Administrator Guide

AudioCodes SmartTAP<sup>™</sup> 360°

# SmartTAP 360°

# SmartTAP 360° Enterprise Recording Solution

Version 5.6





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# **Abbreviations and Terminology**

Microsoft Teams/Microsoft Skype for Business are used interchangeably in this document unless specified otherwise. References to Microsoft Teams are explicitly indicated.

# **Related Documentation**

Document Name
SmartTAP 360° Release Notes
SmartTAP 360° Installation Guide
SmartTAP 360° Hardware and Software Requirements
SmartTAP 360° for Microsoft Teams Deployment Guide
SmartTAP 360° Genesys Integration Guide

# **Document Revision Record**

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LTRT	Description		
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LTRT	Description
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27606	Update to Section "Adding a Recording Profile".

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# 1 About SmartTAP 360°

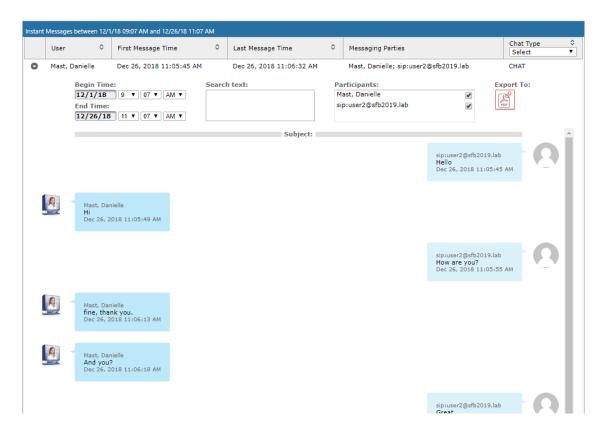
AudioCodes SmartTAP 360° Live is an intelligent, fully-secured enterprise compliance-recording solution, allowing companies to capture and index any customer or organizational interactions across both external and internal communication channels. Companies using Microsoft Teams can seamlessly apply SmartTAP 360° to record all voice, video and IMs interactions for later-stage AI analysis and for meeting regulatory compliance demands. Using an integral Skype for Business recording toolbar, enterprise users can record with SmartTAP 360° anywhere and any-time they are on Skype for Business calls.





SmartTAP 360° includes audio video and instant messaging recording capabilities.

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# **SmartTAP 360° Benefits**

SmartTAP 360° benefits organizations and enterprises as follows:

- Captures corporate interactions including voice, video, desktop sharing and instant messages.
- Recordings can be used for customer analytics to provide intelligence of customer dealings to serve at the basis for improving key performance indicators and thereby enhance customer satisfaction and loyalty.
- Minimizes exposure to disputes and mitigates the risk of reputation damage.
- Supports internal, external and mobile interactions from both remote and federated users.
- Certified by Microsoft Teams as an On-premises call recording solution for Microsoft Teams customers. The solution has been tested and verified to provide the quality, compatibility, and reliability that organizations and customers expect from Microsoft solutions, backed by best-in-class product maintenance, service operations, and support.
- Compliance-grade recording and regulation-specialized features.

#### **Competitive Advantages**

#### User Friendly

- Intuitive Web-based screens make training easy. No downtime for training.
- All browser-based access with no additional client desktop software.

• Supports any Wi-Fi tablet or smartphone.

#### Economical

- Large system features at a fraction of the cost.
- Linear growth of SmartTAP 360° concurrent conversations no forklift upgrades.
- Add one license at a time, or a hundred.
- Lowest total cost of ownership.
- Centralized architecture reduces hardware investments.

#### Scalable

- Start with a low number of recordings and scale upwards.
- Supports for single site, multi-site, and cloud deployments.
- Start with recording and then expand capabilities with easy-to-add modules.

#### **Features Overview**

The table below lists and describes AudioCodes SmartTAP 360° recording features.

Table 1-1: SmartTAP 360° Features

Feature	Details
Status Page	Displays the current user call status
	Live Call Monitoring
	Notes can be added to an active call
	Allows switching between Grid and List View
	Pause / Resume Recording
	Record or Save on Demand
Record or Save on Demand	Record on Demand (ROD): Recording contains audio from the point network administrator decides to record the call.
	Save on Demand (SOD): Recording contains audio from the beginning of the call.
	Recording using ROD or SOD is manually selected from the GUI or Skype for Business CWE or Microsoft Teams client extension
	Any target provisioned as ROD or SOD can manually control start/stop recording.
	Any user with appropriate security profile credentials can

Feature	Details
	manually trigger a recording of another user's calls.
PCI Compliance	Capability to pause / resume a recording during sensitive areas of a conversation with a customer, e.g., when taking Credit Card details.
	Manual process, executed from the Status page.
Recording Profiles	Create and assign to multiple parties to define the recording method.
	Full Time Recording – Automatic audio or video recording.
	Record on Demand – Audio recording is manually triggered from the Status page in the Web interface or Skype for Business Conversation Window Extension (CWE) toolbar
	Save on Demand – Audio or Video recording is manually triggered from the Status page in the GUI or from the Skype for Business CWE toolbar
	PCI (Payment Card Industry) Pause / Resume Recording (Optional) – Audio recording is manually triggered from the Status page in the GUI or from the Skype for Business CWE toolbar.
	IM recording – Automatic Instant Message recording.
Security Profiles	Creation and assignment to multiple parties to define security access in SmartTAP 360°.
LDAP Integration	Allow SmartTAP 360° to use Active Directory users, groups, and security groups
	LDAP Filtering by user, group or security group.
Microsoft Teams Integration	Record calls of Targeted Users on different devices, including Teams desktop, web, mobile applications and phones.
	Record the calls audio, video, instant messaging and screen sharing.
	<ul> <li>Microsoft Azure Active Directory users mapping into SmartTAP 360°Live.</li> </ul>
Legal Hold	The user's retention process does not purge their

Feature	Details
	recordings when placed on legal hold.
Audit Trail	Search audit trail based on date range, user, set of users.
	Filtering of search results directly in the results screen, sorting ascending/descending by clicking column header, shortcuts to the beginning/end page within the results screen.
	Export of Audit Trail results and call Meta Data to Excel file.
Flexible and Powerful Call and Instant Message	Search criteria based on date range, time of day range, user, set of users, group, set of groups, etc.
Search Capabilities	Easily filter search results, sorting ascending/descending by clicking column header, shortcuts to the beginning/end page within the results screen.
	Use of a * symbol 'wild card' to apply a filter.
	Columns can be added to / removed from the results screen.
	Search for calls based on Calling (Caller ID), Called or Answering Party
	Search for calls based on assigned Call Tag, including Notes.
	Search for Instant Messages based on included strings.
	Easily export Call Meta Data from search results to Excel file.
	Easily export an Instant Message conversation to a PDF file.
Playback (Call Listen/Download/Email)	Fast-forward / Rewind or select playback position controls.
	Volume control.
Call and Instant Message Retention	Number of retention periods can be added and applied to specific user(s).
	Recordings are automatically deleted based on retention period.
	Option to retain recordings based on evaluation status.

Feature	Details
Automatic Email Notifications	Automatic email notifications when Alarms are triggered or thresholds are exceeded (Recording licenses or Storage capacity).
Encryption of Stored Recordings	Option to encrypt stored audio recordings.
Recordings Storage in Local Drive, NAS or SAN	Recordings stored in local hard disk or in NAS/SAN through Windows share (SMB).
	Recording stored on Microsoft Azure Blob which is used for high-scale and secure object storage for cloud-native workloads, archives, data lakes, high-performance computing, and machine learning.
Compression of Stored Recordings	Audio recordings stored as G.711 (normal compression) or G.729a (high compression).
Agent Evaluation	Evaluation forms can be created: agent evaluations, review evaluations, and reports can be generated.
Distributed Architecture	One SmartTAP 360° may be deployed across multiple physical locations.
	Recording on remote locations is not interrupted even if connection to main site is down.
Multiple Call Protocols and Physical Interfaces Share	• One SmartTAP 360° server is capable of recording diverse call signaling and voice protocols.
the Same UI	SmartTAP 360° records PSTN, Microsoft Teams/Skype for Business, Analog, and VoIP simultaneously and transparently to end users.
Skype for Business Client Toolbar	Auto extended Skype for Business CWE for convenient access to features like ROD / SOD, PCI and Call Tagging
Call Tagging	User definable tags i.e., Customer Name, Account Number, Malicious Call, etc.
	Default Notes tag available by default.
	Tags are easily added live from the Status page or from Skype for Business CWE, or post call, from the Calls tab.
Single Sign-On	A user gains access into the SmartTAP 360° GUI or Skype for Business client toolbar after validation of their

Feature	Details
	SmartTAP 360° security profile and authentication of their credentials with LDAP Active Directory.
	For Microsoft Team clients: Single Sign-on is supported for logging onto the SmartTAP 360° Personal App. See Integrate SmartTAP Personal App in Teams on page 391.
.SIPRec	Session Initiation Protocol (SIP) establishes an active recording session and reporting of metadata to the SRS (SmartTAP 360°) of the active communication session traversing the SRC (AudioCodes SBC or Gateway).
	https://datatracker.ietf.org/doc/draft-ietf-siprec- protocol/
REST API	Allows third-party applications integrated with SmartTAP 360° to add users, retrieve metadata, download recorders, target users, etc. Refer to SmartTAP REST API documentation for more details.
	Initiate ROD or SOD from a third-party application using the API.
	Support for Server Sent Events (SSE). Third-party applications can receive call state events for targeted users / endpoints using SSE. Use events to determine when to ROD or SOD, Live Monitor, etc.
Call Recording Announcement Server	Custom prompt to be played to external call participants so that their calls may be recorded in Skype for Business environments. Example: 'Your call may be recorded'
	Custom IVR menu to request recording consent from external call participants and trigger recording when consent is given.
	Advantages:
	<ul> <li>Plays announcement to inbound PSTN call participants</li> </ul>
	<ul> <li>Deploys on Physical or Virtual Servers</li> </ul>
	✓ Supports N+1 Resiliency
SmartTAP 360° Media Proxy (Skype for Business)	The software Proxy Service is an RTP Proxy for recorded user / device calls.
	A recorded call's media is redirected through the proxy,

Feature	Details
	allowing SmartTAP 360° to capture a copy of the SRTP conversation.
	Advantages:
	<ul> <li>Proxy Server resides in the LAN</li> </ul>
	<ul> <li>Inter and intra region calls stay on the private network</li> </ul>
	<ul> <li>Allows easily recording internal, PSTN and conference calls</li> </ul>
	<ul> <li>Deployable in remote locations to reduce network bandwidth</li> </ul>
User / Device Attributes	A SmartTAP 360° user or device attribute has three purposes:
	Additional information can be added to the user account within SmartTAP 360°, i.e., Ext, Tel URI, Address, etc., for informational purposes only.
	Designates to SmartTAP 360° what to use to trigger recording, i.e., adds a SIP_URI attribute and provides a value assigned to the user. If the user makes a SIP call, SmartTAP 360° triggers a recording based on the SIP_URI.
	MappingActive Directory attributes touser / device information on SmartTAP 360°.
	Mapping Microsoft Azure Active Directory Teams users object ID to user properties on SmartTAP 360°.
Automatic Instant Message Recording	Recording of instant messages for person-to-person chat between two users or group chat between two or more users.
Video Recording	Recording Profile: Full Time Recording and Save on Demand Video
	Playback video from the Calls List and Evaluation menu
	Download audio and video call types (together).
Desktop Recording	Skype for Business and Microsoft Teams Video and Screen Sharing over VBSS (Video Based Screen Sharing) recording is supported.
Timeline View	View call results data for a specific user/device over a time line. Each call type is represented on the timeline by a

Feature	Details
	unique icon.
Automatic Registration of Managed Devices	Managed device other than of type 'Host' register automatically with the application server by sending periodic heartbeats. Devices also update their connection status information whenever the connection state changes information.
New User Interface Design	The SmartTAP 360° User interface design and layout has been updated to the look and feel for AudioCodes product family.
Call Type-based recording	It is now possible to define specific call types to be recorded through SmartTAP 360° recording profiles. For example, it is possible to select recording of the following call types: in domain, PSTN, external, response group calls and more.
Selective Announcement service	The Announcement service can be enabled for recording pro- file and activated on calls for the users that are associated with the recording profile.
Beep tone generation	Playing recording beep tone to the local call parties is possible with SmartTAP 360° Media Proxy.
Test calls in Skype for Business Deployment	Enhanced System Health Monitoring with an option to activ- ate periodic test calls and with alarms.
Communication status icons	SmartTAP 360° inter-components communication status shows the statuses reported by managed devices for its connections with other components in the system.
Malicious call recording enhancement	Enables users to save a call recording after the call was ended for a predefined time.
OVOC Management	SmartTAP 360° server components can be monitored from OVOC (starting from OVOC version 7.6.100)including the sending of alarms and statuses.
Support for Skype For Business 2019	SmartTAP 360° Announcement and Application serverscan be installed on the Skype For Business 2019 platform.
Original Call Reason	Original call release reason is presented as part of the call recording meta-data.
Scalability	SmartTAP 360° SIPRec solution scalability enhancement with an option to reroute a call to another recording server when

Feature	Details
	the server is at the maximum capacity.
SmartTAP 360° low-end Profile	SmartTAP 360° low-end profile system can be deployed on the GX-1KB OSN4B 256 GB SSD alongside the SBA with up to 250 users and 8 trunks.
Multilingual support	The SmartTAP 360° interface supports the following languages:
	English
	German
	Spanish
	French
Personal App in Microsoft Teams	SmartTAP 360° can be added to Microsoft Teams as a Teams App that includes On-demand recording buttons full application access tab. Once setup can be uploaded to the customer organization's App Store and run on Teams desktop or Teams mobile clients.
Voice Call Transcriptions	SmartTAP 360° for Teams supports enables transcription of recorded voice calls to quickly retrieve important segments of the call rather than listening to the entire call. The full call transcription can be enabled for users or groups of users defined locally or mapped from AAD. Generated transcriptions can be downloaded or exported through Rest API.
Media Storage dispersed across Multiple Locations	User recordings can be stored in multiple regions or countries defined by the customer and required by local regulations while working in parallel with a centralized application for configuration and recording playback. Multiple types of stor- age are supported including Azure Blob storage, SMB, and local storage. Association to a media location is user-based and can be mapped to AAD groups. This ensures the local integrity of stored recorded data together with a secure con- nection to the central database.
Analytics	Configuration of Analytics Profiles for Interaction analytics of voice to gather business insights. For example, Speech analytics involves analyzing the voice interactions with voice recognition and other cognitive services including transcription, keyword and phrase spotting, categorization

Feature	Details		
	and sentiment analysis.		
On Demand Recording in Active Active Setup	SmartTAP for Teams users utilizing the double recording solution can trigger on demand recording from one system and applied it to both systems.simultaneously.		
Compliance Recording Policy	Create recording policies for the users in the recording group on the customer's Azure tenant. PowerShell script automation allows the recording policy to be assigned to specific users or directly to the Azure groups. Script features include the ability to enable audio notifications for PSTN call commencement and to disable calls in case call recording functionality fails.		

Figure 1-2: Save on Demand (SOD) in SmartTAP 360° Skype for Business Client

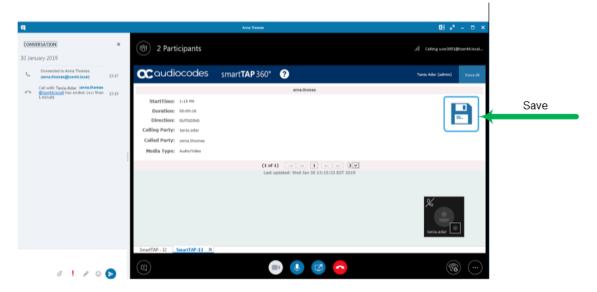


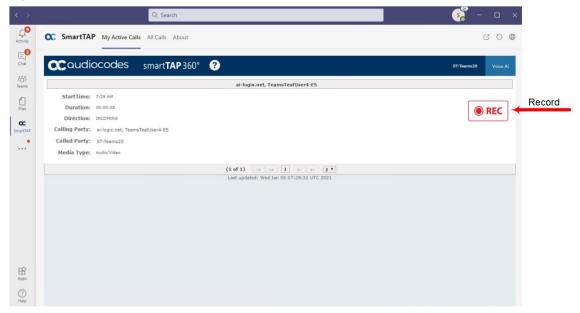
Figure 1-3: Record on Demand (ROD) in SmartTAP 360° Skype for Business Client

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	<b>RSATION</b> sclay, January 23, 2019	×	(     2 Participants		<b>4</b> 222 (8)	
Ċ.	Connected to Anne Thomas (enne.thomas@cent4.local)	9.31 AM	audiocodes	smart <b>TAP</b> 360° 🕐	Yania Adar (admin) Voice Al	
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			StartTime: 9:21 AM			Record
н	1		Duration: 00:03:39		REC	*
			Direction: oursoons			
			Calling Party: tania.adar Called Party: anna.thomas			
			Media Type: Audia/Video			
			Heurs Type: Another			
				(1 of 1) ++ ++ 1 ++ Last updated: Wed Jan 23 09:35:1		
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Figure 1-4: Save on Demand (ROD) in SmartTAP 360° Microsoft Teams Client

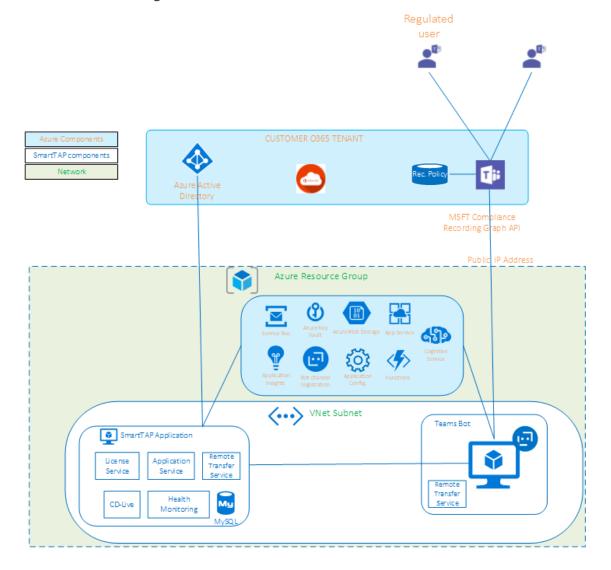
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CÔS Teams			ai-logix.net, TeamsTestUser4-E5	
4	StartTime:	7:27 AM		
Files	Duration:	00:00:01		Save Save
œ	Direction:	INCOMING		
SmartTAP	Calling Party:	ai-logix.net, TeamsTestUser4-E5		
•	Called Party:	ST-Teams20		
	Media Type:	Audio/Video		
			(1 of 1) 14 <4 1 2 ¥	
			Last updated: Wed Jan 06 07:27:52 UTC 2021	
EÊ				
Apps				
?				

Figure 1-5: Record on Demand (ROD) in SmartTAP 360° Microsoft Teams Client



# Architecture

The figure below illustrates SmartTAP 360° architecture.



#### Figure 1-6: SmartTAP 360° Architecture

# **About this Guide**

This guide helps enterprise network administrators obtain full benefit from the SmartTAP 360° Call Recording System. The guide is divided into the following parts:

- Getting Started
- User Actions
- Admin Actions



# **Getting Started**

# 2 Logging In

After the SmartTAP 360° software is installed, an Admin user account is created by default. This user account allows the administrator to access the SmartTAP 360°'s Web-based management tool for the first time and start initial configuration and administration (see Chapter Performing Initial Configuration). Alternatively, you can log in using the credentials of the Office 365 user.

#### > To log in:

- 1. Access the SmartTAP 360° user interface from a browser.
- 2. Enter the SmartTAP 360° server IP address or hostname; the Login page opens.

Figure 2-1: Login Page
Login Id
admin
Password
•••••
Log in
0r
01
🧻 Sign In With Microsoft 365

- 3. Log in using one of the following options:
  - Log in: Enter default Login ID 'admin' and default password 'admin'
  - Sign In With Microsoft 365: Enter the credentials of the Microsoft 365 Office user (see Logging in with Microsoft Office 365 Credentials below

# Logging in with Microsoft Office 365 Credentials

This section describes how to login with Microsoft Office 365 Credentials.



This option is disabled until the OIDC Client is configured (see View OIDC Client User Login on page 398).

- ➤ To login with Microsoft Office 365 credentials:
- 1. Click Sign-in with Microsoft 365 button.

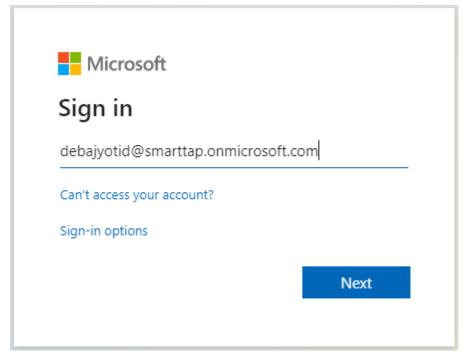
Login Id
admin
Password
•••••
Log in
Or
Sign In With Microsoft 365

The user is redirected to Microsoft MFC Login page:

Figure 2-2: Microsoft MFC Login Page

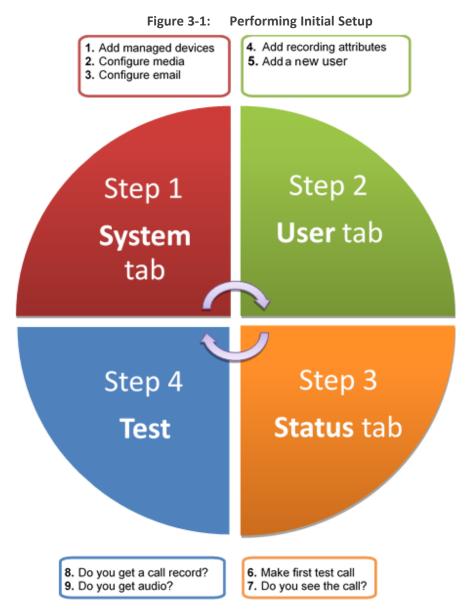
Microsoft	
Sign in	
Email, phone, or Skype	
Can't access your account?	
Sign-in options	
	Next

2. Enter the Sign in information and password and click Next.



# **3** Performing Initial Configuration

The figure below shows the steps to take to perform initial SmartTAP 360° configuration (Step 1-Step 2) in order to record a call. Detailed instructions follow below it. It's assumed SmartTAP 360° software components were installed on the servers necessary for your environment, and were configured based on the SmartTAP 360° Installation Guide.



#### > To perform initial setup:

- 1. Log in for the first time (see Logging In )
- 2. Configure media (see Managing Recording Locations).
- 3. Configure email (see Configuring Email Server Settings).
- 4. Add a user attribute for recording purposes (see Adding a Device Attribute on page 76).
- 5. Add a user (see Managing Users on page 81).

·∗ ✓ C>

- 6. Make sure the new user is assigned a recording profile (see Managing Recording Profiles).
- **7.** Make sure the user's recording attribute field is populated (seeManaging Recording Profiles).

# **Getting Acquainted with the Web Interface**

The figure below shows the main screen. The following areas are identical across all Web interface screens:

- Upper banner (see the figure below)
- Navigation (see the next page)
- Results display & data entry area (see the next page)
- Execution results area (in the case of some commands)(see the next page)

```
Figure 3-2: SmartTAP 360° Main Screen – Upper Banner
```

User/Device Status	ce	
Johnson, Bob	Mast, Danielle	Smith, Alice
Start Duration Media State On Details	Start Duration Media State On Details Time Duration Type State Demand Details	Start Duration Media State On Details
	(1 of 1) i i i i i i i i i i i i i i i i i i	

The table below describes the active buttons on the toolbar.

🗙 Coudiocodes smartTAP 360° 🐐 🕄

Table 3-1: SmartTAP 360° Main Screen – Active Buttons on the Toolbar

Button	lcon	Description
Home	Â	Go to the Home Page (default start page)
Help	8	Displays help for the currently displayed content
Log off	$\Box$	Log off user (identified to the left of this button)

Figure 3-3:	SmartTAP 360	D° Main Screen
-------------	--------------	----------------

Ļ			Ļ			
item Users Status	Calls between 6/1/18 12:55 PM and	1/20/19 02:55 PM				
alls Messages Evaluation						
1/20/19 2 ¥ 55 ¥	₹					
ive Users Inactive Users	Name	Start Time	Duration	Direction Select	Release Cause	Tags
ive Devices 🗐 Inactive Devices sers/Devices 🗍 Groups	Johnson, Bob	Jan 9, 2019 2:00:37 PM	00:00:58	OUTGOING	NORMAL	0
/Devices:	Johnson, Bob	Jan 9, 2019 1:59:39 PM	00:01:02	INCOMING	NORMAL	0
on, Bob on, Johnson	Johnson, Bob	Jan 9, 2019 1:59:03 PM	00:00:00	OUTGOING	ABANDONED	0
<< >> > > (1 of 1)	Johnson, Bob	Dec 31, 2018 1:59:54 PM	00:01:17	OUTGOING	NORMAL	0
arties:	Johnson, Bob	Dec 31, 2018 1:56:38 PM	00:00:29	OUTGOING	NORMAL	0
	Johnson, Bob	Dec 31, 2018 1:55:48 PM	00:00:28	OUTGOING	NORMAL	0
ered	Johnson, Bob	Dec 31, 2018 1:36:04 PM	00:00:17	OUTGOING	NORMAL	0
igs:	Johnson, Bob	Dec 31, 2018 1:32:49 PM	00:00:31	OUTGOING	NORMAL	0
ive Tags Inactive Tags Iame Tag Value			10 🔻 14 <4	1 >> >= (1 of 1)		
t One	Select a cal		1	otal calls: 8		
:h	0000000					

The figure above shows the following three areas below the upper banner:

- Navigation area, allowing users to perform queries, configuration, and all the other features available on the platform.
- Results display and data entry area, showing displays associated with the items selected in the Navigation area.
- Command execution results and data entry display area, displayed when an executed command results in failure/success:
  - Green font = successful execution
  - Red font = failed execution, with the reason for the failure
- Multilingual support:

You can toggle in the Toolbar to display the user interface in the following languages:

- English (default)
- German
- Spanish
- French

Caudiocodes sm	nart <b>TAP</b> 360°	<u> </u>					Initia	User (PLEASE DELETE)	FR Y	G
itème Utilisateurs Statut	Appareils gérés									
RVEILLANCE	^			Port de l'appareil g	ôte					BMIT
ences pareils gérés									SUE	SMIT
at du système atistiques de stockage	Statut 0		Lieu	Type d'équipement     Sélectionner		0 Indisponible 0	Version	Adresse		Retirer
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LARMES ~	0 •	CS#BRAZIL-STAF		Communication Server	13 hours 26 minutes		5.0.0.9496	BRAZIL-STAF		
itonque des alarmes	0 •	Media Server@BRAZIL-STAF		Media Server	13 hours 23 minutes 38 seco	nds	5.0.0.9496	BRAZIL-STAF		
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Caudiocodes sm	nart <b>TAP</b> 360°	<b>* 9</b>						User (PLEASE DELETE)	ES 🖌	Ð
toma Usuario Estado	Dispositivos adminis	drados								
madas Mensajes										
mauas mensajes					Host					
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ta de auditoria ancias									SUB	BMIT
spositivos administrados tado del sistema	Estado 🗘	Nombre del dispositivo	Ubicación 0	Tipo de dispositivo	Tiempo de actividad	Tiempo de inactividad	Versión	Dirección		Eliminar
adísticas de almacenamiento OC	0 •	CD-IP@BRAZIL-STAF		Call Delivery-IP	13 hours 13 minutes 18 seconds		5.0.0.9496	BRAZIL-STAF		
	0 •	CS@BRAZIL-STAF		Communication Server	13 hours 23 minutes 12 seconds		5.0.0.9496	BRAZIL-STAF		
orial de alarmas	0	Media Server@BRAZIL-STAF		Media Server	13 hours 20 minutes 41 seconds		5.0.0.9496			
ificaciones	0	RTSPBRAZIL-STAF		Remote Transfer Service	13 hours 20 minutes 42 seconds			BRAZIL-STAF		
QUETADO DE LLAMADAS	•	RISPORAZIESIAP			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2101019496	BRAZIL-STAP		
idir etiqueta /borrar etiquetas de llamada					1 (1 of 1) Nov 07 18:33:44 IST 2019					
RTIFICADOS   aar solicitud de firma /modificar lista de certificados										

#### Figure 3-4: Multilingual Support

#### Grid

de ara

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Both of the above options offer the same functionality, therefore either can be used.

The figure below shows the List View  $oxed{ extsf{ extsf} extsf{ exts} extsf{ extsf{ extsf{ extsf extsf{ extsf} extsf{ extsf} extsf{$ 

**Determining User/Device Status** 

Figure 3-5: List View

or by selecting Status tab > User Call Status. The screen features two views:

User/Device	Status								
0		Search for user or device							
	Name	Start Time	Duration	Direction	Media Type	State	On Demand	Details	Live Monitoring
0	Pool2USR020	Jun 8, 2021 1:21:08 PM	01:37:02	INCOMING		RECORDING		Q	
				¥ 14 <4 1					
			L	ast updated: Tue Jun 08 :	14:58:10 IDT 2021				

The User/Device Status screen is accessible by clicking the Home button on the upper banner,

The figure below shows the Grid View  $\blacksquare$ 

Figure 3-6: Grid View

User/Device Status	
Image: Constraint of the second se	
Ped2USR020	
Start Time Duration Media Type State On Demand Details 1:21 PM 01:136:47 RECORDING	
(1 of 1) re red 1 ro red 12 v	
Last updated: Tue Jun 08 14:57:55 IDT 2021	

The figure below shows a user status with an active Microsoft Teams call:

Figure 3-7: User/Device Status with an Active Call Microsoft Teams Client

	Q, fearch	·
C SmartTAP My Active (	de Al Cala Atend	6.6
	smartTAP 360* 🎢 🕜	27 marati 18 🔹 🕞 🔽
Users Batus Cells	DeviCoular Bake	
Messages	2 best	
	Bart Tone Bouches         House Tops         Bart On Double           2.00 million         Bouches         Bart On Double         Bart On Double           100 million         Bart On Double         Bart On Double         Bart On Double           100 million         Bart On Double         Bart On Double         Bart On Double           100 million         Bart On Double         Bart On Double         Bart On Double           100 million         Bart On Double         Bart On Double         Bart On Double           100 million         Bart On Double         Bart On Double         Bart On Double	

The screen provides near real-time information on the targeted users and their recording status. The table below describes the Status screen features.

Table 3-2: Status Feat	ures
------------------------	------

Field	Description		
Name	Sorted ascending/descending by clicking header up/down arrows. Name field entry displays only entries with matching pattern.		
Call Started	The time the call started. Sortable by clicking the up/down arrows.		
Call Duration	The duration of the call. Sortable by clicking the up/down arrows.		
Call Direction	One of the following values:		
	Incoming		
	Outgoing		
	Conference		

Field	Description				
	Sortable by clicking the up/down arrows. Call Direction drop-down displays only matching entries.				
User / Device Status	Not Filtered	Filtered	Status Filters 'Not Filtered' includes all users/devices in the displayed results. 'Filtered' hides all users/devices from the displayed results.		
	0		Status Unknown: the targeted user has not made a call since the Application Server was started up.		
	0		Status Inactive: the targeted user has not made a call for more than five minutes.		
	0	<b>Q</b>	Status Idle: the targeted user has made a call within the last five minutes.		
	0		Status Active: the targeted user is on a call but recording has not been initiated.		
	0		Status Record: the targeted user is on a call and recording has been initiated.		
Call Status	INACTIVE (user is not on a call)				
	RINGING				
	ACTIVE (the call is being recorded)				
	ACTIVE (the call is not being recorded)				
Call Info	Q		Click the icon to launch the Call Detail screen in order to view additional call data.		

Field	Description			
		User/Device Status Call Detail StartTime: 12:57 PM Duration: 00:00:33 Direction: 0ur30:NG Calling Party Digits: pool3usr010 Called Party Digits: pool3usr007 Answering Party Digits: pool1usr007	2	
Call Notes		Add a tag - live call or post call. Tags are defined by the system administrator and can be applied during a call or post call.		
Pause / Resume Recording	(I) PAUSE	Select to pause the recording (for PCI compliance).		
	REC	Select to Resume the recording (for PCI compliance).		
ROD / SOD	REC	ROD (Record on Demand)	Click to start recording from the current point in the call. The audio file will contain audio from the trigger point on.	
		SOD (Save on Demand)	Click to save the recording of the complete call.	
Live Monitor	LIVE	Users with 'Live Monitoring' privileges can listen to active calls by clicking the Live Monitor microphone button. The following popup player launches:		

Field	Description		
	When a user has permissions to listen to active calls for a targeted user who is licensed for both Teams and other integrations, support is only provided for listening to the active Teams calls.		
Page Navigation buttons	These are shortcuts to the beginning/end, previous page/next page of the displayed entries. The dropdown allows changing the number of entries per page.		

# 4 Testing the Initial Configuration

Testing the initial configuration and then troubleshooting it if necessary can be performed (step 3 and step 4 respectively, as shown in Performing Initial Configuration). The objective is to validate the configuration and the recording functionality. After making sure that the recording is functioning correctly, continue to set up advanced features such as LDAP and Single Sign-On.

#### > To test the initial configuration:

- 1. Navigate to the Status page (Status tab >Status folder > User Status).
- 2. Make your first test call:
  - a. Do you see the call trigger recording?
  - **b.** Do you get a call record?
  - c. Does the record contain audio?

## Making Sure a Recording is in Progress

This section shows how to make sure that a recording is in progress.

#### > To make sure that a recording is in progress:

- 1. Open the User/Device Status screen (Status tab > Status folder > User Status):
  - Click on the upper banner

-or-

- Click the Status tab > User Call Status
- The icon indicates that a recording is in progress.

### Listening to a Recording and Viewing a Video

This section shows how to listen to a recording and to view call video.

#### > To listen to a recording:

- 1. Click the **Calls** tab; the Search Calls screen opens.
- 2. In the Search Navigation screen (left side), enter the date range and select the type of Users and Devices.
  - Select either the Users/Devices or the Groups button. Selecting the Users/Devices option changes the display below to show a list of Users/Devices.
  - Selecting the Groups option changes the display below to show a list of Groups and Sub Groups (if the 'Search Sub Groups' option is selected).

- 3. Select one of more User/Devices or Groups by highlighting them in the list (see the notes on the Search Calls Navigation screen's field descriptions for how to select more than one User/Device or Group).
- 4. Clickto start the search for calls matching the search criteria; the results are displayed in the Search Calls Results screen to the right.
- $(\mathbf{b})$ 5. Select the recording you wish to playback
- 6. If the call is a video call type, select the 'Display Video' check box to display the call video as well.



Click the button to start listening to the call or to watch the video.

# Part II

# **User Configuration**

# 5 Sending Email

The Email screen allows the network administrator to send emails directly from the SmartTAP Web interface.

#### ➤ To send an Email:

1. Open the New Email screen (Users tab > Email folder > New Email.

Email	
To ->	
Cc ->	
Bcc ->	
Subject:	
Body:	
	SUBMIT CANCEL

2. Configure the fields using the table below as reference.

Field	Description
To > Cc > Bcc >	Clicking the To>, Cc>, Bcc> buttons will expand and collapse the list of users within the current user's group(s). Selecting/deselecting users from this list will add/remove them from the recipient list is a comma separated list of email addresses of the format 'jsmith@example.com'. The recipient list may also include the display name of the recipient. To add a display name for a recipient, the recipient's email address should be surrounded by angle brackets; for example: 'John Smith <jsmith@example.com>'</jsmith@example.com>

Field	Description
Subject	Subject of the email.
Attachments	List of attachments to be included with the email. Clicking X adjacent to the attachment removes the attachment from the email.
Body	Body of the email.
SUBMIT	Sends the email.
CANCEL	Cancels the email.

# 6 Managing Groups

This section describes how to manage groups:

- Adding Recording Group below
- View and Modify Recording Groups on the next page

# Adding Recording Group

This section describes how to add a new recording group of users/devices.

#### > To add a Group and associated sub groups:

1. Open the Add Group screen (Users tab > Group Management folder > Add Group).

Group	
Group Name Group Description	
Show Inactive Users/Devices NonMembers	Members
aitest, aitest Alyil veedu dhruva, Fnu Analytics User, Analytics User	
Available Groups	Sub Groups
Company XYZ COO Default	
	SUBMIT CANCEL

- 2. Configure fields according to the table below.
- **3.** Click **SUBMIT** to apply changes.

Field	Description	
Group Name	Name of group to add.	
Group Description	Description of the group to add.	
NonMembers	Users that are not group members. Select users by clicking the user name; multiple users while holding <ctrl>; or all within a range by clicking top user and bottom user while holding <shift>.</shift></ctrl>	
>>	Add all NonMembers to the Members group.	
>	Add selected NonMembers to the Members group.	
<	Remove selected Members from the Members group.	
<<	Remove all Members from the Members group.	
Available Groups	List of existing groups. Select groups by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift></shift></ctrl>	
Sub Groups	List of Sub-Groups of the group to add. Sub-Groups for the Group added can be optionally entered from the Add Group screen.	
Members	Users that are members of the group. Select users by clicking the user name; multiple users while holding <ctrl>; or all within a range by clicking top user and bottom user while holding <shift></shift></ctrl>	
	Delete Group – displayed only when you modify an existing group.	

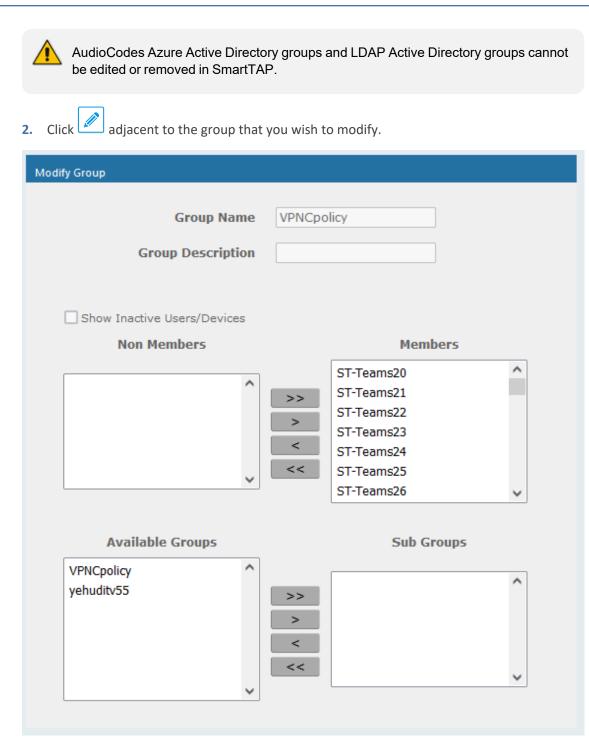
# **View and Modify Recording Groups**

This section describes how to add and remove users in recording groups.

#### > To view/modify a Recording Group:

 Open the screen View/Modify Group screen (Users tab > Group Management folder > View/Modify Group).

View/Modify Groups			
Name	Description	Modify	Delete
Default	Default group		ā
VPNCpolicy			
yehuditv55			



- 3. Change the Membership by moving users to/from the Members window.
- 4. Change the Sub-Groups by moving Groups to/from the Sub-Groups window.
- 5. Configure other fields according to the table below.
- 6. Click SUBMIT to apply changes.

