

Meeting Insights On-Prem

Solution Description

Version 2.2

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Notice

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This document is subject to change without notice.

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Security Vulnerabilities

All security vulnerabilities should be reported to vulnerability@audiocodes.com.

Customer Support

Customer technical support and services are provided by AudioCodes or by an authorized AudioCodes Service Partner. For more information on how to buy technical support for AudioCodes products and for contact information, please visit our website at <https://www.audiocodes.com/services-support/maintenance-and-support>.

Stay in the Loop with AudioCodes



Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
26016	Initial document release for Version 2.0.

Documentation Feedback

AudioCodes continually strives to produce high quality documentation. If you have any comments (suggestions or errors) regarding this document, please fill out the Documentation Feedback form on our website at <https://online.audiocodes.com/documentation-feedback>.

1 Introduction

1.1 Advantages of the AudioCodes MIA OP Transcription and Summary Solution

MIA OP is an advanced meeting transcription and summary solution designed to transform the way your organization records and manages essential information. Installed on a local server, MIA OP is tailor-made to meet the stringent security needs of organizations in sectors like healthcare, finance, and government, ensuring top-tier information security without compromise.

In today's fast-paced business world, meetings play a central role in driving progress. However, accurately documenting these meetings can be time-consuming and require significant resources. MIA OP elegantly addresses this challenge by offering a powerful solution that saves time, enhances accuracy, and boosts productivity.

While there are various software solutions on the market for recording and transcribing meetings, most rely on cloud services from large providers such as Microsoft and Google, limiting accessibility for organizations that are prohibited from using cloud services or require strict on-premises solutions. Additionally, automatic meeting summaries generated using advanced NLP technologies like LLM often fall short of human-level accuracy and still require manual editing. As a result, many organizations continue to manually dictate key points and tasks at the end of meetings.

Summary of Key Advantages:

- 1. A Single, Centralized Platform for Management**
Meeting Insights On-Prem allows organizations to securely document, organize, and store every critical detail from their meetings. The solution consolidates all meeting data into one searchable, on-premises platform, ensuring that every important insight is preserved and accessible while maintaining full data privacy and security.
- 2. On-Premises Installation with No Internet Dependency**
Meeting Insights On-Prem is installed on local servers, enabling organizations to operate completely independently, without reliance on internet connectivity or cloud services. This eliminates external dependencies and provides a flexible, efficient solution ideal for sensitive environments.
- 3. AI-Powered Custom Insights for Accuracy and Efficiency**
The solution integrates advanced generative AI technology along with a built-in SLM engine to generate automated transcripts, tailored summaries, and actionable insights from meetings. This technology significantly enhances organizational efficiency and supports faster, smarter decision-making.
- 4. Customization to Organizational Language and Jargon**
Organizations can define unique terminology tailored to their internal language and jargon. With advanced features such as automatic speaker identification and precise punctuation, the result is highly accurate, customized transcription that delivers real value to the organization.
- 5. Advanced Editing Tools for Action-Ready Outputs**
The solution includes an innovative real-time editing and proofreading system, enabling immediate corrections and transcription enhancements during the process. These tools ensure high-quality, accurate documentation that meets the highest standards of modern organizations.
- 6. Smart Automation for Task Management and Workflow Optimization**
Meeting Insights On-Prem accelerates post-meeting workflows through full automation of key actions, including automatic summary distribution, task assignment, and follow-up tracking. These capabilities streamline operations and ensure smooth, effective process management.

7. Seamless Integration with UC Platforms and Contact Centers

The solution integrates seamlessly with leading unified communication and contact center platforms such as Avaya, Nice, Genesys, Verint, and Cisco. It ensures full compatibility with existing enterprise infrastructure, improving workflow and enhancing both internal and external communication.

8. Smart Integration and Advanced Process Automation

Meeting Insights On-Prem connects effortlessly with existing enterprise systems, leveraging intelligent automation to perform routine and operational tasks. This improves workflow, reduces the need for manual intervention, and elevates organizational efficiency to a new level of performance.

9. Unmatched Security for Sensitive and Demanding Sectors

Meeting Insights On-Prem is designed specifically for organizations operating in highly secure environments. The solution ensures fully secure data management, strict compliance with privacy and regulatory requirements, and gives organizations peace of mind and full operational confidence.

Key Benefits of MIA OP:

Complete Flexibility: Suitable for all meeting types—whether face-to-face, virtual, or hybrid.

