# GL Communications Inc.

**Telecommunications** ● **Software** ● **Consulting**

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April 2024

## Release Notes for MAPS™ ED137 - version 24.4.17

| Reason for Release / Description of Enhancement | Version |
|---|---|
| **MAPS™ ED137 Recorder**<br><br>**Enhancements:**<br>• Application is enhanced to support calls over IPV6.<br>• Application is enhanced to support all the features as per ED137C_Volume_4_Recorder Change 1 and Change 2 recommendations.<br>• Application is enhanced to support RTP over UDP using user defined Client Port and Server Ports. | **24.4.17** |
| **MAPS™ ED137 Recorder**<br><br>**Enhancements:**<br>• Supports version C as per ED137-4C volume 4 Recorder.<br>• Supports recording 2-byte base R2S header.<br>• Supports recording R2S header extensions (R2S-TLV).<br>• In unicast recording sessions, SSRC assigned by Recorder Server is used for media stream.<br>• Recording Client supports RTSP session keep alive by sending GET_PARAMETER requests periodically.<br>• Supports checking Recorder Server liveliness by sending RTSP OPTIONS requests.<br>• Supports simulating proprietary CRD metadata.<br>• Updated with Recorder version 'recorder.02'.<br>• Recorder Server supports RTSP session time out if no request is received within timeout value.<br>• Simulates Caller Rejected calls, Attended Call Transfer, joining conference etc.<br>• New Properties include - Call Type, Client Type, Client ID and Disconnect Reason.<br>• New Operations include - ConfRef, Radio Access Mode, R2S and R2S-TLV.<br><br>**Bug Fix:**<br>• Provided fix for Channel Identifier (CID), changed it from host byte order to network byte order. | **19.11.20** |
| **MAPS™ ED137 Recorder**<br><br>**Enhancements:**<br>• Enhanced to generate RTP payload over TCP as per negotiated packetization time<br>• Enhanced to handle listen action when packetization time is more than 100 milli seconds<br><br>**Bug Fixes:**<br>• Provided fix to handle RTSP messages without "Content-length" header.<br>• Removed delay in voice for listen action on multiple session.<br>• Handled absence of codec rtpmap attribute in SDP offer.<br>• Removed delay in pushing RTP TCP socket to listen mode for incoming connections. | **9.1.21** |

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| | |
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| **MAPS™ ED137 Recorder**<br><br>**Enhancements:**<br>• Supports Interleaved transport type<br>• Changing profile architecture of entering number of users connected to remote end<br><br>**Bug Fixes:**<br>• Applying DSCP value for signalling and RTP frames.<br>• Writing voting operation to csv.<br>• Handling different forms of RTSP URL.<br>• Providing option to specify recorder IP and port separately.<br>• Removing RTSP listening port from profile. | **8.7.27** |
| **MAPS™ ED137 Recorder**<br><br>Initial release with following features:<br><br>• Emulates Recorder interface at CWP, GRS and Recorder endpoints as per ED-137/4B standards.<br>• Simulation using Real Time Streaming Protocol (RTSP) to establish, terminate and maintain media sessions to deliver media to recording servers.<br>• Up to 200 RTSP sessions can be generated or recorded simultaneously.<br>• Simulates Recorder interface for both Air-to-Ground and Ground-to-Ground calls.<br>• Easy to use Event button options on Call Generation (CWP) window – such as Voting, Simultaneous SQL, Start Squelch, Call Intrusion, and Call Transfer.<br>• GUI options to easily add custom call record data properties and operations and customization of each CWP/GRS profile to emulate an AG/GG call.<br>• Call Record Data of each session is stored in CSV format. | **8.4.16** |