

# Enabling Video Integration for the Enterprise

The world of video services within and to/from an enterprise has changed. High cost, high-touch video meeting rooms and meet-me services are being replaced by more pervasive video options on desktops, laptops, tablets and smartphones. Client applications may be specific for video, bundled into a UC application, or even free Over-the-Top (OTT) video conferencing.



The video market will continue to fragment as enterprises have broader access to devices and services from new vendors. Furthermore, new protocols will enable more diverse endpoints to be video-enabled, and new business models will force re-thinking price models. In the midst of these changes, Sonus will take care of the technology details to ensure your video service is secure, interoperable and delivered with exceptional Quality of Experience (QoE)—all while being done with scalable and economical investment.

## Sonus' video solution allows enterprises to:

- Secure service delivery
- Enable video island interoperability without the need for new hardware
- Manage policy for real-time QoE
- Scale cost-effectively
- Seamlessly integrate Microsoft Lync and Skype for Business video
- Get support for Web Real-Time Communications (WebRTC) with a Software Development Kit (SDK) and third-party integration.

## Security

- Network protection from Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks
- Encrypt signaling (IPSec, TLS, DTLS, H.235) and media (SRTP) to prevent network intrusion and to protect privacy
- Prevent unauthorized users from accessing video services
- Gracefully handle Session Initiation Protocol (SIP) registration floods that can occur on recovery from power outages
- Hide network topology to allow end users to extend video collaboration services without compromising network integrity. This is especially critical for the inclusion of mobile users and small office/home office (SOHO) workers.
- Support for ICE-STUN for firewall traversal
- WebRTC user registry and user authentication

## Interoperability

- Transparently connect employees or contact center agents to other video endpoints
- Interwork SIP and H.323 and WebRTC to connect video islands
- Normalization of SIP and H.323 protocols to manage vendor implementation differences
- Support for SIP-based content share (BFGP) and Far-end Camera Control (FECC)
- Audio codec (OPUS) relay or transcoding
- Video codecs (H.264 AVC, H.264 SVC, H.263+; H.263, H.261, VP8)

## Real-time Quality of Experience

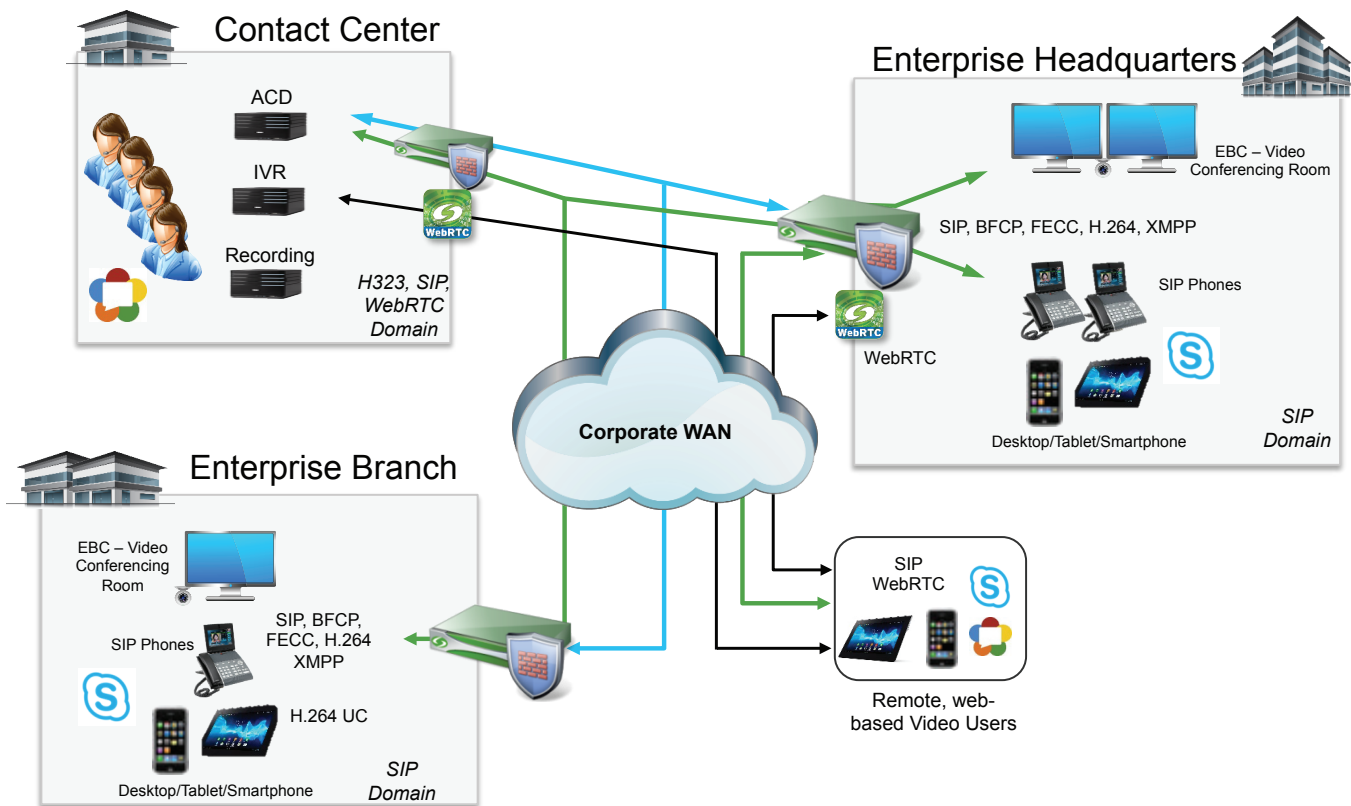
- Seamlessly handle multi-protocol, multi-stream session management with traffic prioritization
- Policy management for call admission control (CAC) to prevent server overload conditions
- Policy management for bandwidth allocation to ensure video quality is not degraded
- Session rehydration for WebRTC