AudioCodes' MIA OP solution offers a range of services tailored to organizational needs:

- **Accurate Online Summaries:** MIA OP captures and transcribes only the critical meeting segments, such as summaries of key topics, decision-making, and task assignments.
- **Online Dictation and Proofing:** MIA OP records and transcribes all dictated content in real-time, allowing users to view and make corrections immediately during dictation.
- **Offline Transcription and Proofing:** Users can load multiple audio files into the system for transcription, assign files to different transcribers, and track progress through intuitive tools.

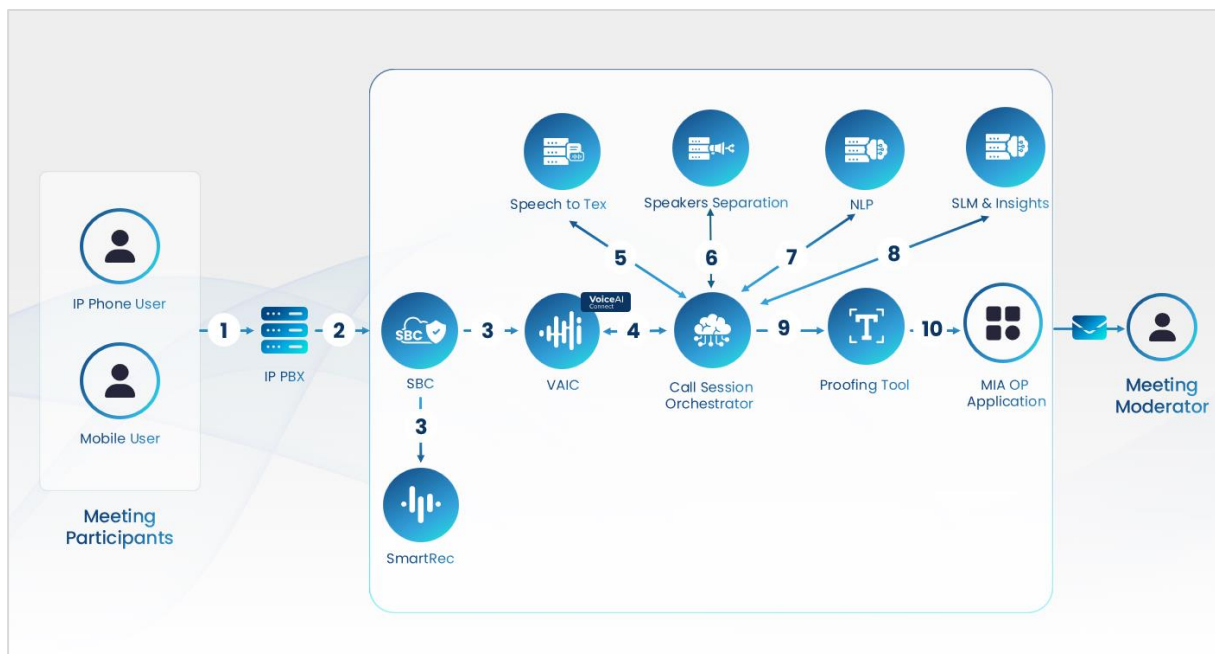
Breakthrough Technology:

Powered by AudioCodes' Speech-to-Text (STT) engine, MIA OP ensures high transcription accuracy, particularly with Hebrew, and is customizable to the organization's unique glossary and world of content. Speaker recognition further enhances accuracy by identifying different speakers via voice signatures.

