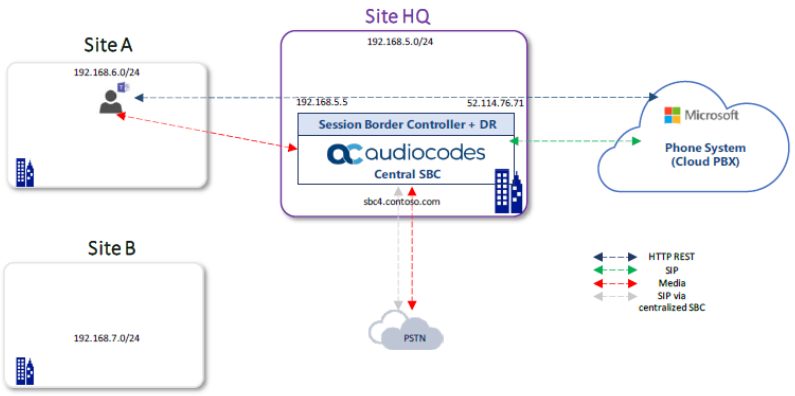
Product Notice #0386

AudioCodes "Microsoft Teams" New Certification for Local Media Optimization | Analog Device | E-911/ELIN

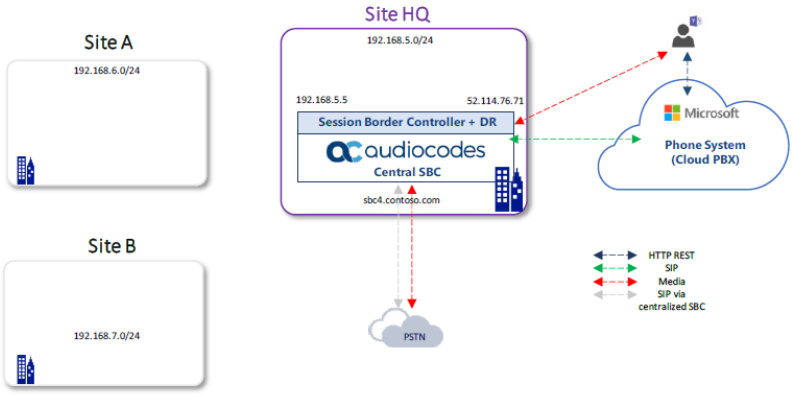
AudioCodes is excited to announce that it has been fully certified by Microsoft for the following:

- **Local Media Optimization**: This capability allows the Customer (Enterprise) to optimize the media path within their corporate network and build a complex virtual network topology without the need for a public IP address per remote Session Border Controller (SBC). Media Bypass keeps media local between the Teams users and the SBC. This reduces call setup time, provides a higher level of reliability by eliminating the need for media flow between Microsoft Cloud, and ensures the best possible call quality. All this requires that the public IP address of the SBC be available to Teams. However, what if the public IP address of the SBC is not available to the Teams users, for example, when the users are in an internal network with private IP addresses, or if they are in the corporate network or working from home? This is solved by Local Media Optimization, which is useful in the following scenarios:
  - **Central SBC Scenario:** In this scenario, all trunks are centralized, with media flowing between the central SBC (Site HQ) and the users, based on the user's location. If a user is internal, media flows between the internal IP address of the central SBC and the Teams user. If a user is external, media flows between the external IP address of the SBC and the Teams user. When the user is in the internal network, the SBC provides the internal IP address of the SBC for media; when the user is outside the corporate network, the SBC provides the external (public) IP address of the SBC.