Field	Description
Group Name	Name of group to add.
Group Description	Description of the group to add.
NonMembers	Users that are not group members. Select users by clicking the user name; multiple users while holding <ctrl>; or all within a range by clicking top user and bottom user while holding <shift>.</shift></ctrl>
>>	Add all NonMembers to the Members group.
>	Add selected NonMembers to the Members group.
<	Remove selected Members from the Members group.
<<	Remove all Members from the Members group.
Available Groups	List of existing groups. Select groups by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift></shift></ctrl>
Sub Groups	List of Sub-Groups of the group to add. Sub-Groups for the Group added can be optionally entered from the Add Group screen.
Members	Users that are members of the group. Select users by clicking the user name; multiple users while holding <ctrl>; or all within a range by clicking top user and bottom user while holding <shift>.</shift></ctrl>
ā	Delete Group – displayed only when you modify an existing group.

Figure 6-1: \	View/Modify	Groups –	Field Descriptions
---------------	-------------	----------	--------------------

# 7 Managing Security Profiles

This section describes how to create, view, modify and delete security profiles and to delete calls and messages. The screen allows the administrator to control system access and permissions. The security profiles assigned to users provides a flexible way to access SmartTAP 360° resources.

- Adding a Security Profile below
- Configure Permissions in a Security Profile on page 37

### **Adding a Security Profile**

This section describes how to add a Security Profile which sets the Call and Instant Message permissions for the user. For example, play call media or download media related to a call.

#### > To add a Security Profile:

 Open the Add Security Profile screen (Users tab> Security Profile folder> Add Security Profile).

Add Security Profile	
Security Profile Name	
Security Profile Description	
Call and Instant Message Permissions	
<ul> <li>No Call or Instant Message Access</li> </ul>	Play Media Related to a call
O Access all calls and instant messages	Download Media Related to a call
O Access calls and instant messages within user's groups	Email Media Related to a call
O Access user's own calls and instant messages	Tag calls
	Live Monitor
	ROD/SOD other users
	Delete transcription
Configure system	
Create and modify users and groups	
	SUBMIT CANCEL

- 2. Configure fields according to the table below.
- **3.** Click SUBMIT to apply changes.

#### Table 7-1: Security Profile Settings

Field	Description	
Security Profile	The name of the new security profile.	

Field	Description
Name	
Security Profile Description	Description of the new security profile.
Call and Instant M	lessage Permissions
No Call or Instant Message Access	Select this option to prevent users with this security profile from accessing call and instant message data. These users cannot delete calls and instant messages.
Access all calls	Select this option to allow users with this security profile to access calls for all users and devices. These users can delete any calls and instant messages.
Access calls within user's groups	Select this option to allow users with this security profile to access calls for all users within all the groups and sub groups of the group hierarchy to which they are a member. These users can delete calls and instant messages that belong to the user's groups.
Access user's own calls	Select this option to allow users with this security profile to access their calls. Theseusers can only deletetheir own calls and instant messages.
Play Media Related to a call	Select this option to allow users with this security profile to play calls to which they have access.
Download Media Related to a call	Select this option to allow users with this security profile to download media for calls to which they have access.
Email Media Related to a call	Select this option to allow users with this security profile to email media for calls to which they have access.
Tag Calls	Select this option to allow users with this security profile to add Call Tags to calls to which they have access.
Live Monitor	Select this option to allow users with this security profile to live monitor calls to which they have access.
ROD/SOD	Select this option to record on demand and save on demand for calls to which they have access.
Delete Transcription	Select this option to delete transcriptions for call recordings in the Calls screen.
Evaluate Calls	Select this option to allow users with this security profile to evaluate

Field	Description
	calls to which they have access. Perform evaluation of another user or their own call.
Delete Calls and IMs	Select this option to delete calls and instant message conversations according to the different user privileges described above. For more information, see Deleting Calls and Instant Messages on page 137.
View Evaluations / Reports	Select this option to allow users with this security profile view completed evaluations or run reports for evaluations to which they have access.
ROD/SOD other users	Select this option to allow a user to Record or Save on Demand another user's calls. The user to be recorded must be in the same group as the initiator.
Configure System	Select this option to allow users with this security profile to view and modify system configuration settings.
Create and modify users and groups	Select this option to allow users with this security profile to create and modify users, groups, and security profiles.
Create Evaluation Forms	Select this option to allow users with this security profile access to the SmartTAP Web interface.
Ē	Delete Security Profile – displayed only when you modify an existing profile.

- 4. Enter the Security Profile Name.
- 5. Enter the Security Profile Description.
- 6. Select the Call Permissions option.
- 7. Selecting **No Call Access** disables the permissions on the right side of the Call Permissions.
- 8. Select the configuration permissions at the bottom of the form.
- 9. Click SUBMIT

# **Configure Permissions in a Security Profile**

This section describes how to configure permissions in a Security Profile.

#### **To view/modify Security Profiles:**

 Open the View/Modify Security Profiles screen (Users tab> Security Profile folder> View/Modify Security Profiles).

View/Modify Security Profiles				
Name	Description	Permissions	Modify	Delete
system		Configure system		Ē
supervisor	Supervisor	Play Media Related to a call Tag calls Email Media Related to a call Access calls within user's groups Download Media Related to a call Live Monitor		ā
agent	Agent	Play Media Related to a call Tag calls Access user's own calls Email Media Related to a call Download Media Related to a call		ā
administrator	Administrator	Configure system Play Media Related to a call Tag calls Delete transcription Email Hedia Related to a call ROD/SDD other users Create and modify users and groups Download Media Related to a call Live Monitor Access al calls		Ē
		20 v 🖂 📢 1 🔛 🖃 (1 of 1)		

Figure 7-1: View/Modify Security Profiles

Figure 7-2:

2	: \

AudioCodes Azure Active Directory and LDAP Active Directory Security Profiles cannot be edited or removed in SmartTAP.

2. Click adjacent to the Security Profile that you wish to modify.

Modify Security Profile	
Security Profile Name	agent
Security Profile Description	Agent
Call and Instant Message Permissions	
O No Call or Instant Message Access	Play Media Related to a call
O Access all calls and instant messages	🗹 Download Media Related to a call
<ul> <li>Access calls and instant messages within user's group</li> </ul>	≥ ✓ Email Media Related to a call
<ul> <li>Access user's own calls and instant messages</li> </ul>	✓ Tag calls
	Live Monitor
	ROD/SOD other users
	Delete transcription
Configure system	
Create and modify users and groups	

- 3. Configure fields according to the table below.
- 4. Click SUBMIT to apply changes.

Field	Description
Name	Security Profile name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Description	Security Profile description sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Permissions	List of permissions enabled for the Security Profile.
	Click to delete the Security Profile.

Table 7-2:	View/Modify	Security	Profiles	Main Screen
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# 8 Managing Recording Profiles

Recording profiles determine the method by which a user or device is recorded. A profile may be assigned to one or more users or devices. The Recording profile includes the following settings:

Call:

- Recording Type Full Time, Record on Demand, Save on Demand or none.
- Video enable if video call recording is desired
- Desktop Sharing enable if Desktop Sharing recording is desired
- Pause or Resume enable if the assigned user should be able to pause and resume call recordings
- **Call Type:** All, Internal (incoming, outgoing); PSTN (inbound, outbound); Federated (inbound, outbound); Calls with Internal Conference; Referred by Response Group
- Announcements: Enables Announcements for one or more of the above call types.
- **Recording Beep tone:** Plays a beep tone in the background during the recording.
- Instant Messages: Enables Instant Messaging recording

This section includes the following:

- Adding a Recording Profile below
- Viewing or Modifying Recording Profiles on page 48
- Assigning Recording Profile to User or Device on page 49
- Add Recordable Device on page 73
- Recording Profile-Call Type Configuration Examples on page 52

### **Adding a Recording Profile**

This section describes how to add a recording profile for different recording types for targeted users.

#### > To add a Recording Profile:

 Open the Add Recording Profile screen (Users tab > Recording Profiles folder > Add Recording Profile).

				Recording Profile Name		
			Reco	rding Profile Description		
	Call					
		top Sharing' options or Microsoft Teams	are supported for Microsoft Tear only	ns and Skype for Business. 'Record	On Demand' and/or 'Pause or Resume' together with 'V	rideo' and/or 'Desktop
	Recording Type	None	~			
	Video	ina				
	Pause or Resu					
	Call type	eams, Skyne for B	usiness and Lync A/V Recording			
	Internal	<b>I</b>	ncoming 🔽 O	utgoing		
	PSTN	_		utbound		
	Federated	_	_	utbound		
	Calls with Ir					
			mode) * Call Queues Inst			
	Applicable for MS	SFT Teams only. Re	fer to the administrator guide for	how to retrieve ids of call queues		
	Filter Calls User Re	ceives : Li	st Type : Block V Num	bers:	Regular Expression:	
	Filter Calls User Ma		st Type : Block V Num	bers:	Regular Expression:	
	* The Filter Calls opti	ons are limited to F	STN calls in MSFT Teams			
	Applicable for Skype	fee Duringer and L				
	Referred by Re		nc A/V Recording			
pplicable for Sky		Lync A/V Reco	rding. Announcement Ser	ver is required to be installe	ed	
nnouncements pplicable for Sky all type Internal		Lync A/V Reco	rding. Announcement Ser		ed	y File name
pplicable for Sky <b>all type</b>	ype for Business and			rty File name		
pplicable for Sky <b>all type</b>	ype for Business and		Play to calling particular	rty File name rty File name	Play to answering part	y File name
pplicable for Sky all type Internal	ype for Business and	ANN ~ ANN ~	<ul> <li>Play to calling pa</li> <li>Play to calling pa</li> </ul>	rty File name rty File name rty File name	<ul> <li>Play to answering part</li> <li>Play to answering part</li> </ul>	y File name y File name
pplicable for Sky all type Internal	ype for Business and Incoming Outgoing Inbound	ANN ~ ANN ~ ANN ~	<ul> <li>Play to calling pa</li> <li>Play to calling pa</li> <li>Play to calling pa</li> </ul>	rty File name rty File name rty File name rty File name	Play to answering part Play to answering part Play to answering part Play to answering part	y File name y File name y File name
pplicable for Sky all type Internal PSTN	ype for Business and Incoming Outgoing Inbound Outbound	ANN ~ ANN ~ ANN ~	<ul> <li>Play to calling pa</li> <li>Play to calling pa</li> <li>Play to calling pa</li> <li>Play to calling pa</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated	ype for Business and Incoming Outgoing Inbound Outbound Inbound Outbound	ANN ~ ANN ~ ANN ~ ANN ~	<ul> <li>Play to calling pa</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann	ype for Business and Incoming Outgoing Inbound Outbound Inbound Outbound Outbound	ANN × ANN × ANN × ANN × ANN × ANN ×	<ul> <li>Play to calling pa</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Anno on't Play Anno	ype for Business and Incoming Outgoing Inbound Outbound Inbound Outbound Outbound Douncement Destina	ANN × ANN × ANN × ANN × ANN × ANN ×	<ul> <li>Play to calling pa</li> <li>s : 911</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Anno on't Play Anno	ype for Business and Incoming Outgoing Inbound Outbound Inbound Outbound Outbound	ANN × ANN × ANN × ANN × ANN × ANN ×	<ul> <li>Play to calling pa</li> <li>s : 911</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Anno on't Play Anno	ype for Business and Incoming Outgoing Inbound Outbound Inbound Outbound Outbound Douncement Destina	ANN × ANN × ANN × ANN × ANN × ANN ×	<ul> <li>Play to calling pa</li> <li>s : 911</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann on't Play Anno Block Calls	ype for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound Outbound Outbound Outbound Douncement Douncement Douncement	ANN × ANN × ANN × ANN × ANN × ANN ×	<ul> <li>Play to calling pa</li> <li>s : 911</li> </ul>	rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann on't Play Anno Block Calls	ype for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound Douncement Douncement Douncement Douncement Douncement	ANN × ANN × ANN × ANN × ANN × ANN × ation Numbers	Play to calling pa Play to calling pa s : <b>911</b>	rty File name rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann on't Play Anno Block Calls cording Beep	ype for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound Outbound Outbound Douncement Douncement Douncement Douncement Douncement Douncement Douncement Douncement	ANN × ANN × ANN × ANN × ANN × ANN × ation Numbers	Play to calling pa Play to calling pa s : <b>911</b>	rty File name rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann on't Play Anno Block Calls	ype for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound Outbound Outbound Douncement Douncement Douncement Douncement Douncement Douncement Douncement Douncement	ANN × ANN × ANN × ANN × ANN × ANN × ation Numbers	Play to calling pa Play to calling pa s : <b>911</b>	rty File name rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name
pplicable for Sky all type Internal PSTN Federated Record Ann on't Play Anno Block Calls cording Beep	ype for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound Outbound Outbound Outcouncement Douncement Douncement Douncement Tone Tone Tone Tone	ANN × ANN × ANN × ANN × ANN × ANN × ation Numbers	Play to calling pa Play to calling pa s : <b>911</b>	rty File name rty File name rty File name rty File name rty File name rty File name	<ul> <li>Play to answering part</li> </ul>	y File name y File name y File name y File name y File name

- 2. In the Call pane ,from the Drop-down list, select a Recording Type and select the appropriate check box For more information, use table below as a reference.
- **3.** In the Call type pane, select a Call type. Note that the corresponding announcement profile is activated in the Announcements pane. For more information, use table below as a reference.
- 4. In the Announcements pane, assign audio files to play to the Calling party, the Answering party or both according to your selection in the Call type pane. For example, if you selected "Federated Inbound" calls in the Call type pane, then you can assign audio files to play to the calling party and to the answering party. For more information, see example figures and table below as references.

- 5. Assign Announcement WMA media files or IVR JSON script files to play to the Calling party, to the Answering party or to both for incoming and outgoing calls for Internal, PSTN and Federated Call Types. You can assign a different media file to play to the Calling party and to the Answering party.
  - Ensure that you have setup the Announcement server to support this functionality (see Announcement Server (Skype for Business). See Announcement Server (Skype for Business) on page 100 and Example Announcement Server Scenarios on page 106.
    - Recording notifications in Teams environment are provided by Microsoft.
- 6. Fill in the required fields using the tables below as a reference.
- 7. Click SUBMIT

Field	Description
Profile Name	Enter a name for the new recording profile.
Profile Description	Enter a description of the new recording profile.
Recording	Select one of the following:
Туре	None (default): User is not recorded. Do not assign a recording profile to a user or device if you do not want to record them.
	<b>Full Time:</b> Automatic recording of complete call will begin from start of call with no user action required.
	Record on Demand: (supported for audio in Skype For Business) recording will commence from a specific point in the call that the user decides to record.
	Save on Demand: Recording will contain audio and/or video from the beginning of the call if the user decides to record the call. Audio and/or Video recording can be triggered from the GUI Status page or from the Skype for Business CWE toolbar. For more information, see SmartTAP 360° Skype for Business Toolbar on page 98.
	Audio/Video recording can be triggered from the GUI Status page or from the Skype for Business CWE toolbar or Teams Client application.
	For Microsoft Teams, SmartTAP can be integrated into the Microsoft Teams client as a Personal App (see Integrate SmartTAP Personal App in Teams on page 391).

#### Table 8-1: Recording Profile

Field	Description	
Video	Record a video call (Full Time or Save on Demand).	
Pause / Resume	Select Pause / Resume audio recording during sensitive areas of the conversation with a customer, for example, when Credit Card details are given. The process is manual and executed from the Status page. Pause/Resume of a recording can be triggered from the SmartTAP 360° Web interface status page or from the Skype for Business CWE toolbar or Teams Client application.	
Instant Message	Automatic Instant Message recording for both Skype for Business recordings and Microsoft Teams recordings.	
Desktop Sharing Recording	Recording of Desktop Sharing sessions is supported for Skype for Business and Microsoft Teams.	
heedruing	Record on Demand and Pause/Resume with Video or Screen Sharing are not supported for Skype for Business.	
SUBMIT	Apply the changes.	
CANCEL	Cancel the changes.	

Call Type: The Recording profile contains call types that can be selected and recorded. The call types described in the following table are supported. The options below relate to SmartTAP 360° users and devices regardless of the user or device location (intranet, internet, mobile device).



- The call types described in the table below are relevant for Microsoft Teams, Skype For Business; Audio; Video and Screen Sharing recording.
- Skype-For-Business calls only: When a call is escalated to a conference call by an Internal user (when an additional party(s) are added to the call), the escalated Conference part of the call (from the time the additional party(s) join) is reported as a separate call recording, and will be recorded only if "Calls with internal conference option" is enabled (see Calls with Internal Conference on the next page).
- **Teams only calls:** When one of the following Call Types is enabled: 'PSTN', 'Internal' or 'Federated', and then the call is escalated to a Conference call by an Internal user (when additional party(s) are added to the call), the escalated Conference part of the call will be recorded as part of the original peer-to-peer call recording leg. If none of the above-mentioned Call Types are enabled, then the escalated Conference part of the call will not be recorded.

Field	Description			
All	Record all calls that the recording profile user participates in as calling party. This option is enabled by default or when a new recording profile is created.			
Internal (incoming, outgoing)	Internal calls are calls made between the recording profile user or device and other users belonging to the same domain as the recording profile user. To record Internal calls that the user receives, select the "Incoming" option. To record Internal calls that the user makes, select the "Outgoing" option. Select the "Calls with Internal Conference" to record Internal calls that are elevated to a conference (Skype For Business only).			
PSTN (inbound, outbound)	PSTN calls are calls made between the recording profile user and PSTN parties. To record PSTN calls that the user receives, select the "Inbound" option. To record internal calls that the user makes, select the "Outbound" option. Select the "Calls with Internal Conference" to record PSTN calls that are elevated to a conference or conferences with PSTN participants (Skype For Business only).			
Federated (inbound, outbound)	<ul> <li>Federated calls are calls made between the recording profile user and federated domain users.</li> <li>To record Federated calls that the user receives, select the "Inbound" option.</li> <li>To record Federated calls that the user makes, select the "Outbound" option. This option covers calls between the user and the federated conference bridges according to the</li> </ul>			
Calls with Internal Conference	selected directions. Record Skype for Business and Teams calls with an Internal conference bridge in the Enterprise domain. An Internal Conference is a scheduled, ad-hoc meeting (for Skype-For-Business also includes a call escalated to a conference, however not relevant for Microsoft Teams) that occurs on a bridge belonging to the targeted user organization (i.e. that is organized or escalated in Skype-For-Business by a user from the targeted user's organization). When enabled, all user calls with internal conferences are recorded regardless of participant types on the conference (federated, PSTN, or other internal users). When disabled, none of the user calls with			

Field	Description	
	internal conferences are recorded. Select one of the following options:	
	Conferences Calls with All Participant Types: Record all targeted user's calls with conferences (default).	
	Conference Calls with External Participants: Record only conferences with external participants. External participants are those participants who either don't have an Azure object id or it don't belong to the recording organization. For example, participants joined from PSTN, guests from Web or from Federated organization or from a Teams home client. SmartTAP starts recording the targeted user call leg to the conference when an external participant joins the conference and continues recording until the targeted user disconnects or the conference bridge disconnects the call.	
	This option is supported by Microsoft Teams Integration and with "Full Time" Recording Type only (not supported with Pause and Resume).	
Teams Queue Calls (transfer mode)	Record Microsoft Teams calls that have been retrieved from a queue by a call agent. The recording is triggered as soon as the call is connected to an agent.	
Call Queues Instance ids	Comma separated list of the instance ids of the relevant call queues ids which should be recorded (see Retrieving Recording Queue Instances on page 53). Relevant when Teams Queue Calls (Transfer mode) is	
	configured and "All" in not selected. When "All" is selected, all user calls will be recording including calls from any call queue. The maximum length of the field is 2048 characters.	
Referred by Response Group	Record user calls that are referred by a response group. To record calls referred by a response group to any user, select this option and create a user or device with the network mapping attributes that are associated with the response group (the Response Group URI). To record all calls that a response group is involved, select this option and the "All" option and create a user or device with the network mapping attributes that are associated with the response group (the Response Group URI).	

Field	Description	
	This configuration is applicable to Skype for Business integrations.	
Filter Calls User Receives Filter Calls User Makes	To filter calls that the user receives or makes, choose the type of the filter. To record the user calls with specific numbers, choose "White" in the List Type. To record calls of the user except with specific numbers, choose "Black: in the List Type. The Filter is applied on the calls with the comma-separated phone numbers defined in the Numbers field. For example: "17326524689, 17326524690" regular expression can be entered when the phone number ranges need to be filtered. For example, to filter calls with phone numbers that starts with area code 732 or 609, enter the following in the regular expression field:^(1{1}\1{1})?(732 609)\d*\$. When both the numbers and regular expressions are provided, the system first checks against the regular expression and if a match is not found, continues with the numbers. The maximum length of the numbers and the regular expression field is 2048 characters. Filtering is applicable to Skype for Business integrations and to Microsoft Teams (PSTN calls only).	

Announcements: Recording profile contains announcements configuration that can be selected and applied on the recorded user calls according to the options in the following table.

The configuration options below are supported for Skype For Business calls.

- The Announcement server must be installed.
- The configuration options below relate to SmartTAP 360° users and devices, regardless of the user or device location (intranet/internet, mobile device).

Table 8-3: Ani	nouncements
----------------	-------------

Field	Description
Internal (incoming, outgoing)	Play announcement on the Internal calls of the recorded user. To play announcement on the calls the user receives, select the "Incoming" option. To play announcement on the calls the user makes, select the "Outgoing" option. *Playing the announcement on the calls with con-

Field	Description	
	ference server is currently not supported."	
PSTN (inbound, out- bound)	Play announcement on the PSTN calls of the recorded user. To play announcement on the PSTN calls that the user receives, select the "Inbound" option. To play announcement on the PSTN calls that the user makes, select "Outbound" option.	
Federated (inbound, out- bound)	Play announcement on the Federated calls of the recorded user. To play announcement on the Federated calls that the user receives, select the "Inbound" option. To play announcement on the Federated calls that the user makes, select the "Outbound" option.	
Record Announce- ment	To record played announcement, select this option. When the option is enabled and the announcement is played to both the incoming and butgoing legs of the call, both call legs are recorded and two record- ing licenses are consumed for the announcement part of the call ecording.	
Don't Play Announcement Destination Num- ber	Don't play announcements on the calls to the numbers defined in this field. The numbers should be comma separated. Enter the numbers when playing announcement on calls to a specific destination is not desired. For example, calls to 911, enter 911.	
Block Calls on Announcement Unavailability	The calls with the recorded user will be blocked when the calls can't be routed to the announcement server(s).	
Recording Notification	This option is applicable for Microsoft Teams recording notifications only and requires the customer to sign a waiver to allow AudioCodes to disable Microsoft notifications using this parameter. Alternatively audio notifications can be disabled through Microsoft Teams recording policy. By default, Microsoft notifications are enabled.	
	The configuration options below are relevant for all call participants:	
	Enable All: Recording notification are enabled for all calls (Default).	
	<b>Disable All:</b> Recording notifications are disabled on all calls (visual and audio notifications).	
	<b>Disable PSTN:</b> Recording notifications are disabled on PSTN calls (visual and audio notifications).	

Field	Description		
	This parameter is applicable for Teams Native Integration only.		
Configure Media Files to Play on Announcements	<ul> <li>ANN files must be of file type WMA</li> <li>IVR files must be of file type JSON</li> <li>You must specify the file extension type in the file name. For example, PSTN_Inbound.wma</li> <li>ANN and IVR files must be pre-saved to the StateMachineConfig folder on the ANN server: refer to the <u>SmartTAP Installation</u> <u>Guide</u>.</li> </ul>		

Beep Tone: Beep tones can be played on the calls which media traverses the Media Proxy Server only.

- The Announcement Server does not require to be installed to play beep tones.
  - Beep tone can be played on calls whose media traverses the Media Proxy Server only.
  - The playing of beep tones on the calls between targeted users and Skype For Business Conference Server is not supported.
  - Contact AudioCodes sales or support for information on the supported scenarios. For configuration of beep tone parameters, refer to the *SmartTAP Installation Guide*.

Field	Description
Play Beep Tone	The beep tone is played in the background during the call recording (dis- abled by default). The Beep tone can be played on the calls whose media tra- verses the Media Proxy Server.

Instant Messages: Enables Automatic Instant Message recording.

### **Viewing or Modifying Recording Profiles**

This section describes how to view or modify recording profiles.

#### > To view/modify Recording Profiles:

Open the View/Modify Recording Profiles screen (Users tab > Recording Profiles folder > View/Modify Recording Profiles).

Fig	ure	8-1:	
	<b>MI C</b>	· · ·	

View/Modify Recording Profiles							
Name \$	Description \$	Call Recording Type	Video Recording	IM Recording Type	Desktop Sharing Recording	Modify	Delete
Full Time	Full Time recording profile	FULL_TIME	Enabled	FULL_TIME	Enabled		Ē
Queue		FULL_TIME	Disabled	NONE	Disabled		Ē
ROD		RECORD_ON_DEMAND	Enabled	FULL_TIME	Enabled		
		20 💌 🗔 🔜	1 🕨 🖬 (1	of 1)			

2. Configure fields according to the table below.

Table 8-4:	View/Modify Recording Profiles – Field Des	criptions
------------	--	-----------

Field	Description	
Name	Recording Profile name, sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.	
Description	cording Profile description sorted ascending/descending by clicking ader up/down arrows. If defined, the field entry displays only atching entries.	
Audio Recording Type	Full Time, Record on Demand or Save on Demand.	
Video Recording Type	Full Time or Save on Demand.	
IM Recording Type	ull Time or None.	
Video and Screen Sharing Recording	Full Time or Save on Demand.	
	Click to modify the Recording Profile.	
	Click to delete the Recording Profile.	

# **Assigning Recording Profile to User or Device**

This section describes how to assign a recording profile to a user or device.

> To assign a recording profile to a User / Device account:

Option method #1: Add the recording profile to the account manually when the user account is created in SmartTAP 360°. To create a new user account and assign a Recording Profile:

- a. Under the User tab, select View/Modify Users.
- b. Click 🧖 .
- c. From the 'Recording Profile' dropdown, select the required profile (i.e., R.O.D).
- d. Click SUBMIT to apply the changes.
- Optional method #2: Under the User tab, select Recording Profiles | Users / Devices to assign a single or bulk list of users / devices their recording profile. To manage a single or bulk assignment of recording profiles for existing user / device accounts:
  - a. Under the User tab, select Recording Profile | User / Devices.
  - **b.** Using the arrows, move single or bulk list of user / devices from the left screen to one of the recording profiles available.
  - c. Click SUBMIT to apply changes.
    - By default, SmartTAP 360° includes the 'Full Time' recording profile.
      All users imported from Active Directory will not have a recording profile assigned. Use optional method # 2 above to quickly assign multiple users the appropriate recording profile.
- > To assign a single/multiple user(s)/device(s) to the appropriate recording profile:
- 1. Open the Add Users to Recording Profiles screen shown below.

No Recording Profile		Recording Profiles
dar, Tania		
genttest1		Test
itest, aitest		▲
lyil veedu dhruva, Fnu		
nalytics User, Analytics User utoAttendant	>>	
auer, Eric		
roker, Analytics	>	
urke, Aemon		
ampos, Jose	<	
arosella, Gino	<<	
onf-aitest(conf-aitest)		
onlon, Tom		
a Silva, Sandy		
CI		· · · · · · · · · · · · · · · · · · ·
utta, Debajyoti		
MEA, Oncall-1		Video FT
MEA, Oncall-2		
rps, Mike		
arg, Amrita		
roh, Gerald	>>	
erberger, Steven		
onig, Menachem		
opkins, Steve	<	
owell, Donald		
unter, Daryl	<<	
yaev, Ina(Inai)		
ohnson, Johnson		
ones, Bob		· · · · · · · · · · · · · · · · · · ·
ones, Jones		
oseph, Liziya(Manually Added )		Video SOD
itlaru, Yaniv ling, Brian		VIGE0 30D
obby Phone		A
lakowski, Jerry		
Iarrocchi, Ulises (ulisesm)	>>	
last, Danielle		
lenachem Honig-USA	>	
lunoz, Fernando	<	
CR		
J-Somerset-Conf-RM(NJ-Somerset-Conf-RM)	<<	
rta, Alejandro		
sterberg, Mattias		
erpinyal, Avi		
hutane, Rutuja(Manually Added)		

2. Configure parameter according to the table below.

Field	Description
No Recording Profile	List of available Users / Devices in SmartTAP 360° unassigned to a specific recording profile.
Recording Profiles	Choose from one of the available recording profiles that were defined above to assign a User / Device (Full Time is the default profile).
>>	Add all available users / devices to a specific recording profile.
>	Add a user / device to a specific recording profile.
<	Remove a selected user / device from a specific recording profile.
<<	Remove a selected user / device from a specific recording profile.

- In addition to assigning a user / device with a recording profile, you must add a recording attribute and a targeting value.
  - SmartTAP 360° will use the added targeting value to trigger recording once detected in the call signaling.

# **Recording Profile-Call Type Configuration Examples**

This section describes configuration examples for different call type settings.

#### Record inbound PSTN calls:

Applicable for MSFT Teams	, Skype for Business and Lync A/V	/ Recording				
Internal	Incoming	Outgoing				
PSTN	🗹 Inbound	Outbound				
Federated	Inbound	Outbound				
Calls with Inter	nal Conferences					
Teams Queue Calls (conference mode) * * Applicable for MSFT Teams only						
Applicable for Skype for Business and Lync A/V Recording						
C Referred by Respo	ise Group					
Filter Calls User Receiv	ves : List Type : Block 🗸	Numbers:		Regular Expression:		
Filter Calls User Makes	: List Type : Block 🗸	Numbers:		Regular Expression:		

#### Record all PSTN Calls:

Call type Applicable for MSFT Teams, Sky	pe for Business and Lync A/V	Recording					
Internal	Incoming	Outgoing					
PSTN	🗹 Inbound	Outbound					
Federated	Inbound	Outbound					
Calls with Internal C	Conferences						
Teams Oueue Calls	(conference mode) *						
-	* Applicable for MSFT Teams only						
Applicable for Skype for Busine	as and Lync A/V Recording						
Referred by Response Group							
Filter Calls User Receives :	List Type : Block 🗸	Numbers:		Regular Expression:	]		
Filter Calls User Makes :	List Type : Block 🗸	Numbers:		Regular Expression:	]		

Record External calls (PSTN and Federation):

Call type								
Applicable for MSFT Teams, Skyp	pe for Business and Lync A/V I	ecording						
Internal	Incoming	Outgoing						
PSTN	Inbound	✓ Outbound						
Federated	Inbound	✓ Outbound						
Calls with Internal C	onferences							
Teams Queue Calls (	conference mode) *							
* Applicable for MSFT Teams	* Applicable for MSFT Teams only							
Applicable for Skype for Busines	s and Lync A/V Recording							
Referred by Response Group								
Filter Calls User Receives :	List Type : Block 🗸	Numbers: Regular	Expression:					
Filter Calls User Makes :	List Type : Block 🗸	Numbers: Regular	Expression:					

#### Record PSTN Inbound calls and calls from Response Group:

Γ	Call type	· · · · · · · · · · · · · · · · · · ·				٦	
	Applicable for MSFT Teams, Skyp	e for Business and Lync A/V I	Recording				
	Internal	Incoming	Outgoing				
	PSTN	Inbound	Outbound				
	Federated	Inbound	Outbound				
	Calls with Internal Co	onferences					
	Teams Queue Calls (	conference mode) *					
	* Applicable for MSFT Teams of	only					
Applicable for Skype for Business and Lync A/V Recording							
	Referred by Response G	Group					
	Filter Calls User Receives :	List Type : Block 🛩	Numbers:		Regular Expression:		
	Filter Calls User Makes :	List Type : Block 🗸	Numbers:		Regular Expression:		
1							

# **Retrieving Recording Queue Instances**

Configuration of Teams call queues recordings (Transfer mode) in the recording profile requires the retrieval of the application instance of each call queue that is designated for recording. Each call queue is represented by a single Application Instance ID.

#### > To retrieve call queue application instances using PowerShell:

**1.** Enter the following PS command:

PS C:\Users\Admin> Get-CsCallQueue	
WARNING: All the agents added to callqueue ha	ave opted out. There are no
TenantId e07fd185c1c7	: ad41d6c3-67f0-47cc-9de3-

Name	: CallQueue1
Identity 62efe4db5c16	: 361635e9-1159-43be-bdc2-
RoutingMethod	: Attendant
DistributionLists	:
Users 2f4134736e42	: 9f7309ea-a318-4ac5-92a0-
DistributionListsLastExpanded	: 11/21/2021 08:12:49 +00:00
Agents 2f4134736e42, OptOut	: 9f7309ea-a318-4ac5-92a0-
AllowOptOut	: True
ConferenceMode	: False
PresenceBasedRouting	: True
AgentsCapped	: False
AgentsInSyncWithDistributionLists	: True
AgentAlertTime	: 60
LanguageId	: en-US
OverflowThreshold	: 200
OverflowAction	: DisconnectWithBusy
OverflowActionTarget	:
OverflowSharedVoicemailTextToSpeechPrompt	:
OverflowSharedVoicemailAudioFilePrompt	:

OverflowSharedVoicemailAudioFilePromptFileName	:
EnableOverflowSharedVoicemailTranscription	: False
TimeoutThreshold	: 1200
TimeoutAction	: Disconnect
TimeoutActionTarget	:
TimeoutSharedVoicemailTextToSpeechPrompt	:
TimeoutSharedVoicemailAudioFilePrompt	:
TimeoutSharedVoicemailAudioFilePromptFileName	:
EnableTimeoutSharedVoicemailTranscription	: False
WelcomeMusicFileName	: caal_queue_greeting.mp3
UseDefaultMusicOnHold	: True
MusicOnHoldFileName	:
Statistics	: Current queue size = 0
ApplicationInstances e9e31420edaf	: f17e8e19-1669-4a4c-bf13-
ChannelId	:
OboResourceAccounts	:

#### **2.** Copy the Application Instance to notepad.

> To retrieve call queue application instances using Teams Administration:

- **1.** Open the Teams Administration portal.
- 2. Select the Queue.
- **3.** Find Resource details.

	Microsoft Teams admi	in cente	er	Search - Preview
Ę	Messaging policies		Call queues \ CallQueue1	
ବ	Voice	^		
	Phone numbers		CallQueue1	
	Operator Connect		Resource accounts	^
	Direct Routing		Add or remove resource accounts. You can assign a phone number	
	Calling policies			r to a resource account you're adding. 🕔
	Call park policies		+ Add × Remove   1 item	
	Caller ID policies		✓ Resource account Phone number	
	Dial plans		CallQueue resource +972 1 809 461 699	]
	Emergency policies Voice routing policies			
	Auto attendants	_		
_	Call queues		Assign calling ID	^
	Holidays			
	Resource accounts		Agents can make outbound calls using the phone numbers on the	tollowing Resource Accounts. ()
ø	Locations	~	You haven't added any resource accounts yet.	
	Policy packages		Add	
≈≣	Planning	~		
зйÌ	Analytics & reports	~		
¢	Notifications & alerts	~	Language	^
۲	Other settings	^	This lets you set the language used to transcribe voicemail messag	ges and play system prompts to the caller.
	Skype for Business		English (United States)	

Figure 8-2: Call Queues

4. In the Azure Active directory find the queue Resource.

Figure 8-3: Resources

Azure Active Directory admin center	
<ul> <li>Dashboard &gt; AudioCodes Ltd. (ai-logixnet) &gt;</li> <li>All services</li> <li>Knownrs</li> <li>Active Active Directory</li> <li>Active Active Directory</li> <li>Call users (Preview)</li> <li>Deleted users (Preview)</li> <li>Disgnose and solve problems</li> <li>Activity</li> <li>Sign-in logs</li> <li>Audit logs</li> <li>Bulk operation results</li> <li>Toubleshooting + Support</li> <li>New support request</li> </ul>	P Re

5. Copy the Object ID (application instance) to notepad.

Azure Active Directory admin c	enter			
~	Dashboard > AudioCodes Ltd. (ai-logix.r	net) > Users > CallQueue resource		
🕮 Dashboard	CallQueue resource	Profile		
E All services	User			
* FAVORITES	~	🖉 Edit 🔑 Reset password 🚫 Revoke sessions	📋 Delete 💍 Refresh   🛜 Got feedback?	
Azure Active Directory	X Diagnose and solve problems	c		
🚨 Users	Manage	CallQueue resource		
Enterprise applications	Profile	CallQueue@SmartTAP.onmicrosoft.com		
	<ul> <li>Custom security attributes (preview)</li> </ul>	CR	User Sign-ins	Group memberships 0
	🚨 Assigned roles	CR		
	Administrative units			
	🚨 Groups		Oct 24 Oct 31 Nov 7 Nov 14 Nov 2	21
	Applications	Creation time 8/25/2020, 2:59:14 PM		Last sign+in date
	🔓 Licenses			
	Devices			
	Azure role assignments	Identity		
	Authentication methods	Name CallQueue resource	First name	Last name
	Activity	User Principal Name	User type	
		CallQueue@SmartTAP.onmicrosoft.com	Member	
	Sign-in logs	Object ID	Issuer	
	Audit logs	f17e8e19-1669-4a4c-bf13-e9e31420edaf	SmartTAP.onmicrosoft.com	Manage B2B collaboration
	Troubleshooting + Support	✓ View more		
	New support request	Job info		
		Job title	Department Microsoft Communication Application Insta	nce

#### Figure 8-4: Call Queue Resource

# 9 Managing Call Retention

This section describes the following:

- Configuring Call Retention below
- Save on Demand Call Retention on page 60

## **Configuring Call Retention**

Call retention is the number of days to keep recordings in storage. Default: 0 indicates that recordings are never deleted. Use the default with caution since eventually the storage location will be completely consumed. To meet business requirements, it's highly recommended to set the retention value to a positive number. SmartTAP 360° deletes calls that exceed the retention period once a day. A network administrator with appropriate security profile credentials has the option to add / modify retention policies.

### **Adding Call Retention Policy**

This section describes how to add a Call Retention Policy.

#### > To add a new retention policy:

1. Open the Add Retention Policy screen (Users tab > Retention folder > Add Policy).

Add Retention Policy	
Retention Policy Name	
Retention Policy Description	
Call and Instant Message Retention Period (in days) 0	
Video and Desktop Sharing Retention Period (in days) 0	
Retention Evaluation Rules	
O Delete Calls and Evaluations	
O Delete Calls, Keep Evaluations	
O Keep Calls, Video, Desktop Sharing and Eva	luations
	SUBMIT

2. Configure parameters according to the tables below.

Table 9-1: Call Retention

Field	Description
Retention Policy Name	The name of the Retention Policy. For example, Agent or Sales.
Retention Policy Description	Description of the policy and to whom it applies.

Field	Description
Call and Instant Message Retention Period (in days)	The number of days before automatically deleting Call and IM recordings. A value of zero (0) indicates that recordings are never deleted.
Video and Desktop Sharing Retention Period (in days)	The number of days before automatically deleting Video and Desktop Sharing recordings. A value of zero (0) indicates that recordings are never deleted.
SUBMIT	Applies the changes.

The Retention Evaluation options set the rules for keeping and/or deleting calls used in evaluations, as well as evaluations themselves.

Rule	Description
Delete Calls and Evaluations	Evaluations based on the calls subject will be deleted along with their associated calls.
Delete Calls, Keep Evaluations	Evaluations will be kept, however associated calls are deleted. Evaluation-call relationship is eliminated.
Keep Calls and Evaluations	If an evaluation is associated with a call, both the call and its' evaluation will be permanently kept.

Table 9-2:	Evaluation	<b>Retention Rules</b>
------------	------------	------------------------

**3.** Click SUBMIT to submit changes.

#### Viewing or Modifying a Retention Policy

This section describes how to view or modify a Retention Policy.

