SANSAY™

INTELLIGENTLY INTERFACE TO SIP DEVICES AND NETWORKS

The Sansay WebSBC delivers the power and speed of WebRTC to your network

The Sansay WebSBC™ delivers the power and speed of WebRTC to your network. By seamlessly integrating SIP and WebRTC devices with media and signaling the WebSBC creates a integrated application delivery network with flexibility, scalability, and reliability. The WebSBC works with native WebRTC applications and enables feature rich functionality such as transcoding and encryption of media streams. It also bridges the existing SIP devices into the WebRTC applications for faster and easier deployments.

WebSBC Overview

The WebSBC enables WebRTC service providers to provide the widest range of applications with the greatest reliability. By ensuring the media path is secure and scalable the WebSBC eliminates one of the key issues with large WebRTC deployments.

In addition to providing scale at the media layer the WebSBC seamlessly ties the legacy SIP world to the WebRTC realm for full connectivity. The SIP functionality enables a wide range of devices and networks to access the WebRTC applications.

The combination of a scalable WebRTC network and the ability to tie that network to existing VoIP networks gives carriers the ability to deliver feature reach applications to help increase revenue while decreasing cost.

Ease of Deployments

By using native WebRTC controls for client applications the WebSBC reduces the need for SIP over Websockets (SOW). The SOW mechanisms are supported for flexible deployment scenario but supporting the native WebRTC functions enable applications to transparently interface to SIP devices and networks.
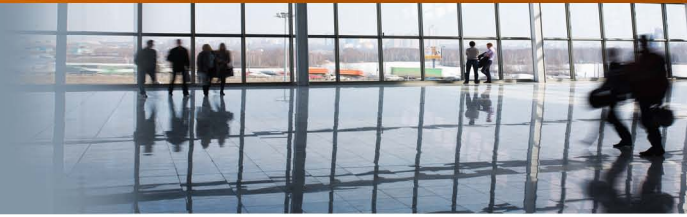
Network Architecture
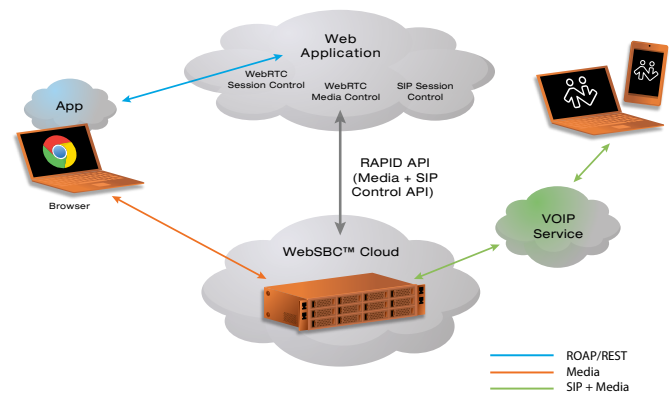
Application Flexibility

The WebSBC The RAPID™ API provides a single way to deliver native WebRTC devices advanced media handling applications and SIP connectivity. Fully HA reliable and able to provide high capacity transcoding from SRTP to RTP and Opus to G.711 the WebSBC solution provides an integrated development and deployment environment for service providers.

TRANSPARENTLY INTERFACE TO SIP DEVICES AND NETWORKS.

Architecture Benefits

Flexibility: The WebSBC provides access for the SIP world to interface to the WebRTC applications and devices. This enables faster and wider scale deployments by removing barriers between network islands. Even legacy SIP feature servers are supported seamlessly.

Reliability: Delivers non-stop uptime and hitless upgrades though high-availability (HA 1:1) redundant architecture. The system is field proven to handle tier one carrier reliability with five nines uptime.

Scalability: Handles up to 8000 media flows through a 1U system for browser to browser or browser to SIP sessions. Sessions are intelligently transcoded as needed under application control or WebSBC configuration.

Transcoding

The WebSBC provides intelligent transcoding on a session by session basis. Depending on the configuration the system can transcode a variety of codecs to either AMR, G.711 or Opus. This gives the common VoIP or wireless endpoints direct access to the WebRTC applications and subscribers.

Ease of Use

The WebSBC is managed by a intuitive browser and provides all information required to understand the session flows within the network. Advanced performance monitoring of media quality and signaling performance reduces the NOC overhead while providing a more reliable service.

Network Based Licensing

The WebSBC uses a licensing model that provide dynamic allocation across multiple locations within a network. This provides lower total cost of ownership by having the network sites or elements deployed without the risk of unused capacity. The Network License Zone (NLZ) lowers the cost of disaster recovery sites and permits Active-Active site mirroring.

Intelligent Media Layer

The WebSBC eliminates the need for TURN based media handling. The RAPID API gives complete control over the media control within the WebSBC. This means the media path is known in advance, media based applications are simpler to deploy, and performance can be closely monitored.

Turnkey Solutions

With an industry leading support team the Sansay WebSBC can be deployed anywhere in the world in a turnkey fashion. The cost effective maintenance agreement includes 24x7 support with on site training classes available.

RAPID Developer Program

RAPID Developer Program: WebRTC developers can access the RAPID API and other resources at developer.sansay.com

Certifications:
FCC: Part 15, Class A
UL 1950, CSA 950
CE EN60950
CISPR 22/EN55022
NEBS GR-63, GR-1089
ETSI 300 386, 300 019, 753

Protocols:
RFC 3261, RFC 2543, RFC 2833
H.323 GK, GW
ENUM-GSMA Certified

Digit Manipulations:
Full digit, host, and user control

Conditional dual stage outbound prepend/append

Conditional dual stage inbound stripping / prepending DNSI or LRN

Power and Physical:
19 inch rack mountable
1U or 2U options
1U server / 25 lbs
- 300W; Universal AC
- 2U server / 37 lbs
- 700W; AC or DC

Transcoding Codecs
SRTP to RTP encryption and decryption
G.729, A, B, AB, D, E
GSM AMR, AMR WB
G.722 and G.722_1
G.728
ILBC
T.38 and RFC2833
H.263 and H.264
EVRC
OPUS

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