2 Common Architecture Description and Use Cases

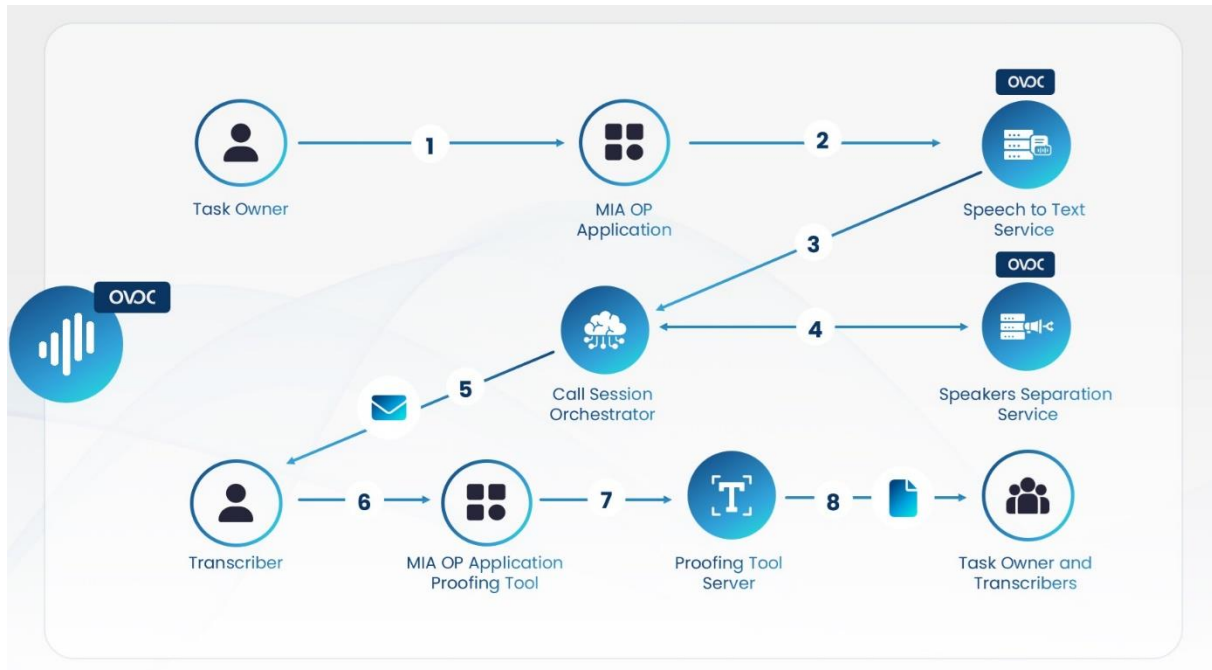
There are numerous ways to design a recording and transcription solution that can be tailored to the specific needs of each client. In building these solutions, we consider a range of factors, such as required services and applications, customer login methods, notification preferences for when transcription work is complete, and the number of supported channels. Below are some common use cases utilized by our clients:

2.1 Transcription Solution with Phone User Connectivity



1. The meeting leader dials into a designated number for the online meeting.
2. The call is processed through the customer's telephony system and routed to AudioCodes' SBC (Session Border Controller).
3. The call is forwarded to SmartRec for recording and storage (planned for 2025).
4. The call is then sent to VAIC for transcription and further processing.
5. The Orchestrator system manages the process, ensuring that transcription is performed.
6. The system separates the speakers within the audio file.
7. It also adds punctuation to the transcribed text.
8. Additionally, the system will eventually support atomic summaries using the SLM model (planned for 2025).
9. Once the transcription and speaker separation are completed, Orchestrator sends the transcribed file to the meeting leader or a human transcriber for further correction and editing using advanced cloud-based tools.
10. The moderator or professional transcriber uses the MIA OP Proofing tool to make corrections and edits to the transcription. Each correction made helps improve the system's accuracy over time.
11. After the corrections, the final file, formatted in Word and the organization's predefined format (Template), is sent to the meeting participants via email.

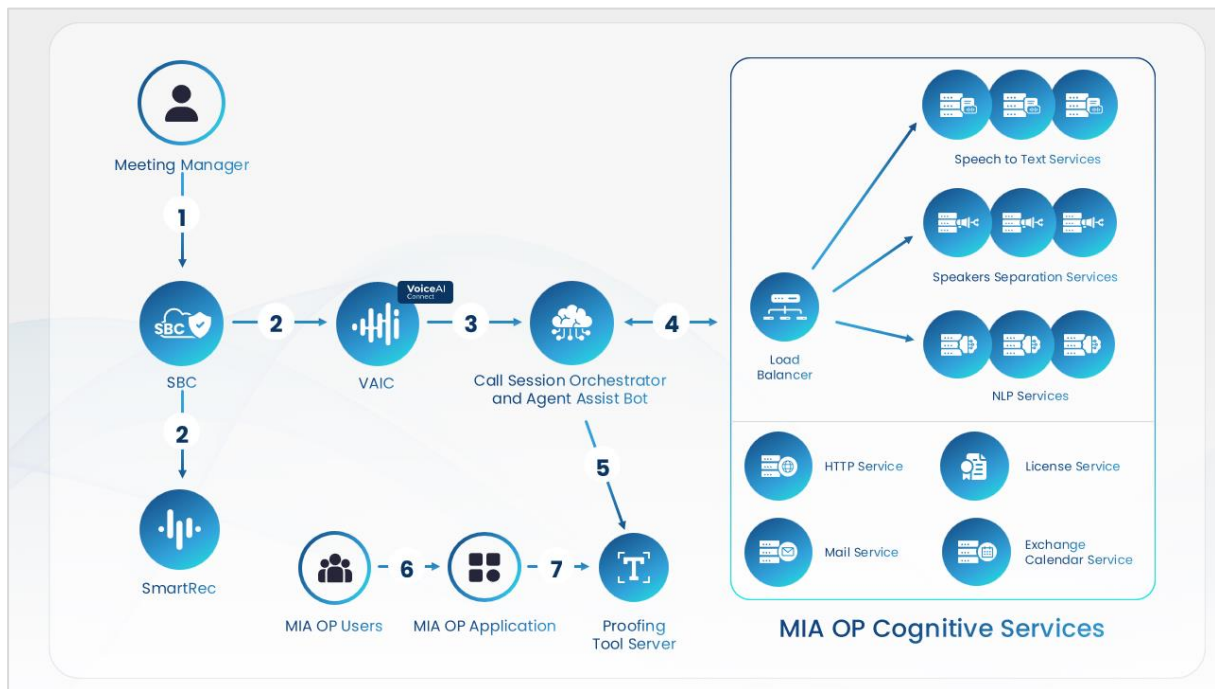
2.2 Solution for Recording, Transcription, and Proofing of Meetings in Conference Rooms