#### > To view / modify a retention policy:

1. Open the Call Retention screen (Users tab > Retention > View / ModifyPolicies).

Name 🗘	Description \$	Evaluation Retention Rule 🗘	Days 🗘	Modify
Default	Default Retention Group	DELETE_CALLS_KEEP_EVALS	365	Ø
British Columbia	90 Days	DELETE_CALLS_AND_EVALS	90	Ø
Energy calls	365	KEEP_CALLS_AND_EVALS	365	Ø
One Year	Hold Call for One Year	DELETE_CALLS_AND_EVALS	365	
Engineering Calls	365	DELETE_CALLS_AND_EVALS	365	Ø
NCR 30 Days	NCR Support	DELETE_CALLS_AND_EVALS	30	Ø
New Employee	test	DELETE_CALLS_AND_EVALS	7	Ø
Keep Recordings	Don't delete recordings	KEEP_CALLS_AND_EVALS	0	
	20 🔻 🗔	<ul> <li><a>1</a> </li> <li><a>▶</a> </li> <li><a>▶</a> </li> <li><a>1</a> <td>)</td><td></td></li></ul>	)	

Click Modify for a specific policy and modify the necessary fields (see Adding Call Retention Policy on page 58).

hange Retention Policy Retention Policy	
Retention Policy Name	test separated video2
Retention Policy Description	test separated video
Call and Instant Message Retention Period (in days)	365
Video and Desktop Sharing Retention Period (in days)	0
Retention Evaluation Rules	
<ul> <li>Delete Calls and Evaluations</li> </ul>	
O Delete Calls, Keep Evaluations	
O Keep Calls, Video, Desktop Sha	aring and Evaluations
	SUBMIT

**3.** Click **SUBMIT** to apply changes.

### **Save on Demand Call Retention**

This feature enables the recording of a Save on Demand call after the call is no longer active. Such a call can be recorded after an elapsed time of up to 1800 seconds (30 minutes). By default, this parameter is set to 0 (a Save on Demand call cannot be recorded after it is no longer active). This feature is designed to prevent hoax callers from compromising the security and integrity of the Enterprise or Call Center.

#### > Do the following:

- 1. Open the SOD Configuration screen (Users tab > Retention folder > Save on Demand).
- Configure the SOD Threshold value in seconds (up to 1800 seconds). Default= 180 seconds (3 minutes).

SOD Configuration		
SOD Wait Time (0 - 1800 seconds)	180	SUBMIT

# 10 Managing Analytics Profiles

Analytics is a process of analyzing human interactions media of voice by way of speech-to-text and analysis over the related transcription. The use of analytics enables organization stake holders such as compliance officers, process managers, product managers, marketing experts and others to acquire business insights efficiently for measuring performance and progress. For example, measuring employee performance and gauging customer satisfaction and behavior. Voice call transcription can be integrated into a business intelligence system to provide holistic analytics view of all communications in the organization. SmartTAP integrates with the Microsoft cognitive services to provide the following:

- Transcription of recorded voice interactions to text.
- Categorization and Word and phrase matching: Recordings can be categorized and keywords can be defined for each category for phrase and word matching. For example, "Sales Improvement" category may include keywords for analyzing consumer behavior for sales cold calling to customers. In this case, you may wish to detect mentions of "discount offers". According to the number of times this phrase is mentioned, analysis can gauge whether there is a positive correlation with sales leads.
- Sentiment Analysis: Sentiment analysis analyzes text polarity to determine impressions of brands or other topics based on positive, negative or neutral sentiments, and their association to specific sentences in the Speech-to-text transcripts. For example, 'dreadful' would be interpreted with strong **negative** polarity, 'OK' with **neutral** polarity, and 'awesome' with **positive** polarity.

Analytics is supported for Microsoft Teams integration only.

## **Add Analytics Categories**

Analytics categories are used to gauge different customer or call agent behavioral trends during voice conversations. Each category includes specific word-matching elements.

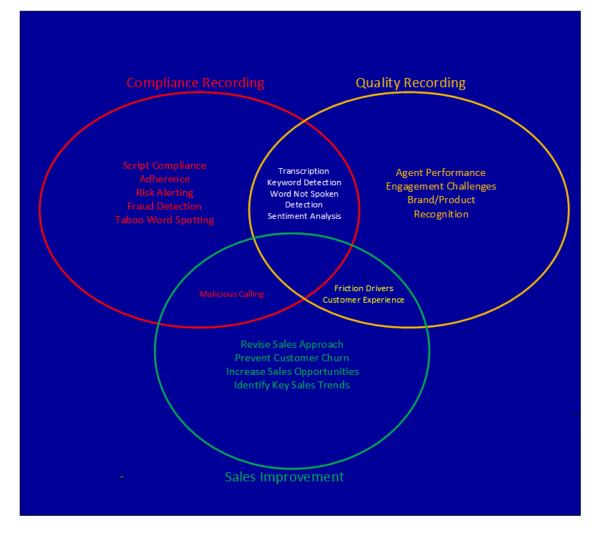


Its not Mandatory to define Analytics categories. Analyze can be performed on the full transcript.

- Analytics for Compliance: Companies recording for compliance and regulatory reasons must adhere to a very strict criteria which in many cases makes analysis of their call records mandatory. For example, set words not spoken to "recorded, "recording", "quality purposes" depending on the script. Automated analytics can be used to identify possible problem issues such as:
  - Determining whether offerings by financial advisers adhere to regulations.
  - Verifying whether staff provide a mandated regulatory statement at the start of each call.

- Ensuring employees describe promotions or offers accurately and transparently.
- Holding a complete record of all interactions to address problems before they arise.
- Analytics for Quality Recording: Quality analysis from the captured calls repository including:
  - Gauging customer experience including ease of reaching the personnel and identifying frequent product or support issues.
  - Monitoring Call agent adherence to workflow scripts.
  - Quality alerting through the identification of keywords such as "complaint", "refund", "escalation" or "unsatisfactory"
- Analytics for Sales Improvement: Analytics to objectively assess corporate sales performance including:
  - Attaining customer perspectives on pricing and service levels.
  - Attaining customer perspectives on competitors.
  - Identifying why customers are leaving, including which factors affect customer loyalty the most, and determine how to turn the situation around.
  - Identifying keywords that indicate quality issues and determine hot topics and trends which can potentially pitch advertising campaigns.

The figure below illustrates the different categories and their respective features.



The following are examples of keywords that may be used for the "Sales Improvement" category:

- Keywords for understanding product/customer support issues such as "refunds", "returns", "its not working".
- Sales Campaigns mentioning the word "discount" "limited offer".
- Contract renewal mentioning "contract" or "contract renewal".
- Apologies, for example "we apologize for any convenience".
- Inability to help related to sales/support: "I can't help", "I'm sorry I can't help with that", "Don't support".

For example "Life Insurance Renewal campaign": an Insurance salesman insists on delivering a stern message to customers that their life insurance policy has the lowest premium in the market and that customers can save compared to competitors. Phrases in transcript may contain "lowest premium", "significant savings" and "best value-for-money policy".

For example "Paperless Campaign": Paperless Campaign to sway customer to move to digital billing with incentive of 5% off their next billing cycle.

Analytics Category Name	Paperless Campaign	
Analytics Category Description	Paperless Campaign to sway customer to move tc	
OR		
Must Match Paperless		Ē
Must Match five percent		Ē
Must Match Digital Billing		<b>a</b>

The figure below shows a transcript between a sales representative and customer. Three categories are defined for this user (in this case, a salesperson):

- Campaign: keywords matching the names of marketing campaigns and programs. In the example, "Paperless billing" and "Digital billing".
- Competitor mention: keywords matching the names of competitors.
- No mention of recording: keywords matching

Calls before 1	Cell belth (2022, 517AM																					
T Calls																						
ē	Name		Start Time	Answered 0	Released 0	Duration 0	Direction Select V	Calling Party	Called Party	Answering Party	Dialed Digits	Release Cause Sele V	Recording Type O Select V	Triggered 0	Calls Expires	Video and Desktop Sharing Expires	Tags	Media Type S4 V	Media Status ¢	Media Status Reason	Conversation ID	Confe
0 🖻																	0					
10 V 11 01 (1 of 1) Phylogram (1 of 1) Total calls 1																						
Starch text in transcript       Image: Section with text in transcript       Image: Section with text in transcript         Categories:       Categories:       Categories:       Categories:         Categories:       Categories:       Categories:       Categories:         0::::::::::::::::::::::::::::::::::::																						
emic																						
81:81.630 O nservices. How does that zound? 81:04.590 O dh, it sounds great. Aweione. Really, really love having your business.																						
8111.140       O       You know, there's a few other things I'm seeing too. Oth, you, you did want to mention that you have a lot of other competitors that you're loading at that could potentially have some better deals. Yeah, I thick we do compete really well with WHEREM in         81125.578       O       There's a few others out there too. You know, if you, you mentiones BEELEM       1, you know, if thick we've got better services and products there and we'd really hate for you to leave the, you know, leave our services.																						
01:41.350 01:49.000		that would	be it would	be really grea	nt if you cou	ild renew th	e contract a	nd you could stay	ould you like to renew that part of this awesome busi	ness												
01:55.690		Oh, you wou	ld love to r	enew it for \$1	,000,000. Th	at is perfe	ct. We love	that and we love :	your business and we appre	ciate you and I	nave a gre	at rest of	your day, we	thank you, I	dichael. Go	odbye.						

For figure below displays additional categories 'Apologize', identifying apologetic keywords, Malicious, identifying threatening keywords and 'Refund' mentioning keywords identifying refunds of money.

Tag Name Tag Value	♀         Search text in transcript         ♥         Sentiment:         ♥         Positive         ♥         Negative         ♥         Neutral         ♥         Auto-scroll	-
Analytics Categories:	Categories: malicious (3) paperfess campaign (4) No mention of Recording (9) Apologize (1) Refund (2) Competitor: Mention (1)	
	00:00.560 🕞 Hi we'd like to offer you paperless billing, where if you are willing to switch over we will give you five percent of your next bill.	off
Analytics Sentiment: Positive % >	00:15.660 🕞 I'm so sorry about your recent experience sir, let me see how I can help you.	
SysCall ID:	00:25.120 🕞 I'd like to return this product.	
	00:32.170 🕟 It has been off and on from the very start.	
Search	00:38.430       So your product isn't working and you'd like me to establish a refund for you?         00:45.760       I may switch over to vericon if i keep having these issues with you guys.	
* Saved Searches	00:05.980 (C) I will complaint to the police if you keep threatening me.	
No records found.		
14 <4 >> >1 (1 of 1)		
	00 00 00 1 00	
	00.00.00 1.00	01.02
		· · ·

#### ➤ To add categories:

 Open the Add Analytics categories page (Users tab > Analytics folder > Add Analytics Categories).

Add Analytics Category	
Analytics Category Name	
AND V (+ Composite) (+ Must Match) (+ Must Not Match)	
	SUBMIT

- 2. Fill in Analytics Category Name and Analytics Category Description (optional).
- 3. Click +Must Match to fill in a word or phrase that if matched during the call, aligns with the category.
- 4. Click +Must Not Match to fill in a word or phrase that if not matched during the call, aligns with the category.
- 5. Select AND/OR drop-down to add the Boolean logic to the matched and unmatched words.
- 6. Click +Composite to create another group that all follows AND logic or OR logic.
- 7. Click SUBMIT to apply changes.

## **View and Modify Analytics Categories**

This section describes how to view/modify categories.

#### **To View/Modify categories:**

Open the View/Modify Analytics Categories page (Users tab > Analytics folder > View/Modify Analytics categories).

	Figure 10-1:	View/Modif	y Analytics	categories
--	--------------	------------	-------------	------------

VewModIly Analytics Categories			
Name		Hodify Analytics Categories	Delete
Paperless Campaign	Paperless Campaign to sway customer to move to paperless		
Extended Contract	Extended Contract of 3 or 5 years		
Category_I	des		
Category_REST	des		
	20 W III II III II (1.0f.1)		

- 2. Click adjacent to the Analytics category that you wish to modify.
- 3. Modify category (see Add Analytics Categories on page 62).
- 4. Click SUBMIT to apply changes.

# **Add Analytics Profile**

Analytics profiles lets you define analytics criteria for applying to specific users. The profile includes the assigning of categories defined in Add Analytics Categories on page 62. You can generate reports based on the retrieved data and send the reports to a list of subscribers.

#### > To add an analytics profile:

1. Open the Add Analytics Profile page (Users tab > Analytics folder > Add Analytics Profile).

	Figure 10-2:
Add Analytics profile	
Analytics Profile Name	
Analytics Profile Description	
Configuration	SmartTapAnalytics ~
Language	English (Australia) - Sentiment supported
Sentiment Analysis Enabled	
Categories	hello
Enable Analytics Report	
Subscription For Report	Non Recipients     Recipients       null     >>       ST-Teams106, ST-Teams106     >>       ST-Teams22     >       ST-Teams23     <       ST-Teams24
Report Frequency	ST-Teams25         Daily         Weekly       Monday         Tuesday       Wednesday         Thursday       Friday         Saturday       Sunday         Monthly       1st of the Month         Mid Month       Final Day of the Month
	SUBMIT CANCEL

- 2. Configure fields according to the table below.
- SUBMIT 3. Click to apply changes.

Field	Description
Analytics Profile Name	The name of the Analytics profile.
Analytics Profile Description	A short description of the Analytics profile.
Configuration	The name of the pre-configured analytics configuration.
Language	The language to apply to the transcript.
Sentiment Analysis Enabled	Determine whether the sentiment analysis uses Microsoft's sentiment analysis feature to provide % negative, % neutral, and % positive sentiment values for the call (based on a per phrase analysis).
Categories	Determines the categories that are applicable to the Analytical Profile. The categories are defined in Add Analytics Categories on page 62.
Enable Analytics Report	Enables the generation of Analytics reports and the sending of the reports to specific recipients.
User Subscription	The list of subscribers to receive the generated reports. Use the > >> keys to add user recipients for receiving the Analytical reports by email. Use the < << keys to remove recipients from the list.
Report Frequency/date criteria	<ul> <li>The frequency a report is sent to a recipient(s). The higher the frequency of the report, the less data that is sent in the call period listed. Configure one of the following Report Frequencies:</li> <li>Daily (Monday thru Sunday)</li> <li>Weekly</li> <li>Monthly</li> </ul>

## Table 10-1: Analytics Profile

The following shows an example of a generated report sent to subscribers.

A1		I × ✓ fr Category     Category			
4	A	В	C	D	E
1	Category	Call link	# of match	es	
2	cat1	http://il-sharonbi-lp.corp.audiocodes.com/smarttap/calls/calls.jsf?id=10536			
3	cat1	http://il-sharonbi-lp.corp.audiocodes.com/smarttap/calls/calls.jsf?id=10535 2			
4	cet2	http://il-sharonbi-lp.corp.audiocodes.com/smarttap/calls/calls.jsf?id=10536 4			

Example report data is shown below.

## Subject: analytics11 Anayltics Report - Daily

analytics11 Anayltics Report: DailyReport

Total Analyzed Calls: 3

Category Name: cat1 Number of Matched Calls: 2 % Match of Analyzed Calls: 66%

Category Name: cat2 Number of Matched Calls: 1 % Match of Analyzed Calls: 33%

Category Name: cat3 Number of Matched Calls: 0 % Match of Analyzed Calls: 0%

### **View and Modify Analytics Profile**

This section describes how to view and modify an Analytics profile.

#### > To view and modify an analytics profile:

 Open the View/Modify Analytics Profiles page (Users tab > Analytics folder > View/Modify Analytics Profile).

View/Modify Analytics Profiles			
Name	\$ Description 🗘	Modify Analytics Profiles	Delete
EN_Analytics Profile	EN_Analytics Profile		ā
rest_Analytics	rest_Analytics_desc		
prof1	des		
HE_Analytics Profile	HE_Analytics Profile		Ē
FR_Analytics Profile	FR_Analytics Profile		Ē
RU_Analytics Profile	RU_Analytics Profile		Ē
AR_Analytics Profile	AR_Analytics Profile		Ē
Managed Identity_Analytics Profile_EN	Managed Identity_Analytics Profile_EN		
	20 v 🖂 🔫 1 🔛 🖂 (1 of 1)		

2. Click adjacent to the Analytics Profile that you wish to modify.

0	
Modify Analytics profile	
Analytics Profile Name	EN_Analytics Profile
Analytics Profile Description	EN_Analytics Profile
Configuration	AnalyticsConfiguration ~
Language	en-US v
	SUBMIT CANCEL

Figure 10-3: Modify Analytics Profile

- 3. Configure fields according to the table below.
- 4. Click SUBMIT .to apply changes.

#### Table 10-2: Analytics Profile

Field	Description
Analytics Profile Name	The name of the analytics profile.
Analytics Profile Description	A short description of the analytics profile.
Configuration	The preconfigured configuration of the analytics profile.
Language	The language to apply to the analytics configuration.

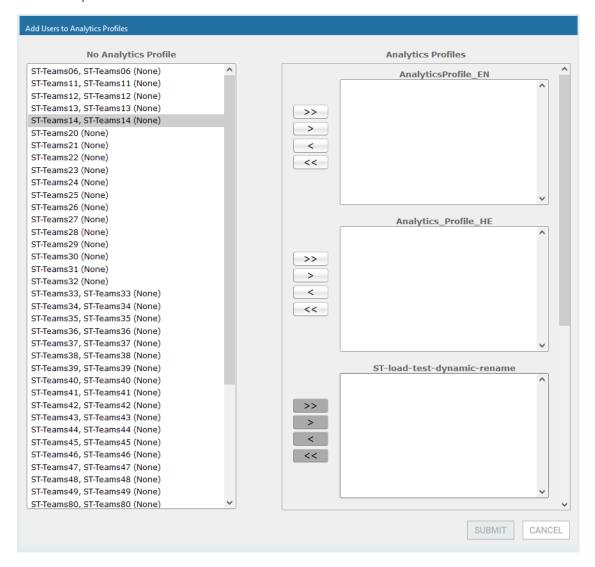
# **Add Users to Analytics Profiles**

This section describes how to associate users to Analytics profiles configured in Add Analytics Profile on page 67. Once the users are associated to a profile, the Analytics toolbar is displayed below the selected call in the Calls list including the attached profile. In addition, when **Display Transcript** check box is selected, the words matching the configured categories are highlighted.

Cal	Gale before 12/20/22, 517 AM																						
▼ Ca	* Calls																						
+																							
	đ	Name	¢	Start Time	Answered 0	Released 0	Duration 0	Direction Select V	Calling Party	Called Party	Answering Party	Digits	Release Cause Sele V	Recording Type O Select V	Triggered 0	Calls Expires	Video and Desktop Sharing Expires	Tags	Media Type St V	Media Status 0	Media Status Reason	Conversation ID	Confe
o	đ																	0					
													10	¥ 14 4	4 <b>1</b> >>	H (1	of 1)						
	isplay Tra	nscript													То	tal calls: 1							
Cate	Company C C Company C C C C C C C C C C C C C C C C C C C																						
00:2		Ŭ							e quite annoying that you've got a	really awesome deal that	that we have in	n place that	could be	e really bene	ficial for y	ou							
00:4	4.120	Ŭ				are billed	via the mail	l and we do I	ave a current di	scount happening right now	that if you s	witch over t	o paperl	less billing,	which is es	sentially (	our digital	billing	program	, you'll (	be able to	get a 5% discou	int on.
81:8	2.630	Θ	On services. H	How does th	at sound?																		
01:0	4.950		Oh, it sounds	great. Awe	some. Awesome	. Really, re	ally love h	aving your b	siness.														
01:1	81:11.148 💿 You know, there's a few other things I'm seeing too. Oth, you, you did want to mention that you have a lot of other competitors that you're looking at that could potentially have some better deals. Yesh, I think we do compete really will with werease an																						
e1:25.770 🕤 There's a few others out there too. You know, if yoo, you mentioned meeting, I, you know, I think that we've got better services and products there and we'd really hete for you to leave the, you know, leave our services.																							
01:4	01:41.150 🕟 last thing michael is i do see that you've got a contract coming up to to to be renneed would you like to renne that contract																						
01:4	81:49.000 💿 that would be risk would be really great if you could reme the contract and you could stay part of this mesone business																						
01:5	5.690		oh, you would	love to re	new it for \$1	,өөө,өөө. тh	at is perfe	t. We love	that and we love ;	your business and we appre	ciate you and I	have a great	rest of	your day. We	thank you, I	Michael. G	oodbye.						

#### To add users to analytics profiles:

 Open the Add Users to Analytics Profiles page (Users tab > Analytics folder > Add Analytics Profile).



2. Manage user Analytics Profiles according to the table below.

3. Click SUBMIT to apply changes.

Field	Description
No Analytics Profile	Lists all users that are not assigned to any Analytics profile. Select users by clicking the username; multiple users while holding <ctrl>; or all users within a range by clicking top user and user while holding <shift>.</shift></ctrl>
Analytics Profiles	Names of the configured Analytics profiles.
>>	Assign all users to a specific Analytics profile.
>	Add selected user to a specific Analytics profile.
<	Remove user from an Analytics profile
<<	Remove all users from specific Analytics profile.

# **11** Managing Devices

This section describes how to manage recordable devices:

- Add Recordable Device below
- Viewing and Modifying Recordable Devices on the next page
- Adding a Device Attribute on page 76
- Viewing and Modifying Device Attributes on page 79

## **Add Recordable Device**

This section shows how to manage recordable devices.

#### > To add a Recordable Device:

 Open the Add Recordable Device screen (Users tab > Device Management folder> Add Device).

Add Recordable Device				
Name			Description	
Туре	select type	¥	TEL URI_3	
Tel URI			Tel URI 2	
<b>Retention Policy</b>	Default	¥	<b>Recording</b> Profile	None •
Availab	le Groups		Assigned Grou	ps
Default Enginee MOA Co NCR COO Analytic Demo	ust Service		>> < <<	*
				SUBMIT CANCEL

- 2. Configure the fields according to table below.
- 3. Click SUBMIT to apply changes.

#### Table 11-1: Recordable Device – Settings Descriptions

Field	Description
Name	Name of the new recordable device.

Field	Description					
Description	Description of the new recordable device.					
Туре	Type of recordable device. Dropdown menu shows valid entries.					
Retention Policy	Select an appropriate retention policy for the device.					
Recording Profile	Select an appropriate recording profile for the device.					
Available Groups	User groups available to assign to this device. Select groups by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift>.</shift></ctrl>					
Assigned Groups	User groups assigned to this device. Select group by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift>.</shift></ctrl>					
>>	Add all Available Groups to the Assigned groups.					
>	Add selected Available Groups to the Assigned groups.					
<	Remove selected Groups from the Assigned group.					
<<	Remove all Groups from the Assigned group.					
SUBMIT	Apply the changes.					
CANCEL	Cancel the changes.					
	Delete Device – displayed only when you modify an existing profile.					

## Viewing and Modifying Recordable Devices

This section describes how to view and modify recordable devices.

### > To view and modify recordable devices:

 Open the View/Modify Recordable Devices screen (Users tab > Device Management folder> View/Modify Devices).

Figure 11-1:									
View/Modify Recordable Devices									
-									
Name	Description		\$ •	Modify	Delete				
Lobby Phone	Ext 5001	PHONE		Ø	Ī				
NCR	NCR Support	OTHER			Ē				
DCI	DCI Support	PHONE			Ē				
AutoAttendant	Corp AutoAttendant	ACD							
Menachem Honig-USA		PHONE			Ī				
20 V (1 < 1 ) (1 of 1)									
View/Modify Recordable Devices									
Name	Description	Type     Select	¢ v	Modify	Delete				
SIP Proxy1	20 v 14 (4 1 1)	SIP_PROXY (1 of 1)							

2. Select the Recordable Device to modify.

Figure 11-2: Modify Recordable Device

Modify Recordable Device	:			
Name	SIP Proxy1		Description	
Device type	SIP Proxy	~	SIP1	
<b>Retention Policy</b>	Default	<b>v</b>	<b>Recording Profile</b>	None 🗸
Available	Groups		Assigned Group	15
Default		()	>> < <<	SUBMIT CANCEL

**3.** Configure fields according to the table below.



Field	Description					
Name	Name of the new recordable device.					
Description	Description of the new recordable device.					
Туре	Type of recordable device. Drop down menu shows valid entries.					
Retention Policy	Select an appropriate retention policy for the device.					
Recording Profile	Select an appropriate recording profile for the device.					
Available Groups	User groups available to assign to this device. Select groups by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift>.</shift></ctrl>					
Assigned Groups	User groups assigned to this device. Select group by clicking the group name; multiple groups while holding <ctrl>; or all within a range by clicking top group and bottom group while holding <shift>.</shift></ctrl>					
>>	Add all Available Groups to the Assigned groups.					
>	Add selected Available Groups to the Assigned groups.					
<	Remove selected Groups from the Assigned group.					
<<	Remove all Groups from the Assigned group.					
CANCEL	Cancel the changes.					
Ē	Delete Device – displayed only when you modify an existing profile.					

# Adding a Device Attribute

This section describes how to add a SmartTAP 360° device attribute. Create device attributes and devices when you need to record common area phones, IVR numbers, or other common phone numbers. The table below describes the purposes of these attributes.

Attribute Purpose	Priority	Description
Trigger Recording	Critical	Instructs SmartTAP 360° which attribute to use for triggering recording. (i.e., Add TEL_URI attribute and provide a value to be assigned to the device. If the device

based on the TEL\_URI).

information purposes only.

makes a SIP call, SmartTAP 360° will trigger a recording

Add additional information to the device account within

SmartTAP 360°, for example, Ext, Tel URI, Mobile, etc. for

#### Table 11-3: SmartTAP 360° Device Attributes

#### > To add a device attribute:

Optional

Provide

Additional

device Info

 Open the Add Device Attribute screen (Users > Device Management > Add Device Attribute).

Figure 11-3:	Add General	Device Attribute
--------------	-------------	------------------

Add Device Attribute	
Attribute Name	
Attribute Description	
Network Mapping	
	SUBMIT CANCEL

- 2. Configure fields according to the table below.
- 3. Click SUBMIT to apply new device attribute.

### Table 11-4: Device Attributes

Field	Description
Attribute Name	Unique easily identifiable name to the attribute.
Attribute Description	Brief Description of the attribute.

Field	Description					
Network Mapping	Indicates whether attribute mapping is required. When selected, the 'Network Mapping Type' drop-down list is displayed.					
Network Mapping Type	Indicates the type of network mapping that is required for the user. Choose from one of the following values: TEL_URI SIP_URI IP_ADDRESS TERMINAL_ADDRESS USERNAME EXTENSION TRUNK_ID					
	<ul> <li>TERMINAL_ADDRESS</li> <li>USERNAME</li> <li>EXTENSION</li> </ul>					

## Adding a Device Attribute for Recording

This section describes how to add a recording device attribute.

#### > To add a device attribute for recording purposes:

- Open the Add Device Attribute screen (Users > Device Management folder > Add Device Attribute).
- 2. Enter the Attribute Name.
- **3.** Enter the Attribute Description.
- 4. Select the Network Mapping option.
- 5. From the Network Mapping drop-down list, select the appropriate Network Mapping type e.g. 'TEL\_URI'
- 6. Click SUBMIT to apply new device attribute or CANCEL to exit.

Figure 11-4:	Add Devi	ce Attribute	- TEL URI

Add Device Attribute	
Attribute Name	TEL_URI
Attribute Description	
Network Mapping	
Network Mapping Type	TEL_URI V
	SUBMIT CANCEL

## Viewing and Modifying Device Attributes

This section describes how to view and modify device attributes.

#### > To view and modify recordable devices:

 Open the View/Modify Recordable Devices screen (Users tab > Device Management folder> View/Modify Device Attributes).

View/Modify Device Attributes					
Name	Description	Network Mapping     Select One	\$ v	Modify	Delete
TEL_URI	TEL_URI	TEL_URI			Ē
		20 v 🖂 📢 🚺 🕨 ы (1 of 1)			

2. Select the Device Attributes to modify.

Modify Device Attribute	
Attribute Name	TEL_URI
Attribute Description	TEL_URI
Network Mapping	
Network Mapping Type	TEL_URI V
	SUBMIT CANCEL

- 3. Configure fields according to the table below.
- 4. Click SUBMIT to apply changes.

User Attribute	Description			
Attribute Name	Unique easily identifiable name to the attribute.			
Attribute Description	Brief Description of the attribute.			
Network Mapping	Indicates whether attribute mapping is required. When selected, the 'Network Mapping Type' drop-down list is displayed.			
Network Mapping Type	Indicates the type of network mapping that is required for the user. Choose from one of the following values: TEL_URI SIP_URI IP_ADDRESS TERMINAL_ADDRESS USERNAME EXTENSION TRUNK_ID OBJECT_ID			

## Table 11-5: Device Attributes

# **12** Managing Users

This section shows how to perform user management. This section describes the following:

- Adding a user (see below)
- View and Modify Users on page 85
- Update an Admin User on page 88
- Modify a User Password on page 95
- Uploading a User Image on page 96

#### **To add a user:**

1. Open the Add User screen (Users tab > User Management folder> Add User).

Add User						
	First Name			Last Name		
	Email			Login Id		
	Id / Alias			SIP URI		
	TEL URI			Retention Policy	Default	•
	Recording Profile	None	T	Legal Hold	OFF	
Security Prof	files			Groups		
administrator agent supervisor		*		APAC Sales APAC Suppor Default EMEA Sales EMEA Suppor NA Sales NA Support Sales Support		
					SUBMIT	CANCEL

- 2. Enter the user's First Name.
- 3. Enter the user's Last Name.
- **4.** Optionally enter the user's email (SmartTAP 360° sends initial password to this email address).

- 5. Optionally enter ID / Alias (this is free-form text that can be used to enter the employee ID or any other data).
- 6. Select an appropriate retention policy for the user (Default: 'default').
- 7. Select an appropriate recording profile for the user (Default: 'None').
- 8. Select the security profile or profiles by highlighting them (see the notes on the Add User screen field descriptions, above, for how to select more than one profile).
- 9. Select the group or groups to which the new user is to be added.
- **10.** Add the appropriate value to any attribute fields that are designated for recording.

If SmartTAP 360° is configured for LDAP, any SmartTAP 360° attributes mapped to AD attributes will be auto populated.

- 11. Click SUBMIT to apply changes; a successful configuration results in a message in green font in the command execution Results area; a failed configuration results in a failure message encoded in red font in the command execution Results area. SmartTAP 360° sends an email to the user with their login and initial password, assuming that an email was provided.
- **12.** Use the table below as reference.

Field	Description
First Name	First name of the user.
Last Name	Last name of the user.
Email	Email of the user (must be valid as a new password is sent to this email).
Login Id	User login name.
Id / Alias	Free text (can be anything).
Retention Policy	Select an appropriate retention policy for the user.
Recording Profile	Select an appropriate recording profile for the user.
Security Profiles	Lists the Security Profiles that can be assigned to the user. Highlighted items indicate the Security Profiles that have been assigned to the user. To assign/or remove Security Profiles from the user, hold down the <crtl> key and click the Security Profiles name(s) to be added/or removed. To select a range of Security Profiles, hold down the <shift> key and click the Security Profile at the top of the range and then the Security profile at</shift></crtl>

#### Table 12-1: Adding a User

Field	Description
	the bottom of the range.
Groups	Lists the groups that the user can be a member of. Highlighted items indicate the groups that the user is a member of. To assign/or remove a user from a group, hold down the <crtl> key and click the Group name(s) to add/or remove the user from. To select a range of Groups, hold down the <shift> key and click the Security Profile at the top of the range and then the Security profile at the bottom of the range.</shift></crtl>
****	Reset Password – displayed only when modifying a user.
	Legal Hold – the retention process will not delete a user's calls or messages when the user is placed on legal hold. This feature is only available when modifying a user.
SUBMIT	Apply the changes.
CANCEL	Cancel the changes.

# Adding a User

This section describes how to add a SmartTAP user.

#### > To add a SmartTAP user:

- 1. Open the Add User screen (Users tab > User Management folder> Add User).
- 2. Fill in the appropriate fields using the table below as a reference.

Add User						
	First Name			Last Name		
	Email			Login ID		
	Alias			OID_XX		
	Retention Policy	Default	~	Recording Profile	None	~
	Legal Hold	OFF		Recording license		
Security Profi	les			Groups		
administrator agent supervisor				Default		*
					SUBMIT	CANCEL

## Table 12-2: Add User

Field	Description
First Name	User first name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Last Name	User last name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Email	User email address sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Login Id	User login ID sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Id / Alias	User ID / Alias sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
OID	Custom OID field.

Field	Description
Security Profiles	<ul> <li>Select one of the following security profiles to attach to the user:</li> <li>administrator</li> <li>agent</li> <li>supervisor</li> </ul>
Groups	Select a group to assign to the user.
	Click to modify the user.
ā	Click to delete the user.
Page Navigation buttons	Buttons are shortcuts to the beginning/end, previous/next page of displayed entries. The dropdown allows changing the number of entries per page.

**3.** Click **SUBMIT** to apply changes.

## **View and Modify Users**

This section describes how to view and modify users.

## > To view/modify users:

Open the View/Modify Users screen (Users tab > User Management folder> View/Modify User).

View/Modify Users						
-						
First Name 🗘	Last Name 🗘	Email \$	Login ID 🗘	Alias 🗘	Modify	Delete
	1	·	NOT_compliance- user1@smarttap.onmicrosoft.com			
Daniel	Kochav		danielk@smarttap.onmicrosoft.com	Kochav		
Deb	Dutta		debajyotid@smarttap.onmicrosoft.com	Dutta		
Initial	User (PLEASE DELETE)	notauser@nodomain.com	admin			
NOT_compliance- user2		NOT_compliance- user2@smarttap.onmicrosoft.com	NOT_compliance- user2@smarttap.onmicrosoft.com			
Sharon	Biner		sharonbi@smarttap.onmicrosoft.com	Biner		
ST-Teams06	ST- Teams06	ST- Teams06@smarttap.onmicrosoft.com	ST- Teams06@smarttap.onmicrosoft.com	ST- Teams06		
ST-Teams10	ST- Teams10	ST- Teams10@smarttap.onmicrosoft.com	ST- Teams10@smarttap.onmicrosoft.com	ST- Teams10		
ST-Teams100	ST- Teams100	ST- Teams100@smarttap.onmicrosoft.com	ST- Teams100@smarttap.onmicrosoft.com	ST- Teams100		
ST-Teams11	ST- Teams11	ST- Teams11@smarttap.onmicrosoft.com	ST- Teams11@smarttap.onmicrosoft.com	ST- Teams11		
ST-Teams12	ST- Teams12	ST- Teams12@smarttap.onmicrosoft.com	ST- Teams12@smarttap.onmicrosoft.com	ST- Teams12		
ST-Teams13	ST- Teams13	ST- Teams13@smarttap.onmicrosoft.com	ST- Teams13@smarttap.onmicrosoft.com	ST- Teams13		
ST-Teams14	ST- Teams14	ST- Teams14@smarttap.onmicrosoft.com	ST- Teams14@smarttap.onmicrosoft.com	ST- Teams14		
ST-Teams17		ST- Teams17@smarttap.onmicrosoft.com	ST- Teams17@smarttap.onmicrosoft.com			
ST-Teams18		ST- Teams18@smarttap.onmicrosoft.com	ST- Teams18@smarttap.onmicrosoft.com			
ST-Teams19		ST- Teams19@SmartTAP.onmicrosoft.com	ST- Teams19@SmartTAP.onmicrosoft.com			
ST-Teams20		ST- Teams20@SmartTAP.onmicrosoft.com	ST- Teams20@SmartTAP.onmicrosoft.com			
ST-Teams21		ST- Teams21@SmartTAP.onmicrosoft.com	ST- Teams21@SmartTAP.onmicrosoft.com			
ST-Teams22		ST- Teams22@smarttap.onmicrosoft.com	ST- Teams22@smarttap.onmicrosoft.com			
ST-Teams23		ST- Teams23@smarttap.onmicrosoft.com	ST- Teams23@smarttap.onmicrosoft.com			
		20 🗸 🖂 🖬 2 3	4 5 🕨 🖬 (1 of 5)			>

## Figure 12-1: Users List Displaying Licensed Users

View/Modify Users							
-							
First Name 🗘	Last Name 🗘	Email 🗘	Login ID	Alias \$	Recording license \$	Modify	Delete
Initial	User (PLEASE DELETE)	notauser@nodomain.com	admin				1
Shirel			${\tt Shirelchen.Megidish\_audiocodes.com\#EXT\#@SmartTAP.onmicrosoft.com}$				Ī
ST-Teams10			ST-Teams10@smarttap.onmicrosoft.com				Ē
ST-Teams100			ST-Teams100@smarttap.onmicrosoft.com				
ST-Teams101			ST-Teams101@smarttap.onmicrosoft.com				
ST-Teams102			ST-Teams102@smarttap.onmicrosoft.com				
ST-Teams11			ST-Teams11@smarttap.onmicrosoft.com				
ST-Teams12			ST-Teams12@smarttap.onmicrosoft.com				
ST-Teams13			ST-Teams13@smarttap.onmicrosoft.com				
ST-Teams14			ST-Teams14@smarttap.onmicrosoft.com				
ST-Teams17			ST-Teams17@smarttap.onmicrosoft.com				
ST-Teams18			ST-Teams18@smarttap.onmicrosoft.com				
ST-Teams19			ST-Teams19@SmartTAP.onmicrosoft.com				Ē
ST-Teams20			ST-Teams20@SmartTAP.onmicrosoft.com				Ē
ST-Teams21			ST-Teams21@SmartTAP.onmicrosoft.com				Ē
ST-Teams22			ST-Teams22@smarttap.onmicrosoft.com				Ē
TeamsTestUser2			TeamsTestUser2@ai-logix.net				Ī
			20 V (1 of 1)				

- djacent to the user that you wish to modify. 2. Click Modify User First Name user100 Last Name SIPREC Teams Email user100@fanta.local Login ID user100 Alias OID 3b47f7f8-bd88-4cd7-a9 Retention userName user100 Default  $\sim$ Policy Recording  $\sim$ Audio Legal Hold OFF Profile Recording  $\checkmark$ license **Security Profiles** Groups ^ Default administrator agent supervisor ₿ SUBMIT CANCEL Ī
- 3. Configure fields according to the table below.

Click SUBMIT to apply changes.

4.

#### Table 12-3: View/Modify Users

Field	Description
First Name	User first name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Last Name	User last name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.

Field	Description
Email	User email address sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Login Id	User login ID sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
OID	Custom OID field.
Id / Alias	User ID / Alias sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Retention Policy	Indicates the retention policy that is assigned to the user.
Legal Hold	Indicates whether the Legal Hold is enabled for the user
Recording Profile	Indicates the recording profile that is assigned to the user
Recording License	Indicates whether a recording license is assigned to the user.
Security Profiles	<ul> <li>Select one of the following security profiles to attach to the user:</li> <li>administrator</li> <li>agent</li> <li>supervisor</li> </ul>
Groups	Select a group to assign to the user.
Ō	Click to delete the user.
Page Navigation buttons	Buttons are shortcuts to the beginning/end, previous/next page of displayed entries. The dropdown allows changing the number of entries per page.

## Update an Admin User

This section describes how to update an Admin user.

## > To update an Admin User (optional):

After logging in, the 'admin' user can create a new administrator account or just edit the information and modify the password for this account.

Ensure that you configure SMTP settings (see Configuring Email Server Settings on page 263).

#### > To modify / update an Admin User:

- **1.** Log in as user 'admin'.
- Open the View/Modify User screen (Users tab > User Management folder> View/Modify User).

