audiocodes

Product Notice #415

Software Update for AudioCodes SBCs & Gateways
-- Major Version 7.40A.100 --

AudioCodes is pleased to announce the release of major software update **Version 7.40A.100** for AudioCodes' Session Border Controllers (SBCs) and Media Gateways. This is a Latest Release (**LR**) version (7.40A.100.021).

This update includes many new and exciting features. Some of the key features are listed below. For a full description of this release, refer to the [Release Notes](#) on AudioCodes website.

This software update is available for download from AudioCodes Services Portal at https://services.audiocodes.com (registered customers only).

Key Features

- Voice Quality Monitoring and Enhancements:
    - SBCs can now measure and report MOS (value and color) for SIP and WebRTC users that are registered with the SBC. This information is displayed by the Web GUI in the Registered Users table and can also be viewed through CLI.
    - In case the MOS of a registered user falls below a defined threshold, the SBC can automatically switch to a more robust voice coder and IP profile (e.g., from G.7.11 to Opus) for new calls. This supports improved voice quality with efficient use of DSP resources that are required for advanced voice coders.
    - The SBC can calculate MOS estimation based on RTCP, without the need for RTCP-XR packets. This is especially useful, for example, for WebRTC calls where WebRTC clients typically don't send RTCP-XR reports.
    - Guaranteed WebRTC click-to-call experience by testing the voice quality of WebRTC clients. The test is automatically triggered when a user accesses the web page on which the WebRTC click-to-call widget button is displayed. In case low voice quality is detected, different actions may be taken such as deactivating (graying out) the button and/or displaying an appropriate message indicating bad network conditions.
- Microsoft Teams Local media optimization for conference calls – the SBC integrates with Microsoft teams SIP servers to dynamically select the optimized media route according to the location of the PSTN caller and the Teams' client. Resulting with better voice quality, reduced latency, and less bandwidth consumption.
- Security Updates:
    - For increased security, the relatively weak TLS versions 1.0 and 1.1 have been removed from the SBC's default TLS Version.
    - The OpenSSL version embedded in the SBC has been updated to Version 1.1.1i.
    - SNMPv3 users can now be configured with SHA-2 authentication.
    - The offered SRTP crypto suite can now be configured per IP Group. Up until now, crypto suites could only be configured globally.
    - Secure RTCP (SRTCP) packet encryption can now be configured per IP Group. Up until now, SRTCP could only be configured globally.
    - The SBC's NGINX HTTP Reverse Proxy can now be configured to authenticate HTTP requests with an LDAP server.
    - The SBC can be configured to always prefer secured media in the outgoing SDP answer.
- The SBC's Web UI for Registered Users has been re-designed and enhanced to display more detailed information per user, for example, the user's estimated MOS score and whether or not the SIP user is located behind NAT. The new Web UI displays all registered users and provides search capabilities.
- To comply with the constantly growing capacity requirements of complex networks, the capacity of the following tables was increased (refer to [Release Notes](#) for actual figures):
    - Call Setup Rules table
    - Accounts table
    - Message Manipulations table
- The SBC can now generate *Intermediate* Session Detail Records (SDR) during the call, this is in addition to SDR records generate at the start and end of calls.

Affected Products

All hardware-based and software-based SBC platforms.