This use case applies when all meeting participants are in the same room, eliminating the need for telephone connectivity.

1. The meeting leader initiates a new task using the MIA OP transcription task management app.
2. The leader records important parts of the discussion, such as decisions, using recording threads.
3. Once the discussion concludes, the recorded audio file is generated.
4. The audio file is then transferred to a transcription server.
5. After the transcription, Orchestrator processes the file for speaker separation.
6. Following transcription and speaker separation, Orchestrator sends the transcribed file to the meeting leader or a human transcriber for final editing.
7. The meeting leader or transcriber uses the MIA OP Proofing tool to correct and edit the transcription.
8. Every correction made improves the system's transcription accuracy over time.
9. The finalized file, in Word and organizational summary format (Template), is emailed to the discussion participants.

2.3 Transcription Solution with Bulk Channel Support



In this scenario, special attention is paid to MIA OP Cognitive Services. The main difference here is the use of a Load Balancer, which manages multiple channels and optimizes the distribution of tasks across several services, including:

- Speech-to-Text Service
- Speaker Separation Service
- NLP Service

Each of these services works together to efficiently handle high-volume transcription tasks, ensuring scalability and reliability. Detailed descriptions of each service's role are provided in the following sections.

3 Description of the Services of Transcription Servers

This document serves as a collection of smaller sub-manuals, each dedicated to explaining the components and services that make up the Meeting Insights On-Prem system. The following sections provide detailed descriptions of the core services involved in managing voice-to-text conversion, speaker separation, authentication, and more.

■ Call Session Orchestrator

The orchestrator manages the process and links all components and services.

Responsible for communicating with the STT/SRD/PTT server and the Database server.

■ Speech to Text Service

This service handles real-time or offline voice-to-text conversion and includes several features:

- **Ad hoc glossary:** Supports a dynamic dictionary of organizational concepts, including phonetic representations.
- **Spotting Phrases:** Discovers key phrases from a predefined list.
- **Hot Phrase Detection:** Detects key phrases in real-time or offline.
- **ASR (Automatic Speaker Recognition):** Syntax-based speech recognition for voice-activated services.

Multiple instances can be run to support the required amount of voice channel transcription.

■ Speakers Separation Service

Speaker Separation: Audio segmentation by speaker without sound signatures.

Speaker Segmentation: Segments audio by speaker with voice signatures, incorporating an enrollment process.

Multiple instances can be run to support the required amount of voice channel transcription.

■ NLP Service

This service adds punctuation to texts created from speech-to-text conversion.

Multiple instances can be run to support the required amount of voice channel transcription.

■ Load Balancer

Manages and balances the load between different components for optimal system performance.

■ License Service

Manages the licensing for the MIA OP system.

■ Authentication Service

Verifies user identity before granting system access.

Can manage local users or integrate with external user management systems like Active Directory.

■ HTTP Service

Provides web access services for system management.

Used to manage recordings, transcriptions, and offer recording, editing, and dictation services.

■ Mail Service

Enables sending transcribed, edited, and corrected discussion summaries via email.

Interfaces with the client-provided SMTP server.

■ Calendar Exchange Service

Retrieves user meetings from the corporate Exchange to identify participants when recording from the browser.

Uses the LDAP protocol for corporate server authentication.

■ **Voice Recorder Service**

Allows sound recording via a microphone on a computer using a Chrome browser.

Enables simultaneous recording and transcription.

This manual contains individual sections for each service, guiding you through installation, configuration, and operation to ensure a seamless integration of the AudioCodes Speech System.

