

# Spirent BEEHD for Personal Devices

## Audio and Video Communications Client Framework for iOS Devices

BEEHD for Personal Devices is a complete Audio and Video communications client framework solution, allowing integrators, service providers, application developers and device manufacturers to rapidly build and launch Audio and Video applications on top of Apple's iOS-based devices, utilizing intuitive APIs.

### BEEHD for Personal Devices is designed for:

- ODM/OEM and device manufacturers looking to add Audio and Video communications, such as V2oIP, VoLTE and ViLTE.
- System integrators looking for a fast and easy integration of mobile communications clients for PS-LTE, conferencing and similar platform solutions.
- Service providers wanting in-house Audio and Video services based on mobile handsets.
- Application developers looking for a protocol-rich SDK for media, signaling and security.
- Chipset vendors wanting to add fully-integrated IP multimedia subsystems VoLTE and ViLTE-compliant endpoints.



### Highlights

- **Shortest Time-to-Market (TTM)**—Significantly reduces development, integration and testing time required to deploy Audio and Video communications clients.
- **Interoperability**—Based on many years of market leadership in the V2oIP market, all application aspects are standards-compliant and rigorously tested for interoperability.
- **Highest Quality of Experience**—Utilizes advanced algorithms ensuring superb Video quality even in harsh network conditions.
- Compliancy with 3GPP and IETF Public Safety over LTE standards for mission critical communications.

### Technology Offering

Optimized solution for devices running Apple's iOS operating systems:

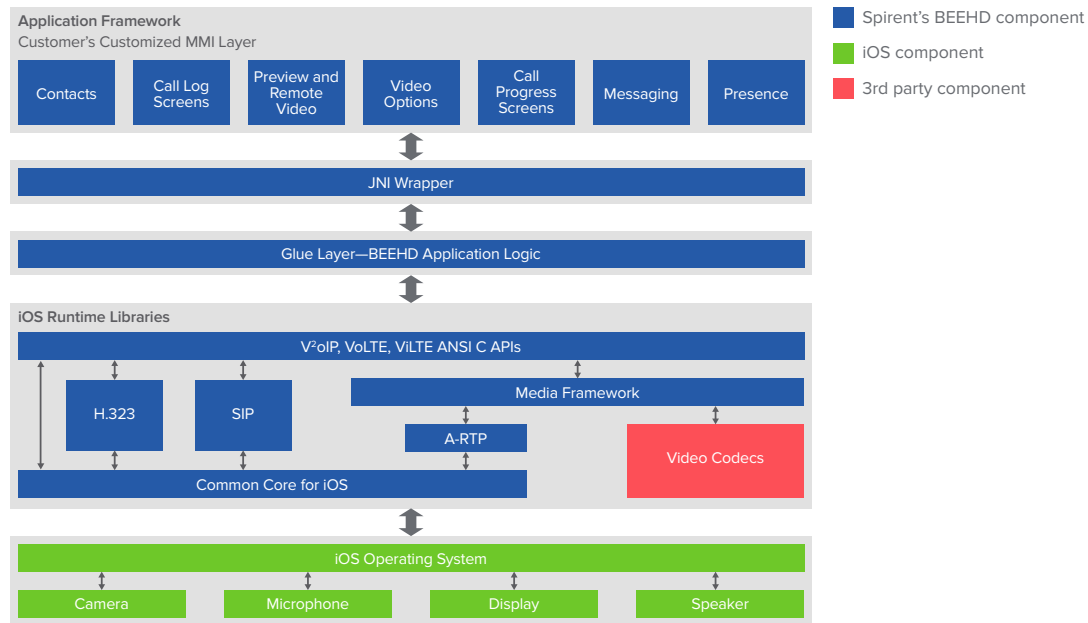
- Pre-integration into cameras, displays, speakers, microphones and other peripherals
- Support of multiple standard-based signaling protocols
- Superior Audio and Video quality, backed with error-correction tools and advanced codecs
- Standard based authentication and encryption
- Compatibility with multiple hardware platforms and various chipsets
- Push-to-Talk (MCPTT) and Push-to-Video
- Group communications
- Presence and IM
- Group messages