## Scalability

- Common Session Border Controller (SBC) software for all deployment models
- License addition if Sonus SBCs are already deployed
- Deployment options for:
  - Cloud (public or private)
  - Virtualized on commercial off-the-shelf (COTS) platforms
  - On Sonus purpose-built platforms
- Scale from 1,000 (SBC SWe) to 3,000 (SBC 5210) or to 16,000 (SBC 7000) concurrent video sessions (assumes maximum video payload of 500 Kbps per session)
- 10,000 concurrent calls for WebRTC gateway

## Microsoft Lync and Skype for Business Integration

- Integration with Sonus simplifies adoption rate of real-time (voice and video) services; otherwise, only instant messaging and presence features will be used
- Dial plan management allows compatibility for both intra-enterprise and external connectivity for video services
- SBCs at the enterprise branch site can provide survivability and intra-branch communications during wide area network (WAN) failure
- Microsoft Lync and Skype for Business qualification



## Sonus WebRTC Services Solution

With Sonus' WebRTC Services Solution, an enterprise can allow a user to place a call, participate in multi-party video and audio conferencing, engage in screen sharing collaboration, and share files through WebRTC-enabled browsers and mobile applications for real-time communications. Any WebRTC-enabled device can be used to communicate with another WebRTC-enabled device or with other endpoints (SIP, PSTN) via the Sonus WebRTC Gateway.

### The Sonus WebRTC Services Solution is inclusive of:

- **Sonus WebRTC Gateway (WRTC)** - enables interworking from WebRTC to SIP, as well as signaling from WebRTC to WebRTC solutions
- **Sonus WebRTC Software Development Kit (WRTC SDK)** - provides APIs for voice, video, IM, desktop share, session management, presence, and conferencing



# About Sonus Networks

Sonus brings intelligence and security to real-time communications. By helping the world embrace the next generation of Cloud-based SIP and 4G/LTE solutions, Sonus enables and secures latency-sensitive, mission-critical traffic for VoIP, video, instant messaging and online collaboration. With Sonus, enterprises can give priority to real-time communications based on smart business rules, while service providers can offer reliable, comprehensive and secure on-demand network services to their customers. With solutions deployed in more than 100 countries and nearly two decades of experience, Sonus offers a complete portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), Network-as-a-Service (NaaS) capabilities, policy/routing servers, and media and signaling gateways.

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