3.1 Connectivity and Management Product Description

MIA OP Application & Proofing Tool

The MIA OP Application is a powerful tool for managing transcription tasks and optimizing transcribed content. It provides full control over the transcription process, allowing users to define various task types, upload files, assign optimizers to specific files, and track the progress of transcription tasks. The application also includes an intuitive optimization tool to refine and enhance the accuracy of transcribed files.

OVOC (One Voice Operations Center)

OVOC offers centralized management for all solution servers, providing advanced command, control, and real-time monitoring of system status and malfunctions. It enables version upgrades and tracks KPIs for devices such as the MIA OP, SBC, VAIC, and SmartRec. OVOC simplifies the management of AudioCodes solutions by ensuring seamless operations across multiple components.

SBC (Session Border Controller)

The SBC provides seamless connectivity, enhanced security, and sound quality assurance for voice communication environments at scale. It typically connects UC, Contact Centers, and SIP trunk services, supporting an organization's migration strategies while protecting it from fraud and malicious attacks.

VAIC (Voice.AI Connect)

VoiceAI Connect serves as a communication hub between bot frameworks, telephony systems, and cognitive speech services, based on AudioCodes' expertise in voice technology. It supports a wide range of use cases for voice bots, such as Virtual Agents, IVR Call Handling, Agent Assistance, and Outgoing Calls, making it an essential component for organizations leveraging AI-driven voice interactions.

SmartRec

SmartRec is a comprehensive call recording and logging solution that enables organizations to capture, maintain, and index customer and internal communications across all channels. It ensures quality and compliance for both customer interactions and internal communications.

3.2 Application User Interface Description

A unique application for task management and transcription refinement, allowing full control over the process. With this application, users can define different types of tasks, upload files to the system, assign transcribers to each file, track the progress of transcription tasks, and of course, refine the transcribed files using a convenient editing tool.

Each user can choose whether their user interface appears in **light** or **dark** mode.

Figure 1: Transcription Task List – Light Mode User Interface

MIA OP Tasks List

Tasks List Dashboard

Search... Filter Add new task

Task name	Task type	Files number	Creation time	Estimated transcription time	Transcribers Admin Mail	Transcription status	Last status update time	Files list
Task 1	Online meeting transcription Microphone	1	07 Aug , 12:22	13 Min	Admin@gmail.com +3	Error	07 Aug , 16:40	Files list
Task 2	Offline files transcription	3	07 Aug , 12:23	13 Min	Admin@gmail.com +3	Waiting	07 Aug , 16:40	Files list
Task 3	Dictation	1	07 Aug , 15:50	13 Min	Admin@gmail.com +3	In progress	07 Aug , 16:40	Files list
Task 4	Offline files transcription	1	07 Aug , 16:42	13 Min	Admin@gmail.com +3	Ready	07 Aug , 18:40	Files list
Task 5	Online meeting transcription Bot	7	07 Aug , 16:45	13 Min	Admin@gmail.com +3	Proofing	07 Aug , 19:30	Files list
Task 6	Offline files transcription	1	08 Aug , 17:10	13 Min	Admin@gmail.com +3	Final ready	08 Aug , 17:10	Files list
Task 7	Online meeting transcription Phone	24	08 Aug , 18:20	13 Min	Admin@gmail.com +3	Error	08 Aug , 18:20	Files list
Task 8	Dictation	1	09 Aug , 11:30	13 Min	Admin@gmail.com +3	Final ready	09 Aug , 11:30	Files list
Task 9	Dictation	1	09 Aug , 14:40	13 Min	Admin@gmail.com +3	Waiting	09 Aug , 14:40	Files list
Task 10	Dictation	1	09 Aug , 14:40	13 Min	Admin@gmail.com +3	Waiting	09 Aug , 14:40	Files list

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Figure 2: Transcription Task Summary – Light Mode User Interface