View/Modify Users							
+							
First Name ᅌ	Last Name ᅌ	Email 🗘	Login Id	\$ SIP URI \$	TEL URI	Modify	Delete
Tania	Adar (admin)		admin				Ē
Tania	Adar (x3051)		tadar	sip:user3051@lcent4.local	tel:+17005553051;ext=3051	Ø	Ē
Eric	Banks (x3056)		ebanks	sip:user3056@lcent4.local	tel:+17005553056;ext=3056		
Lorenzo	Barrett		lbarrett	sip:user3057@lcent4.local	tel:+17005553057;ext=3057		
Rosie	Huff		rhuff	sip:user3055@lcent4.local	tel:+17005553055;ext=3055		
Edgar	Jenkins		ejankins			Ø	
Barbara	Warner		bwarner			Ø	Ē
		20	▼ 14	 l 🕨 🕨 (1 of 1)			

3. Click to modify the user.

Modify User				
	First Name	Initial	Last Name	User (PLEASE DELETE)
	Email	notauser@nodomain.con	Login ID	admin
	Alias		OID	
	Retention Policy	Default v	Recording Profile	None 🗸
	Media Location	Default v	Analytics	
	Legal Hold	OFF	Recording license	None
	Analytics license	None		
Security Pro	ofiles		Groups	
administrator	r	^	Default	^
agent				
supervisor				
system				
		~		~
			l	

- 4. Update the user information (First name, Last name, Email, Login Id).
- 5. Make sure the email is a valid email.
- 6. Id/Alias is an optional text field that can be used to enter any data. For example, employee ID or nickname to help identify the user if there are multiple users with the same first & last name.
- **7.** Click **SUBMIT** to apply changes.

# Adding a User Attribute

This section describes how to add a user attribute. The table below describes the purposes of these attributes.

Attribute Purpose	Priority	Description
Trigger Recording	Critical	Instructs SmartTAP 360° which attribute to use for triggering recording. (i.e., Add SIP_URI If the device makes a SIP call, SmartTAP 360° will trigger a recording based on the SIP_URI, for Teams add OBJECT_ID).
Provide Additional device Info	Optional	Add additional information to the user account within SmartTAP 360°, for example, Ext, Tel URI, Mobile, etc.(for information purposes only). See also Adding a General Device Attribute.

#### Table 12-4: SmartTAP 360° User Attributes

Enhance the integration by mapping SmartTAP 360° attributes to Active Directory attributes to auto-populate device information within SmartTAP 360°. To map a device attribute to an Active Directory device attribute, see Adding an LDAP Configuration on page 317.

#### > To add a user attribute:

 Open the Add User Attribute page (Users tab > User Management folder > Add User Attribute).

Add User Attribute	
Attribute Name Attribute Description	
Network Mapping	
	SUBMIT CANCEL

2. Configure fields according to the table below.

#### Table 12-5: User Attributes

Field	Description
Name	Unique easily identifiable name to the attribute.
Description	Brief Description of the attribute.
Network Mapping	Indicates whether attribute mapping is required. When selected, the 'Network Mapping Type' drop-down list is displayed.

Field	Description
Network Mapping Type	Indicates the type of network mapping that is required for the user. Choose from one of the following values: TEL_URI SIP_URI IP_ADDRESS TERMINAL_ADDRESS USERNAME EXTENSION TRUNK_ID
	OBJECT_ID

## Adding a Microsoft Teams AAD User Attribute

This section describes how to add a custom user attribute for mapping the Object ID of the Microsoft Teams user Active Directory attribute. When the Object\_ID is assigned its mapped to the value 'id' which can then be configured in the mapping profile in the Active Directory Configuration (see Step 5 Add Azure Active Directory Mapping in SmartTAP 360°).



The SmartTAP users must have an AudioCodes Active Directory OBJECT\_ID attribute mapping type set with the matching Teams User ID.

- > To map SmartTAP 360° user to Object ID attribute:
- 1. Open the Add Device Attribute screen (Users > User Management > Add User Attribute).
- 2. Enter the Attribute Name.
- 3. Enter the Attribute Description.
- 4. Select the Network Mapping option.
- 5. Select the Network Mapping type **OBJECT\_ID**.

Add User Attribute	
Attribute Name	Object ID
Attribute Description	AAD User's ID
Network Mapping	
Network Mapping Type	OBJECT_ID ~
	SUBMIT CANCEL

- 6. Click SUBMIT to apply the new device attribute.
- 7. Associate the Object ID attribute to the relevant Microsoft Azure id attribute (see AAD User and Group Mapping on page 372).
- Open the View/Modify Users screen (Users tab > User Management folder> View/Modify User).
- 9. Click adjacent to the relevant Teams user.

The Active Directory idattribute for the user is retrieved in SmartTAP synchronization with theAAD and displayed in the Modify User screen.

Modify User					
	First Name	ST-Teams10		Last Name	
	Email	ST-Teams10@smarttap	.onm	Login ID	ST-Teams10@smarttap.onm
	Alias			<script></td><td></td></tr><tr><td></td><td>OID</td><td>4c0cdfc2-0e7e-4ddc-8b</td><td>3c-8(</td><td>Object ID</td><td>e-4ddc-8f4c-800adb71926dt</td></tr><tr><td></td><td>TeamsUserId</td><td></td><td></td><td>Retention Policy</td><td>Default 🗸</td></tr><tr><td></td><td>Recording Profile</td><td>SOD</td><td>•</td><td>Legal Hold</td><td>OFF</td></tr><tr><td>Security Pro</td><td>ofiles</td><td></td><td></td><td>Groups</td><td></td></tr><tr><td>administrator</td><td></td><td><b>A</b></td><td></td><td>Default</td><td>*</td></tr><tr><td>agent Custom</td><td></td><td></td><td></td><td>Sales</td><td></td></tr><tr><td>supervisor</td><td></td><td></td><td></td><td>Support</td><td></td></tr><tr><td>Supervisor</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>L</td><td></td><td><b>T</b></td><td></td><td></td><td><b>*</b></td></tr><tr><td></td><td></td><td></td><td></td><td>ຣເ</td><td></td></tr><tr><td>s</td><td>UBMIT</td><td></td><td></td><td></td><td></td></tr><tr><td>10. Click 🖵</td><td> to app</td><td>ly changes.</td><td></td><td></td><td></td></tr></tbody></table></script>	

Figure 12-2:	Configure	Teams	User	ID	Attribute
--------------	-----------	-------	------	----	-----------

## **View and Modify User Attributes**

This section describes how to view and modify user attributes.

### > To view and modify user attributes:

 Open the View/Modify User Attributes screen (Users > User Management > View/Modify User Attributes).

Figure 12-3:	View/Modify	User Attributes
--------------	-------------	-----------------

View/Modify User Attributes					
Name	Description	Network Mapping     Select One	\$ •	Modify	Delete
Object_ID	OID	OBJECT_ID			
	20	) v id dd 1 >>>> >1 (1 of 1)			

**2.** to modify a user attribute.

Figure 12-4:	Modify	User	Attribute
--------------	--------	------	-----------

Modify User Attribute	
Attribute Name	OID
Attribute Description	OID
Network Mapping	
Network Mapping Type	OBJECT_ID ~
	SUBMIT CANCEL

- **3.** Configure fields according to the table below.
- 4. Click SUBMIT to apply changes.

Table 12-6:	View/Modify	<b>Attributes</b>
-------------	-------------	-------------------

Field	Description
Name	Unique easily identifiable name to the attribute.
Description	Brief Description of the attribute.
Network Mapping	Indicates whether attribute mapping is required. When selected, the 'Network Mapping Type' drop-down list is displayed.
Network Mapping Type	Indicates the type of network mapping that is required for the user. Choose from one of the following values: TEL_URI SIP_URI IP_ADDRESS TERMINAL_ADDRESS USERNAME EXTENSION TRUNK_ID OBJECT_ID

# Modify a User Password

This section describes how to modify a user password.

#### > To modify a user password:

1. Open the Change Password screen (Users tab > My Settings folder > Modify Password).

Modify Password	
Current Password	
New Password	
Confirm	
	SUBMIT

- 2. [Use the table below as reference]. Enter the current password.
- **3.** Enter the new password.
- 4. Confirm the new password.
- 5. Click SUBMIT to change the password; the system automatically logs off and the user is required to log in with the new password.

#### Figure 12-5: Change Password

Field	Description
Current Password	Current password.
New Password	The password that will replace the current password.
Confirm	Reenter the new password.



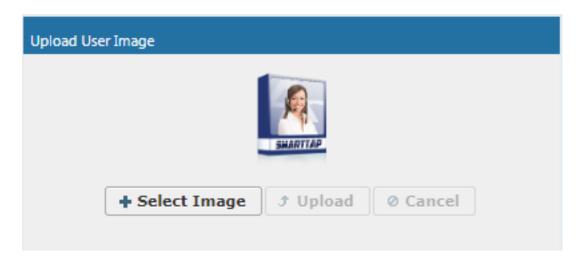
The only method to regain access to the SmartTAP 360° system after a password has been lost is to reset it (users with Add/Modify privileges can reset passwords).

## **Uploading a User Image**

You can upload a user image to display in the passport portrait for the user.

#### > To upload an image:

1. Open the Upload User Image screen (Users tab > My Settings folder > Upload User Image).



- 2. Click + Select Image and select the desired image.
- 3. Click **Upload** to load the user image.

## Set Time and Language

This section describes how to change the regional settings including Timezone and Language Settings for a specific user. These settings apply to data displayed in the Web interface (Calls, Alarms and Audit Trail) and in exported data.

#### > To change the language and timezone:

Open the Change User Settings page (Users tab > User Management folder > Set Time & Language).

User Settings	
Language	EN V
Time Zone	Israel v

- 2. From the Language drop-down list, select the required language.
- 3. From the Time Zone drop-down list, select the required timezone.

# **13** Skype for Business Features

This section describes the following Skype for Business features:

- SmartTAP 360° Skype for Business Toolbar below
- Announcement Server (Skype for Business) on page 100

# **SmartTAP 360° Skype for Business Toolbar**

The SmartTAP 360° Skype for Business Toolbar functions in conjunction with the Skype for Business Conversation Window Extension (CWE) which allows the user to have access to in-call features like 'Save on Demand', 'Call Tagging', etc., without needing to open a browser window to access the SmartTAP 360° GUI separately. The toolbar is by default not enabled and must be installed / configured by AudioCodes, a certified AudioCodes Partner or by your local IT expert.



To learn more about Microsoft Skype for Business CWE, refer to: http://msdn.microsoft.com/en-us/library/office/jj933101(v=office.15).aspx

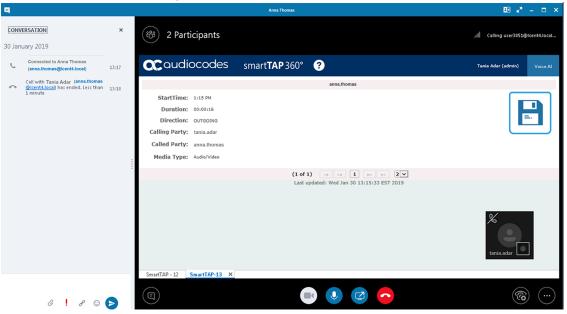
# **Toolbar Features**

- Single Sign-On
- Save on Demand, Record on Demand or Full Time Recording
- Pause / Resume Recording
- Call Tagging

See more information in this document to understand how to use the features above with the CWE window.

Figure 13-1: SmartTAP 360°: Save On Demand (SOD)

Figure 13-2:



#### Figure 13-3: Record on Demand (ROD)

9				Anna Thomas	E 🖉 – 🗆 🗙
CONVERSATION Wednesday, Janu	uary 23, 2019	×	🛞 2 Participants		. <b>11</b> 3:23 (8)*)
	d to Anna Thomas mas@lcent4.local)	9:31 AM	acaudiocodes	smart <b>TAP</b> 360° ?	Tania Adar (admin) Voice Al
Hello	o there			anna.thomas	
Hit			StartTime: 9:31 AM Duration: 00:03:39 Direction: OUTGOING Calling Party: tania.adar Called Party: anna.thomas		() REC
			Media Type: Audio/Video	(1 of 1) 14 c4 1 15 15 2	<b>v</b>
Last message receiv	ved on 1/23/2019 at 9:33	2 AM.		Last updated: Wed Jan 23 09:35:10 EST 20:	19 tania.adar
contrast of the second			SmartTAP ×		
6	9 <b>!</b> 8 ©	Ø		• • • •	<b>(19)</b>

-					-
9				Anna Thomas	⊡ <sub>¥</sub> ª – □ ×
<b>CONVE</b>	sation day, January 23, 2019	×	🛞 2 Participants		<b>, all</b> 3:23 (80 <sup>+</sup> )
ف	Connected to Anna Thomas (anna.thomas@lcent4.local)	9:31 AM	<b>C</b> audiocodes	smart <b>TAP</b> 360° ?	Tania Adar (admin) Voice Al
	Hello there			anna.thomas	
HB			StartTime: 9:31 AM Duration: 00:03:29 Direction: OUTGOING Calling Party: tania.adar Called Party: anna.thomas		• REC
		:	Media Type: Audio/Video		
		:		(1 of 1) 14 <4 1 (2)	
				Last updated: Wed Jan 23 09:35:10 EST 2019	tania.adar
Last mes	sage received on 1/23/2019 at 9:	32 AM.	SmartTAP ×		
	0 <mark>!</mark> 8 @				<b>®</b> )

Figure 13-4: SmartTAP 360° Skype for Business CWE Toolbar (Pause / Resume)

# **Announcement Server (Skype for Business)**

SmartTAP 360° offers Announcement Server (AN) in the Microsoft Skype for Business environment to inform the call parties that their call will be recorded. When the Announcement Server (AN) is deployed, SmartTAP 360° directs inbound, outbound, and internal calls with enabled for recording users (targeted users) to the Announcement Server. The Announcement Server plays the announcement according to the configuration in the Recording Profile (see Managing Recording Profiles on page 40 and Example Announcement Server Scenarios on page 106). For installing and setting up the Announcement server, refer to the <u>SmartTAP</u> *Installation Guide*.

- SmartTAP 360° requires two concurrent audio recording licenses to record both legs of the announcement part of the call. Make sure that the number of the system's concurrent recording licenses is equal to or higher than the number of concurrent announcements multiplied by 2.
  - For Microsoft Teams: For Microsoft Teams recording notifications are provided by Microsoft.

This section includes the following:

- Simple Announcement on the next page
- IVR on the next page
- Example Announcement Server Scenarios on page 106
- Announcement Server Configuration Parameters on page 111

## **Simple Announcement**

SmartTAP 360° can be configured to play announcements to the calling party and if required called parties on a call with a targeted user. The configuration enables setting of announcements to the calling party and if required called parties on a call with a targeted user.

#### > To configure a simple announcement:

1. Create a WMA audio file. You can use the Windows Sound Recorder.

## Figure 13-5: Sound Recorder

🔨 Sound Recorde	r	X
• Start Recording	0:00:00	(?) •

Example: "Thank you for calling Company A, your call may be recorded for quality assurance".

- 2. When done, click Stop Recording and it will prompt for the new file destination.
- Save the fileto the following location: Program Files\AudioCodes\SmartTAP 360°\AN\Config\StateMachineConfig

Ensure that you save the file in WMA format.

🔊 l 💽 🚺 = l	AN			
File Home Sha	re View			Ŷ
🔄 💿 🔹 🕇 <u>)</u> «	Program Files 🔸 AudioCodes 🔸 SmartTAP 🔸	AN 🗸	C Search AN	م
🔆 Favorites	Name	Date modified	Туре	Size
🛄 Desktop	🐌 Config	9/3/2015 3:16 PM	File folder	
鷆 Downloads	🐌 Install_Logs	9/3/2015 3:16 PM	File folder	
📃 Recent places	퉬 License	9/3/2015 3:16 PM	File folder	
퉲 AN	鷆 log	9/8/2015 4:49 PM	File folder	
	퉬 PowerShell	9/3/2015 3:16 PM	File folder	
🜉 This PC	🚳 Announcements.Common.dll	9/3/2015 8:24 AM	Application extens	17 KB
	AnnouncementsApp	9/3/2015 8:24 AM	Application	19 KB
📬 Network	AnnouncementsApp.exe	9/3/2015 7:12 AM	CONFIG File	1 KB
	🚳 AnnouncementsCore.dll	9/3/2015 8:24 AM	Application extens	54 KB
	🚳 NLog.dll	9/3/2015 7:13 AM	Application extens	406 KB
	📄 test123.wma	9/9/2015 3:18 PM	WMA File	89 KB

Figure 13-6: Announcement Server

## **IVR**

SmartTAP 360° supports interactive voice response (IVR) announcements. The IVR menus are configured by default to request recording consent from a call party(s). These menus can be can be customized:

- Text-to-speech support is available in 26 languages (see Enabling Text-to-Speech Platform on page 103)
- Enable Consent to record calls (see Consent to Record Calls on page 103)

For details on configuring IVR files, see Configuring IVR Script Files below. Once configured, the IVR files can be loaded to the user's Recording Profile (see Managing Recording Profiles on page 40).

#### **Configuring IVR Script Files**

The IVR files are located as follows:

- The prompt media files are located under ...\Program Files\AudioCodes\SmartTAP 360°\AN\Languages. USA English media files are under en-us folder.
- The IVR state machines are located under Program Files\AudioCodes\SmartTAP 360°\AN\Config\StateMachineConfig



IVR scripts files must be saved in JSON format to the StateMachineConfig file in order to be configured in the Recording Profile (see Managing Recording Profiles on page 40).

The IVR sample state machines are located under Program Files\AudioCodes\SmartTAP 360°\AN\Config\Repo

Name	Date modified	Туре	Size
鷆 Config	9/7/2016 3:04 PM	File folder	
퉬 Languages	9/7/2016 3:04 PM	File folder	
퉬 MusicOnHold	9/7/2016 3:04 PM	File folder	
퉬 PowerShell	9/7/2016 3:04 PM	File folder	
鷆 Repo	9/7/2016 3:04 PM	File folder	
StateMachineConfig	9/7/2016 3:04 PM	File folder	

The AN state machine can be fine-tuned according to requirements in the state machine file. The following shows example IVR file :

Figure 13-7: Example IVR Script File

5	•
"Stype": "AnnouncementsCore.AnnTree.AnnStateMachine, AnnouncementsCore",	<pre>{     "\$type": "AnnouncementsCore.AnnTree.AnnMenuNode, AnnouncementsCore",     "PromptName": "ivr.wma",</pre>
DefaultLanguage": "en-us",	"AcceptDtmf": (
AnnNodes": [	"\$type": "AnnouncementsCore.AnnTreeModel.DtmfAndOutput, AnnouncementsCore",
	"Dtmf": "1", "NextId": "3"
"\$type": "AnnouncementsCore.AnnTree.AnnLanguageNode, AnnouncementsCore",	"Nextld": "3"
"PromptName": "chooseLanguage.wma",	"DeclineDtmf": {
"Languages": [	"\$type": "AnnouncementsCore.AnnTreeModel.DtmfAndOutput, AnnouncementsCore",
-paulonades [	"Dtmf": "0",
	"NextId": "4"
"\$type": "AnnouncementsCore.AnnTreeModel.LanguageDtmf, AnnouncementsCore",	"ToneHandlerConfig": {
"Dtmf": "1",	"\$type": "AnnouncementsCore.AnnTreeModel.ToneHandlerConfig, AnnouncementsCore
"Language": "en-us",	"MaxAttempts": 3,
"NextId": "2"	"WaitTimeDtmfSec": 5,
),	"StartRecognizeAfterPromptDtmf": false
	), "Id": "2",
"Stype": "AnnouncementsCore.AnnTreeModel.LanguageDtmf, AnnouncementsCore",	"NextId": "3",
"Dtmf": "2",	"ErrorNextId": "5",
"Language": "ru-ru",	"IsFirst": false
"NextId": "2"	
-Rectur: -2-	<pre>{     "Stype": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",</pre>
	"FromptName": "AcceptResultPrompt.wma",
	"Id": "3",
"ToneHandlerConfig": {	"NextId": null,
"\$type": "AnnouncementsCore.AnnTreeModel.ToneHandlerConfig, AnnouncementsCore",	"ErrorNextId": null,
"MaxAttempts": 5,	"IsFirst": false
"WaitTimeDtmfSec": 5,	
"StartRecognizeAfterPromptDtmf": false	"\$type": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",
	"PromptName": "DeclineResultPrompt.wma",
"Id": "1",	"Id": "4",
"NextId": "2".	"NextId": null, "ErrorNextId": null.
"ErrorNextId": "5",	"LFFORMEXTIG": HULL,
"IsFirst": true	),
"Istist": Crue	(
17	"\$type": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",
	"PromptName": "errorPrompt.wma", "Id": "5",
	"NextId": null.
	"ErrorNextId": null,
	"IsFirst": false
	)

#### **Enabling Text-to-Speech Platform**

The actual consent to record announcements can be played from a text-to-speech (TTS) file or from a recorded audio file. This section describes how to setup to use the TTS method.

- > To enable text-to-speech platform:
- 1. Download and install Microsoft Speech Platform Runtime (Version 11) from here:

https://www.microsoft.com/en-us/download/details.aspx?id=27225

 After you have the platform installed, now you need to download and install TTS languages which you want to support in yours AN application. Microsoft Speech Platform - Runtime Languages (Version 11)

https://www.microsoft.com/en-us/download/details.aspx?id=27224

The link above is for download the whole TTS (text to speech) and SR (speech recognition) files.

 After you download it, you need to install each relevant file you want according to language. For example, if you want to support text to speech for Russian then install the file MSSpeech\_TTS\_ru-RU\_Elena.msi.

For English, install MSSpeech\_TTS\_en-US\_Helen.msi or MSSpeech\_TTS\_en-US\_ZiraPro.msi.



- It is not recommended to install Speech Recognition (SR) files because currently AN doesn't support speech recognition. This feature may be supported in the future. If you install SR files they will not be used and AN behavior is not affected.
- Install platform and language from the same Version 11. A combination of Versions 10 and 11 is invalid.
- 4. To enable TTS copy over and if required modify state machine(s) from the folder ending with tts in ...\Program Files\AudioCodes\SmartTAP 360°\AN\Repo to the Program Files\AudioCodes\SmartTAP 360°\AN\StateMachineConfig folder.

#### **Consent to Record Calls**

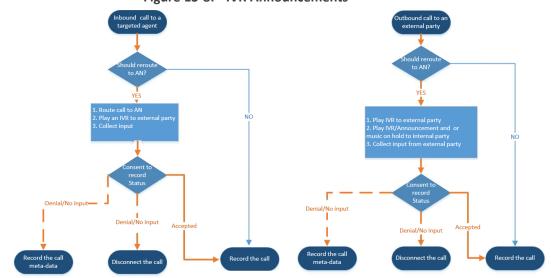
SmartTAP 360° supports interactive voice response (IVR) announcements requesting consent from the call party to record the conversation of the call. If the call party does not consent, the conversation is not recorded. Below is an example of a call consent prompt:

"This call may be recorded for quality assurance purposes. Press one to accept or press zero to continue without recording."



The Demo IVR files provided by SmartTAP 360°, by default, disable call consent.

The following figure illustrates the Call Consent process for Inbound and Outbound calls:



Consent result and action are displayed as part of call record meta-data as shown below:

## Figure 13-9: Consent Accepted

User/Device	٥	Started	\$ Duration 🗘	Direction Select V	Release Cause 🗘 Select 🔻
adar, tania(tania adar)		Jun 2, 2016 2:38:14 PM	00:00:07	INCOMING	NORMAL
Answer Time: Jun 2, 2016 2 Release Time: Jun 2, 2016 2 Calling Party Digits: 73265221 Consent A Called Party Digits: 3041 Answering Party Digits: user3041 Recording Type: FULL_TIME Trigger Time: Expires: Jun 2, 2017	::38:21 P 82				
adar, tania(tania adar)		Jun 2, 2016 2:38:03 PM	00:00:14	INCOMING	NORMAL
Answer Time: Jun 2, 2016 2 Release Time: Jun 2, 2016 2 Calling Party Digits: 73265221 Consent A Called Party Digits: 3041 Answering Party Digits: announcer Recording Type: FULL_TIME Trigger Time: Expires: Jun 2, 2017	::38:17 P 82 accepted				

	User/Device	Started	٥	Duration 🗘	Direction Select V	Release Cause 🗘 🗘
	adar, tania(tania adar)	Jun 2, 2016 2:41:57 PM		00:00:08	INCOMING	NORMAL
	Answer Time: Jun 2, 2016 2:42:0 Release Time: Jun 2, 2016 2:42:0 Calling Party Digits: 7326522182 Consent Decline Called Party Digits: 3041 Answering Party Digits: user3041 Recording Type: FULL_TIME Trigger Time: Exprise: Jun 2, 2017					
⊟	adar, tania(tania adar)	Jun 2, 2016 2:41:46 PM		00:00:15	INCOMING	NORMAL
	Answer Time: Jun 2, 2016 2:41:4 Release Time: Jun 2, 2016 2:42:0 Calling Party Digits: 7326522182 Consent Decline Called Party Digits: 3041 Answering Party Digits: announcements Recording Type: FULL_TIME Trigger Time: Expires: Jun 2, 2017	1 PM				

Figure 13-10: Consent Declined

Search calls based on the consent as shown below:

Figure 13-11: Call Parties

System	Users	Status						
Calls	Calls Evaluation							
From:         05/20/2016         8         ▼         05         ▼         AM         ▼           To:         05/20/2016         10         ▼         05         ▼         AM         ▼								
Active Dev	rs 📃 Inactiv ices 🗌 Inactiv vices 🔵 Gro	e Devices						
Users/Devic Adar, Tania	es:							
Admin, Local		Â						
Campos, Jos								
Carosella, Gi	no							
Conlon, Tom Da Silva, Sar	adv							
DCI	idy.							
Dougher, Mic	hael							
Dutta, Debajy								
Herberger, St	even	-						
Call Parties:								
Calling								
	t Declined*							
Called								
Answered								
Call Tags:								
Active Tags Inactive Tags								
Tag Name Tag Value								
Select One								
Search								
Search								

## **Example Announcement Server Scenarios**

This section describes the following example scenarios for assigning Media files and IVR script files for the Announcement server using the Recording Profile (:

- PSTN and Federated Calls below
- All Inbound Calls on the next page

#### **PSTN and Federated Calls**

The figure below shows the attaching of announcement audio files for Federated and PSTN calls. An IVR file is configured to play to the Calling party for Inbound PSTN and Federated calls. Likewise, an ANN file is configured to play to the Answering party for Outbound PSTN and Federated calls.

#### Figure 13-12: PSTN and Federated Calls

- Call type Applicable for MSFT Teams,	e for Business and Lync A/V Recording					
Internal	Incoming Outgoing					
PSTN	🗹 Inbound 🗹 Outbound					
Federated	✓ Inbound ✓ Outbound					
✓ Calls with Intern	nferences					
Teams Queue Calls (conference mode) * * Applicable for MSFT Teams only						
Applicable for Skype for Bu						
Filter Calls User Receiv	List Type : Block  Numbers: Regular Expression:	1				
Filter Calls User Makes	List Type : Block  Numbers: Regular Expression:	j				
Announcements Applicable for Skype for Bu Call type	and Lync A/V Recording. Announcement Server is required to be installed					
Internal Inco	g ANN ✔ □ Play to calling party File name □ Play to answering party File name					
Out	a ANN ✔					
PSTN 🗹 Inb						
🗹 Out		nf				
Federated 🗹 Inb						
🗹 Out	d ANN 🗸 🗌 Play to calling party File name 🗹 Play to answering party Federated_Outbound	d.wi				
Record Announcement						
Don't Play Announcement Destination Numbers : 911						
Block Calls on Anno	ments Unavailablity					

## **All Inbound Calls**

The figure below shows the configuration of announcement audio files for Incoming Internal calls and Inbound PSTN and Federated calls. An ANN file is configured to play to the Calling party for Incoming Internal calls and for Inbound Federated calls. Likewise, an IVR file is configured to play to the Answering party for Inbound PSTN calls.

Figure 13-13: Incoming Calls

-Call								
Recording Typ	e Full Time		~					
Video								
Desktop 5	Sharing							
Pause or I								
-Call type								
Applicable for MS	FT Teams, Skype fo	or Business an	d Lync A/V Re	ecording				
Internal		Incoming		Outgoi	ng			
PSTN		Inbound		Outbou	ind			
Federated		Inbound		Outbou	ind			
🗹 Calls wi	th Internal Conf	erences						
Teams	Queue Calls (con	ference mo	de) *					
	or MSFT Teams only							
Applicable for Sk	ype for Business an	d Lync A/V Re	cording					
Referred b	y Response Gro	un						
	,	- P						
Filter Calls Use	er Receives :	List Type :	Block 🗸	Numbers:			Regular Expression:	
Filter Calls Use	ar Makes +	List Type :		Numbers:		_	Regular Expression:	
Filter Calls Use	er makes .	List Type :	JIUCK +	Numbers:			Regular Expression:	
-Announcement	s							
Applicable for Sk	ype for Business an	d Lync A/V Re	cording. Anno	uncement Server	is required to be installed			
Call type								
Internal	🗹 Incoming	ANN 🗸	🗹 Play t	o calling party	ANN_Incoming.wma		Play to answering party	File name
	Outgoing	ANN 🗸	🗌 Play t	o calling party	File name		Play to answering party	File name
PSTN	🗹 Inbound	IVR 🗸	🗌 Play t	o calling party	File name	<b>~</b>	Play to answering party	PSTN_IVR_Outbound
	Outbound	ANN 🗸	🗌 Play t	o calling party	File name	~	Play to answering party	File name
Federated	🗹 Inbound	IVR 🗸	🗹 Play t	o calling party	ANN_Federated.wma		Play to answering party	File name
	Outbound	ANN 🗸	Play t	o calling party	File name	$\checkmark$	Play to answering party	File name
-								
Record An	nouncement							
Don't Play Ann	ouncement Des	tination Nun	nbers : 91	1				
Block Calls	on Announcem	ents Unavai	lablity					

#### **Announcement Server Advanced Call Scenarios**

- Advanced Call Scenarios: Targeted for recording users may participate in advanced call scenarios such as call transfer, call forwarding and conferencing. This section describes whether the configured announcement function is triggered in these advanced call scenarios. The triggering of the announcement in the advanced scenarios doesn't depend on the ANN configuration except for the parameters that are mentioned in this section and therefore the configuration is not defined below.
- **Call Transfers:** The following table defines call transfer scenarios and the announcements generation. For all of the scenarios, A calls B, B answers the call, B puts A on hold, B calls to C (this doesn't take place in blind transfer scenario) and B transfers A to C.

Call Scenario	Targeted Users	Flow and expected results from Announcement Server*
Supervised/blind transfer	A	<b>1.</b> A calls B, B answers: announcement is played.

	Table	13-1:	Call	Transfer	<b>Scenarios</b>
--	-------	-------	------	----------	------------------

Call Scenario	Targeted Users	Flow and expected results from Announcement Server*
		2. B places A on hold and calls C, C answers: no announcement is played.
		<ol> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play).</li> </ol>
Supervised/blind	В	<b>1.</b> A calls B, B answers: announcement is played
transfer		<ol> <li>B places A on hold and calls C, C answers: announcement is played</li> </ol>
		<ol> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play)</li> </ol>
Supervised/blind	С	<b>1.</b> A calls B, B answers: no announcement is played.
transfer		2. B places A on hold and calls C, C answers: announcement is played.
		<b>3.</b> A is connected to C: announcement is played.
Supervised/blind	A + B	1. A calls B, B answers: announcement played
transfer		2. B places A on hold and calls C, C answers: announcement played
		3. A is connected to C: no announcement is played (set AllowMultipleAnnSameUser to true to play)
Supervised/blind	A + C	<b>1.</b> A calls B, B answers: announcement is played
transfer		2. B places A on hold and calls C, C answers: announcement is played
		<ol> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play)</li> </ol>
Supervised/blind	B + C	1. A calls B, B answers: announcement is played
transfer		2. B places A on hold and calls C, C answers: announcement is played
		3. A connected to C: no announcement is played (set AllowMultipleAnnSameUser to true to play)
Supervised transfer	A + B + C	1. A calls B, B answers: announcement is played
		2. B places A on hold and calls C, C answers: announcement is played

Call Scenario	Targeted Users	Flow and expected results from Announcement Server*
		3. A and C are in a conversation: no announcement (set AllowMultipleAnnSameUser to true to play)

\*The second line is not applicable for each of the above scenarios in case of Blind Transfer

## Call Forward and Simultaneously Ring

The following table defines playing announcements when a call to an internal user is answered by another user/number/group on behalf of the originally called user.

Call Scenario	Targeted Users	Flow and expected results from ANN
forward/team call	A	A calls B, C answers: announcement is played
forward/team call	В	A calls B, C answers:announcement is played
forward/team call	С	A calls B, C answers: announcement is played
forward/team call	A + B	A calls B, C answers: announcement is played
forward/team call	A + C	A calls B, C answers: announcement is played
forward/team call	B + C	A calls B, C answers: announcement is played
forward/team call	A + B + C	A calls B, C answers: announcement is played

Table 13-2: Call Forwarding and Simultaneous Ringing

- Conferences: Playing announcements on the calls of targeted users with a conference bridge are not currently supported.with SmartTAP 360° team the feature status if you need it.
- Video calls: Video calls routed to the ANN are handled as audio-only calls, the video part of the call is stripped. Once the call is transferred to the original destination the video of the call can be re-initiated.
- Mobile Clients and Voice Mail: Announcements are played for calls with mobile clients as defined in previous sections with an exception to the following scenarios:
- The AN is configured to play an announcement to the calling party only mode (AnnouncementRecipients=CallingParty). The mobile client calls to another party where the mobile client, another party or both are targeted users. In this scenario, the announcement is not played.
- The AN is configured to play an announcement to both parties mode (AnnouncementRecipients=BothParty). The mobile client calls to another party where the mobile client, another party or both are targeted users. The call is answered by voice mail. In this scenario, the announcement is not played.

The AN is configured to play an announcement to both parties mode (AnnouncementRecipients=BothParty). The mobile client calls to another Skype For Business party (not including voice mail), the announcement is played and when completed, the call is disconnected. A new call is automatically created by the other party to the mobile client that needs to answer to connect the call.

# **Announcement Server Configuration Parameters**

The table below describes the configuration parameters that can be configured in the System.config file.

Parameter	Description
appEndpointDiscoveryName	Defines the value of Skype for Business trusted application endpoint that will be used by this application. The default value is "AnnouncementsApp".
userAgent	Defines theApplication User agent. The default value is " AnnouncementsApp".
inviteDest	If the value is not empty, the application calls to this destination and ignores the To header of incoming INVITE. The default value is "".
bufferSize	Defines buffer size of transferring data between calls. The default value is "60".
supervisedTransferHeaderName	Defines the header name of supervised transfer INVITE that should be returned by the FE to the application. The default value is "X-Announcements-Supervised- Transfer".
supervisedTransferHeaderValue	Defines the header value of supervised transfer invite that should be returned by FE to the application. The default value is "\$1MsplApp".
outCallPassThroughHeaderNames	Defines the headers to pass from in call to out call. The default value is "Ms-Exchange- Command;HISTORY- INFO"e.g.,"headerNameA;headerNameB;headerNam eC".

Table 13	3-3: S	/stem.co	onfig File
----------	--------	----------	------------

Parameter	Description
diagnosticsHeaderName	Defines the diagnostics header name. The default value is X-Announcements-DIAGNOSTICS.
maxEndpointDiscoveryMiliSeconds	Defines the maximum time in milliseconds to wait for first application endpoint discovery. The application exits if no endpoints are discovered within this time. The default value is 30000.
maxPlayPromptsMiliSeconds	Defines the maximum time in milliseconds to play prompts. The default value is 1800000.
nlogNetworkLayout	<ul> <li>Defines the Nlog network layout. The default value is:</li> <li>\${longdate} \${level} \${message}</li> <li>\${exception:format=Message}\${newline}</li> </ul>
referredByAddedParamName	This parameter name is added to the SIP 'Referred- By' header. The default value is " X- Announcements".
referredByAddedParamValue	This parameter value is added to the SIP 'Referred- By' header. The default value is " AnnouncementsApp".
transferType	<ul> <li>Defines the Transfer Type.</li> <li>Valid Values:</li> <li>Attended - Perform attended transfers.</li> <li>Unattended - Performs unattended transfers.</li> </ul>
webServiceBaseUrl	Describes the listening URL of the Announcement server's Web service Rest API.
enableMoh	Sets true to enable Music on Hold. Possible values: True (default) False
mohFileName	Defines the Music on Hold file name. The file must be located in the project directory tree inside theMusicOnHold directory. The default value is "

Parameter	Description
	music-default.wma".
ivrResultParamName	Defines the parameter name that will be added in the referred-By header. The default value is "X- AnnIvrResult".
ivrCleanerSec	Clean stale calls IVR container every period of time in seconds. The default value is 1800.
impersonateInCall	If true, in call will be impersonated, i.e. for the P- Asserted header of 200 OK, the value in the header will not be Announcement user/ID?? and instead the original destination user. Possible values: True
	False (default)
uaReceiveReferRegex	If UserAgent matches the regular expression then the SIP REFER is sent to this device. Solves a problem with the Polycom 500VVX phone where AN should send the SIP REFER to the phone when rerouting the call to the original destination. Default value: "PolycomVVX-VVX_500"
asList	Application server comma-separated list. AN sends alarms to the AS in the list. For example <u>http://10.21.8.120:80,https://10.21.80.170:443</u>
restClientTimeoutMiliseconds	Alarms timeout in milliseconds. Default Value: 5000
normalizeNumbers	<ul> <li>The parameter should be set to true when normalization of called numbers in the Announcement server is required. AN will normalize the called number before rerouting the call to the original destination.</li> <li>Possible values:</li> <li>True</li> <li>False (default)</li> </ul>

Parameter	Description
managed Device Heart beat Interval Ms	Interval in milliseconds between each heartbeat request to AS. Valid range [1000 - max int] Default Value: 30000
disableAlarms	Disables the alarms mechanism. Possible values: True (disable) False (default)
uaDontReceiveReferRegex	A regular expression (case insensitive). If the value of the UserAgent header matches the expression then the SIP REFER is not sent to that device when rerouting the call to the original destination. This solves the problem for Skype for Business clients when answering '488 not acceptable' on reception of SIP INVITE with replaces from the mobile clients. Default Value: "ucwa"
noAttentedTransferSupportRegex	A regular expression (case insensitive). When one of the devices in the call to AN doesn't support the Attended Transfer, AN will execute the UnAttended transfer. Mobile clients (S4B) and voice mail don't support Attended Transfers. Default Value: "ucwa"
redirectIfReferNotSupported	<ul> <li>When the caller doesn't support REFER, AN may redirect the caller without playing AN (true) or disconnect the call (false). For BothParties mode, redirect the caller if both sides don't support the REFER (true), or disconnect the calls (false).</li> <li>Possible values:</li> <li>True (default) –AN redirects the caller</li> <li>False – AN disconnects the call</li> </ul>
voicemailRegex	A regular expression (case insensitive). The parameters are used to identify voice mail as a participant of the call routed through the AN according to 'user-agent' and 'server' headers. Default Value: "Exchange"
dontPlayAnnRegex	A regular expression (case insensitive). The

Parameter	Description
	parameters are used to identify conference as a participant of the call routed through the AN according to 'user-agent' and 'server' headers. Default Value: "AV-MCU"
is Play Ann If Answered By Voice mail	<ul> <li>The announcement is not played to the caller when the callrouted through AN is answered by the voice mail.</li> <li>Possible values:</li> <li>True</li> <li>False (default)</li> </ul>

For AN Server installation instructions, refer to the *SmartTAP Installation Guide*.

# 14 Managing Calls

This section shows how to manage calls. They're managed under the Calls tab in the Search Calls Navigation screen, shown and described below. The figure below shows retrieved Microsoft Teams calls, all successfully recorded.