Central SBC Traffic Flow - User is Internal

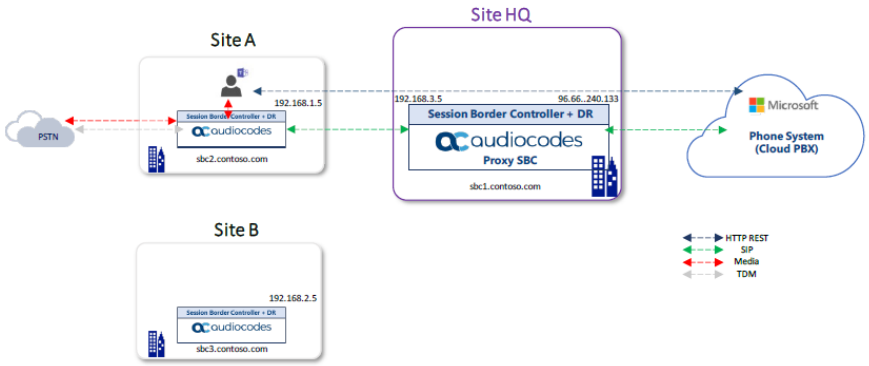


Central SBC Traffic Flow - User is External

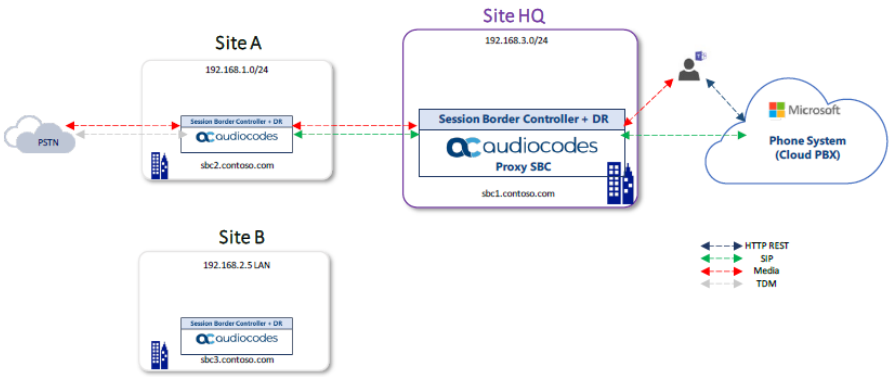


- **Proxy SBC Scenario**: In this scenario, the administrator is paired only to a single SBC (also referred to as a *proxy SBC*) for the Direct Routing service. The downstream SBCs can be reached through the proxy SBC. The downstream SBC does not have a WAN interface.
  - ✓ When the user is in an office where the downstream SBC is located, media flows directly between the user and the SBC.
  - ✓ When the user is outside of the office, media flows from the user to the public IP address of the proxy SBC, which proxies it to the downstream SBC(s).

Proxy SBC Traffic Flow- User is Internal



Proxy SBC Traffic Flow- User is External



- Advantages:
  - ✓ Keeps media local between the Teams users and the SBC, when the public IP of the SBC is not available to the Teams users.
  - ✓ Reduces the need for transcoding, as the coder can be dynamically selected based on location.

- **Analog Device for Teams with Teams Direct Routing**: An analog device can be connected to the Teams topology, enabling analog devices within the corporate to make and receive calls to and from Teams users and the PSTN, respectively. This is done using an Analog Telephony Adapter (ATA) connected to an SBC. AudioCodes MP-1xx and MP-2xx MediaPack™ series ATA devices have been certified by Microsoft, together with our certified SBC. Note that the LAD feature should be ordered to allow an analog line to be connected to the SBC.
- **E-911/Emergency Location Identification Number (ELIN) with Teams Direct Routing:** E-911 is a national emergency service for many countries, enabling E-911 operators to automatically identify the geographical location and phone number of an emergency caller. The emergency called number is routed to the nearest E-911 operator (termed *public safety answering point* or PSAP) based on the caller's location. E-911 was previously available for Microsoft Skype for Business Server and is now also supported by Teams. Therefore, businesses migrating to Teams can continue complying with local law and regulations regarding emergency services. Regardless of a user's physical location, the PSAP can retrieve the location of the user and provide this to emergency service responders. SBCs can provide Emergency Location Identification Number (ELIN). If an SBC ELIN application is integrated into a Direct Routing deployment, the emergency addresses and associated telephone numbers need to be configured in the ELIN application, and the ELIN records then need to be uploaded to the emergency calling database of the respective PSTN. Teams emergency locations with an ELIN identifier must match those in the ELIN application.
  When an emergency call with a dynamically acquired location is routed to the appropriate SBC, the ELIN application:
  - Parses the emergency location of the caller.
  - Matches the location to an ELIN record.
  - Substitutes the emergency caller's number with the ELIN phone number.
  - Routes the call to the PSAP serving that location, and then the dispatchers obtain the location from the uploaded ELIN record.
  - Call back is supported by the ELIN Gateway scenario.

  AudioCodes SBCs are certified for both use cases:
  - Connected directly to an E-911 provider (Intrado, RedSky, and Bandwidth).
  - As an ELIN Gateway, this is used when the enterprise is not connected directly to an E-911 provider.

Supported Software Versions

- **Local Media Optimization:**
  - SBC: Version 7.20A.256.721 or later
- **Teams Analog Device:**
  - SBC: Version 7.20A.254.202 or later
  - MP-1xx: Version 6.60A309.001 or later
  - MP-2xx: Version 4.4.9_Build_111 or later
- **E-911/**ELIN **with Teams Direct Routing:**
  - SBC: Version 7.20A.256.396 or later

Affected Products

- Mediant 500 SBC
- Mediant 800 SBC
- Mediant 2600 SBC
- Mediant 4000 SBC
- Mediant 1000B SBC
- Mediant 9000 SBC
- Mediant Virtual Edition SBC
- Mediant Cloud Edition SBC
- MP-1xx (ATA Device, Analog Device GW) – for Teams analog device
- MP-2xx (ATA Device, Analog Device GW) – for Teams analog device

If you have any questions, contact us at
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