-Video	Push-to-TalkOne-to-many Audio and Video	■ Many-to-one Audio mixing
Signaling Protocols	■ SIP (RFC 3261) ■ IMS/VoLTE SIP	H.323 V6Presence and IM: SIMPLE	FW/NAT Traversal: H.460, ICE, STUN TURN
Operating Systems	■ Windows ■ Mac OS/X	Android (software codecs)iOS (software codecs)	
Hardware Codec Acceleration	Qualcomm SnapdragonSamsung Exynos	Intel AtomTexas Instruments	NVIDIA MediaTek
Management	Configuration and provisioning loggerOpen APIs	Call historyWeb launcher supporting: Internet Explorer, Chrome, Firefox and Safari	Contact list management (in application)
Security	■ AES-128 and AES-256 ■ TLS	■ IPsec ■ SRTP	■ H.235 ■ IKE
Supplementary Services	HoldMute	■ Transfer ■ Forward	Multi-parties (using MCU)Inband DTMF (RFC 2833)
Quality	Reed Solomon FEC (Forward Error Correction)	NetSense™ bandwidth estimation and adaptation technology	
Collaboration	■ For SIP: BFCP ■ For H.323: H.239	Ancillary data channel for user custom data communication	
Audio	■ G.711 ■ G.722 ■ G.722.1 ■ G.729	 AMR WB, AMR NB Automatic Gain Control (AGC) Audio Echo Cancellation (AEC) Noise Suppression (NS) 	Audio Packet Loss Concealment (PLC)Audio Recording
Video	H.264H.263Frame rate: up to 30fps	Resolution: CIF/VGA/SVGA/720p/1080pSupports H.264 camerasCapture snapshot to JPEG file	Text overlayVideo recording
Interoperability	■ Interoperable with all leading vendors and any standard video calling systems		
RCS – Rich Communication Suite	 Option based Capability exchange Stand Alone Messaging CPM, CPIM based Instant Messaging IM large message mode (MSRP) 	 Multiple recipients (multi 1-1 IM) Store & Forward HTTP/HTTPS Provisioning Integrated Messaging Inbox, including SMS 	Voice and Video CallsSIMPLE presenceFile TransferXDM

For more information, contact Softil at info@softil.com