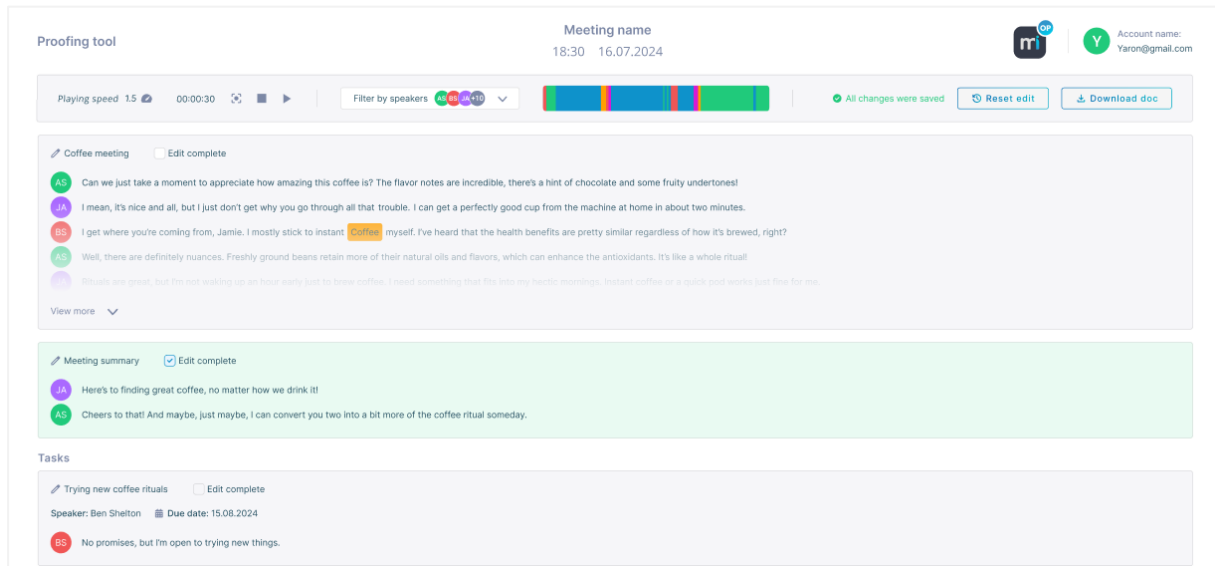
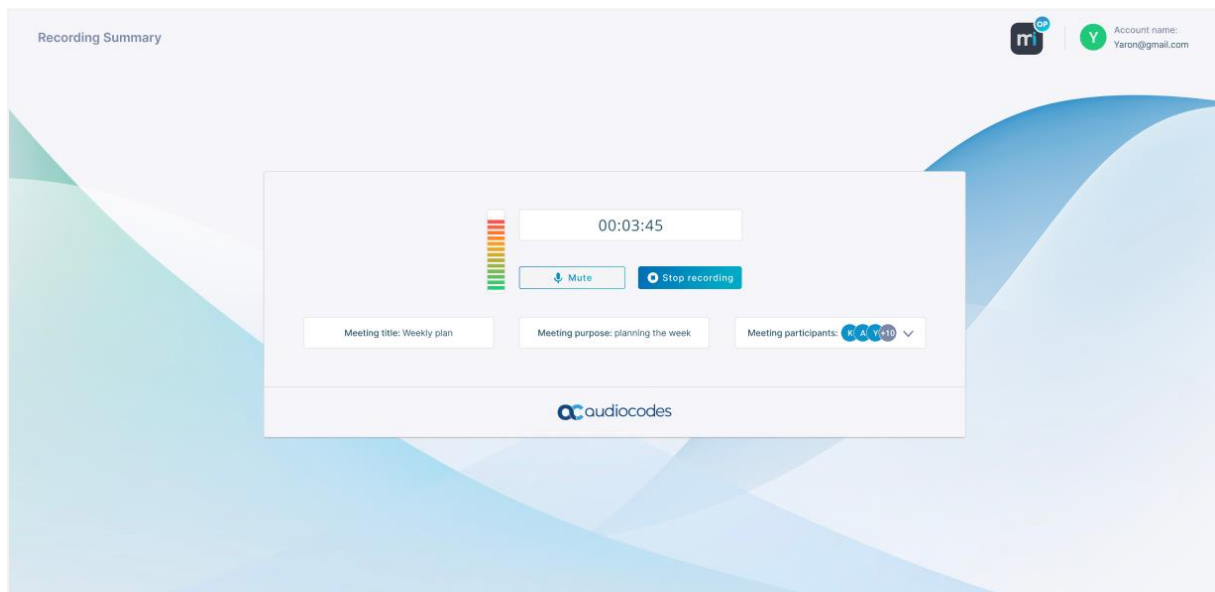
Figure 3: Transcription Editing and Refinement Tool – Light Mode User Interface**Figure 4: Online Meeting Recording Screen – Light Mode User Interface**

Figure 5: Transcription Task List – Dark Mode User Interface

Transcription tasks list

Transcription tasks list | Dashboard summary

Search: Filters:

<input type="checkbox"/>	Task name	Task type	Number of files	Upload time	Est. transcription time	Admin and transcribers' email	Status	Last updated date	Files list
<input checked="" type="checkbox"/>	Task 1	Online meeting transcription Microphone	1	13 minutes	15 minutes	Admin@gmail.com +3	Error	07 Aug, 16:40	
<input type="checkbox"/>	Task 2	Dictation	1	13 minutes	15 minutes	Admin@gmail.com +3	Waiting	07 Aug, 16:40	
<input type="checkbox"/>	Task 3	Offline files transcription	1	13 minutes	15 minutes	Admin@gmail.com +3	In progress	07 Aug, 16:40	
<input type="checkbox"/>	Task 4	Online meeting transcription Microphone	1	13 minutes	15 minutes	Admin@gmail.com +3	Ready	07 Aug, 16:40	
<input type="checkbox"/>	Task 5	Offline files transcription	1	13 minutes	15 minutes	Admin@gmail.com +3	Proofing	07 Aug, 16:40	
<input type="checkbox"/>	Task 6	Online meeting transcription Microphone	1	13 minutes	15 minutes	Admin@gmail.com +3	Final ready	07 Aug, 16:40	
<input type="checkbox"/>	Task 7	Dictation	1	13 minutes	15 minutes	Admin@gmail.com +3	Error	07 Aug, 16:40	
<input type="checkbox"/>	Task 8	Offline files transcription	1	13 minutes	15 minutes	Admin@gmail.com +3	In progress	07 Aug, 16:40	
<input type="checkbox"/>	Task 9	Offline files transcription	1	13 minutes	15 minutes	Admin@gmail.com +3	Final ready	07 Aug, 16:40	
<input type="checkbox"/>	Task 10	Online meeting transcription Microphone	1	13 minutes	15 minutes	Admin@gmail.com +3	Final ready	07 Aug, 16:40	

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Figure 6: Transcription Task Summary – Dark Mode User Interface