Calls • Ca		02 AM and 5/30/21 11:02 AM							
+	]								
	Name 0	Start Time 🗘	Duration 🗘	Direction O Select V	Calling Party	Called Party	Release Cause Select	Media Type Select V	Media Status 🗘
0	ST-Teams11	May 29, 2021 3:23:00 PM	00:02:29	INCOMING	CONFERENCE	ST-Teams11	NORMAL		<b>Ø</b>
0	ST-Teams11	May 29, 2021 3:23:00 PM	00:02:29	INCOMING	CONFERENCE	ST-Teams11	NORMAL		<ul> <li>Image: A set of the set of the</li></ul>
0	ST-Teams11	May 29, 2021 3:23:00 PM		INCOMING	CONFERENCE	ST-Teams11			<ul> <li>Image: A set of the set of the</li></ul>
0	ST-Teams11	May 29, 2021 3:23:00 PM	00:02:29	INCOMING	CONFERENCE	ST-Teams11	NORMAL		<b>Ø</b>
0	ST-Teams14	May 27, 2021 4:13:12 PM	00:02:58	INCOMING	CONFERENCE-ST-Teams13@smarttap.onmicrosoft.com	ST-Teams14	NORMAL		
0	ST-Teams13	May 27, 2021 4:13:10 PM	00:03:01	INCOMING	CONFERENCE-ST-Teams14@smarttap.onmicrosoft.com	ST-Teams13	NORMAL		
0	ST-Teams12	May 27, 2021 4:13:07 PM	00:03:04	INCOMING	CONFERENCE-ST-Teams14@smarttap.onmicrosoft.com	ST-Teams12	NORMAL		<b>Ø</b>
0	ST-Teams11	May 27, 2021 4:12:58 PM	00:03:13	INCOMING	CONFERENCE-ST-Teams14@smarttap.onmicrosoft.com	ST-Teams11	NORMAL		<b>Ø</b>
0	ST-Teams14	May 27, 2021 4:12:48 PM	00:02:56	INCOMING	CONFERENCE-ST-Teams13@smarttap.onmicrosoft.com	ST-Teams14	NORMAL		<ul> <li>Image: A set of the set of the</li></ul>
0	ST-Teams13	May 27, 2021 4:12:42 PM		INCOMING	CONFERENCE	ST-Teams13			<b>Ø</b>
					10 V H << 1 2 3 4 5 PP PH ( Total calls: 5786	(1 of 579)			
Selec	ct a call								00:00:00   00:00:00
_		0.00		0.00	0.00	0.00		0.00	
0.2	1.0	5.0			€ (►)			- 14	

## Figure 14-1: Call Search

System	Users	Status					
Calls	Messages	Evaluation	<				
• Search C	riteria						
Custom Date:	s v 1						
From: 6/19 To: 6/19			_				
Answered							
Call Tags: Active Tag Tag Name Select One Analytics C Paperless Can	Tag ategories: npaign	ve Tags Value					
Extended Con Category_I Category_1 Category_2	ueca ,	Ŧ					
SysCall ID:							
	entiment: ositive % > gative % >	• •					
		S	arch				
<ul> <li>Saved Se</li> </ul>	arches						
No records		(1 of 1)					

Figure 14-2: Search Calls Navigation Screen - Calls Tab

Field	Description
From:	Earliest date and time to search from. Click the date field for a calendar

Field	Description
	to pop up showing one month at a time.From the dropdown, change the time of day. Note: When searching for calls within a time range, only calls that start within the range are returned in the search results.
То:	Latest date and time upon which to search. Click the date field for a calendar to pop up showing one month at a time. From the drop-down, change the time of day.
Active Users	Users whose accounts are enabled in the SmartTAP 360° system.
Inactive Users	Users whose accounts have been deleted from the SmartTAP 360° system.
Active Devices	Devices that are not associated with users enabled in the SmartTAP 360° system and can be targeted for recording.
Inactive Devices	Devices that have been deleted from the SmartTAP 360° system.
Users/Devices	Only Users and Devices will be listed in the search list. Either the Users/Devices or the Groups option must be selected.
Groups	Only Groups will be listed in the search list. Either the Users/Devices or the Groups option must be selected.
User/Devices: (list)	To select multiple Users/Devices, select each Users/Devices while holding <ctrl>; or all within a range by clicking top User/Device and bottom User/Device while holding <shift>.</shift></ctrl>
Call Parties: Calling Called	Enhance the search by specifying the Calling (Caller ID), Called and/or Answering party. Use a wild card to broaden the search Example
Answered	*732* will return all calls with 732 anywhere in the number
	<ul><li>732* will return all calls that start with 732</li><li>*Bill will return all calls with a user participant with a name that contains the word 'Bill'.</li></ul>
Call Tags	Select one or more Tags and provide a value to enhance search.
Analytics Categories	To select multiple categories, select each category name while holding <ctrl>; or all within a range by clicking the top category and bottom category while holding <shift>.</shift></ctrl>
SysCall ID	Filter by SysCall ID
Analytics	Select whether the positive analytical sentiment must be greater or

Field	Description
Sentiment	less than a specified percent. Alternatively, select whether the negative analytical sentiment must be greater or less than a specified percent.
Saved Searches	You can save search criteria as a query and then later retrieve it.
Search	Click to search and display results.

# **Searching for Calls**

This section shows how to search for calls.

The search fields' logical operations are:

- Selected Users/Devices or Users/Devices within selected Groups
- AND
- Call Parties
- AND
- Call Tags

where Call Parties Calling, Called, Answered are logically ORed and Call Tags (Call Tag1 ... Call TagN) are logically ORed.

To delete calls, select the button adjacent to each call that you wish to delete. The button becomes red . For more information, see Deleting Calls and Instant Messages on page 137.

Table 14-1: Search Calls Results

Field	Description	
	Launches the Add and Remove Columns dialog.	
A	No Media – Indicates that there are no media files associated with the call; however, the call was answered.	
	No License - Indicates that the media cannot record as a result of no licenses being available.	
	No Packets - Indicates that no packets are received for media recording on one or both sides of the call.	
A	Silent Media – Indicates when media files associated with the call are silent; the packets were received however didn't carry audio.	

Field	Description	
	None – There are no reasons.	
	Indicates that a tag has been associated with a recording.	
	Indicates that no tags are associated with a recording	
	Deletion	
	Pending Deletion	
Analytics Profile	Indicates the Analytics profile that has been assigned to the user.	
Analytics Status	Indicates the Analytics status:	
	Not Assigned: An Analytics profile is not assigned for this user.	
	No License: The number of Analytics license hours has reached its limit.	
	No Transcription: No transcription was generated for this user. This may occur if the media file was not yet transferred to the media storage location.	
	In Progress: The transcription generation is in progress.	
	Analytics Error: An error occurred in the generation of the transcript.	
	<b>Exists:</b> The transcript has been successfully generated; click the entry to view the transcript.	
	Deleted: The transcript has been deleted.	
Conference ID	Indicates the Skype For Business Conference ID. This ID identifies the conference to which the call was connected. It can be used to correlate between audio/video and content sharing calls made by a user from a SFB client.	
Conversation ID	Indicates the Skype For Business Conversation ID. This ID can be used to correlate between audio/video and content sharing calls made by a user from SFB client as part of one conversation.	

Field	Description	
Direction	The column represents Call Direction (Incoming, Outgoing). Clicking this header sorts the search results in Ascending/Descending order alternating with each click. Drop down entry shows only the matching results.	
Display Video	Displays the video screen. When you select the button, the recorded video is replayed.	
Duration	Call Duration. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.	
Expires Calls	Call recording expiration date. The date after which the call recording is purged. The date is calculated based on the retention profile assigned to the call. If the call was put on legal hold or evaluated, the expiration date is presented along with a lock icon. The Expires field has a value only when during the call the associated user had retention policy assigned to it and the period of the policy was set to a larger than 0 value (0 is default implying that calls should never expire).	
Media Status Reason	Corresponding Media Reason	
Media Type	Indicates the media type. One of the following values:	
	Audio: The Speaker icon is displayed in this column for a recorded audio call. No icon is displayed for a non-answered call.	
	Video: The Video icon is displayed in this column for a recorded video call. No icon is displayed for a non- answered call.	
	Skype for Business or Microsoft Teams Desktop Application (Video and Screen Sharing): The Video and Screen Sharing call icon is displayed. No icon is displayed for a non-answered call.	
	Indicates that the call audio has been successfully recorded.	

Field	Description
	<ul> <li>Indicates that the call video has been successfully recorded.</li> <li>Indicates that the Video and Screen Sharing has been successfully recorded.</li> <li>None</li> </ul>
None	None - Indicated when there are no media files and the call was not answered i.e. Abandoned or Missed.
Notes	There are no notes associated with this call. There are notes associated with this call. Notes are displayed adjacent to the Player screen as highlighted in the figure above with the note example "Executive Call".
Release Calls Details	Release Cause of the Original Call. Applicable to Skype For Business. Example: "Call failed to establish due to a media connectivity;22 "Action initiated by user";51004;.
Release Cause	Release cause for the call. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.Dropdown entry shows only the matching results.
Start Time	Date and time the call recording started. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.
SysCall ID	Indicates the Original Call ID. Applicable to Skype For Business and other SIP-related integrations. This ID can be used to correlate call records to the original calls.
Tags	Identifies whether tag have been defined for the call as follows
User/Device	User/Device name. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.

## > To filter search results:

- Click a column heading to sort A-Z or Z-A.
- To apply additional filters, type into the text box below the column heading where applicable.
- Use a \* wild card to enhance the filter.
- Filter 'abc' will search the field for any string that starts with 'abc'.
- Filter '\*abc' will search the field for any position within the string to match 'abc'.

> To add/remove columns from the Search Call Results:

#### Figure 14-3: Add/Remove Columns from the Search Call Results Screen

Available Columns     Selected Columns       Answer Time Release Time Calling Party     >>       Called Party     >>	×
Release Time     Start Time       Calling Party     >	
Answering Party Dialed Digits	
Update Cancel	,

## Table 14-2: Add and Remove Columns – Field Descriptions

Field	Description
Available Columns	List of columns that can be added to the search results table.
Selected Columns	List of columns that will be displayed in the search results table.
>>	Moves all items from the Available Columns list to the Selected Columns list.
>	Moves the selected item(s) from the Available Columns list to the Selected Columns list, effectively adding the column to the search results table.
<	Moves the selected item(s) from the Selected Columns list to the Available Columns list, effectively removing the column from the search results table.
<<	Moves all items from the Selected Columns list to the Available Columns list, effectively removing all columns from the search results table.
Update	Applies changes and closes the screen.
Cancel	Cancels changes and closes the screen.

## > To add/remove columns from the Search Call Results:

- 1. Click the button in the 'Search Calls' results screen to open the 'Add and Remove Columns' dialog.
- **2.** Move the Columns to display to the 'Select Columns' side of the screen. Use the table below as reference.
- 3. Click **Update** to apply the changes and close the screen.

Field	Description
User / Device	Targeted User or Device.
Start Time	Initial off-hook or offering of the call.
Answer Time	The time at which the call was answered.
Release Time	The time at which the call was disconnected.
Trigger Time	The time at which the user manually initiated Record or Save on Demand.
Duration	Total duration of the call, from the Start Time to the Release Time.
Calling Party	The call initiator.
Called Party	The intended recipient of the call.
Answering Party	The party who ultimately answered the call.
Dialed Digits	Any dialed digits to set up the call (only required for PSTN gateway calls).
Direction	Inbound or Outbound.

#### Table 14-3: Add and Remove Columns

Field	Description	
Release Cause	Normal	Answered call.
	Missed	Incoming call to targeted user that wasn't answered.
	Abandoned	Outgoing call from targeted user that wasn't completed.
	Conferenced *	Indicates the call leg was released as a result of the call being elevated to a conference call.
	Transferred *	Indicates the call leg was released as a result of being transferred.
Recording Type	Full Time	
	Record on Demand	
	Save on Demand	
Expires	Call recording expiration date. The date after which the call recording is purged. The date is calculated based on the retention profile assigned to the call. If the call was put on legal hold or evaluated, the expiration date is presented along with a lock icon.	
System Call ID	Indicates the Original Call ID. Applicable to Skype For Business and other SIP-related integrations. This ID can be used to correlate call records to the original calls.	
Conversation ID	Indicates the Skype For Business Conversation ID. This ID can be used to correlate between audio/video and content sharing calls made by a user from SFB client as part of one conversation.	
Conference ID	Indicates the Skype For Business Conference ID. This ID identifies the conference to which the call was connected. It can be used to correlate between audio/video and content sharing calls made by a user from a Skype for Business client.	
Media Status Reason	Corresponding Media Reason.	
Tags	Identifies whether a tag has been as	ssigned to the call record.
Release Calls Details	Release Cause of the Original Call. Applicable to Skype For Business. Example: '51004; reason=""Action initiated by user";51004.	

Field	Description	
Analytics Status	Indicates the status of the Analytics license as described above in table "Search Call Results".	
Analytics Profile	Indicates the Analytics profile that has been assigned to the user.	

## **Search by Date**

This section describes how to search for calls by date.

#### To search for calls by date:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. In the Search Criteria pane, from the Drop-down list, select one of the following search criteria:
  - Last Hours
  - Last Days
  - Last Weeks
  - Custom Dates (enables youto customize the day and time range using the calendar)

▼ Sea	rch Criteria									
Last Da	Last Days V 2									
From: To:	11/24/19 7 ∨ 07 ∨ PM ∨ 11/26/19 7 ∨ 07 ∨ PM ∨									
Acti	ve Users Inactive Users ve Devices Inactive Devices ers/Devices O Groups									
-	/Devices: ect All									
John	Smith									
shirel	М									
-	◄ << ▷> ► (1 of 1)									

**3.** If you selected Last Hours, Last Days or Last Weeks, use the arrow keys adjacent to the selected option to toggle to the desired value. If you selected Custom Dates, set the desired

time and date range using the calendar. The figure below shows a calendar search from November 24, 2019 at 06:00 am to November 26 at 12:00 am.

-	
• Sear	ch Criteria
Custom	Dates 🗸 🛓
From: To:	11/24/19 6 v 00 v PM v 11/26/19 12 v 00 v PM v
Activ	ve Users Inactive Users ve Devices Inactive Devices ers/Devices Groups <b>Devices:</b> ct All
John S	Smith
shirel	Μ
14	<ul> <li>&lt;</li> <li>&gt;&gt;</li> <li>&gt;&gt;</li> <li>&gt;&gt;</li> <li>(1 of 1)</li> </ul>

4. Click Search.

## **Searching by Users and Devices**

This section describes how to search by different Calling Parties.

#### > To search by different calling parties:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. In the Search Criteria pane, from the Drop-down list, select one of the following search criteria:
  - Select the type of Users and Devices.
  - Select either the Users/Devices or Groups Radio button.
  - Selecting the User/Devices option changes the display below to show a list of Users/Devices.
  - Selecting the Groups option changes the display below to show a list of Groups and Sub Groups (if the Search Sub Groups option is selected).
  - Select one of more User/Devices or Groups by highlighting them in the list (see notes on Search Calls Navigation screen field descriptions above on how to select more than one User/Device or Group).

**Search** to start the search for calls matching the search criteria.

<sup>8.</sup> Click

# **Calling Parties Search**

This section describes how to search by different calling parties.

#### > To search for calls by Calling, called and/or answered party:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. Click Search to start the search for calls matching the search criteria; the Results are displayed in the Search Calls Results screen to the right. The figure below shows a search for the last two days for user "John Smith".

Caudiocodes sm	art <b>T</b> A	<b>P</b> 360°	<b>* 9</b>								Init	ial User (F	REASE DELETE)	EN 🗡	C> Voic
System Users Status			94/19 06:41 PM and 11/	26/19 06:41 PM											
Calls Messages	• c														
Search Criteria st Days V 2 🗣		Name	Start Time \$	Answered	© Released	Ouration	Direction \$	Calling Party	Called Party	Answering Party	Recording Type	Tags	Nedia Type	Media	Media Statu
m: 11/24/19 6 0 41 0		John	Nov 26, 2019	Nov 26, 2019	Nov 26, 2019	Ū,	Select 🗸			shireltest3	Select V		Select	Status 0	Reason
PM U 11/26/19 8 U 41 U	•	Smith	12:38:39 PM	12:38:40 PM	12:39:07 PM	00:00:28	OUTGOING	pool1usr010	shireltest3		FULL_TIME	0		A	No Nedia
Active Users	0	John Smith	Nov 26, 2019 11:56:08 AM	Nov 26, 2019 11:56:12 AM	Nov 26, 2019 11:56:21 AM	00:00:13	OUTGOING	pool1usr010	7001	7001	FULL_TIME	Ø		0	None
Active Devices	0	John Smith	Nov 26, 2019 11:37:01 AM	Nov 26, 2019 11:37:02 AM	Nov 26, 2019 11:37:38 AM	00:00:37	OUTGOING	pool1usr010	shireItest3	shireItest3	FULL_TIME	Ø		0	None
) Users/Devices () Groups ers/Devices:	0	John Smith	Nov 26, 2019 11:36:52 AM	Nov 26, 2019 11:36:55 AM	Nov 26, 2019 11:37:02 AM	00:00:10	OUTGOING	pool1usr010	shireltest3	shireltest3	FULL_TIME	0		0	None
Select All	0	John Smith	Nov 26, 2019 11:36:51 AM	Nov 26, 2019 11:36:55 AM	Nov 26, 2019 11:37:02 AM	00:00:11	OUTGOING	pool1usr010	shireltest3	shireRest3	FULL_TIME	Ø		0	None
shn Smith	0	John Smith	Nov 26, 2019 11:36:11 AM		Nov 26, 2019 11:35:29 AM	00:00:18	OUTGOING	pool1usr010	7001		FULL_TIME				None
hirel M	0	John Smith	Nov 26, 2019 11:33:47 AM		Nov 26, 2019 11:34:56 AM	00:01:09	OUTGOING	pooliusr010	7001		FULL TIME				None
Il Parties:	0	John Smith	Nov 26, 2019 11:31:22 AM		Nov 26, 2019 11:31:46 AM	00:00:24	OUTGOING	pool1usr010	7001		FULL_TIME				None
lled	0	John	Nov 26, 2019 11:22:39 AM	Nov 26, 2019 11:22:45 AM	Nov 26, 2019	00:00:25	OUTGOING	pool1usr010	shireItest3	shireItest3	FULL_TIME			0	None
Iswered	0	John Smith	Nov 26, 2019 11:22:33 AM	Nov 26, 2019 11:22:33 AM	Nov 26, 2019 11:22:45 AM	00:00:12	OUTGOING	pool1usr010	shireltest3	AnnouncementsApp- s4b-2015-site1	PULL_TIME			0	None
II Tags: Active Tags							10		2 3 +> +1	(1 of 3)					
g Name Tag Value	Johi	n Smith 11/26	/19 12:38:39 PM											0	10:00:00   00:00:2
Search															
Saved Searches															
			2.70			8.10			13.50		18.90			24.30	
	0.2		- 50					(H)						- 	
		1.0						G	00						
															x+ ⊠ J

Figure 14-6: Retrieved Calls List for Specific User

# Search by Call Tags

This section describes how to search by Call Tags.

#### > To search for calls by call tags:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. Optionally, specify a Call Tag & Value.

Figure 14-7:	Call Tags	
Call Tags: Active Tags	Inactive Tags	
Tag Name	Tag Value	
ActionItem	▼ Schedule Meeting	
Search		

**3.** Right click the initial tag row to 'Insert' or 'Delete' an existing tag from the search. Add additional search tags as needed to fine tune the search.

	Figure 14-8:	Call Tags	
	Call Tags: Active Tag	s 🔲 Inactive Tags	
	Tag Name	Tag Value	
	ActionItem	Insert Row	
		Delete Row	
	Search		
_	Tags: ctive Tags	Inactive Tags	
	-	-	
Tag	Name	Tag Value	
Acti	onltem	▼ Schedule	
		Meeting	
Con	npany	▼ AudioCodes	
Sea	irch		

4. Ensure that the Active Tags check box is selected and then click Search to start the search for calls matching the search criteria; the Results are displayed in the Search Calls Results screen. The figure below shows an example of a retrieved call with an assigned Call TagAction Item with value 'Personal Call'\*. Calls with Call Tag Action Item with note value

'Personal Call'value are retrieved for the specified user and specified time frame. Note that this tag is of type "boolean" and therefore the "Tag Value" check box must be selected in order to retrieve results.

			-										
Coudiocodes sma	art <b>TAP</b> 360°	<b>*</b> 6									Initial User (PLEASE DELE	TE) EN 🖌	C Voice A
System Users Status		(24/19 06:51 PM and	11/26/19 06:51 PM										
Calls Messages													<b>I</b>
* Search Criteria	<u> </u>												
Last Days 🗸 😰	Name	Start Time	Answere	d <sup>©</sup> Released	0 Durat	ion Direction Select		Called Party	Answering Party	Recording Type	Tags Type Select V	Media Status 0	Media Status Reason
From: 11/24/19 6 51 0 PH 0 11/26/19 6 51 0	O John Smith	Nov 26, 2019 11:56:08 AM	Nov 26, 20 11:56:12	019 Nov 26, 20 AM 11:56:21 A	9 00:00	13 OUTGOING	pool1usr010	7001	7001	FULL_TIME		0	None
To: PH 0						10	V 14 44 <b>1</b>	>> >= (1 of 1)					
Active Users Inactive Users							Total c	alls: 1					
Active Devices Inactive Devices Users/Devices Groups	Select a call	_	_	_	_	_	_	_		_	_		0:00:00   00:00:09
Users/Devices:													
John Smith		0.90		Call R	35					6.30		8.10	
shirel M				1		e Added		Value Private	1	1			
14 04 10 11 (1 of 1)	0.2 -	5.0		P	rsonal Nov Call 6:4	26, 2019 Init 9:04 PM	al User (PLEASE DELETE)	true					0 =00
Call Parties: Calling	1/					4 - 4 <b>1</b> 1+	H (1 of 1)					-	-44
Called				Tag	Select One	Value:	Privat						<b>Q+</b> ≥ ±
Answered				_									
Call Tags:													
Tag Name Tag Value Personal Call													
Search													
Saved Searches													

Figure 14-9: Search Calls Results



Notice the difference in the search results displayed in the above figure and how wild cards can affect the results.

# **Search by Analytics Category**

Searches can be refined for calls matching specific Analytics categories. In the retrieved search results, select a call record; the matching categories are displayed in the Analytics toolbar. Transcript is by default displayed.

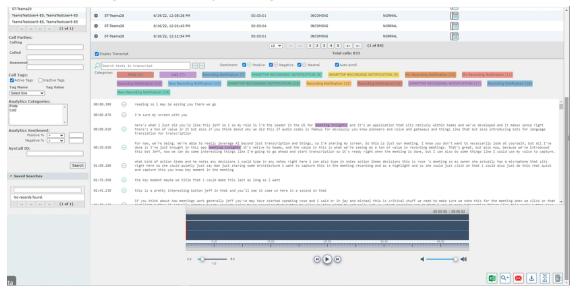
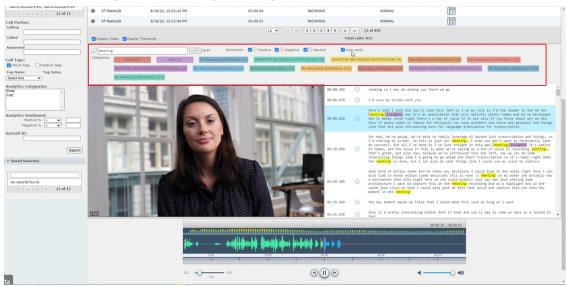


Figure 14-10: Analytics Categories in an Audio Call

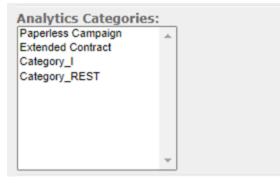


#### Figure 14-11: Analytics Categories in a Video Call

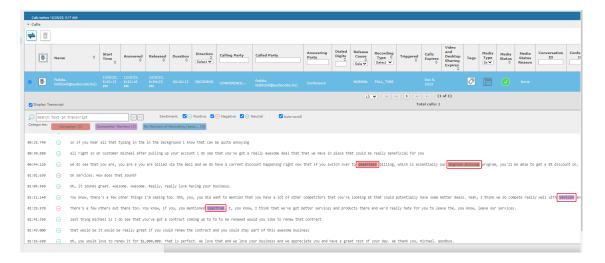
#### > To search for calls by Analytics categories:

1. Open the Search Calls screen by clicking the Calls tab.

#### Figure 14-12: Analytics



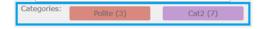
- 2. In the Analytics Categories section, select one or more categories.
- 3. Click Search to start the search for calls matching the search criteria.
- 4. Select one the retrieved call records to display the Analytics toolbar.
- 5. Select the **Display Transcript** check box to display the recorded text transcript. Note that keywords matching the categories configured in the Analytics profile are displayed.



Each category is assigned a different color. By default, all the matching words from a category are highlighted inside the transcript using the category color.

Categories:		Polite (3) Cat2 (7)	
Search t Categories:		transcript Sentiment: 🗹 📀 Positive 🗹 🕞 Negative 🗹 🕞 Neutral 🗹 Auto-scroll	
00:00.380	$\ominus$	reading so i may be asking you there we go	
00:06.070	$\ominus$	i'm sure my screen with you	
00:08.010	$\Theta$	here's what i just did you'll like this jeff so i so my role is i'm the leader in the US for meeting insights and it's an application that sits natively within teams and we've developed and it makes sense right there s a con or value in it but also if you think about why we did this if audio codes is famous for obviously you know pioneers and voice and gateways and things like that but also introducing bots for language translation for transcription	
00:38.050	$\Theta$	For now, we're being. We're able to really leverage AI beyond just transcription and things, so I'm sharing my screen. So this is just our meeting. I know you don't want to necessarily look at yourself, but all I've done is I've just brought in this app [meeting insights] it's native to teams, and the value in this is what we're seeing as a ton of value in recording meetings. That's great, but also now, because we've introduced this bot Jeff, now we can do some interesting things like I'm going to go ahead and start transcription so it's ready right when the meeting is done, but I can also do some things like I could use my voice to capture.	
01:08.200	Θ	what kind of action items and he notes any decisions i could type in any notes right here i can also type in notes action items decisions this is rose 's meeting so as owner she actually has a microphone that sits right here so she could quietly just say man just sharing some architecture i want to capture this in the meeting recording and as a highlight and so she could just click on that i could also just do this real quick and capture this you know key moment in the meeting	

When one or more categories are selected, only those phrases with matching categories are displayed. In the following screen, the user has selected category "Polite".



Search	texts in	transcript Sentiment: 🗹 🕞 Positive 🗹 🕞 Negative 🗹 🕞 Neutral 🗹 Auto-scroll	
Categories:	Po	lite (3) Cat2 (7)	
00:00.380	$\ominus$	reading so i may be asking you there we go	^
00:06.070	$\ominus$	i'm sure my screen with you	
00:08.010	$\odot$	here's what i just did you'll like this jeff so i so my role is i'm the leader in the US for meeting insights and it's an application that sits natively within teams and we've developed and it makes sense right there s a con or value in it but also if you think about why we did this if audio codes is famous for obviously you know pioneers and voice and gateways and things like that but also introducing bots for language translation for transcription	
00:38.050	$\odot$	For now, we're being. We're able to really leverage AI beyond just transcription and things, so I'm sharing my screen. So this is just our meeting. I know you don't want to necessarily look at yourself, but all I've done is I've just brought in this app [meeting insights] it's native to teams, and the value in this is what we're seeing as a ton of value in recording meetings. That's great, but also now, because we've introduced this bot Jeff, now we can do some interesting things like I'm going to go ahead and start transcription so it's ready right when the meeting is done, but I can also do some things like I could use my voice to capture.	
01:08.200	Θ	what kind of action items and he notes any decisions i could type in any notes right here i can also type in notes action items decisions this is rose 's meeting so as owner she actually has a microphone that sits right here so she could quietly just say man just sharing some architecture i want to capture this in the meeting recording and as a highlight and so she could just click on that i could also just do this real quick and capture this you know key moment in the meeting	~

6. In the search field, enter the phrase for which you wish to search in the transcription.

RX fifty

 ✓ ▲ 1/2 Use the navigation buttons to toggle between retrieved entries of the phrase. 7. RX fifty / /2 Sentiment: 🔽 😔 Positive 🔽 🔿 Negative 🔽 🖯 Neutral Auto-scroll Categories Cat2 (7) OK uh again i cannot tell you maybe within two weeks making within maybe within two months but that's next major release uh what we called one seventeen likely we'll upgrade for seventy two i i will keep you updated on that but it's 16:22.140 slightly android seven is gone and elsa it seems by the end of the year other devices probably not for fifty because of that one is old other devices like no no my point is not that and my point is that RX fifty is quite large to to just carry around and for fifty and and the RX fifty firmware on skype is pretty much the same so if you will be able to sign in on the four fifty in skype to the cloud to teams cloud from home then you you will understand there is some issue with the networking and firewalls that need to be resolved in the office and that you can use for fifty as a test 31:22.350 but then and then you upgrade the most recent film where i believe i shared with you the fillmore yeah yeah so just make sure you update it OK OK thank you alright well i appreciate the time everyone thank you already talk to you next week OK yep bye 32:04.400

# Search by SysCall ID

This section describes how to search by SysCall ID.

#### ➤ To search for calls by SysCall ID:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. In the SysCall ID section, type in the SysCall ID.
- 3. Click to start the search for calls matching the search criteria.

## Search by Analytics Sentiment

You can filter calls to query sentiment levels. In the example shown below, the Positive sentiment is set to "20" and the Negative sentiment is set to "40". All calls matching these sentiment ranges are retrieved. The sentiments are calculated by the Microsoft Cognitive Services Speech-to-text algorithms for the call transcriptions.

### > To search for calls by Analytics sentiment:

- 1. Open the Search Calls screen by clicking the Calls tab.
- 2. In the search criteria set the Analytics sentiment **Positive** or **Negative** sentiments as follows:
  - From the **Positive** drop-down list, select an operand value (<, = or >) and then enter a numeric value.

OR

 From the Negative drop-down list, select an operand value (<, = or >) and then enter a numeric value.

In the image below, Positive Sentiment is set to **20** and Negative Sentiment is set to **40**. This search criteria is then reflected in the search results.

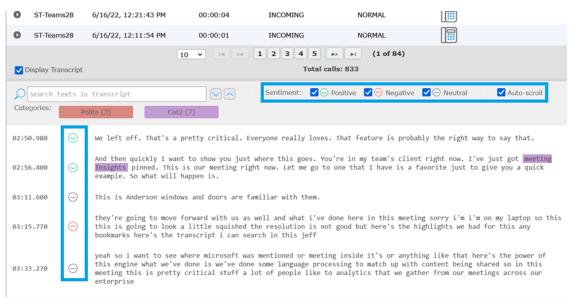
Call Parties:
Calling
Called
Answered
Call Tags:
✓ Active Tags
Tag Name Tag Value
Select One
Analytics Categories:
Polite
Cat2
Analytics Constitution
Analytics Sentiment:
20
Negative % > V 40
SysCall ID:
Search
Saved Searches
No records found.

3. Click Search to start the search for calls matching the search criteria.

Results are retrieved with the matching criteria.

Release Cause     \$       Select     V	Analytics Profile	Analytics Categories	Analytics Sentiment
NORMAL	analytics11	cat2(4), cat1(3)	○         ○         ○           20%         30%         40%
1 🕟 ы (1 of 1)			

4. Select **Display Transcript** check box to display the transcript. Notice that each segment in the transcript includes a color-coded icon reflecting the degree of sentiment.



All sentiment	s are by default enabled.
Tag Name Tag Value Select One    Analytics Categories:	Search text in transcript       Sentiment:       Sentim:       Sentiment:       S
Analytics Sentiment: Positive % >   SysCall ID:	00:15.660       O       I'm so isorry about your recent experience sir, let me see how I can help you.         00:25.120       O       I'd like to return this product.         00:32.170       O       It has been off and on from the very start.
Search	00:38.430       Image: So your product isn't working and you'd like me to establish a refund for you?         00:45.760       Image: switch over to werizon if i keep having these issues with you guys.         00:55.980       Image: switch over to the police if you keep threatening me.
No records found.	
	00.00.00   00.01.02

The phrase level sentiments are displayed with the transcription. A sentiment filter (above the transcription) allows you to display or hide phrases in the transcription based on the selected sentiments (one or more values can be selected):

Sentiment Icon	Description
$\odot$	Positive sentiment.
$\bigcirc$	Negative sentiment.

Sentiment Icon	Description
$\ominus$	Neutral sentiment.

Select the Auto-scroll check box to enable auto-scrolling for transcript recording text.

Search	text in transcript		Sentiment:	✓ ⊙ Positive	Negative	🗹 🖂 Neutral	Auto-scroll
Categories:	malicious (3)	paperless campaign (4)	lo mention of Record	ling (0)	Apologize (1)	Refund (2)	
	Competitor Mention (1)						

# **Saving Search Queries**

You can save search criteria as a query and then later retrieve it. Save the search criteria by

selecting the located at the bottom right of the call list. The saved query is added to the Saved Searches pane in the bottom left-hand corner of the screen. In the figure below "Last Two Days" is added as the saved query.

Save Search Query			
Name	Last Two Days		
		Submit	Cancel

<ul> <li>Saved Searches</li> </ul>				
calling 1 10	×			
calling 1 26	×			
calling 2 26	×			
LAST day calling 1 26 9 columns	x			
LAST hour calling 1 10 2 columns	×			
1 10 a week ago 14 calls	×			
1 26 a week ago 7 calls	×			
all users a week ago 21 calls	×			
Last Two Days	×			
I≪ ►> ►I (1 of	1)			

## **Deleting Calls and Instant Messages**

SmartTAP 360° is deployed in several recording scenarios such as compliance, quality monitoring and for malicious call recordings. While regulatory compliance requires that recordings are deleted automatically after a regulated time frame, quality monitoring scenarios requires the ability to manually delete recordings. Consequently, calls and instant messages conversations can be deleted on demand by users with the appropriate permissions in security profiles (see Managing Security Profiles on page 35).

- This feature is enabled through the SmartTAP 360° Call Deletion license (SW/SMTP/CALLDEL).
  - If a user in on Legal Hold, their Calls and Instant Messaging cannot be deleted (see Managing Users on page 81).
  - When calls or messages are deleted, any associated evaluations are also deleted.

### To delete calls:

- **1.** Search for calls according to desired search criteria (see Searching for Calls on page 119).
- ₽ button adjacent to each call that you wish to delete. The button becomes 2. Select the IF



Only the filtered and selected recordings are deleted.

Calls	Calls between 91/19 1128 AM and 12/31/19 1228 PM												
▼ Ca	▼ Calls												
+													
	Þ	Name	•	Start Time	٥	Duration \$	Selec	Direction t	Select		Select	Media Type	~
0	Þ	Smith, John		Dec 31, 2019 9:38:41 AM		00:00:17		OUTGOING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 10:54:19 AM		00:00:15		INCOMING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 11:20:50 AM		00:00:00		INCOMING		MISSED			
0	Þ	Smith, John		Dec 31, 2019 11:28:00 AM		00:00:07		OUTGOING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 12:26:36 PM		00:00:11		OUTGOING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 9:38:42 AM		00:00:15		OUTGOING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 10:54:20 AM		00:00:14		INCOMING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 11:21:00 AM		00:00:16		INCOMING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 12:09:04 PM		00:00:12		INCOMING		NORMAL			
0	Þ	Smith, John		Dec 31, 2019 9:38:57 AM		00:00:15		OUTGOING		NORMAL			
	10 v e e 1 2 3 4 5 m F (1 of 5) Total calls: 43												

, a confirmation dialog is displayed: 3. Click

Delete Calls									
Total 11 calls records are selected for deletion. These calls will be processed in the next retention cycle.									
Call deletion rule	Delete call's metadata and media O Delete call's media								
	John Smith's calls December 31, 2019								
Add note									
Authorized By	Bob Brown								
	Submit Cancel								

You can add a note and also indicate who authorized the deletion.

4. Click **Submit**. You are prompted to confirm the deletion.

You can monitor the deletion process in the Audit Trails page:

#### Figure 14-13: Audit Trail Page

User (PLEASE DELETE), Initial	DELETE_PENDING	12/30/2019 12:56:52 PM	Call deletion request is pending. Record count: 1, Deletion Rule: DELETE_CALL_MEDIA, Deletion Reason: Delete call's media , Authorized By: admin
User (PLEASE DELETE), Initial	DELETE_EXECUTION	12/31/2019 02:00:00 AM	Call deletion request executed. Record count: 1, Deletion Rule: DELETE_CALL, Deletion Reason: Delete call's metadata and media, Authorized By: admin
User (PLEASE DELETE), Initial	DELETE_EXECUTION	12/31/2019 02:00:00 AM	Call deletion request executed. Record count: 1, Deletion Rule: DELETE_CALL_MEDIA, Deletion Reason: Delete call's media , Authorized By: admin

Instant Messages can be deleted in a similar manner.

Figure 14-14	1: Deleting	Instant	Messages
--------------	-------------	---------	----------

Instan	t Messages betw	een 9/1/19 12:2:	3 AM and 1/1/20 02:23 AM					
Ī	]							
	User	\$ <b>(</b>	First Message Time	٥	Last Message Time	٥	Messaging Parties	Chat Type Select
0	Smith, John	<b></b>	Dec 31, 2019 12:11:39 PM		Dec 31, 2019 12:13:57 PM		Taylor, Bob; Smith, John	CHAT
0	Taylor, Bob	<b></b>	Dec 31, 2019 12:11:39 PM		Dec 31, 2019 12:13:57 PM		Taylor, Bob; Smith, John	CHAT
			100	~	1 × 1 × 1 (1	of 1)	1	

# **Call Transfer Information**

The Transferred by a Party data is displayed in the Call Details as highlighted below. Party A answers the call and then transfers to Party B (meta data displays that Party A answered the call and was transferred By Party. Party B's meta data shows that the call was transferred by Party A.

audiocodes Sr	nart <b>TAP 360°</b> Live 🕋 ?				Initial User (PLEASE DEI	ume) 🕞 V
Users Status	Calls between 7/7/22, 452 AM and 7/7/22, 7:52 PM					
Messages	▼ Calls					
						1
h Criteria						
stes 🛩 1	Name	Start Time	0 Duration 0	Direction C Select V		Media Typ     Select
7/22 4 ¥ 52 ¥ AM ¥	<ul> <li>MI-Teams05, MI-Teams05(NI-Teams05)</li> </ul>	7/7/22, 1:56:16 PM	00:00:34	INCOMING	NISSED	
7/22 7 V 52 V PM V	Answer Time:					
sers Inactive Users	Release Time: Jul 7, 2022, 1:56:50 PM					
evices Inactive Devices	Calling Party					
Devices 🔘 Groups	+97239766000					
vices:	Transferred-By: Ron Miller					
	Called Party					
	Names MI-Teams05, MI-Teams05(NI-Teams05)					
05, MI-Teams05(MI-Teams05)	Recording Type: FULL_TIME					
05, ST-Teams05(ST-Teams05)	Triggeredi					
08. st-teams08(st-teams08)	Expires					
tuser2@ai-logix.net,	Media Status NONE					
tuser2@ai-logix.net	Media Status Reason: None					
tUser4-E5, TeamsTestUser4-E5	SysCall ID: 511f5f00-c60a-4fbc-a318-aaf55d35d19d Conversation ID:					
er3, teamsuser3	Conference ID:					
EASE DELETE), Initial	Release Cause Details:					
<< >> > (1 of 1)	Analytics Status: No transcription					
ies:	Analytics Profile: SmarttapAnalyticsProfile					
	Analytics Categories:					
	Analytics Details: Analytics was not triggered					
	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:55:35 PM	00:00:06	OUTGOING	ABANDONED	
	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:55:35 PM		OUTGOING		
	teamstestuser2@ai-logix.net, teamstestuser2@ai-logix.net	7/7/22, 1:53:02 PM	00:02:25	OUTGOING	NORMAL	
: Fags 🔲 Inactive Tags	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:49:43 PM	00:03:28	OUTGOING	NORMAL	1
Tag Value	teamstestuser2@ai-logix.net, teamstestuser2@ai-logix.net	7/7/22, 1:41:24 PM	00:00:03	OUTGOING	ABANDONED	~
~	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:38:37 PM		OUTGOING		
Categories:	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:38:37 PM	00:02:52	OUTGOING	NORMAL	
	MI-Teams05, MI-Teams05(MI-Teams05)	7/7/22, 1:37:34 PM	00:00:19	OUTGOING	ABANDONED	1

# **Delegating Teams Calls**

You can set delegates to answer Teams calls. For example, an Administrative assistant makes calls on behalf of a manager.

