

# PortSIP VoIP/IMS/LTE Developer Suite

## Accelerate and Simplify the Development of Voice, Video and IM App

PortSIP VoIP SDK is a complete Audio, Video and IM communications client framework solution, allowing integrators, service providers, application developers and device manufacturers to rapidly build and launch Audio, Video and IM applications on top of Android, iOS, Windows, macOS, Linux based devices, utilizing intuitive APIs.

### PortSIP VoIP SDK is designed for:

- Application developers looking for a protocol-rich SDK for media, signaling and security.
- System integrators looking for a fast and easy integration of mobile communications clients for PS-LTE, conferencing and similar platform solutions.
- ODM/OEM and device manufacturers looking to add Audio and Video communications, such as VoIP, VoLTE and ViLTE.
- Service providers wanting in-house Audio, Video and IM services based on mobile handsets.
- 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.
- **Multi-Platform**—Mobile, tablet, PC and other Android, iOS, macOS, Linux based platforms are supported.
- **Interoperability**—Based on 8 years of market leadership in the VoIP market, all application aspects are standards-compliant and rigorously tested for interoperability.
- **Highest Quality of Experience**—Utilizes advanced algorithms ensuring superb Audio and Video quality even in harsh network conditions.
- **No VoIP knowledge needed**—Allows even non experienced developers to create video, audio and IM communication clients.
- Compliance with PS-LTE standards as defined by 3GPP and IETF.

### Technology Offering

Optimized solution for devices running Multi-Platform:

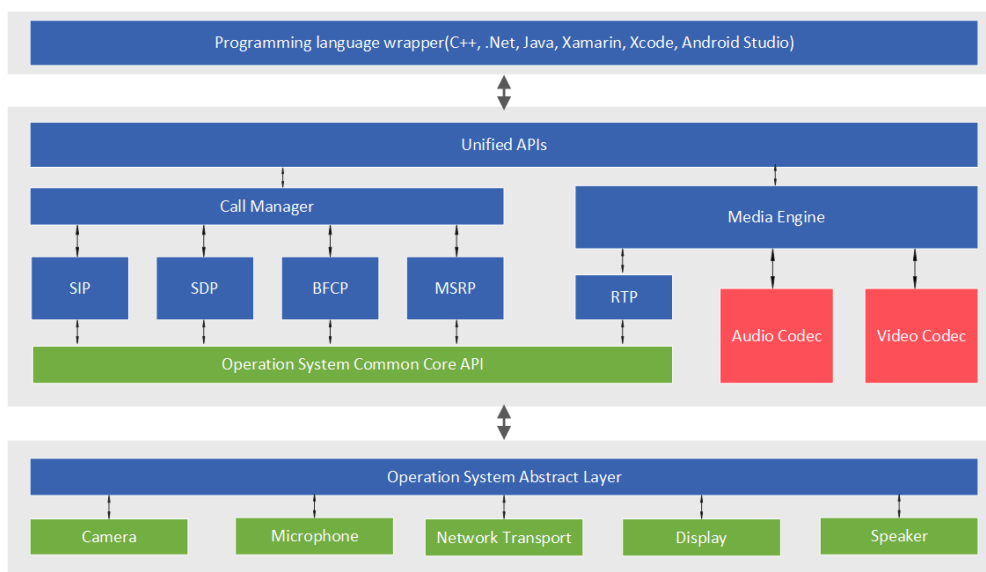
- Pre-integration into cameras, displays, speakers, microphones and other peripherals
- Support of multiple standard-based signaling protocols
- Superior Audio and Video quality, backed with error-correction tools and advanced codecs
- Standard based authentication and encryption
- Compatibility with multiple hardware platforms and various chipsets
- Available in .NET, Java, Swift, Xamarin and Objective-C, C++, Delphi, JavaScript for Web browser
- Conference communications
- Presence and IM

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## Modular architecture:



## Comprehensive standards and features support:

Product specifications			
Hardware Codec Acceleration	ARM	Intel Atom	Intel X86
Security	AES128 and AES 256	SRTP	TLS
Supplementary Services	Hold Mute	Transfer Forward	Multi-parties (using MCU or no MCU) BLF
Quality	FEC (Forward Error Correction)	Bandwidth estimation and adaptation technology	RTCP-FB NACK
Collaboration	For SIP: BFCP(coming soon)		
Audio	G.711 G.722 G.722.1 G.729 a/b	AMR WB, AMR NB Automatic Gain Control (AGC) Audio Echo Cancellation (AEC) Noise Suppression (NS)	Audio Packet Loss Concealment (PLC) Audio Recording Opus, iLBC, SPEEX, GSM, SPEEX WB
Video	H.264, VP8, VP9 H.263 Frame rate: up to 30fps	Resolution: CIF/VGA/SVGA/720p/1080p	Text overlay Video recording
Interoperability	Interoperable with all leading vendors and standard VoIP/SIP/IMS systems		
3GPP	3GPP TS 24.605	3GPP TS 24.615 One-to-many Audio and Video	Many-to-one Audio mixing
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 Integrated messaging Inbox, including SMS Voice and Video Calls	Simple presence File Transfer Presence Agent

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PortSIP is a leading provider of VoIP and Unified Communications solutions in globe. More than 5,800 companies and institutions worldwide defy distance with video, audio, IM and content solutions from PortSIP.

PortSIP and its partners provide flexible Unified Communications solutions for any environments to deliver extraordinary communications experience and universal investment protection.