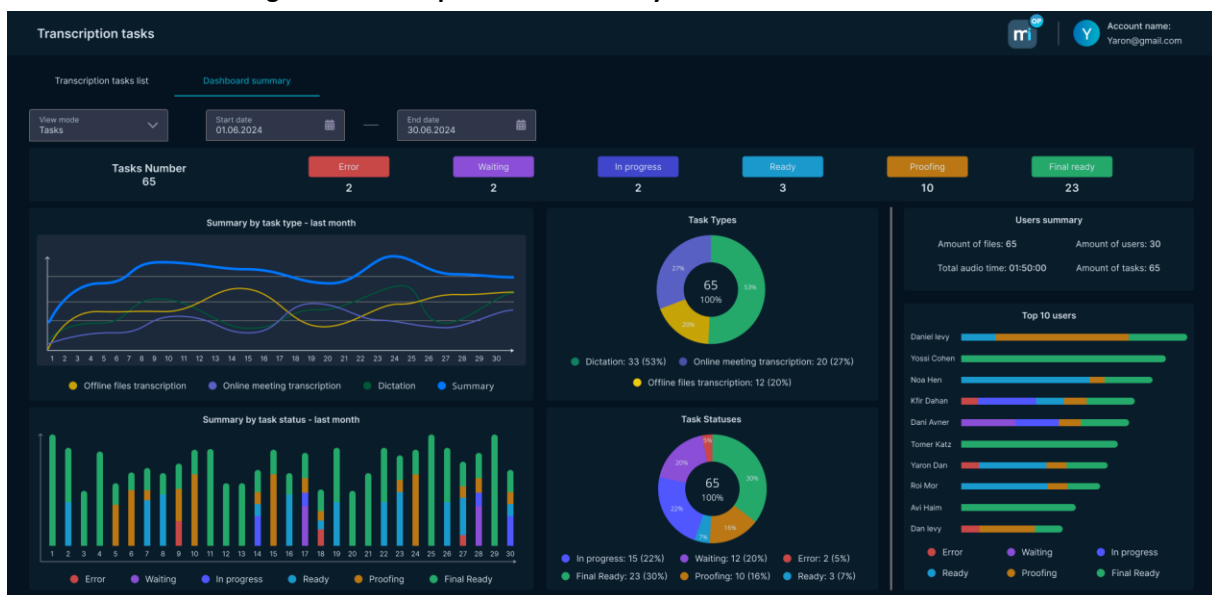


Figure 7: Transcription Editing and Refinement Tool – Dark Mode User Interface

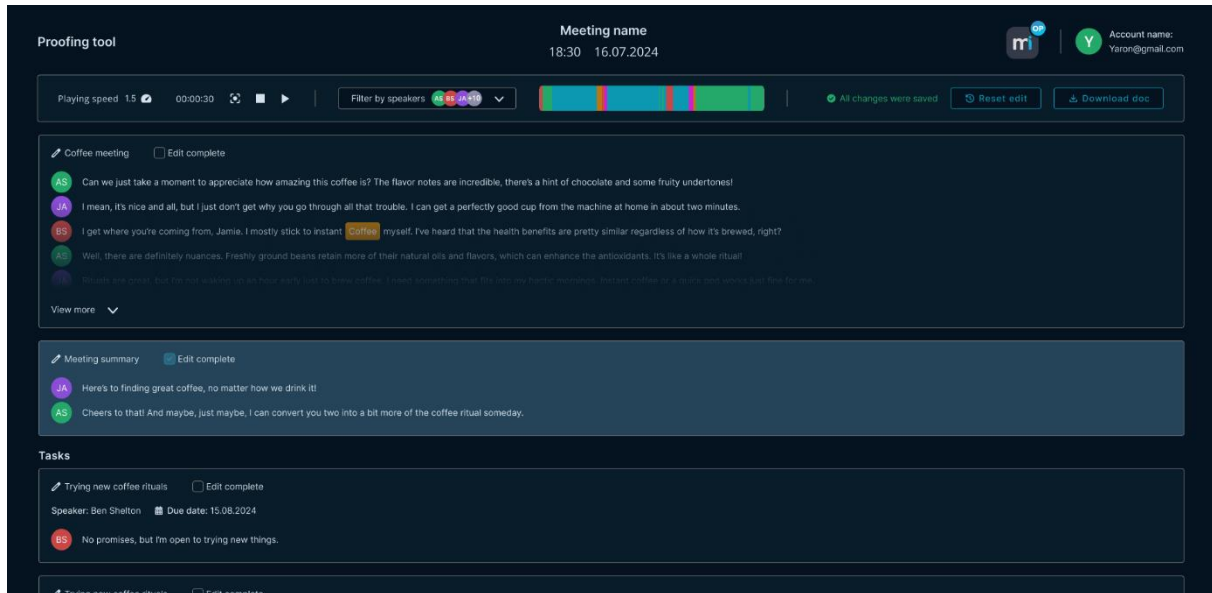
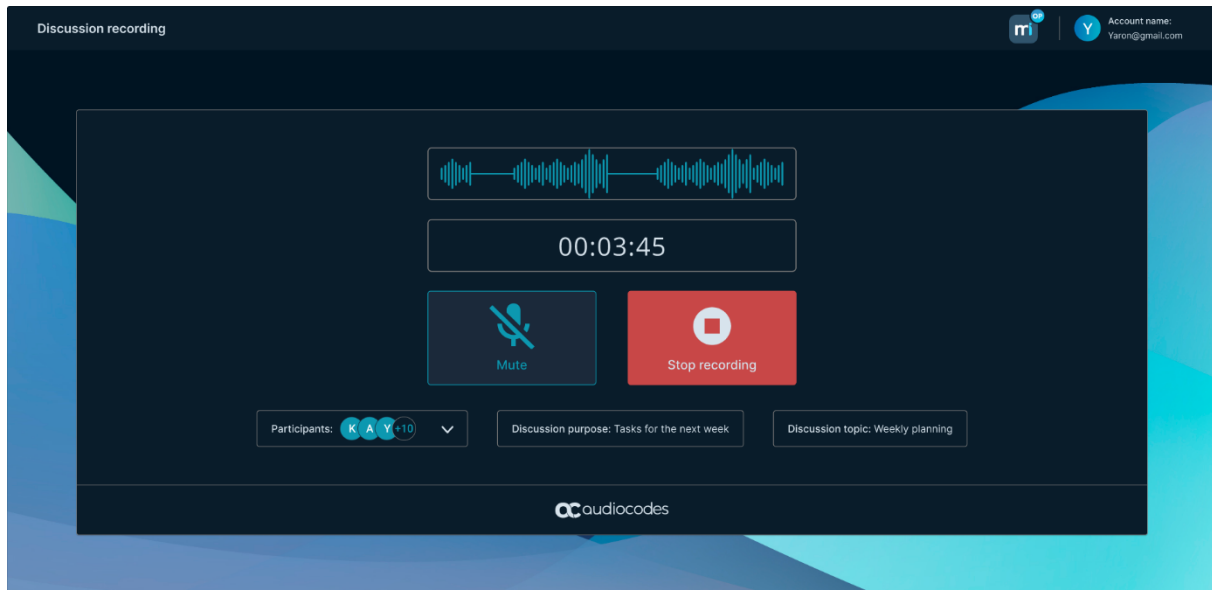


Figure 8: Online Meeting Recording Screen – Dark Mode User Interface



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