Figure 14-15	Teams	Calls	Settings
--------------	-------	-------	----------

Settings		$\times$
-0-	App language	
හි General	English (United States) $\checkmark$	
E Accounts	Keyboard language overrides keyboard shortcuts.	
🖯 Privacy	English (United States)	
$\bigcirc$ Notifications		
Devices	Enable spell check (requires restarting Teams)	
<ol> <li>App permissions</li> </ol>	Translation	
© Captions and transcripts	Preferred language for incoming messages.	
🗅 Files	English V	
Galls	Delegation   Delegates can make and receive calls on your behalf.   Manage delegates   Display   To restart, right-click the Teams icon in the taskbar, then select Quit. Then reopen Teams.   Turn off animations (requires restarting Teams)   Dut of Office   Schedule   Schedule   Suggested replies   Show suggested replies in chat	

The delegated call information is displayed in the Call Details.

Figure 14-1	6: Teams	S Call De	legate
-------------	----------	-----------	--------

Calls b	oetween 10/13/21 9:23	AM and 10/13/21 10:23 AN	1	
▼ Ca	lls			
+				
	Name	\$	Start Time	
0	TeamsTestUser2		10/13/21 10:22:04 AM	
		13, 2021 10:22:09 AM 13, 2021 10:22:11 AM		
	Name:	TeamsTestUser4 on behalf of TeamsTes	tUser2	
	Called Party			
	Name:	ST-User11		
	Answering Party			
	Name:	ST-User11		
	Recording Type: F	ULL_TIME		
	Tringered			

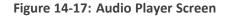
# **Playing Back Recorded Media**

This section describes how to listen to call audio, view a call video and view a desktop application recording. Use the Player interface, available when a call is selected and shown below, to listen to, email, or download a call recording.

The Web browser support for the SmartTAP 360° HTML5 player is listed below:

- Audio:
  - ✓ Audio Playback: Microsoft Edge Version: 88.0.705.56, Google Chrome Ver. 58 and later, Mozilla Firefox Ver. 85.0 and later.
  - ✓ Wave form rendering: Microsoft Edge Version 88.0.705.56, Google Chrome Ver. 58 and later, Mozilla Firefox Ver. 85.0and later.
  - Stereo wave form rendering (for recordings other than Microsoft Teams): Microsoft Edge Version 88.0.705.56, Google Chrome Ver. 58 and later, Mozilla Firefox Ver. 85.0 and later.
  - ✓ Wave form rendering: Microsoft Edge Version 88.0.705.56, Google Chrome Ver. 58 and later, Mozilla Firefox Ver. 85.0and later.
  - For Microsoft Teams Native recording, audio mixed on waveform is recorded.
  - Playing while loading: Microsoft Edge Version 88.0.705.56, Google Chrome Ver. 58 and later.
- Video:
  - ✓ Video: Microsoft Edge Version 88.0.705.56, Google Chrome Ver. 58 and later, Mozilla Firefox Ver. 85.0 and later.
  - Playback with 'Display Video' selected is limited to five concurrent sessions.
- Skype for Business and Microsoft Teams Desktop Application Recording (Video and Screen Sharing):Skype for Business Video and Screen Sharing over VBSS (Video Based Screen Sharing) recording is supported. Refer to the link below for more information on Skype for Business VBSS client and server support:

✓ Skype for Business VBSS



	, Brad 5/28/17 7:02:45 AM ADY		_	_	00:00:00   00:00:30
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	3.00	8.99	14.98	20.97	26.96
0.2	-O				<b>◄ ◄</b> ₩

Table 14-4: Player Screen Overview

Field	Description
	Call details for the selected call.
-4	Volume control.
<ul> <li>- San an an Alaha ang di ang ang ang ang ang ang ang ang ang ang</li></ul>	Status and other information (see more information below).
$\triangleright$	Playback the entire recording or a selected segment.

Field	Description
(I) PAUSE	Pause the playback of the recording.
•	Rewind to immediately replay the selected segment of the recording from the start point of the segment.
	Return to the start point of the selected segment of the recording, then click to replay the segment.
0.2 . 5.0	Playback speed in milliseconds.
X	Send call information to an excel worksheet. Whenthis option is selected, you can use the arrow keys to select those columns to include in your report.
	Available Columns   Available Columns   Released   Triggered   Duration   Calling Party   Dialed Digits   Direction   Export Tags
	Email audio call information. When this option is selected, the Email Audio dialog opens. See Sending Email on page 29
Q+	Save search call query. You can save the search query results and then easily retrieve these call details at a later time. See Searching for Calls on page 119
Ł	Download call information to your PC. When this option is selected, the Download Media dialog opens. See Downloading Call Recordings on page 156
Ĩ	Download call transcript VTT file.
	Delete call transcript.
Rubbish bin	

# Listening to Call and Viewing Call Video

This section describes how to listen to a call and view a video.

### > To listen to a call and view call video:

- 1. Follow the instructions described inSearching for Callsto search for calls.
- 2. If you wish to view call video, ensure that you have selected the "Display Video" check box.
- **3.** In the retrieved calls list, select the desired call. The call recorder is displayed with the frequency spectrum of the call.
- 4. Click the button to start listening to the call and/or view the video (if you selected

"Display Video" check box); the button changes to while the call is playing, to allow the administrator to pause the player while playing the audio or video.

	TAF	tween 1/14/19 10:37 AM and 1/14	10.10.48 asa							Tanu	a Adar (admin)	C⇒ v
	Call be ▼ Call		13 10:45 404									
`												_
AM Y	<b>~</b>											:=
AM V AM V		Name 0	Start Time	0	Duration 0	Direction 0	Called Party	Release Cause 0	Recording Type	0	Media Type	Media Sta
, –		Name 0	Start Time	Ť	Duration 🗘	Select •		Select T	Select	Tags	Select T	Select
	0	Thomas (x3051), Anna	Jan 14, 2019 10:41:45 AM		00:00:16	INCOMING	user3051	NORMAL	FULL_TIME	0		0
	•	Thomas (x3051), Anna	Jan 14, 2019 10:40:23 AM		00:00:52	OUTGOING	user3056	NORMAL	FULL_TIME	0		0
1	0	Thomas (x3051), Anna	Jan 14, 2019 10:40:23 AM		00:00:52	OUTGOING	01010000	NORMAL	FOLL_TIME			
- (	0	Thomas (x3051), Anna	Jan 14, 2019 10:39:52 AM		00:00:20	INCOMING	user3051	MISSED	FULL_TIME	0		
		Thomas (x3051), Anna	Jan 14, 2019 10:37:04 AM		00:02:02	INCOMING	user3051	NORMAL	FULL_TIME	0		
	0	Thomas (x3051), Anna	Jan 14, 2019 10:37:04 AM		00:02:02				FULL_TIME	$\checkmark$		0
						10	- IN ON <b>1</b> PO					
							Total calls:	4				
		812				_				-	- 10	
		H	Ser N							- 10		
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	EMEAD			• •		- jos dr.) coljadije		A theory - of person				<b>₩</b>   -
	EMEA READ			•#								<b>₩</b>

Figure 14-18: Viewing Video

When the call is played back, the played back segments are colored green and the audio signaling playback data is displayed at the top of the dialog (shown by the yellow lines at the top of the dialog below).

You can also view multiple participants in a conference as shown in the figure below:



Figure 14-19: Multiple Conference Participants



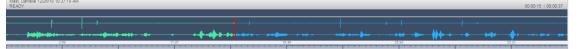


Information at the top-left hand side of the screen includes the user name, date and time and status e.g. "PLAYING". On the top-right hand side of the screen includes the elapsed playback time and the total playing time.

The timeline of the recording segments (in minutes and seconds) is displayed below the recording signal data.

- 5. Manipulate the call recording in the following ways:
  - Move the cursor to any random point in the recording and left-click and release;
  - The selected segment is colored green. Click the button; the call recording is played from the left-click selection point forward (shown by the red line in the figure below).





• Left-click and drag the mouse over the desired segment in the call recording and



Figure 14-22: Highlighted Segment in Call Recording



- Select the button to return to the start point of the selection; the selected segment is immediately played back.
- Select the button to return to the start point of the selection. You must then click

button to playback the selected segment.

## Managing Microsoft Teams Video Calls

The following describes the recording and playback/download factors for managing Microsoft Teams video calls.

- Video Recording:
  - SmartTAP supports the recording of up to 4 video streams provided by the Microsoft Recording API.
  - If the number of video-enabled call participants exceeds the number of configured streams and/or exceeds the maximum available streams (4) then existing streams are replaced accordingly. The replacement logic is managed by the Bot and is mainly based on dominant speakers prioritization where targeted users have priority (if they start video they are recorded in any case).
  - Each stream is recorded in a separate media file.
  - Peer-to-Peer calls are stored with a resolution of 720p per stream, Conference calls are stored with a resolution of 360p per stream.
- Playback\download:
  - During playback, a composite screen is displayed consisting of up to four video tiles and Video and Screen Sharing (if available).
  - Video Tiles represent one tile per recorded stream.
  - Video Tiles may be set as a grid, or in line in case Video and Screen Sharing is active.
  - The Target compliance user's tile has highlighted borders.
  - Each tile is labeled with Participant identifier (Name- if available).
  - Media files of a single call are processed (rescaled, mixed, composed, etc) prior to playback or download.
  - In case, media is stored in Azure Blob, media files are downloaded to server and then processed.

# **Viewing and Playing Back Transcripts**

This section describes how to view and playback Analytics transcripts.

### > To view call transcript:

- 1. Follow the instructions described in <u>Searching for Calls</u> to search for calls.
- 2. In the retrieved calls list, select the call with Analytics Status 'Exists". The transcript text is displayed.

	Name \$	Start Time 🗘	Duration 🗘	Direction 0 Select v	Release Cause 0 Select v		Analytics Status Select v	Analytics Profile
D	ST-Teams11, ST-Teams11	11/30/21 2:33:52 PM	00:00:56	INCOMING	NORMAL	[]]	Not assigned	
)	ST-Teams11, ST-Teams11	11/30/21 2:17:41 PM		INCOMING			Not assigned	
D	TeamsTestUser2	11/30/21 1:56:11 PM	00:01:08	INCOMING	NORMAL		Not assigned	
D	ST-Teams49, ST-Teams49	11/30/21 8:26:44 AM	00:00:55	INCOMING	NORMAL		In progress	VPNCpolicy
D	ST-Teams41, ST-Teams41	11/30/21 8:26:41 AM	00:00:58	INCOMING	NORMAL		In progress	VPNCpolicy
D	ST-Teams29	11/30/21 8:26:41 AM	00:00:56	INCOMING	NORMAL		In progress	VPNCpolicy
D	ST-Teams46, ST-Teams46	11/30/21 8:26:41 AM	00:00:59	INCOMING	NORMAL		In progress	VPNCpolicy
)	ST-Teams26	11/30/21 8:26:36 AM	00:00:04	INCOMING	MISSED		No transcription	VPNCpolicy
•	ST-Teams35, ST-Teams35	11/30/21 8:26:34 AM	00:00:05	INCOMING	MISSED		No transcription	VPNCpolicy
•								
			10	v 14 <4 1 2 3	4 5 → + (1 of 11	83)		
Di	isplay Transcript							
00:0	uto-scroll Search texts in 00.5 Then I need to talk to her. 13.7 hey guys welcome back to and	There you go. You got someth ther episode of gals today i ke across this feels like a ife story so we're going to	have with me best an cross right million m figure out their firs	d now you are legit and i iles away so i know i've b	know that because i saw a	couple of videos you're	a producer at mba which is	the studio ecross the street right girls and i need to talk to her
00:0 00:1 00:4	uto-scroll Search texts in 00.5 Then I need to talk to her. 13.7 hey guys welcome back to an across the hall and feels 11 there you got something in 1	There you go. You got someth ther episode of gals today i ke across this feels like a ife story so we're going to	have with me best an cross right million m figure out their firs	d now you are legit and i iles away so i know i've b	h their first. Let's dig in know that because i saw a :	couple of videos you're	a producer at mba which is	girls and i need to talk to her
00:0 00:1 00:4	uto-scroll Search texts in 00.5 Then I need to talk to her. 13.7 hey guys welcome back to an across the hall and feels 11 there you got something in 1 46.7 Hey guys, welcome back to ar	There you go. You got someth ther episode of gals today i ke across this feels like a ife story so we're going to	have with me best an cross right million m figure out their firs	d now you are legit and i iles away so i know i've b	h their first. Let's dig in know that because i saw a :	couple of videos you're	a producer at mba which is	the studio across the street right gills and 1 need to talk to her 00:00.00   00:00
00:0 00:1 00:4	uto-scroll Search texts in 00.5 Then I need to talk to her. 13.7 hey guys welcome back to an across the hall and feels 11 there you got something in 1 46.7 Hey guys, welcome back to ar	There you go. You got someth ther episode of gals today i ke across this feels like a ife story so we're going to	have with me best an cross right million m figure out their firs	d now you are legit and i iles away so i know i've b	h their first. Let's dig in know that because i saw a :	couple of videos you're	a producer at mba which is	girls and i need to talk to her
00:0	uto-scroll Search texts in 00.5 Then I need to talk to her. 13.7 hey guys welcome back to an across the hall and feels 11 there you got something in 1 46.7 Hey guys, welcome back to ar	There you go. You got semeth there spiceds of gala codey it we ecrome this feed like a if story so we're poing to other episode of Gala Today	have with me best an cross right million m figure out their firs	d new you <u>are legis</u> and i like away so i Know i've r t little bit far away	h their first. Let's dig in know that because i saw a :	couple of videos you're	a producer at mba which is	girls and i need to talk to her
00:0 00:1 00:4	<pre>uto-scroll Search texts in 00.5 Then 1 need to talk to her. 13.7 Berg ugys veloces back to an acreas the hall and feel and there you got something in 1 40.7 Berg ugys, welcome back to ar amms47, ST-feames47 11/30/21 82633 AM</pre>	There you go. You got semeth there spiceds of gala codey it we ecrome this feed like a if story so we're poing to other episode of Gala Today	have with me best an cross right million figure out their firs I have with me best.	d new you <u>are legis</u> and i like away so i Know i've r t little bit far away	h their first. Let's dig in know that because I saw a neead of you have seen you o	couple of videos you're	a producer at mba which is	girls and i meed to talk to her 00.00.00   00.00
:00:0 :00:1 :00:4	vdo-sovoll Search texts in 00.5 Then 1 med to talk to her. 13.7 Berg ugys veloces back to and accoss the hall and feel in there you got somehling in 1 d4.7 Berg ugys, welcome back to ar ans47, ST-feams47 11/30/21 8/26 33 AM 0.40 0.40 1	There you go. You got semeth there spiceds of gala codey it we ecrome this feed like a if story so we're poing to other episode of Gala Today	have with me best an cross right million figure out their firs I have with me best.	d new you <u>are legis</u> and i like away so i Know i've r t little bit far away	h their first. Let's dig in know that because I saw a neead of you have seen you o	couple of videos you're	a producer at mba which is	gills and i need to talk to her 00.00.00   00.0

#### Figure 14-23: Call Transcript

- 4. Click to download a transcript.

In the second second. (1 of 1)

02 02 51

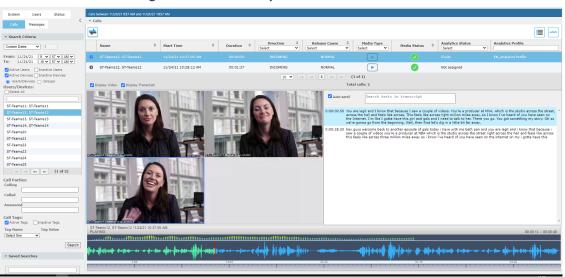
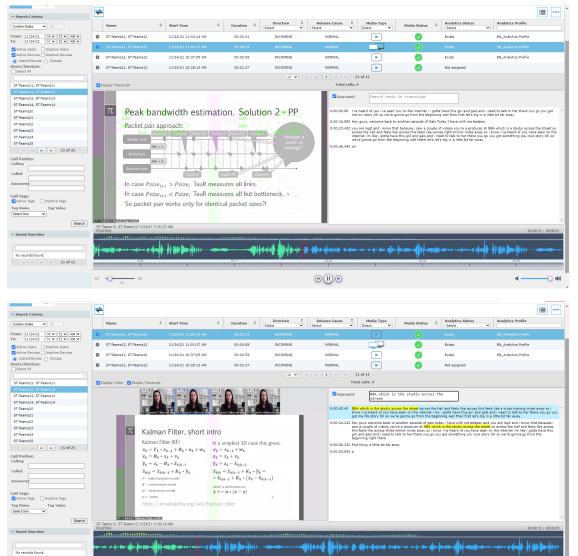


Figure 14-24: Transcript with Video





(I) (B)

-0 40

# Skype for Business and Teams Video and Screen Sharing

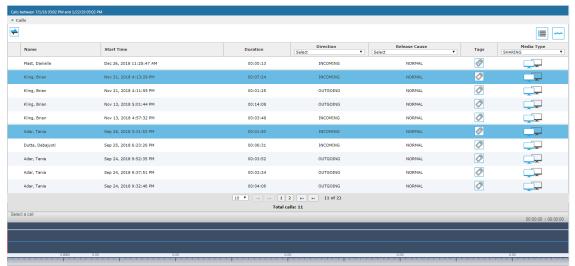
This section describes how to playback a Video and Screen Sharing recording.

#### > To playback Video and Screen Sharing recording :

- 1. Follow the instructions described in Searching for Calls on page 119 to search for calls.
- **2.** From the Media Type drop-down list, select Sharing to filter the search results for the Video and Screen Sharing recordings.

Figure 14-26: Media Type-Video and Screen Sharing with Teams

	< -0	dis											
Calls Hessages		Î											
ustom Dates ¥		٦	Name	٥	Start Time	٥	Duration	٥	Direction	0 ❤ Select	Release Cause	•	Media Type SHARING
om: 7/16/20 9 V 08 V AM V	0	Đ											<u> </u>
Active Users Inactive Users	0	5	ST-Teams35		Jul 16, 2020 9:50:56 AM		00:02:08		INCOMING		NORMAL		
Active Devices Inactive Devices Users/Devices Groups	0	ē	ST-Teams36		Jul 16, 2020 9:50:56 AM		00:02:08		INCOMING		NORMAL		
ers/Devices: Select All	0	ē	ST-Teams34		Jul 16, 2020 9:50:56 AM		00:02:09		INCOMING		NORMAL		
	0	6	ST-Teams39		Jul 16, 2020 9:50:56 AM		00:02:09		INCOMING		NORMAL		
ST-Teams10 ST-Teams11	0	ē	ST-Teams37		Jul 16, 2020 9:50:56 AM		00:02:08		INCOMING		NORMAL		
ST-Teams12	0	6	ST-Teams33		Jul 16, 2020 9:50:55 AM		00:02:09		INCOMING		NORMAL		
T-Teams13 T-Teams14	0	ē	ST-Teams11		Jul 16, 2020 9:32:56 AM		00:02:08		INCOMING		NORMAL		
T-Teams17 T-Teams18	0	<b>B</b>	ST-Teams13		Jul 16, 2020 9:32:56 AM		00:02:08		INCOMING		NORMAL		
T-Teams19	0	ē	ST-Teams14		Jul 16, 2020 9:32:55 AM		00:02:10		INCOMING		NORMAL		
T-Teams20							10 👻 🕫 1	2	•• •• (1 of 2)				
T-Teams21							Total	calls: 1	8				



### Figure 14-27: Media Type-Video and Screen Sharing with Skype for Business

3. Double-click a row to display the Video and Screen Sharing recording.

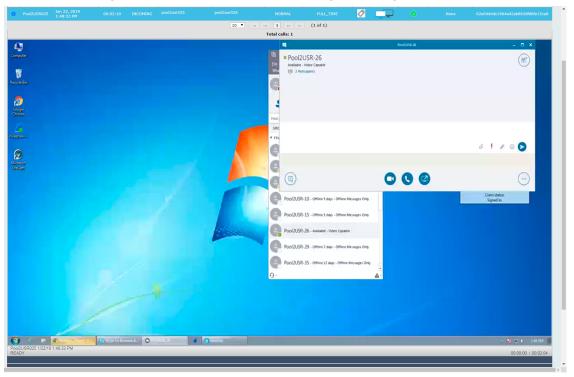


Figure 14-28: Video and Screen Sharing Recording

4. Click the button to playback the selected segment; view the keyboard and mouse actions of the user for the recorded application segment.

		Ele Meet Now Iools	Skype for Business Basic — 🗆 🗙	
I		What's happening toda		bounSky
r' Ie8in		Poel2USR-26	- C X	File Help 2015
	● Pool2USR-26			- Suit Cei At
) k W	Available - Video Capable		(8 <sup>*</sup> ) <sub>©</sub> .	1 Pool1USR007 2 Pool1USR026
le ne	结 2 Participants			3 Pool2USR026
			Q	4 Pool2058026
			85°	5 Pool3USR010
				6 Pool3U5R026
				7 user10_stlab
site m	a long das session with duration greater than min. fro	m pool 2 user 25 to user 26 pool 2		8 user30_stlab
	a rang ass session and a second great war and			9 C8Pro3
			0 9 8 0 🕞	0 CBPro4
	You're sharing your screen. Stop Sharing		×	Client status: Signed In
			··· )	
	0		D - Available - Video Capable	
		POOI2USK-2		
		Pool2USR-2	9 - Offline 7 days - Offline Messages Only	
			5 - Offline 12 days - Offline Messages Only	
		Q-		
	"			Pool2USR025 1/22/19 1:48:33 PM
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JSR025 1/22/19 1:48:33 PM	Syster Scores E. O. NO.22.8 4	<i>00</i> 1		- N 🕀 🗘 148.PM
JSR025 1/22/19 1:48:33 PM NG	210	2094	831	- N 🕀 🗘 148.PM
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JSR025 1/22/19 1:48:33 PM NG	210	2094		- 🎝 🕀 († 14894) 000040   000202

Click the button to return to the start point of the selection; the selected segment is immediately played back.

6. Click the 🕑 button to return to the start point of the selection. You must then click the

button to playback the selected segment.

# **Timeline View**

You can view call data for a specific user/device over a timeline. Zooming in using the mouse roller or navigation buttons enables you to view the details of call.

#### > To manage calls using the timeline feature:

2. Select the Timeline view icon

1. Follow the instructions described inSearching for Calls to search for calls.

Call	s											
<b>À</b>												
	Name	٥	Start Time	٥	Duration	٥	Direction	¢ ب	Release Cause	\$ ~	Media Type Select	
)	John Smith		Dec 2, 2019 2:19:50 PM		00:00:10		OUTGOING		NORMAL			
	John Smith		Dec 2, 2019 2:19:38 PM		00:00:11		OUTGOING		NORMAL			
	John Smith		Dec 2, 2019 2:19:27 PM		00:00:10		OUTGOING		NORMAL			
)	John Smith		Dec 2, 2019 2:19:15 PM		00:00:10		OUTGOING		NORMAL			
	John Smith		Dec 2, 2019 2:19:03 PM		00:00:10		OUTGOING		NORMAL			
	John Smith		Dec 2, 2019 2:18:51 PM		00:00:11		OUTGOING		NORMAL			
<b>D</b> :	John Smith		Dec 2, 2019 2:18:40 PM		00:00:10		OUTGOING		NORMAL			
)	John Smith		Dec 2, 2019 2:18:28 PM		00:00:10		OUTGOING		NORMAL			
	John Smith		Dec 2, 2019 2:18:16 PM		00:00:10		OUTGOING		NORMAL			
. כ	John Smith		Dec 2, 2019 2:18:04 PM		00:00:11		OUTGOING		NORMAL			
					10 🗸 🕫 <4 1 2	2 3 4	5 bb bi (1 of 19)	)				
					То	tal calls	: 182					
elect a	a call										00:00:00	00:00
											00.00.00	1 00.00.
	0.00		0.1	0		0.00			0.00		0.00	
	1.0 5.0				•		•				¥	-0
											X1 Q+	

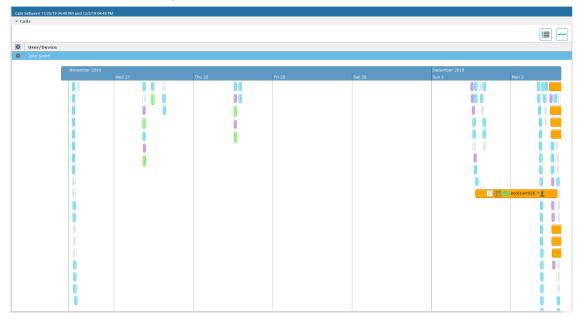
Calls between 11/25/19 05:33 PM and 12	2/2/19 05:33 PM					
▼ Calls						
						III
User/Device						
O John Smith						
		5 🗸	, 14 «4 <b>1</b> (2	of 1)		
			Total users: 1			
▼ Selected Calls						
-						
						-
User/Device	Start Time	Duration	Direction	Release Cause	Media Type	Remove
			Please choose calls from timeline			
Select a call			Load			
Concert a cam						00:00:00   00:00:10
1.00	3.00		5.00	7.00		9.00
0.2 5.0			€ €			ii
						🕅 Q+ 🖂 🗄

. A screen similar to the following is displayed:

**3.** Select the arrow adjacent to the User/Device whose timeline you wish to view. The Calls List is displayed:

# Figure 14-29: Calls List





4. Hover over a call event to view details of the call.





5. Zoom in on a specific day to view the details using either the mouse roller or the navigation buttons that are highlighted below.

### Figure 14-33: Zoom In

	:33 PM and 12/2/19 05:33 PM													
▼ Calls														
														·•••
<ul><li>User/Device</li><li>John Smith</li></ul>				_				_			_		_	
	Wednesday 27 Novembe	er 2019												
	08:36	08:37	08:38	08:39	08:40	08:41	08:42	08:43	08:44	08:45	08:46	08:47	08:48	08:49
			pool1usr026	<b>—</b>	P 🕑 🛛	bollusru				pool1usr026	-1			0.0
			🗍 🕗 pool1usr026	-1									00	00
					5 🗸		1 -	(1 of 1)						
						Tot	al users: 1							

- In timeline view, the calls are grouped according to their target type. Each target type is represented by a different color (see table below). Calls for the same target type are displayed as events in a continuous timeline.
- Call events from one or more timelines can be selected to a playable table. Calls from the playable list can be loaded to the player by clicking an icon in the timeline and then clicking the Load button.

Calls b	between 11/26/19 1	1:08 AM and 12/3/19 11:	08 AM																						
▼ Ca	lls																								
0	User/Device																								
0	Bob Taylor																								
÷.			3 Decer	nber 09:0	1		3 Dece	ember 09:0	)2		3 Dece	mber 09:0	13		3 Decer	nber 09:04	1		3 Decer	mber 09:0	5		3 Dece	mber 09:0	6
		30 45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	
		🗋 🕑 pooliusri(	1 -1										P [	🛛 🕗 pool	1usr101 :	1			pool1us	r101 - 👤				00	00
0	John Smith												- -												
-	Sour Chinar																								
		3 December 09:																							3 Decer
		0 15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0
			0	pool1usr1	100 🚛										2	🖹 🕑 poc	lusr100	=1			🕗 pool1	usr100 🚛	L	00	00
										5 🗸	14	1 🕨	9 FT	(1 of 1)											
											т	otal users	5: 2												

### Figure 14-34: Call Events from Multiple Timelines

The following rules are applied when more than one call is selected to play from the playable list:

- Only calls for the same user can be selected to be played together.
- If multiple selected segments include video or Video and Screen Sharing, the total playback time should not exceed six hours, otherwise the total playback time can be up to 24 hours.
- Only calls of different types can overlap:
  - An Audio call segment can overlap with a Video and Screen Sharing call segment
  - An Audio Video call segment can overlap with a Video and Screen Sharing call segment
  - An Audio call segment can't overlap with another Audio or Audio Video call segment
  - A Video and Screen Sharing call segment can't overlap with another Video and Screen Sharing call segment

Media Type	Description
pool2usr	Represents an Audio call.
pool2L	Represents a Video call
pool2usr027	Represents a Video and Screen Sharing call
pool2usr010	Represents a call that has no media. When a call is abandoned or missed, this target is displayed without the red warning.

#### Table 14-5: Call Events Description

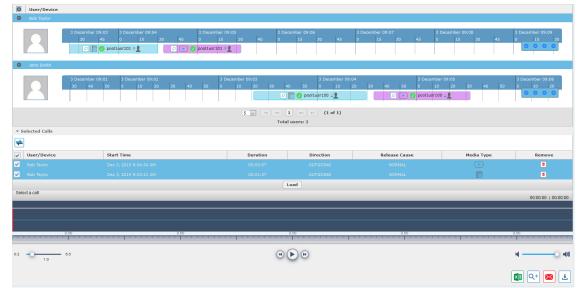
Each event includes different call information statuses as shown in the table below:

Item	lcon	Description
Call Details	Q	Right-click the magnifying glass icon to view the call details.
Media Type	()	Indicates an audio call.
		Indicates a video call
	ŢŢ	Indicates a desktop application call
Media Status		Indicates a successful call
		Indicates a call with silent media
		Indicates an unsuccessful call.
Called Party and Call Direction	-	Indicates an incoming call.
	\$2	Indicates an outgoing call.

Table 14-6: Call Icons

a. Select the check box adjacent to each call that you wish to playback and click Load. The Media Player is loaded.





The selected files are loaded to the Media Player.

Figure 14-36: Loading Files to Media Player

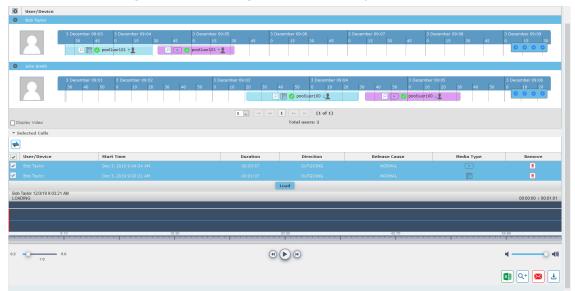
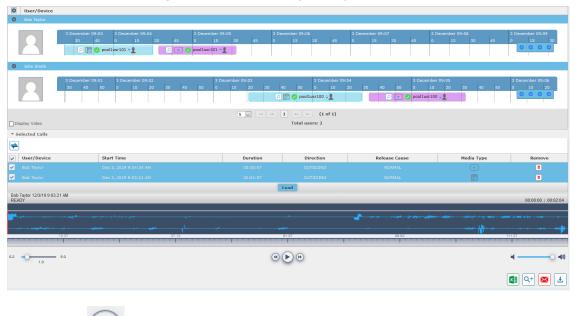


Figure 14-37: Files Ready to Play



b. Click to play the selected call.

### Figure 14-38: Play Call

User/Device						
Bob Taylor						
2	3 December 09:03 3 December 09:04 3 Dece 30 45 0 15 30 45 0	15 30 45 0	mber 09:06 15 30 45	3 December 09:07 3 1 0 15 30 45 0	December 09:08 15 30 45	3 December 09:09 0 15 30
John Smith						
2	3 December 09:01 3 December 09:02 30 40 50 0 10 20 30 40 50		3 December 09:0 50 0 10 2 0 pool1usr100 2		20 30 40 50	3 December 09:06 0 10 20 0 0 0 0
		5 🗸 🕫 📢 1	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			
Display Video			Total users: 2			
Selected Calls						
<b>+</b>						
User/Device	Start Time	Duration	Direction	Release Cause	Media Type	Remove
						٥
Bob Taylor	Dec 3, 2019 9:03:21 AM	00:01:07	OUTGOING	NORMAL		٥
		La	ad			
lob Taylor 12/3/19 9:03:21 PLAYING	AM					00:00:06   00:02:0
IllionIllionIllio						
µ				A construction of the second		
	2.37 37.12		.87	88.62		111.37
2 -0 5	50	•	D 🕑			н ————————————————————————————————————

# **Downloading Call Recordings**

You can download both audio and video call recordings components to your PC.

Download with 'Display Video' selected is limited to five concurrent sessions.

# **Downloading an Audio Call**

This section describes how to download an audio call.

### > To download an audio call:

- 1. Follow the instructions inSearching for Calls to search for the call to download.
- 2. From the Media Type drop-down list, select Audio.
- **3.** Select the call that you wish to download.
- **4.** The Player screen opens; click to open the download menu.
- 5. Select 'Basic' or 'Advanced' format depending on file formats, encoding, and mixing for the download files.

Calls between 6/1/18 05:	24 PM and 1/1	.0/19 07:24 PM		
Download Media				×
Agent		Started	Durat	tion
Johnson, Bob		Dec 31, 2018 1:56:38 PM	00:00:	29
Duration Calls Audio Segments Video Segments				
<ul> <li>Video</li> <li>Sha</li> <li>Basic</li> <li>Adva</li> </ul>	_			
<ul> <li>File Format</li> <li>WAVE</li> <li>MP3</li> <li>WEBM</li> </ul>				
			SUBMIT	CANCEL

## Figure 14-39: Basic Audio Download

Figure 14-40: Advanced Audio Download

Calls between 12/1/18 09	9:38 AM and 1/	/2/19 11:38 AM		
Download Media				$\mathbf{X}$
Agent		Started	Durat	
Johnson, Bob		Dec 31, 2018 1:55:48 PM	00:00:	28
Duration	00:00:28			
Calls	1			
Audio Segments	2			
🔘 Basic 🖲 Adva	nced			
File Format				
WAVE				
🔘 мрз				
○ WEBM				
Digitally Sign				
Audio Encoding		Audio Mixing		
🔍 ALAW		Mono		
MPEG1L3		Multi-Track		
OPUS		Stereo		
PCM_SIGNED	)			
ULAW				
			CUDMIT	CANCEL
			SUBMIT	CANCEL

# **Downloading Video Call**

This section describes how to download a video call.

### > To download a video call:

- **1.** Follow the instructions in Searching for Calls to search for the call to download.
- 2. From the Media Type drop-down list, select Video.
- **3.** Select the video you wish to download.
- 4. Select the Video check box.
- 5. Select 'Basic' or 'Advanced' format depending on file formats, encoding, and mixing for the download files.

#### Figure 14-41: Basic Video Download

Calls between 12/1/18 09:38 AM and 1/2/19 11:38 AM										
Download Media										
Agent		Started	Duration							
Johnson, Bob		Dec 31, 2018 1:56:38 PM	00:00:29							
Duration	00:00:29									
Calls	1									
Audio Segments	2									
Video Segments	2									
<ul><li>□ Video</li><li>□ Sha</li><li>● Basic</li><li>○ Adva</li></ul>	_									
File Format										
WAVE										
🔘 мрз										
○ WEBM										
			SUBMIT CANCEL							

Calls between 12/1/18 0	9:38 AM and 1	/2/19 11:38 AM	
Download Media		, <b>, , , , , , , , , , , , , , , , , , </b>	$\mathbf{X}$
Agent Johnson, Bob		Started Dec 31, 2018 1:56:38 PM	Duration 00:00:29
Duration Calls Audio Segments Video Segments			
<ul><li>Video</li><li>Sha</li><li>Basic</li><li>Adva</li></ul>			
File Format ● WAVE ● MP3 ● WEBM			
<ul> <li>Digitally Sign</li> <li>Audio Encoding</li> <li>ALAW</li> <li>MPEG1L3</li> <li>OPUS</li> <li>PCM_SIGNED</li> <li>ULAW</li> </ul>		Audio Mixing Mono Multi-Track Stereo	SUBMIT CANCEL

## Figure 14-42: Advanced Video Download

# **Downloading Video and Screen Sharing Call**

This section describes how to download a Video and Screen Sharing call.

### To download a video and screen sharing call:

- **1.** Follow the instructions in Searching for Calls to search for the call to download.
- 2. From the Media Type drop-down list, select Sharing.
- 3. Select the Video and Screen Sharing session you wish to download.
- 4. Select the Sharing check box.

_			
Calls between 7/1/18 03:32	PM and 1/22/19 05:32 PM		
Download Media			$\mathbf{X}$
Agent	Started	Durat	ion
Kling, Brian	Nov 13, 2018 5:01:44 PM	00:14:	08
Duration Calls Sharing Segments Video Sharin Basic Advance	ng		
File Format WAVE MP3 WEBM			
		SUBMIT	CANCEL

## Figure 14-43: Downloading a Video and Screen Sharing Call

**5.** Use the table below as a reference.

Field	Description	Basic/Advanced
Agent	The name of the targeted user associated with this call.	Basic
Started	The call's start time.	Basic
Duration	The call's duration.	Basic
Remove	Click to remove the call from download.	Basic
Duration	Duration for all selected calls.	Basic
Calls	Number of calls selected.	Basic
Video	Select this option to download recorded video. When this option, the video file format WEBM is automatically selected.	Basic
Basic	Basic format for the 'Download Media' screen.	Basic
Advanced	Advanced format for the 'Download Media' screen.	Basic

Field	Description	Basic/Advanced
File Format	Option to select the format of the downloaded file:	Basic
	Audio:	Basic
	Wave	
	MP3	
	Video:	Basic
	WEBM	
	Video and Screen Sharing:	Basic
	WEBM	
Digitally	Add a Digital Signature to download call. See	Advanced
Sign	<u>Configuring a Digital Signature</u> for more details. This feature is only supported for Audio downloads.	
Audio	Option to select the encoding of the downloaded	Advanced
Encoding	file:	
	ALAW MPEG1L3	
	Opus	
	PCM_Signed	
	ULAW	
Video Encoding	VP8	Advanced

Field	Description		Basic/Advanced
Mixing	Option to select the mixing of the downloaded file.		Advanced
	Mono	All audio tracks from the selected call will be mixed into a single mono track in the downloaded file.	Advanced
	Multi-Track	All tracks from the selected call will be placed on a separate track within the downloaded media file.	Advanced
	Stereo	Audio of each side of a call will be placed on a separate track within the downloaded media file.	Advanced

6. Click SUBMIT to download and save the file on the local computer.

# **Downloading Call Transcripts**

You can download call transcripts. This action requires call download permissions.

### > To download transcripts:

1. Click Download Transcript

T

### Figure 14-44: Download Transcript

Opening ST-Teams4	17_ST-Teams4	7_2021_11_30	_08.26.33.vtt	×	
You have chosen to	o open:				
ST-Teams47	_ST-Teams47	_2021_11_30	_08.26.33.vtt		
which is: vtt	File				
from: https://	/msftcert54st	meetinginsig	hts.net		
What should Firef	ox do with th Browse	nis file?			
● <u>S</u> ave File					
			OK	Cancel	

2. Browse to select the desired application to open the VTT file.

Figure 14-45: Example Downloaded Transcript

WEBVTT
1
0:00:00.050> 00:00:07.260
Then I need to talk to her. There you go. You got something in life story, so we're going to begin with
their first. Let's dig in as little bit far away.
2
0:00:13.740> 00:00:42.290
hey guys welcome back to another episode of gals today i have with me best and now you are legit and i
know that because i saw a couple of videos you're a producer at mba which is the studio across the
street right across the hall and feels like across this feels like a cross right million miles away so
i know i've heard of you have seen you on the internet i'm like i gotta have this growing girls and i
need to talk to her there you got something in life story so we're going to figure out their first
little bit far away
Titble bit fat away
3
00:00:48.730> 00:00:53.160
Hey guys, welcome back to another episode of Gals Today I have with me best.