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## Modular architecture:



## Comprehensive standards and features support:

Product specifications			
<b>Signaling Protocols</b>	<ul style="list-style-type: none"> <li>SIP (RFC 3261)</li> <li>IMS/VoLTE SIP</li> </ul>	<ul style="list-style-type: none"> <li>H.323 V6</li> <li>Presence and IM: SIMPLE</li> </ul>	<ul style="list-style-type: none"> <li>FW/NAT Traversal: H.460, ICE, STUN</li> <li>TURN</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>Configuration and provisioning logger</li> <li>Open APIs</li> </ul>	<ul style="list-style-type: none"> <li>Call history</li> <li>Contact list management (in application)</li> </ul>	
<b>Security</b>	<ul style="list-style-type: none"> <li>AES128 and AES 256</li> <li>TLS</li> </ul>	<ul style="list-style-type: none"> <li>IPSec</li> <li>SRTTP</li> </ul>	<ul style="list-style-type: none"> <li>H.235</li> <li>IKE</li> </ul>
<b>Supplementary Services</b>	<ul style="list-style-type: none"> <li>Hold</li> <li>Mute</li> </ul>	<ul style="list-style-type: none"> <li>Transfer</li> <li>Forward</li> </ul>	<ul style="list-style-type: none"> <li>Multi-parties (using MCU)</li> <li>Inband DTMF (RFC 2833)</li> </ul>
<b>Quality</b>	<ul style="list-style-type: none"> <li>Reed Solomon FEC (Forward Error Correction)</li> </ul>	<ul style="list-style-type: none"> <li>NetSense™ bandwidth estimation and adaptation technology</li> </ul>	
<b>Collaboration</b>	<ul style="list-style-type: none"> <li>For SIP: BFCP</li> <li>For H.323: H.239</li> </ul>	<ul style="list-style-type: none"> <li>Ancillary data channel for user custom data communication</li> </ul>	
<b>Audio</b>	<ul style="list-style-type: none"> <li>G.711</li> <li>G.722</li> <li>G.722.1</li> <li>G.729</li> </ul>	<ul style="list-style-type: none"> <li>AMR WB, AMR NB</li> <li>Automatic Gain Control (AGC)</li> <li>Audio Echo Cancellation (AEC)</li> <li>Noise Suppression (NS)</li> </ul>	<ul style="list-style-type: none"> <li>Audio Packet Loss Concealment (PLC)</li> <li>Audio Recording</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>H.264</li> <li>H.263</li> <li>Frame rate: up to 30fps</li> </ul>	<ul style="list-style-type: none"> <li>Resolution: CIF/VGA/SVGA/720p/1080p</li> <li>Supports H.264 cameras</li> <li>Capture snapshot to JPEG file</li> </ul>	<ul style="list-style-type: none"> <li>Text overlay</li> <li>Video recording</li> </ul>
<b>Interoperability</b>	<ul style="list-style-type: none"> <li>Interoperable with all leading vendors and standard video calling systems</li> </ul>		
<b>Public Safety</b>	<ul style="list-style-type: none"> <li>VoLTE IR.92 and IR.94</li> <li>Push-to-Video</li> </ul>	<ul style="list-style-type: none"> <li>Push-to-Talk</li> <li>One-to-many Audio and Video</li> </ul>	<ul style="list-style-type: none"> <li>Many-to-one Audio mixing</li> </ul>
<b>RCS – Rich Communication Suite</b>	<ul style="list-style-type: none"> <li>Option based Capability exchange</li> <li>Stand-Alone Messaging</li> <li>CPM, CPIM based Instant Messaging</li> <li>IM large message mode (MSRP)</li> </ul>	<ul style="list-style-type: none"> <li>Multiple recipients (multi 1-1 IM)</li> <li>Store &amp; Forward</li> <li>Integrated messaging Inbox, including SMS</li> <li>Voice and Video Calls</li> </ul>	<ul style="list-style-type: none"> <li>Simple presence</li> <li>File Transfer</li> <li>XDM</li> </ul>

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