



**JOIN for desktop - datasheet**

## Cross platform client framework for building VoIP/RCS applications

**Supported platforms:** Windows XP, 7, 8 and MAC OS.



Join for Desktop is a set of a feature-rich VoIP clients developed by VoipSwitch for the most popular desktop platforms. The clients are based on SIP and other open standard technologies supported by IMS and VoLTE.

Its advanced underlying qualities complimented by the sleek design and the deep understanding of User Experience is what makes Join the market leader.

Join is a base for building a white label fully customized communication application.

### Target Markets

**SERVICE PROVIDERS – OTT RETAIL OFFERING**

**SERVICE PROVIDERS FOR ENTERPRISE HOSTED UNIFIED COMMUNICATION/PBX SERVICES**

**CORPORATIONS LOOKING FOR AN INTERNAL, SECURE COMMUNICATION SOLUTION**

**PBX MANUFACTURERS**

### JOIN GENERIC

**Join generic supports multiple accounts, a user can be registered to multiple SIP servers at the same time.**

Join VoIP client is also a superior desktop dialer for enterprises as an extension to an IP PBX.

Features like video multiparty conferencing and video recording make it a perfect tool for enterprise users.

### Key highlights

**WebRTC compatible:**

Call from UC web based solution directly to PC or MAC softphones.

**Short time to market:**

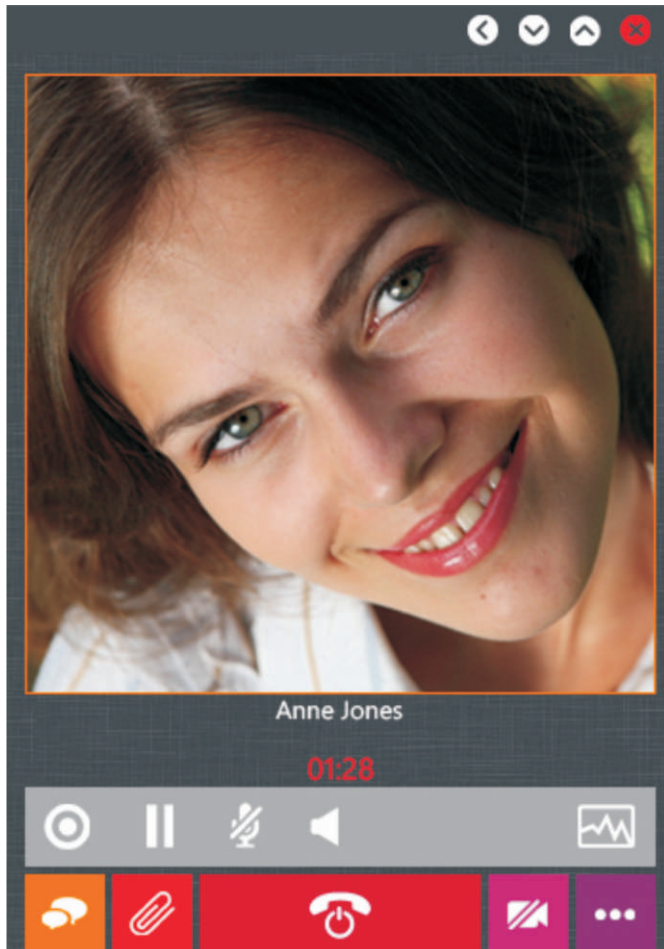
Complete client framework reduces development, integration and testing phase.

**Interoperability:**

Join is standard based and has been tested with all popular softswitches and IMSes in the market – Huawei, ZTE IMS, Broadsoft, Nokia Siemens Networks, PortaOne and many others.

**Unparalleled User Experience:**

Join utilizes an advanced mechanism for NAT and Firewall passing through. It supports ICE with STUN/TURN and TCP TURN. It just works from any network.



### High quality Video calling

Join supports various resolutions up to HD with up to 30 frames per second. At the same time, multiple video calls can be made, each in a separate window detached from the main application interface.

From a service provider's perspective, handling video traffic is very costly as it consumes a lot of bandwidth. Hence, Join supports the ICE mechanism, which allows for peer-to-peer connectivity with seamless fallback to media relay if peer-to-peer does not work. Most of the NATs, however, allow for peer-to-peer (more than 90%), thus offloading the provider's infrastructure.

### Multiparty video conferencing

Join transforms any PC into a video conferencing bridge. By default, it supports up to 6 participants in one video conference.



# Join for desktop

## Enriched instant messaging and presence

Users can send instant chat messages and share multimedia and geolocation information during a call and also from the chats menu.

Join for Desktop is contact centric, with the Contacts being the main screen of the application. Users can see the status of their buddies using various implementations of the SIP PRESENCE mechanism. Join can also be connected to the Network Address Book with the use of different standard protocols.

## Video and audio recording

Another feature highly sought after in call center and enterprise use is video recording.

On request a video call can be recorded and stored locally in a file which then can be played in a media player.

Both parties of the call are recorded (user and the callee), the video screen is split in two parts. This allows others to review conversations. The access to recorded files is from the call history menu.



## Security

**Necessary for business VoIP solutions. Support for the strongest encryption standards used in real time communication.**



**Secure SIP signaling, Presence, Instant messaging and media including audio and video calls.**

## Branding

Join for Desktop, Windows version, has been developed using the latest NET framework from Microsoft. The framework gives flexibility in designing the user interface allowing for smooth flow between screens and dynamic animations.

Branding can reach far beyond basic changes in the app name and logo. VoipSwitch's designers are ready to work directly with the customer on a completely new graphical interface which will combine great user experience with an esthetic and modern look.



## Technical specifications

### General features

#### **MULTIPLE ACCOUNT SUPPORT**

Active registrations to different server.

#### **MULTIPLE CALLS FACILITY**

### Protocols

- Full SIP compliant
- IMS/VoLTE extensions support
- Presence with Resource List, Watcher Info XCAP for XDM
- STUN/TURN and ICE framework (peer to

### Audio

- Preprocessing algorithms including Echo Cancellation, Noise suppression.
- WebRTC media engine (Android).
- Wide range of codecs: OPUS, SILK, AMR WB and NB, g722, Speex, iLBC, g729, GSM, g711

### Video

- WebRTC engine
- Codecs: VP8, h264, h263
- Resolutions from CIF to HD (subject to device's performance), Frame rate up to 30 fps
- Congestion control

### Messaging

- Instant Messaging SIP SIMPLE (OMA), CPM, CPIM
- IM large messages (MSRP)
- Deferred messages
- SMS over IP
- Converged inbox

### Security

- SRTP encryption for audio and video
- AES with 128 or 256 bit key
- TLS encryption for signaling

### VoLTE/IMS

- GSMA IR.92 & IR.94 specification support
- IMS Registration, Authentication and addressing
- VoLTE Voice and Video call establishment
- IMS Preconditions

### RCS

- **Voipswitch RCS extensions support**
- **GSMA RCS standard compliant**
- **User Discovery using Options, File transfer**
- **Provisioning**