#### **To delete call transcripts:**

Click to delete a transcript. This action requires Delete transcription permissions in the Security Profile (see Managing Security Profiles on page 35).

# **Emailing Call Recordings**

You can send call recordings to an email address. Note that when this option is selected, only the audio components of the call are sent to an email address.



Video components cannot be sent by email.

### ➤ To email a call:

- **1.** Follow the instructions in Searching for Calls to find the call to email.
- 2. Select the call entry to email and then click the email button (); the Email screen opens.

Calls between 12/1/18	L2:01 PM and 1/2/19 02:01 PM
Email	
To ->	
Cc ->	
Bcc ->	
Subject:	
Attachments:	Johnson, Bob_2018_12_31_01_55_48_000.wav
Body:	
	SUBMIT CANCEL

- **3.** Use the table below as reference. Enter the recipient's email addresses, or select from the dropdown.
- 4. Enter Cc and Bcc recipients if appropriate.
- 5. Enter Subject and Body.

Table 14-7:	Email – Field	Descriptions
-------------	---------------	--------------

Field	Description
To > Cc > Bcc >	Clicking the To>, Cc>, Bcc> buttons expands and collapses the list of users within the current user's group(s). Selecting/deselecting users from this list adds / removes them. The recipient list is a comma separated list of email addresses in the format 'jsmith@example.com'. The recipient list may also include the display name of the recipient. To add a display name for a recipient, the recipient's email address should be in angled brackets, for example: John Smith <jsmith@example.com></jsmith@example.com>
Subject	Subject of the email.
Attachments	List of attachments included with this email message. Clicking the X next

Field	Description
	to the attachment removes the attachment from the email.
Body	Body of the email.
SUBMIT	Sends the email.
CANCEL	Cancels the email.

6. Click SUBMIT to send the email.

# **Using Call Tagging**

Call Tagging can be implemented by either the network administrator defining tags allowing users to enter data manually on their screen during the course of a call, or via a third-party application. Calls can be tagged with relevant information and subsequently used for quick and easy retrieval. Call Tagging provides the following benefits:

- Categorizes calls by type or outcome, making searches easy (i.e., Malicious, Account ID, etc.). By default, the Notes tag is already defined within the system.
- Saves money by dramatically reducing the time to find individual recorded calls.
- Improves internal processes by using the call tags as searchable data fields for other applications.

Field	Description
Tag Name	User-defined meaningful name to be displayed to administrators when selecting a tag from the management interface.
Tag Description	Administrator-defined description of the purpose of the tag.
Input Type	Define the field type for the tag:
	<b>None</b> (Tag requires no administrator input)
	<b>Text</b> (the 'Notes' field supports a maximum of 256 characters)
	<b>Boolean</b> (Select/clear the checkbox: Yes / No or True / False)
	Select_One (Define a list of options for the administrator to choose from, i.e., Excellent, Very Good, Good, Poor)
Allow Private	Allows an administrator to add the tag as private. Once tagged as private,

Table 14-8: Call Tagging Fields

Field	Description
	only the specific administrator account will be able to view the tag.
SUBMIT	Applies changes.
CANCEL	Cancels changes.

# Adding a Call Tag

This section describes how to add a new call tag.

## > To add a new Call Tag

1. Open the Call Tagging screen (System tab > System folder > Call Tagging > Add Tag).

Add Tag	
Tag Name	
Tag Description	
Input Type	<ul> <li>NONE</li> <li>TEXT</li> <li>BOOLEAN</li> <li>SELECT_ONE</li> </ul>
Allow Private	
	SUBMIT

## Table 14-9: Call Tagging Fields

Field	Description
Tag Name	Administrator-defined Tag name. Enter the tag name to the filter list.
Tag Description	Administrator-defined description of the purpose of the tag, to expedite management efficiency. Easily sorts column A-Z or Z-A.
Input Type	<ul> <li>Tag Type:</li> <li>None (Tag requires no user input)</li> <li>Text (the 'Notes' field supports a maximum of 256 characters)</li> <li>Boolean (Select/clear the checkbox: Yes / No or True / False)</li> </ul>

Field	Description
	Select_One (Define a list of options for the user to choose from, i.e., Excellent, Very Good, Good, Poor)
	Mask (Use with Text Tag Types): May be defined for Text input type. If defined, the tag value must conform to the MASK. If undefined, the tag value can be any combination of printable characters: *(Any printable character) #(Must be a digit: 0-9) A(Must be a letter: A-Z, a-z) \$(Must be alpha or numeric: A-Z, a-z, 0-9) \(Following character is a fixed literal character) '' (All characters within single quotes are a fixed literal string) For example, the mask for a tag with the format 'Sales-'########A\$ will
	accept user inputs like Sales-1234567QA OR Sales-9876543P2, etc.
	Click to view tag details.
Ī	Click to delete tag.
SUBMIT	Apply changes.
CANCEL	Cancel changes.

# Viewing / Deleting a Call Tag

The View / Delete Call Tags screen below indicates how to view and/or delete a call tag.

- > To view or delete Call Tags:
- Open the Call Tagging screen (System tab > System folder > CallTagging > View/Delete Call Tags).

View/Delete Call Tags					
Tag Name	Tag Description 🗘	Input Type 🗘	Input Format	View	Delete
Note	Notes about the call.	TEXT		Q	Ī
Company	Company Name	TEXT		P	Î
Malicious Call	Malicious Call	NONE		Q	Ī
Account ID	Customer Account ID	TEXT	AA'-'#####	Q	Ī
Follow Up	Requires Follow Up	BOOLEAN		Q	Ī
Feedback	Customer Feedback	SELECT_ONE	[Great, Poor, Good, Very Good]	Q	Ē
Test	Test	TEXT		Q	Î
Service Request	Ticket ID Number	TEXT	'SR#'######	Q	Ī
Sales Order	Sales Order Number	TEXT	'SO#'#######	Q	Ī
Bus Dev	Interop Partner	NONE		P	Î
File	File related to the call	TEXT		Q	Î
Content	Notes about the call.	TEXT		Q	Ē
Subject	Notes about the call.	TEXT		Q	Ī
Participants	Notes about the call.	TEXT		P	Î
ActionItem	Notes about the call.	TEXT		Q	Ē
text	Notes about the call.	TEXT		P	Î
Tittle	Notes about the call.	TEXT		Q	Ī
Participents	Notes about the call.	TEXT		Q	Î
Listening Reason	Reason why a user played a call	TEXT		Q	Î
guy	test	BOOLEAN		Q	Ō
	20 ▼	1 >> > (1 of 1	)		

#### Figure 14-46: View/Delete Call Tags Screen

# Assigning Values to a Call Tag and Applying to Call

This section describes how to apply a call tag to a call.

#### > To apply a call tag:

- **1.** Search for call records (see Searching for Calls).
- 2. Select the call record to tag and ensure that the Tags column is displayed.
- **3.** Double-click the Tags icon in the call record.
- 4. In the Tag field, select the type of tag that you wish to add and enter the desired value in the Value field.
- 5. Select the Private check box to list a personal reminder (only visible to the person defining the tag).
- 6. In the Value field, enter the text note that you wish to assign to the tag. In the example below "Schedule Meeting" (see highlighted in the figure below).
  - Click

7.

Figure 14-47: Assigning a Call Tag

Name	Start Time			Durat	ion	Select	Direction 🔻	Release Cause Select	▼ Tags	Select
Johnson, Bob	Dec 31, 2018 1:59:	54 PM		00:0	1:17		OUTGOING	NORMAL	0	
Johnson, Bob	Dec 31, 2018 1:56:	38 PM Add and Rem		00:0	0:29	ж	OUTGOING	NORMAL	Ø	
Johnson, Bob	Dec 31, 2018 1:55	Tag	Date Added	Added By	Value	Private	UTGOING	NORMAL	0	
Johnson, Bob	Dec 31, 2018 1:36	ActionItem	Jan 6, 2019 2:31:52 PM	Danielle Mast	Schedule Meeting		UTGOING	NORMAL	Ø	
Johnson, Bob	Dec 31, 2018 1:32		··· ·· ·· 1	►> ►1 (1			UTGOING	NORMAL	Ø	
ct a call		Tag: Select	One v Value:		Private		(1 of 1)			
0.00						0.00		0.00		0.00

# **On-Demand Recording**

The On-Demand Recording configuration is used for synchronization between the paired Bot machines in the Microsoft Teams Active-Active setup. The On-Demand Configuration parameters are preconfigured in the automation scripts as part of the initial setup of SmartTAP on Microsoft Teams and can be updated using this menu option.

### **To configure On-Demand:**

 Open the On-Demand Configuration page (System tab > Redundancy folder > On-Demand Configuration).

On-Demand Configuration	
Service bus connection string Local	••••
Service bus subscription Local	
Service bus connection string Remote	
	SUBMIT

#### Table 14-10:On-Demand Configuration

Parameter	Description
Service bus connection string Local	The connection string of the local Service bus in the Active Act- ive setup.

Parameter	Description
Service bus subscription Local	The subscription that is used for sending messages from the local to the remote service bus.
Service bus connection string Remote	The connection string of the remote Service bus in the Active Active setup.

## **15 Managing Instant Messages**

Instant Messages are managed in the Search Messages Navigation screen, under the Messages tab. These messages reflect either person-to-person chat between two users or group chat between two or more users. When you select a conversation record (as shown below), you can view the action conversation made between the parties (as shown below).



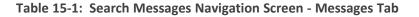
System Users	Status	- 1	Instant	Messages betwe	een 6/1/18 02:55 PM and 1/2/19	9 04:55 PM				
Calls Messag	es Evaluation	<		User 🗘	First Message Time	\$	Last Message Time	٥	Messaging Parties	Chat Type Select •
From: 6/1/18	2 ¥ 55 ¥ PM		0	Adar, Tania	Nov 21, 2018 8:28:48	РМ	Nov 21, 2018 8:32:38 PM		sip:debajyoti.dutta@audiocodes.com; Adar, Tania	CHAT
	4 ¥ 55 ¥ PM		0	Adar, Tania	Nov 21, 2018 7:59:02	РМ	Nov 21, 2018 8:05:41 PM		Adar, Tania; sip:alejandro.orta@audiocodes.com	CHAT
Active Users	tive Users						10 🔻 🗔 🔫	1	▶> ▶: (1 of 1)	
Users Groups										
Users:										
Adar, Tania										
agenttest1										
aitest, aitest										
Alyil veedu dhruva, F	u									
Analytics User, Analy	ics User									
Bauer, Eric										
Broker, Analytics										
Burke, Aemon										
Campos, Jose										
Carosella, Gino										
14 4	P> P1									
Text:										
Search										

Figure 15-3: Figure 15-2: Instant Message Display-Skype for Business

Instant	Messages	s between 12/1	/18 09:07 AM and 12/26/18 1	1:07 AM						
	User	٥	First Message Time	\$	Last Message Time	\$ M	lessaging Parties		Chat Ty Select	
0	Mast, (	Danielle	Dec 26, 2018 11:05:45	AM	Dec 26, 2018 11:06:32 AM	м	last, Danielle; sip:user20	@sfb2019.lab	CHAT	
		Begin Time 12/1/18 End Time: 12/26/18	a: 9 V 07 V AM V 11 V 07 V AM V	Searc	h text:	Mast,	cipants: , Danielle ser2@sfb2019.lab		port To:	
					Subject:				_	
								sip:user2@sfb2019.lab <b>Hello</b> Dec 26, 2018 11:05:45	АМ	Ô
	BARFIL	Mast, Dar Hi Dec 26, 2	nielle 018 11:05:49 AM							
								sip:user2@sfb2019.lab How are you? Dec 26, 2018 11:05:55	АМ	2
Į	Annual Marria	Mast, Dar fine, that Dec 26, 2								
[	Same a	Mast, Dar And you Dec 26, 2								
								sip:user2@sfb2019.lab Great		

Syste	em	Use	rs	Status				
Call	s	Messa	iges		<			
From: To:	From:         1/20/21         9         27         PM         >           To:         1/20/21         11         27         PM         >							
Activ	e Use	rs 🗌 In	active	Users				
Use	ers C	) Group	s					
Users:								
Sele	ct All							
ST-Tea	ms10	0						
ST-Tea	ms30							
ST-Tea	ms31							
ST-Tea	ms32							
Teams	TestU	ser2						
Teams	TeamsTestUser5-E5							
User (	User (PLEASE DELETE), Initial							
-	I ≪ ►> ►I (1 of 1)							
Text:								
Search	Search							

Figure 15-4: Search Messages



Field	Description
From:	Earliest date and time to search from.Click the date field for a calendar to pop up showing one month at a time. Use the dropdown to change the time of day.
То:	Latest date and time to search to.Click the date field for a calendar to pop up showing one month at a time. Use the dropdown to change the time of day.
Active Users	Users whose account is enabled in the SmartTAP 360° application.
Inactive Users	Users whose account has been deleted from the SmartTAP 360° application.
Users	Only Users will be listed in the Search list. Either the Users or the Groups option must be selected.
Groups	Only Groups will be listed in the Search list. Either the Users option or the Groups option must be selected.

Field	Description
Users (list)	Select the User to search for by clicking their name. To select multiple Users, hold down the <ctrl> key and click each User to search for. To select a range of Users, hold down the <shift> key, click the User at the top of the range and the User at the bottom of the range.</shift></ctrl>
Groups (list)	Select the Group to search for by clicking its name. To select multiple Groups, hold down the <ctrl> key and click each Group to search for. To select a range of Groups, hold down the <shift> key, click the Group at the top of the range and the Group at the bottom of the range. Calls for all users in the groups selected will be searched.</shift></ctrl>
Text	Searches for message conversations that contain the entered text. The search string may contain words to search for, and 'operators' (AND, NOT, words contribution, exact match, and more) to specify search criteria.
Search	Click to search and display results.

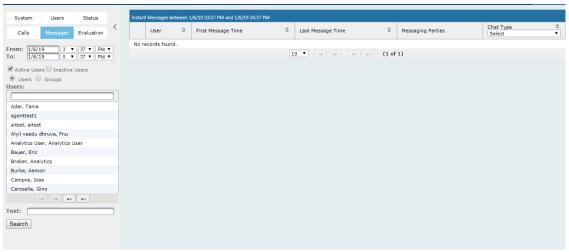
## **Searching for Messages**

This section shows how to search for messages.

#### ➤ To search for messages:

1. Click the Messages tab to open the Search Messages screen.

Figure 15-5: Instant Message Search



2. In the Search Navigation screen (left side of the screen), enter the time range, and then select the type of Users.

⚠

When searching for messages within a time range, only conversations that contain messages within the provided time range will be returned in the search results.

- 3. Select either the Users or the Groups option.
  - Selecting the User option changes the display below to show a list of Users.
  - Selecting the Groups option changes the display below to show a list of Groups and Sub Groups (if the Search Sub Groups option is selected).
- 4. Select one of more User or Groups by highlighting them in the list (see the notes above on Search Calls Navigation screen fields and on how to select more than one User or Group).
- 5. Optionally, enter the text for search output conversations to contain. Instant messages and conversations can be filtered using SmartTAP 360°'s Full-Text search feature built on top of 'MySQL Boolean Full-Text Search'. The search field value is logically ANDed and applied to the instant messages search criteria. All instant message conversations that have at least one message with the matching search text as part of the message body will be displayed in the instant message conversations table. MySQL Boolean full-text search supports the operators shown in the table below. More detailed examples can be found inside MySQL online documentation, available at <a href="http://dev.mysql.com/doc/refman/5.6/en/fulltext-boolean.html">http://dev.mysql.com/doc/refman/5.6/en/fulltext-boolean.html</a>
- 6. If files are sent between two call parties, you can search for the filename in the free 'Text' field (see example "File Transfer Messages" in Searching for Messages).

Operator	Description	Example
+	A leading or trailing plus sign indicates that this word must be present in each message that is returned.	'+apple +juice' Find messages that contain both words.'+apple juice'Search messages that contain the word 'apple', but rank rows higher if they also contain 'juice'.
-	A leading or trailing minus sign indicates that this word must not be present in any of the rows that are returned.	'+apple -juice'Find messages that contain the word 'apple' but not 'juice'.
(no operator)	By default (when neither + nor - is specified), the word is optional, but the conversations or messages that contain it are rated higher.	'apple -juice'Search rows that contain at least one of the two words.
@distance	It tests whether two or more words all start within a specified distance from	"word1 word2 word3" @8'Search for matching

Operator	Description	Example
	each other, measured in words.	messages where word1, word2 and word3 are separated by a distance of 8 words from each other.
><	These two operators are used to change a word's contribution to the relevance value that is assigned to a conversation or message. The > operator increases the contribution and the < operator decreases it.	'+apple +(>turnover <strudel)'find messages="" that<br="">contain the words 'apple' and 'turnover' or 'apple' and 'strudel' (in any order), but rank 'apple turnover' higher than 'apple strudel'.</strudel)'find>
()	Parentheses group words into subexpressions. Parenthesized groups can be nested.	
~	A leading tilde acts as a negation operator, causing the word's contribution to the message's relevance to be negative. A message containing such a word is rated lower than others, but is not excluded altogether, as it would be with the - operator.	'+apple ~macintosh'Find messages that contain the word 'apple', but if the message also contains the word 'macintosh', rate it lower than if message does not.
*	The asterisk serves as the truncation (or wildcard) operator. Unlike the other operators, it is appended to the word to be affected. Words match if they begin with the word preceding the * operator.	'apple*'Find messages that contain words such as 'apple', 'apples', 'applesauce' etc.
"	A phrase that is enclosed within double quote (""") characters matches only rows that contain the phrase literally, as it was typed.	"some words"Find messages that contain the exact phrase "some words".



Some words (also known as stopwords) are ignored in full-text searches. In SmartTAP 360°, the minimum length of the word for full-text searches is 2.

- **7.** Click to start the search for the Messages matching the search criteria; the results are displayed in the Search Messages Results screen to the right.
- 8. From the Chat Type drop-down list, select either Chat or Group Chat; the results are filtered accordingly.

Instant	Messages between (	5/1/18 03:37 PM and 1/6/19 05:37 PM	л		
	User 🗘	First Message Time 🗘	Last Message Time 🗘 🗘	Messaging Parties	Chat Type Select ▼
0	Adar, Tania	Nov 21, 2018 7:59:02 PM	Nov 21, 2018 8:05:41 PM	sip:alejandro.orta@audiocodes.com; Adar, Tania	CHAT
0	Adar, Tania	Nov 21, 2018 8:28:48 PM	Nov 21, 2018 8:32:38 PM	sip:debajyoti.dutta@audiocodes.com; Adar, Tania	CHAT
0	Mast, Danielle	Dec 26, 2018 11:05:45 AM	Dec 26, 2018 1:34:40 PM	sip:user2@sfb2019.lab; Mast, Danielle	CHAT
0	Mast, Danielle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2@sfb2019.lab; Mast, Danielle; sip:user3@sfb2019.lab	GROUPCHAT
			50 🔻 🖂 🤜	1 🕟 🕞 (1 of 1)	

Figure 15-6: Search Messages Results-Person-to-Person Chat



Instar	nt Messages betwee	n 6/1/18 03:37 PM and 1/6/19 05:37	РМ		
	User 🗘	First Message Time 🗘	Last Message Time 🗘	Messaging Parties	Chat Type GROUPCHAT ▼
0	Mast, Danielle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2@sfb2019.lab; Mast, Danielle; sip:user3@sfb2019.lab	GROUPCHAT
			50 🔻 🖂	1 🕨 🖬 (1 of 1)	

The search result fields are described in the table below.

Table 15-3: Search Messages Results

Field	Description
User	The username. When this field is clicked, the search results are sorted in Ascending/Descending order, alternating with each click.
First Message Time	Date and time of the first message in the conversation. Clicking this header sorts the search results in Ascending/Descending order, alternating with each click.
Last Message Time	Date and time of the last message in the conversation. When this field is clicked, the search results are sorted in Ascending/Descending order, alternating with each click.
Messaging Parties	The messaging parties who sent or received the conversation messages.
Chat Type	<ul> <li>The following chat types can be filtered:</li> <li>Chat: person-to-person chat</li> <li>Group Chat: chat for two or more persons. For Group Chat, the Conference ID is also displayed.</li> </ul>

9. Click the arrow adjacent to the message whose conversation details you wish to view.

Example conversations are displayed below. Note that when files are sent between two parties, the file information is also displayed in the conversation dialog (see example "File Transfer Messages" in Searching for Messages).

Instan	t Message	s between 6/	1/18 03:37 PM and 1/6/19 05:37 F	M						
	User	\$	First Message Time	≎ Last Me	essage Time	٥	Messaging Parties		Chat Type CHAT	\$ •
0	Adar, T	ania	Nov 21, 2018 7:59:02 PM	Nov 21	, 2018 8:05:41 PM	1	sip:alejandro.orta@audioo	codes.com; Adar, Tania	CHAT	
		Begin Tin 6/1/18 End Time 1/6/19	3 ▼ 37 ▼ PM ▼	Search text	:		Participants: sip:alejandro.orta@auo Adar, Tania		ort To:	
		Adar, Ta Hello A Nov 21,								•
		Adar, Ta Hello A Nov 21,								I
								sip:alejandro.orta@audiocodes.c <b>Hi Tania</b> Nov 21, 2018 8:00:16 PM	om	
		#12345	u please approve the transact	ion						ł
								sip:alejandro.orta@audiocodes.c Let me check Nov 21, 2018 8:01:03 PM	om	
								sip:alejandro.orta@audiocodes.c yes the transaction is approve Nov 21, 2018 8:01:45 PM		
		Adar, Ta Great!	<sup>ania</sup> Thank you							•
0	Adar, T	ania	Nov 21, 2018 8:28:48 PM	Nov 21	, 2018 8:32:38 PM	1	sip:debajyoti.dutta@audio	ocodes.com; Adar, Tania	CHAT	
0	Mast, D	anielle	Dec 26, 2018 11:05:45 AM	Dec 26	, 2018 1:34:40 PM	1	sip:user2@sfb2019.lab; M	1ast, Danielle	CHAT	
				50 🔻	14 <4 1	L 🕨	▶ (1 of 1)			

Figure 15-8: Search Messages Results-Person to Person Chat

Instan	t Message	es between 6	/1/18 03:37 PM and 1/6/19 05:37 Pl	м		
	User	٥	First Message Time 🗘 🗘	Last Message Time 🗘 🗘	Messaging Parties	Chat Type 🗘 GROUPCHAT 🔻
0	Mast,	Danielle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2@sfb2019.lab; Mast, Danielle; sip:user3@sfb2	2019.lab GROUPCHAT
		Begin Ti 6/1/18 End Tim 1/6/19	3 ▼ 37 ▼ PM ▼	Search text:	Participants: sip:user2@sfb2019.lab @ Mast, Danielle @ sip:user3@sfb2019.lab @ v	Export To:
		Conferer [sip:user	nce Ids: 2@sfb2019.lab;gruu;opaque=a	pp:conf:chat:id:14W62Z79]		
					Hello	r2@sfb2019.lab , 2018 2:04:48 PM
		_				
	Same Party	Mast, C Hi	Danielle			
		Dec 26	, 2018 2:04:56 PM			
					Hello	r3@sfb2019.lab , 2018 2:05:08 PM
					How an	r2@sfb2019.lab re you? , 2018 2:05:26 PM
		_				
	Same La	Good	Danielle , 2018 2:05:42 PM			
		Decis				
					Great	r3@sfb2019.lab
				50 🔻 📢 🤜	1	

#### Figure 15-9: Group Chat Recording

Instant	Messages between	6/1/18 04:14 PM and 1/6/19 06:14 PM	И				
	User 🗘	First Message Time 🗘	Last Message Time 🗘 🗘	Messaging Parties		Chat Type Select	\$ •
0	Adar, Tania	Nov 21, 2018 7:59:02 PM	Nov 21, 2018 8:05:41 PM	sip:alejandro.orta@audiocodes.com; Ac	lar, Tania	CHAT	
0	Adar, Tania	Nov 21, 2018 8:28:48 PM	Nov 21, 2018 8:32:38 PM	sip:debajyoti.dutta@audiocodes.com; A	dar, Tania	CHAT	
0	Mast, Danielle	Dec 26, 2018 11:05:45 AM	Dec 26, 2018 1:34:40 PM	sip:user2@sfb2019.lab; Mast, Danielle		CHAT	
	Begin T 6/1/18 End Tim 1/6/19	4 ▼ 14 ▼ PM ▼	Search text:	Participants: sip:user2@sfb2019.lab Mast, Danielle	Export	: То:	•
Į	same And y	Danielle <b>017</b> 5, 2018 11:06:18 AM			sip:user2@sfb2019.lab <b>Great</b> Dec 26, 2018 11:06:25 AM	ß	
Į	same Have	Danielle a nice day 5, 2018 11:06:32 AM					l
				sip:user2@sfb2019. File: SMART Size: 6150 Ki Status: sent Dec 26, 2018 12:24	AP_Administrator_Guide.pdf 3	0	l
Į	same Thank	Danielle ( <b>you</b> 5, 2018 12:28:13 PM					l
					sip:user2@sfb2019.lab You are welcome Dec 26, 2018 12:28:40 PM	- Ô	•
0	Mast, Danielle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2@sfb2019.lab; Mast, Danielle;	sip:user3@sfb2019.lab	GROUPCHAT	
			10 🔻 🗔 🤜	1 🕟 📧 (1 of 1)			

#### Figure 15-10: File Transfer Messages



Field	Description
Begin Time	Specifies the time of the first message of the conversation.
End Time	Specifies the time of the last message of the conversation.
Search text	Filters the conversation display to show messages containing the search text. In addition, this field allows the searching for filenames (where Files have been transferred between parties).
Participants	Parties who received or sent messages of the conversation.
T	Filter the conversation to display messages of a specific participant.
PDF	Export the conversation messages to a PDF file (including file transfer information from messages).



SmartTAP 360° displays a collection of messages in one conversation based on the time and participants.

#### **Microsoft Teams Instant Messages**

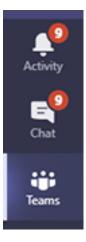
SmartTAP utilizes Microsoft Graph Teams Export API for recording Microsoft Teams Chat messages. The TerraSmart deployment script creates the "ims-app" for accessing Microsoft Teams Instant Messages. Customers using AudioCodes Azure subscription must provide consent for reading and recording Microsoft Teams user chat messages (refer to the *SmartTAP Hardware and Software Requirements*).

Before you can view Instant Messages, Microsoft Teams prerequisites and licenses must be installed as described at: <u>Prerequisites to access Teams Export APIs.</u>

Instant messages are stored in the **database** and not on storage disks.

Microsoft Teams Instant Message features include:

- When editing a chat message, the new message content will be replaced with the original one, and "This message has been edited" is displayed.
- When deleting a chat message, the content of the message will still be displayed, and "This message has been deleted" is displayed.
- Clicking 'Undo' on deleted message will be considered as edited.
- HTML based messages, such as Formatted\Tables\Links are not supported (only the content is displayed).
- Text formatting is not reflected in Teams Chat messages (Bold\Underline\Italic\etc.).
- Emojis, Gifs and any other special content will not be displayed in Teams chat messages.
- Channel messages are not supported.
- URLs of attached or transferred files are displayed in SmartTAP when a chat is included the attachment/transfer (see below).



rstan	t Message	es between	12/20/20 12:10 PM and 12/20/20	02:10 PM						
	User	¢	First Message Time	0	Last Message Time	¢	Messaging Parties		Chat Type Select	4 0
•	Test	Begin T 12/20/2 End Tim 12/20/2 Test Hil Ti Attac Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte myss logix, Files/ Name Conte Martin Conte	Dec 20, 2020 2:08:29 PM ime: 0 12 10 PM PM et: 0 2 10 PM PM m sending you files. https://smarttap- ner/Documents/Microsoft Tea attach1.bt et: attach3.txt i: attach3.txt	Search tex testuser2_ai- ms Chat testuser2_ai- ms Chat	Dec 20, 2020 2:08:29 PM	Participants: Test 51-Teams100	Test; ST-Teams100	8	CHAT Export To:	•
		logix, Files/	arepoint.com/personal/teams .net/Documents/Microsoft Tea attach2.bxt 0, 2020 2:08:29 PM	testuser2_ai- ms Chat						

## **16 Using the Evaluation Feature**

The Evaluation tab accesses all functions related to the SmartTAP 360° evaluation feature.From under this tab, evaluation forms to be used for evaluations are created. Later, evaluation reviews and reports can be generated. The Evaluation Forms screens, shown in the figure below, provides access to all evaluation-related features.

Evalu	Evaluation Forms					
	- New Form					
	ame:					
	escription: Add					
	Name (click to change) 🗘	Status	Finalized Date ♀	Modify	View/Copy	Delete
	Agent Scoring	FINAL	Apr 24, 2018	Houny	P P	Delete
*	Agent Scoring Draft	DRAFT	N/A		Q	Ē
*	Agentscoring 002	DRAFT	N/A		Q	Ē
	Customer Service	FINAL	Nov 17, 2014		Q	
*	<u>guy yest</u>	DRAFT	N/A	Ø	Q	ā
	Sales	DRAFT	N/A		Q	Ē
	test	FINAL	Sep 7, 2017		Q	
	(1 of 1)	I	« <b>1</b> » H	10 🔻		

#### Figure 16-1: Evaluation Forms – New Form Subscreen

Use the table below as reference.

Table 16-1: Evaluation Forms – New Form Subscreen

Field	Description
— New Form	Click to close the Add Form sub screen.
+ New Form	Click to open the Add Form sub screen.
Name (in the New Form menu)	The name of the new form.
Description (in the New Form menu)	The description of the new form.

Field	Description
Add (in the New Form menu)	Click to create a new form.

This section includes the following procedures:

- Adding a New Evaluation Form below
- Viewing and Copying an Evaluation Form on page 185
- Adding a New Section [Evaluation Forms] on page 186
- Adding Questions and Answers to an Evaluation Form on page 187
- Finalizing Forms on page 190

#### **Adding a New Evaluation Form**

This section describes how to add a new evaluation form.

#### To add a new evaluation form:

- Open the Evaluation Forms screen (Evaluation tab > Evaluation Folder > Evaluation Forms).
- 2. In the New Form subscreen, enter the Name of the new form and a Description.
- 3. Click Add to create the form
- 4. The new form is added to the display with an (asterisk) **\*** on the rightmost column.
- 5. Use the Modify button to define the form.

#### **To rename a form:**

- 1. Open the Evaluation Forms screen (Evaluation tab > Evaluation folder > Evaluation Forms).
- 2. In the Evaluation Forms screen, click the 'Name' of the form to rename.
- 3. Change the Name and/or Description of the form in the 'New Form' subscreen.
- 4. Click Add to rename the form.

Evalu	Evaluation Forms					
	Change Name					_
N	ame:	Agent Scori	ng			
D	escription:	Agent Scori	ng Evaluation form			
(	Change Cancel					
	Name (click to change) $ \diamondsuit $	Status	Finalized Date 🗘	Modify	View/Copy	Delete
	Agent Scoring	FINAL	Apr 24, 2018		Q	
*	Agent Scoring Draft	DRAFT	N/A	Ø	Q	Ō
*	Agentscoring 002	DRAFT	N/A		Q	Ī
	Customer Service	FINAL	Nov 17, 2014		ρ	
*	<u>guy yest</u>	DRAFT	N/A		ρ	Ē
	Sales	DRAFT	N/A	Ø	Q	Ō
	test	FINAL	Sep 7, 2017		Q	
	(1 of 1	L) 🗔	< 1 » »	10 🔻		

#### Figure 16-2: Evaluation Forms

#### Table 16-2: Evaluation Forms – Field Descriptions

Field	Description
— New Form	Click to close the Add Form subscreen.
+ New Form	Click to open the Add Form subscreen.
Name (click to change)	Form Name sorted ascending/descending by clicking header up/down arrows.
Status	FINAL (the form is final and available for use for evaluations. FINAL status forms cannot be changed)
	DRAFT (the form can be edited. DRAFT forms are not available for use for evaluations)
Finalized Date	<ul><li>(date) (Date when the form was finalized)</li></ul>
	N/A(Not Applicable; the form is not finalized)
*	The form is not completed and cannot be finalized.

Field	Description
	Click to modify the form.
Q	Click to view or copy the form.
Ē	Click to delete the form.



v Evaluat	tion form Agentscoring 002						
- Section Greeting							
	The agent thanked the customer for calling						
Q:	a: Yes	1 pt.					
	a: No	0 pt.					
	The agent mentioned their company name						
Q:	a: Yes	1 pt.					
	a: No	0 pt.					
	The agent identified themselves to the customer						
Q:	a: Yes	1 pt.					
	a: No	0 pt.					
	The agent stated that the call is being recorded						
Q:	a: Yes	1 pt.					
	a: No	0 pt.					
- Sec	tion Account Verification						
	The agent verified account						
Q:	a: Yes	1 pt.					
	a: No	0 pt.					
- Section djgztd No records found.							

## Viewing and Copying an Evaluation Form

This section describes how to view and copy an evaluation form.

#### **To view/copy an evaluation form:**

- 1. Open the form to view or copy by clicking the View/Copy button in the row associated with the form in the Evaluation Forms main screen.
- 2. Enter the Name for the new form and click Copy As
- The View closes and the new form is added to the list of forms in the 'Evaluation Forms' screen.
- 4. Add a New Section.

## Adding a New Section [Evaluation Forms]

This section describes how to add a new section to an evaluation form.

#### > To add a new section to an evaluation form:

- 1. Open the form (Evaluation tab > Evaluation folder > Evaluation Forms).
- 2. Click on the row listing the form to change to open it.

#### Figure 16-4: Sections of Evaluation Form – New Section Sub-screen

Sections of Evaluation Form: Agentscoring 002						
- New Se	ection					
Name: Descriptio Add Sectio						
	Name (click to change)	Max. Points	Weight	Modify	Delete	Move
	Greeting	4	80%		Ō	up <u>down</u>
	Account Verification	1	20%		Ē	<u>up down</u>
*	<u>djgztd</u>	0	0%		Ē	<u>up</u> down
			Back			

- **3.** [Use the table below as reference] Enter the new section Name and Description in the New Section sub-screen.
- Click Add Section to create the new section; the new Section appears in the form with an asterisk \* on the leftmost column indicating that the form is missing fields and cannot be finalized.

Field	Description
- New Section	Click to close the New Section subscreen.
+ New Section	Click to open the New Section subscreen.
Name (in new section subscreen)	The name of the new Section.
Description	The description of the new Section.
Add Section	Create a new section.

 Table 16-3: Sections of Evaluation Form – Field Descriptions

## Adding Questions and Answers to an Evaluation Form

This section describes how to add questions to an evaluation form.

#### > To add New Questions [Evaluation Forms]:

#### Figure 16-5: Sections of Evaluation Form – New Questions Sub-screen

Questions of Evaluation	Form:	Agentscoring 002 Secti	on: Greeting		
- New Questio	n				
Question: Description: Add Question					
		Question (click to change)	Add Answer	Delete	Move
	Q:	<u>The agent</u> <u>thanked the</u> <u>customer for</u> calling <b>a:</b> Yes <b>a:</b> No		Ē	up <u>down</u>
	Q:	<u>The agent</u> mentioned their company name <b>a:</b> Yes <b>a:</b> No			<u>up down</u>
	Q:	<u>The agent</u> identified themselves to the customer <b>a:</b> Yes <b>a:</b> No			<u>up down</u>
	Q:	<u>The agent</u> stated that the call is being recorded <b>a:</b> Yes <b>a:</b> No			<u>up</u> down
			Back		

#### Table 16-4: Sections of Evaluation Form – New Question Sub-screen

Field	Description
- New Question	Click to close the New Question sub-screen.

Field	Description
+ New Question	Click to open the New Question sub-screen.
Question	The name of the new Question.
Description	The description of the new Question.
Add Question	Create a new Question.

#### > To add a New Question:

- **1.** Open the form (**Evaluation** tab > **Evaluation** folder > **Evaluation Forms**).
- 2. Click adjacent to the row of the Form that you wish to change.
- 3. Click to open the row of the Section that you wish to change.
- 4. Enter the new Question Name and Description in the New Question sub-screen.
- Click Add Question to create the new Question; the new Question appears in the form with an asterisk \* on the leftmost column indicating that the form is missing fields and cannot be finalized.

#### To add a New Answer [Evaluation Forms]:

#### Table 16-5: Sections of Evaluation Form – New Answer Sub-screen

Field	Description
Answer	Acceptable answer to the associated question.
Weight	Weight associated with this answer.
Description	Description of the answer.
Instant fail	Check if this answer causes an instant fail during evaluation.
Add	Add new answer.

#### **To add a new answer:**

- 1. Open the form (Evaluation tab > Evaluation folder > Evaluation Forms > Form).
- 2. Click adjacent to the row of the Form that you wish to change.

- 3. Click adjacent to the row of the Section that you wish to change.
- 4. Click adjacent to the row of the Question whose Answer screen you wish to launch.

Figure 16-6: Sections of Evaluation Form - New Answer Sub-screen

Enter Answer Option for Q: Did agent say company name?				
Answer: Weight: Add Cancel	0	Description:		

5. Enter the new Answer information.



You must provide at least two answers for each question.

6. Click Add to create the new Answer; the new Answer will appear in the form with an asterisk \* on the leftmost column indicating that the form is missing fields and cannot be finalized. There is a minimum of two (2) answers required before a form can be finalized.

## **Finalizing Forms**

This section describes how to finalize forms.

#### **To finalize a Form [Evaluation Forms]:**

#### Figure 16-7: Form Subscreen

Sections of Evaluation For	rm: Agent Scoring Draft					
- New Section Name: Description: Add Section						
Add Section	Name (click to	Max. Points	Weight	Modify	Delete	Move
	change)		-			
	Greeting	4	80%		Ē	up <u>down</u>
	Account Verification	1	20%		Ē	<u>up</u> down
			Back Finalize			

#### ➤ To finalize a form:

- 1. Open the form (Evaluation tab > Evaluation folder > Evaluation Forms > Form).
- 2. Click Finalize to open the Finalize Evaluation form subscreen.

3. Click Finalize to change the form status from DRAFT to FINAL; the form Status on the

Evaluation Forms screen changes to FINAL, and is no longer available to change the form.

## **Performing an Evaluation**

An administrator with privileges to perform an evaluation selects a finalized evaluation form, selects the call to evaluate, and from the Perform Evaluation screen, selects the appropriate answers to the questions in the evaluation form. When all answers in the evaluation form are provided, the user may save the evaluation for later review.

Field	Description
Name	The name of the form.
Description	Description of the form.
Select	Select click to select the form.

#### Table 16-6: Select Evaluation Form Screen

Figure 16-8:	Call Search/Selection Evaluation Form

Calls between 1/2/19 03:01 PM and 1/2/19 05:01 PM	- Selection Criteria
From: 1/2/19 3 V 01 V PM V To: 1/2/19 5 V 01 V PM V	Users: Johnson, Bob Jones, Bob Jones, Jones Joseph, Liziya(Manually Added ) Kitlaru, Yaniv Kling, Brian Makowski, Jerry Marrocchi, Ulises (ulisesm) Mast, Danielle
<b>+</b>	
User $\diamondsuit$ Started $\diamondsuit$ Duration $\diamondsuit$	Direction         Release Cause         Media Type           Select         ▼         Select         ▼
	No records found.
20	▼ I4 ≪



Field	Description
From:	Earliest date and time to search from. Click the date field for a calendar to pop up showing one month at a time. Use the drop-down to change the time of day.
То:	Latest date and time to search to. Click the date field for a calendar to pop up showing one month at a time. Use the drop-down to change the time of day.

