

BEEHD for Desktop

Video Communication Client Framework for Desktop and Laptop Applications

Radvision's BEEHD for Desktop Client Framework offers a complete solution for adding high definition video to any desktop application.

Radvision's BEEHD for Desktop is a complete framework for developing and deploying high definition video-enabled standard-based clients. The framework offers developers an easy path to meet the demand for cost-effective, integrated video telephony functionality in their application with short time to market.

Developing a V^oIP client is a complex task. It involves many disciplines, such as signaling protocols, media handling, codecs, media algorithms and device integration. It poses a challenge for any developer, whether experienced with V^oIP or not. Radvision's BEEHD for Desktop solves this by providing a complete, pre-integrated solution that allows customers to focus on the GUI and high-level application, without any need for complicated integrations or VoIP know-how.



The BEEHD software solution is based on the BEEHD Client Engine that handles signaling, media negotiations, streaming and management.

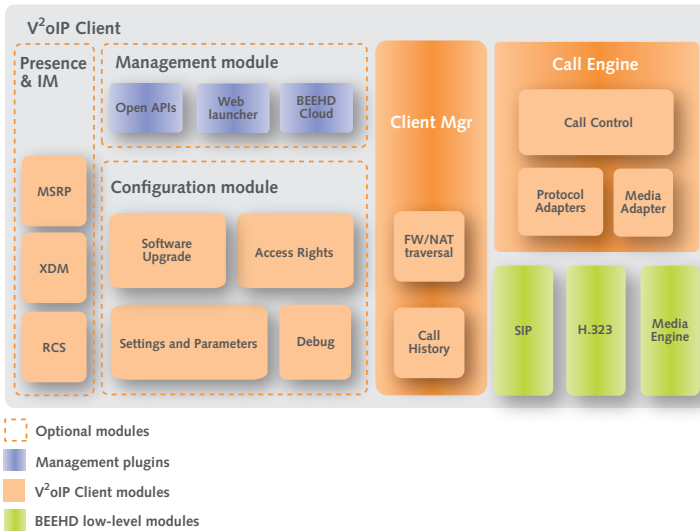
The solution comes with a sample application in source code, a detailed set of APIs and comprehensive documentation.

Key Highlights

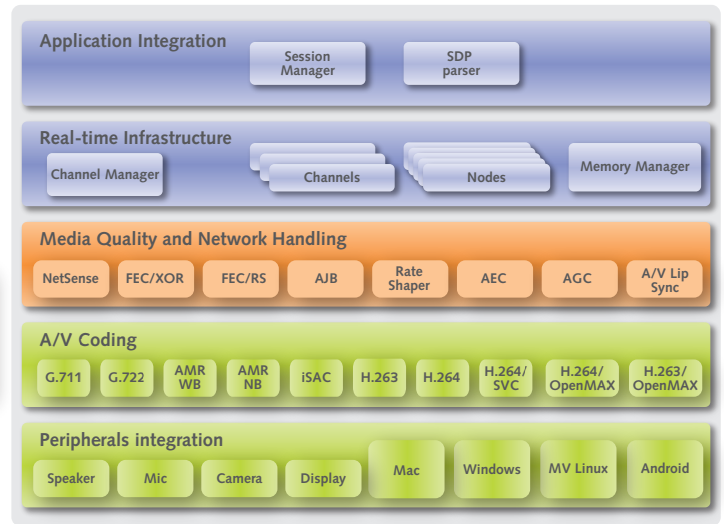
- **Ready-to-use desktop client engine.** The framework is highly integrated and consists of signaling, call control, and media.
- **Shortest time-to-market.** Reduces development, integration and testing cycles usually required when creating video communication clients.
- **Based on proven, mature signaling and media stacks.** The BEEHD Framework is based on Radvision's market leading protocol stacks.
- **Highest Quality of Experience.** Utilizes advanced algorithms (SVC, NetSense) assuring superb video quality even in harsh network conditions.
- **Interoperability.** Based on 19 years of market leadership in the V^oIP market, all application aspects are standard based and rigorously tested for interoperability.
- **No V^oIP knowledge needed.** Allows even non-experienced developers to create video and audio communication clients.

Designed for:

- **ODM/OEM and Device Manufacturers** looking to add video communication capabilities to their products.
- **System Integrators** looking for a complete client solution to easily integrate into their system.
- **Service Providers** looking to build a complete video calling service based on mobile handsets.
- **Application Developers** wishing to add V^oIP to their applications.
- **Enterprises** wishing to customize and deploy soft video and voice clients.



V2oIP Client Architecture



Media Engine Architecture

Technical specifications

Signaling Protocols

- SIP (RFC 3261)
- IMS/VoLTE SIP
- H.323 V6
- Presence and IM: SIP/SIMPLE

Firewall and NAT traversal

- For SIP: STUN/ICE/TURN
- For H.323: H.460 18&19

Operating system

- Windows XP, 7, 8 (32bit, 64bit)
- Mac

Management

- Connectivity with BEEHD Cloud
- Open APIs
- Web launcher supporting: Internet Explorer, Chrome, Firefox and Safari
- Call history
- Contact list management (in application)

Video

- H.264
- H.264/SVC
- H.263
- Frame rate: up to 30fps
- Resolution: CIF/VGA/SVGA/720p
- Supports H.264 cameras
- Capture snapshot to JPEG file
- Text overlay

Quality

- Reed Solomon FEC (forward error correction)
- H.264/SVC
- NetSense™ bandwidth estimation and adaptation technology

Collaboration

- For SIP: BFCP (up to 15fps)
- For H.323: H.239 (up to 15fps)
- Ancillary data channel for user custom data communication

Audio

- G.711
- G.722
- G.722.1
- G.729
- iSAC
- Audio Framework including AGC, AEC, NS
- Audio PLC
- Inband DTMF (RFC 2833)

Security

- For SIP: TLS, SRTP
- For H.323: H.235 Authentication Annex D

Supplementary Services

- Hold
- Mute
- Transfer
- Forward
- Multi-parties (using MCU)
- Inband DTMF (RFC 2833)

Interoperability

- Interoperable with all leading vendors and any standard video calling system

About Radvision

Radvision, an Avaya company, is a leading provider of video conferencing and telepresence technologies over IP and wireless networks. We offer end-to-end visual communications that help businesses collaborate more efficiently. Together, Radvision and Avaya are propelling the unified communications evolution forward with unique technologies that harness the power of video, voice, and data over any network. www.radvision.com

USA/Americas
T +1 201 689 6300
F +1 201 689 6301
infoUSA@radvision.com

EMEA
T +44 20 3178 8685
F +44 20 3178 5717
infoUK@radvision.com

APAC
T +852 3472 4388
F +852 2801 4071
infoAPAC@radvision.com

RADVISION®
an Avaya company