Field	Description				
Users	Users whose account is enabled in SmartTAP 360°.				
Search	Click to search and display results in the Evaluation screen.				
	Launch the Add and Remove Columns dialog.				
User/Device	User/Device name. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.				
Started	Date and time the call recording started. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.				
Duration	Call Duration. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.				
Direction	Direction of the call. Clicking this header sorts the search results in Ascending/Descending order alternating with each click. The drop-down entry shows only the matching results.				
Release Cause	Release cause for the call. Clicking this header sorts the search results in Ascending/Descending order alternating with each click. The dropdown entry shows only the matching results.				
Media Type	The Media Type of the call. One of the following values:				
	Audio				
	Video				
	Video and Screen Sharing				
	None				
0	Click to expand the view of a call, to show additional details.				
0	Click to minimize the view of a call, to just one row of information.				
View	A Finalized Evaluation exists for the selected Evaluation form and call, and will be presented for viewing.				
New	A new Evaluation will be created for a previously selected Evaluation Form, and the call selected.				
Continue	Continue previously started Evaluation.				

Field	Description
Page Navigation buttons	Buttons are shortcuts to the beginning/end, previous/next page of the displayed entries. The dropdown allows changing the number of entries per page.

#### > To start an evaluation:

 Open the Select Evaluation Form (Evaluation tab > Evaluation folder > Perform Evaluation).

Figure 16-9: Select Evaluation Form

Select Evaluation Form						
Name	\$	Description	Select			
Customer Se	ervice	Evaluate service team, quality of answers, responsiveness and ability to resolve customer issue even when customer may be hostile	Select			
test			Select			
Agent Scorir	ng	Agent Scoring Evaluation form	Select			
		(1 of 1) (4 <4 1 (5) (1) (1) (1)				

Figure 16-10: Evaluation Form User Selection

Calls between 1/6/19 01:51 PM and 1/6/19 03:51 PM							
= Selection Criteria							
Users:         I/gaev, Ina(Inai)       Johnson, Bob         Johnson, Johnson       Johnson, Johnson         Jones, Jones       Jones, Jones         To:       1/6/19       1 ▼ S1 ▼ PM ▼         Jones, Jones       Jones, Jones         Kitlaru, Yaniv       Kilong, Brian         Makowski, Jerry       Marrocchi, Ulises (ulisesm)         Search							
User $\diamond$ Started $\diamond$ Duration $\diamond$ Direction $\diamond$ Release Cause $\diamond$ Media Type Select $\checkmark$ Evaluat	e						
No records found.							
20 V (4 >> >> (1 of 1)							

2. Select the user to evaluate, select a search date range and then click Search. A list of call records for the selected user is displayed.

3. Click Select to select the form for this evaluation; the Call Search/Selection screen launches for the user to select the calls to evaluate.

Calls between 6/1/18 02:37 PM and 1/6/19 04:37 PM									
+	User	\$	Started	\$	Duration \$	Direction Select V	Release Cause \$ Select T	Media Type Select 🔻	Evaluate
0	Johnson,	Bob	Dec 31, 2018	1:32:49 PM	00:00:31	OUTGOING	NORMAL		New
O	Johnson,	Bob	Dec 31, 2018	1:36:04 PM	00:00:17	OUTGOING	NORMAL		New
0	Johnson,	Bob	Dec 31, 2018	1:55:48 PM	00:00:28	OUTGOING	NORMAL		New
0	Johnson,	Bob	Dec 31, 2018	1:56:38 PM	00:00:29	OUTGOING	NORMAL		New
D	Johnson,	Bob	Dec 31, 2018	1:59:54 PM	00:01:17	OUTGOING	NORMAL		New
				20	▼ I4 ≪	1 🕨 🕨	(1 of 1)		
Click New on the row of the call to evaluate.									

#### Figure 16-11: Select Call to Evaluate



nson, Bob 2018-12-31 13:36:04.0 ADY			(	10:00:00   00:00
	372	619 619		-
-0	۲		٠	-0
valuee: Johnson, Bob			Total Evaluation Score: 0 c	ut of 100 (0%
Section: Introduction	Section: Introduction Score: 0 out o	of 40 (0%)		
Questions	Answers	Score	Notes	
id the agent use the expected opening greeting?	Choose One 🔻	0 out of 10		
id the agent verify and update customer information?	Choose One	0 out of 10		
low attentive was the agent with listening to the customer?	Choose One	0 out of 20		
Section: Problem Identification	Section: Problem Identifica	ation Score: 0 out of 30 (0%)		
Questions	Answers	Score	Notes	
low well did the agent communicate at an understandable rate and sound ositive?	Choose One v	0 out of 10		
low well did the agent seem to empathize with the customer?	Choose One	0 out of 10		
low well did the agent use probing questions to identify the problem?	Choose One	0 out of 10		
Section: Closing	Section: Closing Score: 0 out of 30 (0%)			
Questions	Answers	Score	Notes	
id the agent review the call and get customer's approval of resolution?	Choose One	0 out of 10		
id the agent ask if there was anything else they could help them with?	Choose One	0 out of 10		
id agent thank the customer for their business?	Choose One	0 out of 10		

Field	Description
Display Video	Displays the video screen. When you click the button the recorded video is replayed.
200 (1997) - 200 (1997) 200 (1997)	Call details for the selected call / Form
	Volume control
	Status and other information
$\bigcirc$	Playback the entire recording or a selected segment. If the 'Display Video' option is selected, both the video and audio recordings are replayed.
(I) PAUSE	Pause the playback of the recording.
•	Rewind to immediately replay the selected segment of the recording from the start point of the segment.
۲	Return to the start point of the selected segment of the recording, then click the button to replay the segment.
Evaluee:	Targeted user associated with the call being evaluated.
Total Evaluation Score:	Total score for the form, displayed as a percentage.
Section:	Section header
Questions	List of questions for this section
Answers	Drop-down menu with possible answers to this question.
Score	Score associated with the answer provided.
Notes	Field for the evaluator to enter notes.
Score:	Score for this section, displayed as a percentage.
Back	Abort evaluation.
Save as Draft	Save Evaluation as a draft. Save as Draft to save evaluation before all answers scored.

Field	Description
Save as Final	Save Evaluation as Final. The <b>Save as Final</b> button will only be available after all answers are scored.

#### **To perform the evaluation:**

- **1.** Start the evaluation as described previously.
- 2. If an evaluation was previously started, click the Continue button to resume it.
- **3.** Start the evaluation by clicking the player buttons (Play/Stop) and moving back/forward by dragging the audio position indicator in the player.
- **4.** For every Question, select the appropriate answers and optionally add notes in the Notes area.
- 5. To stop the evaluation before completing the form, select Save as Draft to save the current evaluation and resume later.
- 6. After all questions are answered, the Save as Final button becomes available.
- 7. Click Save as Final to complete the evaluation.

#### To review evaluations:

#### Figure 16-13: Review Evaluations

Review Evaluation	s					
Form Name	Description	Status	Evaluee 🗘	Evaluator 🗘	Date ≎	Evaluate
Customer Service	Evaluate service team, quality of answers, responsiveness and ability to resolve customer issue even when customer may be hostile	FINAL	Friedman, Paul(paulf)	Friedman, Paul(paulf)	2014-12- 16 13:21:52.0	View
Customer Service	Evaluate service team, quality of answers, responsiveness and ability to resolve customer issue even when customer may be hostile	FINAL	Conlon, Tom	Friedman, Paul(paulf)	2015-03- 03 12:24:49.0	View
Customer Service	Evaluate service team, quality of answers, responsiveness and ability to resolve customer issue even when customer may be hostile	FINAL	Da Silva, Sandy	Mast, Danielle	2016-05- 23 12:21:09.0	View
Agent Scoring	Agent Scoring Evaluation form	FINAL	Adar, Tania	Mast, Danielle	2018-04- 24 15:20:57.0	View
Agent Scoring	Agent Scoring Evaluation form	FINAL	Adar, Tania	Mast, Danielle	2018-04- 24 15:24:44.0	View
	(1 of 1) 🔢 📢 1	►> ►	20 🔻			

#### Table 16-9: Review Evaluations – Field Descriptions

Field	Description
Form Name	Form Name used in the evaluation. Clicking this header sorts the search results in Ascending / Descending order alternating with each click. The drop-down entry shows only the matching results.

Field		Description		
Description	Release cause for the call. Clicking this header sorts the search results in Ascending/Descending order alternating with each click. The drop-down entry shows only the matching results.			
Status	Status of the Evaluation. Clicking this header sorts the search results in Ascending/Descending order alternating with each click. The drop-down entry shows only the matching results.			
Evaluee	User whose recording is evaluated. Clicking this header sorts the search results in Ascending / Descending order alternating with each click. The dropdown entry shows only the matching results.			
Evaluator	User performing the evaluation. Clicking this header sorts the search results in Ascending/Descending order alternating with each click. The drop-down entry shows only the matching results.			
Date	Date of the evaluation. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.			
	View Click to view evaluation; the View Evaluation screen opens.			
Continue Click to continue evaluat Perform Evaluation scree				
Page Navigation buttons	Buttons are shortcuts to beginning/end, previous/next page of displayed entries. The dropdown allows changing the number of entries per page.			

#### > To review evaluations:

- 1. Open the Review Evaluations screen (Evaluation tab > Evaluation > Review Evaluations).
- 2. Click View to open the View Evaluation screen, or Continue to open the Perform Evaluation screen to complete the evaluation.

#### > To create an Average Score Report:

1. Open the Average score report screen (Evaluation tab > Evaluation folder > Report).

Average score report.	
Report Filter	
Select form To:	*
Create Report	

- 2. Select the evaluation by entering the search data into the report filter area.
- 3. Click Create Report to create the report; the report is displayed on the screen.

#### **To export a report (to Excel):**

**1.** Create the report as described above.

Export	Data	
×	<ul><li>Average</li><li>All</li></ul>	
k		to export

Select the Average or All button and click
 the data; you're prompted to save or open the exported file.

Figure 16-14: Average Score Report

Average score report. Fo	orm: Customer Se	rvice for period betwee	en 1/1/2015 and 5/23/2016		
- Report Filter	· ]				
Customer Service	e V		on, Tom Iva, Sandy		*
Name \$	Evaluations	Introduction 🗘	Problem Identification 🗘	Closing 🗘	Total 🗘
Da Silva, Sandy	1	35	27	30	92
Export Data • Aver • All	age				

#### Table 16-10: Average Score Report – Field Descriptions

Field	Description
- Report Filter	Click to hide the report filter.

Field	Description
+ Report Filter	Click to show the report filter subscreen.
Select form	Dropdown menu with evaluation forms.
From:	Search from this call date(s). Automatically populated by SmartTAP 360°; can be changed by the user.
То:	Search before this call date(s). Automatically populated by SmartTAP 360°; can be changed by the user.
List of users	List of evaluees. Automatically populated by SmartTAP 360°; select by clicking the required user.
Create Report	Only active when an Evaluee is selected.
Only visible after clicking Create Report	<ul> <li>Name (Name of Evaluee)</li> <li>Evaluations (Number of evaluations for this user)</li> <li>Name of section (from form) (Total points in this section. In the figure above, the section name is 'Introduction'. Clicking this header sorts the search results in Ascending/Descending order alternating with each click).</li> <li>Name of section (from form) (Total points in this section. There is a column for each section in the form. Clicking this header sorts the search results in Ascending/Descending order, alternating with each click.</li> <li>Total (Total points in this evaluation)</li> </ul>
	Click to export data to Excel.

# Part III

## **System Configuration**

## **17** Viewing/Searching an Audit Trail

The Audit Trail feature allows the administrator to search the history of all user activity on SmartTAP 360°. The Audit Trail is searchable but cannot be edited or deleted. You can view / search the user changes made to the SmartTAP 360° database.

#### > To view / search user activities:

1. Open the Audit Trail screen (System tab > Monitoring folder > Audit Trail).



The System tab is only accessible to administrators assigned the Configure System option in their security profile.

Selection criteria      Adar, Tania     Alyii veedu dhruva, Fnu     Analytics User, Analytics User     Bauer, Eric     Broker, Analytics     Burke, Aemon     Campos, Jose     Carosella, Gino     Conlon, Tom     Da Silva, Sandy     Dutta, Debajyoti     EMEA, Oncall-1     EMEA, Oncall-1     EMEA, Oncall-2     Erps, Mike     Garg, Amrita     Groh, Gerald     Herberger, Steven     Honig, Menachem     Hopkins, Steve	Audit trail	
Alyil veedu dhruva, Fnu Analytics User, Analytics User Bauer, Eric Broker, Analytics Burke, Aemon Campos, Jose Carosella, Gino Conlon, Tom Da Silva, Sandy Dutta, Debajyoti EMEA, Oncall-1 EMEA, Oncall-2 Erps, Mike Garg, Amrita Groh, Gerald Herberger, Steven Honig, Menachem Hopkins, Steve	- Selection criteria	
Howell, Donald Hunter, Daryl Ilyaev, Ina(Inai) Johnson, Bob Johnson, Johnson Jones, Bob Jones, Jones Joseph, Liziya(Manually Added ) Kitlaru, Yaniv Kling, Brian Makowski, Jerry Marrocchi, Ulises (ulisesm) Mast, Danielle Munoz, Fernando	Adar, Tania Alyil veedu dhruva, Fnu Analytics User, Analytics User Bauer, Eric Broker, Analytics Burke, Aemon Campos, Jose Carosella, Gino Conlon, Tom Da Silva, Sandy Dutta, Debajyoti EMEA, Oncall-1 EMEA, Oncall-2 Erps, Mike Garg, Amrita Groh, Gerald Herberger, Steven Honig, Menachem Hopkins, Steve Howell, Donald Hunter, Daryl Ilyaev, Ina(Inai) Johnson, Bob Jones, Jones Jones, Jones Jones, Jones Joseph, Liziya(Manually Added ) Kitlaru, Yaniv Kling, Brian Makowski, Jerry Marrocchi, Ulises (ulisesm) Mast, Danielle	To: 12/31/18

#### Figure 17-1: Audit Trail

2. Select the desired users and date range (Use the table below as reference).

- Selection criteria				
ST-feams100 ST-feams10 ST-feams11 ST-feams12 TeamTestUser2 TeamTestUser3 User (PLEASE DELETE), Initial	<ul> <li>From: 12/11/20 To: 12/20/21</li> <li>Search</li> </ul>			
Name	Action     All Actions	Timestamp	0 Description	
r-Teams100	LOGIN	01/14/2021 11:05:58 AM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
Teams100	LOGIN	01/14/2021 11:17:25 AM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
Teams100	LOGIN	01/17/2021 02:11:55 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
	LOGIN	01/17/2021 02:18:58 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
Teams100			User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
	LOGIN	01/17/2021 02:21:46 PM	User ST-Teams100psmarttap.onmicrosoft.com successfully logged in.	
Teams100	LOGIN PLAY_CALL_MEDIA	01/17/2021 02:21:46 PM 01/17/2021 02:22:02 PM	ST-Teams100 requested playback of media for call id 43. <u>Play</u>	
-Teams100 -Teams100				
-Teams100 -Teams100 -Teams100	PLAY_CALL_MEDIA	01/17/2021 02:22:02 PM	ST-Teams100 requested playback of media for call id 43. Play	
-Teams100 -Teams100 -Teams100 -Teams100	PLAY_CALL_MEDIA PLAY_CALL_MEDIA	01/17/2021 02:22:02 PM 01/17/2021 02:22:06 PM	ST-Teams100 requested playback of media for call id 43. $\underline{\rm Pla_X}$ ST-Teams100 requested playback of media for call id 43. $\underline{\rm Pla_X}$	
FTeams100 FTeams100 FTeams100 FTeams100 FTeams100 FTeams100 FTeams100	PLAY_CALL_MEDIA PLAY_CALL_MEDIA PLAY_CALL_MEDIA	01/17/2021 02:22:02 PM 01/17/2021 02:22:06 PM 01/17/2021 02:23:46 PM	ST-Teams100 requested playback of media for call id 43. <u>Play</u> ST-Teams100 requested playback of media for call id 43. <u>Play</u> ST-Teams100 requested playback of media for call id 43. <u>Play</u>	

Figure 17-2: Audit Trail Query Result



Field	Description				
= Selection criteria	Click to hide the Search area				
+ Selection criteria	Click to show the Search area				
<list of="" users=""></list>	Select the user to view by clicking the user name; hold <ctrl> to select multiple users; hold <shift> and click the top user and the bottom user to select all users within a range.</shift></ctrl>				
From:	Select the date from which to search.				
To:	Select the date to which to search.				
Search	Click to perform the search and display the results.				
Name	Sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.				
Action	Sorted ascending/descending by clicking header up/down arrows. Default is 'All Actions'. Field entry displays only entries with matching drop down menu.				
Timestamp	Time of day when entry was created				
Description	If defined, the field entry displays only matching entries.				
	Click the Excel icon to export Audit Trail.				
Navigation buttons under the	search display:				
(1 of 3) 🛛 🖂 🚺	23 🕨 🕨 10 💌				

Field

Description

Buttons are shortcuts to the beginning/end, previous/next page of the displayed entries. The drop-down list allows changing the number of entries that are displayed per page.

## **Exporting an Audit Trail**

You can export the audit trail to an Excel file for accountability purposes.

- > To export the audit trail:
- 1. Open the Audit Trail screen (System tab > Monitoring Folder > Audit Trail).
- 2. Select the User or Users to view and date range.
- 3. Click Search to see the results.
- 4. Click the Excel icon.

Do you want to open or save AuditTrail-data-2015_07_29.xlsx from localhost?	<u>O</u> pen	Save	•	<u>C</u> ancel	×
---	--------------	------	---	----------------	---

- 5. Click Open / Save to manage the Excel file.
- 6. Once opened, the following tabs can be seen:
  - Tab #1 Search Criteria Details
  - Tab #2 Audit Trail Data

## 18 Managing Licenses

This section describes how to manage the SmartTAP 360° licenses. Licenses are generated and loaded to SmartTAP as described in the <u>SmartTAP Installation Guide</u>. This interface displays data on the purchased and loaded license items for all integrations types:

- Targeted user licenses: Enables SmartTAP 360° users to be assigned recording profiles for different types of communication recordings in an enterprise. The total amount of purchased Target User licenses pre-configured in the License file are the same for all integration types.
- Concurrent recording licenses: Determines the maximum number of calls that can be simultaneously recorded. Ideally the concurrent calls license should equal the maximum number of simultaneous calls that can be made by the targeted users. The total amount of purchased Concurrent recording licenses pre-configured in the License file can differ for each integration type.
  - Compliance Call Recording can be enabled on Microsoft 365 A3/A5/E3/E5/Business Premium and Office 365 A3/A5/E3/E5 users.
  - For Microsoft Teams integrations, its possible to allocate user licenses using this interface, however for other integrations user licenses are allocated on-the-fly.

#### Targeted User Licenses:

- Audio Targets: Sets the number of users that can be assigned to a Recording Profile for recording Audio. "Audio Concurrent" licenses (described below) are required to record these users calls.
- All Included Targets: Sets the number of users that can be assigned to a Recording Profile for recording Audio and Video, Desktop Sharing and chats. "Audio & Video Concurrent Recordings" licenses (described below) are required to record these users calls
- Concurrent Recording Licenses:
  - Audio Concurrent Recordings: Determines the maximum number of total concurrent Audio recordings of users that are assigned to an Audio enabled recording profile (Video and Screen Sharing disabled).
  - Audio & Video Concurrent Recordings: Determines the maximum number of concurrent Video and Video and Screen Sharing recordings of the users that are assigned to Video or Video and Screen Sharing enabled recording profile.
- Analytics Licenses Usage: see descriptions below

Figure 18-1: Licenses

Licenses											
								otal Targets Lice			
LICENCE CE	RVER@STVM5510070		License	Total	In Use	Available		ad Tuesday, Decemb ax. Consumed*	er 7, 2021 2:04:49 PM	l Value Set/Modify Threshold Value	
	umber 1219995		Audio Targets	2	2	0	2		0	0	
Product Key Date Issued Customer Nar	st55 12/01/2021		All Included Targets	4	4	0	4	4	0		
								alls Recordings y, December 7, 202			
LICENSE_SE	RVER@STVM5510070		License	Total	In Use	Available	e Ma	ax. Consumed*	Notification Threshole	d Value Set/Modify Threshold Value	
Product Key	umber 1219995 st55	Audio Con	current Recordings	2	0	2	C	• 🧕	0	0	
Date Issued Customer Nar	12/01/2021 ne AudioCodes-QA	Audio & Video	Concurrent Recordings	4	0	4	2	2	0	0	
							art Lloda	Analytics Lice	nse Usage nber 7, 2021 2:04:49 PM		
LICENSE SE	RVER@STVM5510070		License	Total	In Use	Available		ax. Consumed*		d Value Set/Modify Threshold Value	
Sales Order N	umber 1219995		Analytics Users	2	2	o	2		0		
Product Key Date Issued Customer Nar	st55 12/01/2021 ne AudioCodes-QA		Analytics Hours	2	0	2	2	2	1		
											Ref
					<b>T</b> -				Total Targets Lice dated Wednesday, July Max. Consumed*		Set/Modify Threshold Va
ICENSE_SE	ERVER@smarttap-vm-56			ense		tal Us		Available			
Product Ke			Audio	Targets	5 1	.0 (	)	10	2	0	
Date Issue Customer M			All Inclu	ded Targ	jets 1	0 4	ŀ	6	4	0	
							Т	eams Concur	rent Calls Recording	s License Usage	
								Last Updated	Wednesday, July 6, 20	22, 7:06:01 PM	
LICENSE_SE	ERVER@smarttap-vm-56		Licen	se		Total	Used	d Available	Max. Consumed*	Notification Threshold Value	Set/Modify Threshold Value
Sales Orde Product Ke	r Number 1219871 y st56		Audio Concurren	t Record	dings	10	0	10	2	0	
Date Issue Customer M	d 05/30/2022		Audio & Video Recordi		ent	10	0	10	14	0	
										_	
								Last Up	Analytics License dated Wednesday, July		
ICENSE_SE	ERVER@smarttap-vm-56		Lic	ense	То	tal Us	ed	Available	Max. Consumed*	Notification Threshold Value	Set/Modify Threshold Va
Sales Orde Product Ke	r Number 1219871 y st56		Analyt	cs Users	5 1	5	2	13	3	0	
Product Ke Date Issue Customer M	d 05/30/2022		Analytics	Hours B	ank 1	.4 (	)	14		0	
				L	.ast Upd			s License l day, July 13,	<b>Jsage</b> 2022, 3:56:18 PM		
	License	Tot	al Used	Avail	able	Max. (	Cons	umed*	Notification Thr	eshold Value Set/Mod	lify Threshold Value
	Analytics Users	10	0 3	97	7	95		0	0		
	Analytics Monthly H	ours 10	0 0	10	0	0		0	2		

Analytics License Usage Last Updated Wednesday, July 13, 2022, 4:12:42 PM								
License	Total	Used	Available	Max. Consumed*	Notification Threshold Value	Set/Modify Threshold Value		
Analytics Users	100	3	97	95 🧕	0			
Analytics Hours	100	0	100		2	<b>Ø</b>		

This screen is divided into four sections:

- **Total License Target Usage:** Displays the total number of licenses (configured in License file) and currently consumed licenses accumulated for all integration types.
- Teams Concurrent Calls License Usage: Displays the total number of concurrent recording licenses and the number of these licenses currently consumed for Microsoft Teams users.
- **Analytics License Usage:** Displays the following:
  - Analytics Users: Total number of analytics users licenses.
  - **Analytics Monthly Hours:** The number of hours of calls analyzed by the Analytics service (this amount is reset on a monthly basis).
  - Analytics Hours: The analytics hours which represents a one-time allocation for the number of hours.

Other Integrations: Displays that total number and currently consumed concurrent recording licenses for other integrations (if existing). See Licenses for Other Integrations below.



The preconfigured license totals in the license file for Targeted Licenses is **identical** for all integrations. The preconfigured concurrent recordings **may differ** between integrations.

### **Licenses for Other Integrations**

This section describes the management of licenses for other integrations. The following licenses are available:

- Targeted User Licenses:
  - Audio Targets: This license sets the number of users that can be assigned to a Recording Profile for recording Audio. Audio Concurrent licenses (described below) are required to record these users calls.
  - **IM Targets:** This license sets the number of users that can be assigned to a Recording Profile for recording Instant Messages only. Other types of user communications i.e. audio or video recordings are not available under this license.

- All Included Targets: This license sets the number of users that can be assigned to a Recording Profile for recording Audio. Audio Concurrent Recording licenses (described below) are required to record these users calls.
- Concurrent Recording Licenses:
  - Audio Concurrent Recordings: This license determines the maximum number of concurrent Audio recordings of users that are assigned to an Audio-enabled recording profile (Video disabled).
  - Video & Audio Concurrent Recordings: This license determines the maximum number of concurrent Video and Audio recordings of the users that are assigned to Video and Audio enabled recording profile.
  - **Desktop Sharing Concurrent Recordings:** This license determines the maximum number of concurrent Desktop Sharing and Audio recordings of the users that are assigned to Desktop Sharing and Audio enabled recording profile.
  - Agent Evaluation: This license determines the maximum number of agent evaluation licenses.

#### > To view Managed Licenses:

1. Open the Licenses screen (System tab > Monitoring Folder > Licenses).

	0								
Licenses									
	Total Targets License Usage Last Updated Tuesday, December 7, 2021 2:13:32 PM								
LICENSE_SERVER@STVM5510070		License	Total	In Use	Available	Max. Consu	umed*	Notification Threshold Value	Set/Modify Threshold Value
Sales Order Number 1219877 Product Key st55v		Audio Targets	150	2	148	2	0	0	
Date Issued 12/07/2021 Customer Name QA	All	Included Targets	150	4	146	4	0	0	
	Teams Concurrent Calls Recordings License Usage Last Updated Tuesday, December 7, 2021 2:13:32 PM								
LICENSE_SERVER@STVM5510070	Licen	se	Total	In Use	Available	Max. Consu	umed*	Notification Threshold Value	Set/Modify Threshold Value
Sales Order Number 1219877 Product Key st55v	Audio Concurrer	nt Recordings	150	0	150	0	0	٥	
Date Issued 12/07/2021 Customer Name QA	Audio & Video Concu	urrent Recordings	150	0	150	2	0	0	
		License	Total	In Use	Last Available		ay, Decen	nse Usage nber 7, 2021 2:13:32 PM Notification Threshold Value	Set/Modify Threshold Value
LICENSE_SERVER@STVM5510070							ined.		
Sales Order Number 1219877 Product Key st55v		Analytics Users	150	2	148	2	9	0	
Date Issued 12/07/2021 Customer Name QA		Analytics Hours	10	0	10	2	0	1	
			CD-S			Concurrent C sday, December		cordings License Usage 2:13:32 PM	
	Licens	e	Total	In Use	Available	Max. Consu	umed*	Notification Threshold Value	Set/Modify Threshold Value
	Audio Concurrent	: Recordings	4	0	4	0	0	0	
CD-SIPREC@STVM5510070	Agent Evalu	uation	8	0	8	0	0	0	
Sales Order Number Product Key 0000000000 Date Issued 12/07/2021 Customer Name Demo	IM Targe	ets	4	0	4	0	0	0	
Customer Name Demo	Video & Audio Concur	ment Recordings	2	0	2	0	9	٥	

### Figure 18-2: Licenses for Other Integrations

# **License Configuration Parameters**

Parameter	Description
Total	The total number of purchased licenses
In Use	The number of licenses that are currently utilized reflects the number of recording enabled users or the number of user calls recorded at the time of the page refresh.
Available	The number of licenses available to enable users for recording or to record concurrently
Max Consumed	The maximum number of concurrently used licenses to date. Each counter can be manually resetby selecting the reset counter button adjacent to each license entry. The counter is reset after the Call Delivery server is restarted and the screen is refreshed.

Parameter	Description
The Notification Threshold Value	This value is measured in terms of the number of licenses; zero implies that no notifications are sent. For example, if the Notification Threshold Value 3 is configured for the "Audio & IM Targets" item, when 3 or more licenses are used for this item, the alarm "Resource Threshold Exceeded" is generated. When the license usage falls below the threshold, the alarm "Resource Threshold Cleared" is raised. See also Alarms.
Set/Modify Threshold Value	Set or modify the Threshold value adjacentto each license item.



Following reset, the value for "Max Consumed" is equal to the value for "In Use" for the selected entry.

In addition, general license information is displayed on the left-hand side of the screen including the Sales Order Number, Product Key, Date Issued and Customer Name.

## **Assign Licenses**

This section describes how to assign licenses to Teams users.

#### > To assign licenses to users:

1. Open the Assign Licenses page (System menu > Monitoring folder > Assign Licenses).

Licensed Targets			
	Audio: Used Licenses/Availa All Included: Used Licenses/Ava		None
-			
Name	Recording Profile     Select	<ul> <li>Recording license</li> <li>Select</li> </ul>	¢ ~
ST-Teams11, ST-Teams11	Full Time_Video_DAS	All Included v	
ST-Teams12, ST-Teams12	Full Time_Video_DAS	All Included V	
ST-Teams13, ST-Teams13	Full Time_Video_DAS	All Included	
ST-Teams14, ST-Teams14	Full Time_Video_DAS	All Included v	
ST-Teams20	VPNCpolicy	All Included	
ST-Teams21	VPNCpolicy	All Included V	
ST-Teams22	VPNCpolicy	All Included	
ST-Teams23	VPNCpolicy	All Included V	
ST-Teams24	VPNCpolicy	All Included V	
ST-Teams25	VPNCpolicy	All Included V	
ST-Teams26	VPNCpolicy	All Included V	
ST-Teams27	VPNCpolicy	All Included v	
ST-Teams28	VPNCpolicy	All Included	
ST-Teams29	VPNCpolicy	All Included V	
ST-Teams30	VPNCpolicy	All Included V	
ST-Teams31	VPNCpolicy	All Included V	
ST-Teams32	VPNCpolicy	All Included V	
ST-Teams33, ST-Teams33	VPNCpolicy	All Included 🗸 🗸	
ST-Teams34, ST-Teams34	VPNCpolicy	All Included 🗸 🗸	
ST-Teams35, ST-Teams35	VPNCpolicy	All Included V	
	20 v 14 4 123	▶ ▶ (1 of 3)	

Figure 18-3: Assign Licenses

- 2. In the Name field, enter the username whose license you wish to assign.
- **3.** From the Recording Profile drop-down list, select the name of the recording profile to assign the user license
- 4. From the Recording License drop-down list, select the recording license type:
  - All Included
  - None
  - Audio

Or

5. From the Set all drop-down list, select one of the above values to apply globally to all users.

## **Assign Analytics Licenses**

This section describes how to assign Analytics licenses.

#### > To assign licenses for analytics users:

1. Open the Assign Analytics License page (System tab > Assign Analytics License).

Figure 18-4: Licensed Targets

Licensed Targets				
	Analytics: Used Licenses/Available Licenses: 4 / 10			
			Set all None	~
<b></b>				
Name 🗘	Analytics Profile	Analytics license Select		\$ *
ST-Teams11, ST-Teams11	Managed Identity_Analytics Profile_EN	Analytics	~	
ST-Teams12, ST-Teams12	Managed Identity_Analytics Profile_EN	Analytics	~	
ST-Teams13, ST-Teams13	EN_Analytics Profile	Analytics	~	
ST-Teams14, ST-Teams14	EN_Analytics Profile	Analytics	~	
	20 V 14 <4 1 >> >1 (1 of 1)			

- 2. In the Name field, enter the username whose license you wish to assign.
- **3.** From the Analytics Profile drop-down list, select the name of the Analytics profile to assign the user license.
- 4. From the Analytics Profile drop-down list, select the Analytics license type:
  - Analytics Users
  - Analytics Hours

Or

• From the Set all drop-down list, select one of the above values to apply globally to all users.

# **19 Device Management**

This section describes how to manage and monitor the SmartTAP devices:

- Viewing Managed Devices below
- Adding a Device Manually to the Application Server on page 215
- Viewing/Searching an Audit Trail on page 201

### **Viewing Managed Devices**

SmartTAP 360° inter-components communication status helps to quickly detect connection issues and to take the appropriate actions. Each managed device reports the status of its nections with other components in the system.

A managed device other than of type 'Host' will register automatically with the application server. Such devices update their status by sending periodic heartbeats to the application server. Devices also update their connection status information whenever the connection state changes.

A device of type 'Host' needs to be manually added to the application server in the Managed Devices screen. The Application server will periodically poll 'Host' type device to retrieve the device status information (seeAdding a Device Manually to the Application Server on page 215).

#### > To view managed devices:

1. Open the Managed Devices screen (System tab > Monitoring Folder > Managed Devices).

Mana	ged Devices							
			Host					UBMIT
	Status \$	Device Name   Location		↓ Up Time ↓	Down Time 🗘	Version	Address	Remove
0	٠	AC_HealthMonitor@vm-smarttap-msf	Health Monitor	4 days 5 minutes 43 seconds		5.5.0.10068	vm-smarttap-msf	
	٠	ANALYTICS_SERVICE@dw1sdwk000002	Analytics Service		1 day 13 hours 42 minutes 33 seconds	1.0.0.0	DW1SDWK000002	Ē
	٠	CALL_DELIVERY_LIVE@IL-ORP-PC	Call Delivery-Live		6 minutes 58 seconds	1.0.0.0	IL-ORP-PC	Ē
	•	CALL_DELIVERY_LIVE@vm-smarttap-msf	Call Delivery-Live		50 minutes 56 seconds	5.5.0.10068	vm-smarttap-msf	Ē
0	٠	LICENSE_SERVER@vm-smarttap-msf	License Server	3 days 15 hours 41 minutes 39 seconds		5.5.0.10068	vm-smarttap-msf	
0	٠	REMOTE_TRANSFER_SERVICE@bot- msftcert5	Remote Transfer Service	3 days 22 hours 31 minutes 26 seconds		5.5.0.10068	bot-msftcert5	
0	٠	REMOTE_TRANSFER_SERVICE@vm- smarttap-msf	Remote Transfer Service	4 days 5 minutes 24 seconds		5.5.0.10068	vm-smarttap-msf	
0	•	TEAMS_BOT@bot-msftcert5	Teams Bot	1 day 4 hours 20 minutes 3 seconds		5.5.0.10036	bot-msftcert5	
			20 🗸 🖂 📢 🚺	▶> ▶ (1 of 1)				

2. Use the table below as a reference.

Table 19-1: Managed Devices Field Descriptions

Field	Description
Host	Host Name or IP Address of the managed device to add. By default,

Field	Description					
	the type of this device is set as 'Host'.					
Port	SNMP UDP Listening Port of the managed device to add.					
Status	Indicates the status of the managed device.					
	Device status is UP: the device has registered and is sending heartbeats periodically at regular 30 second intervals.					
	Device status is UNKNOWN: the device has registered but has not yet sent any heartbeat message.					
	Device Status is SETTLING: the device is in DOWN state and has started sending heartbeats again. If the device continues to send heartbeats without any timeout or failure for the settling period (two minutes by default), the status will change to green.					
	One or more of the device connections are DOWN.					
	Device status is DOWN: the device stops sending heartbeat messages.					
Device Name	Display Name of the Device. Sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.					
	Clicking the Device Name link opens the control panel page for this device.					
Device Location	Devices location information. Sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries. Click an entry to add a device location. This configuration is relevant for all CD processes. This is a global configuration which overrides any user location configuration.					

Field	Description
	CO-IPQ#I-sharonbi-ip Control Panel
Device Type	Type of the device provided during registration. A manually added device has type 'Host'. In SmartTAP 360°, valid device types are as follows: Unknown; Host; Call Delivery-IP; Call Delivery-SIPREC; Media Server; Communication Server; Integration Specific; Health Monitor; Remote Transfer Service, Teams Bot and Media Delivery Sorted ascending/descending by clicking header up/down arrows. The dropdown only displays matching entries. 'Unknown' devices are devices unreachable by the Application Server's Web service.
Up Time	Time elapsed since the device status became UP.
Down Time	Time elapsed since the device status became DOWN.
Version	Version of the registered device.
Address	IP address or Host name of the registered device.
Ē	Delete button to remove managed device information from the system. An auto-registered device can only be deleted if its state is either 'DOWN' or 'UNKNOWN'
SUBMIT	Submit button to add a managed device of type 'Host' to the system.
Filtering	Typing in a column input field or selecting a value from a drop down in column headings will filter the table entries by the value typed or the option selected.

## Adding a Device Manually to the Application Server

The Application Server's Web service manages all devices (software elements). When the administrator adds a new software element on the local or remote physical/virtual server, the Application Server attempts to establish a connection with the new element. If successful, the Device Type in the main screen changes from 'Unknown' to the device type just added. Click the device name to navigate to the Control Panel for that device.



As mentioned inViewing Managed Devices, in a correctly setup deployment only the Host server needs to be added manually to the Application server.

#### > To add a device manually:

- 1. Open the 'Managed Devices' screen.
- 2. Enter the Host IP address of the new device.
- 3. Enter the published Managed Device Port of the new device (see the table below).
- 4. Click SUBMIT

#### Table 19-2: Managed Devices

Hostname of Device	UDP Port	Description
Host	161	Server Platform Host MIB

#### > To make sure the device was added to the server:

- 1. After adding a device, the new device is displayed in the list of devices.
- 2. Once the new device is discovered, 'Device Type' changes from 'Unknown' to the correct device type added.

# 20 Recording Health Monitor

The Recording Health Monitor (HM) service is used to monitor the health of the system by automatically monitoring users records and their associated media. It identifies and reports the following behavior:

- Number of recorded calls for each user enabled for recording.
- Silent or nomedia in answered call recordings.
- Accessibility to associated media files in answered call recordings.

The service utilizes the REST API to retrieve the data from an Application Service and to generate daily reports. The following daily report of calls for targeted, recording enabled, users are generated:

- recording\_report\_YEAR-Month-Day.txt general report of all targeted users and calls in text format.
- recording\_summary\_report\_YEAR-Month-Day.csv general report of all targeted users and calls in CSV format (Excel).
- recording\_err\_warn\_report \_YEAR-Month-Day.csv warnings report in CSV format (Excel) that includes a list of possible recording issues such as no recordings for a targeted user, silent or zero media in answered call recordings, in CSV format (Excel).

The reports generation schedule (default 11:00 pm) can be configured using HP configuration file, located in AudioCodestools folder in Program Files under Config (ex. C:\Program Files\AudioCodes\Tools\HealthMonitor\Config). Email notification with generated reports can be sent via email (requires HealthMonitor SMTP configuration).

The Health Monitor is installed automatically on SmartTAP 360° server as a part of the SmartTAP 360° installation, under the AudioCodestools folder in Program Files (ex. C:\Program Files\AudioCodes\Tools\HealthMonitor). The Health Monitor is installed as a Windows Service under the name "AudioCodes HM".

For configuring the health monitor, see the following:

- General Configuration below
- REST API Configuration on page 218

## **General Configuration**

This section describes the general configuration for Recording Health Monitor utility.

The user interface should be configured once following the installation and further updates should be made directly in the AudioCodes\Tools\HealthMonitor\Config.

	Figu	re 20-1: General Co	onfiguration		
	Gen	eral		REST Api	
	Web S	ervice		SMTP	
Config Monday Tuesday Wednese Thursday Friday Saturday Sunday	day y	Report Time		-: ©	
		SA	VE		

- Scheduled report monitoring days: HM monitors call activity for the selected days. If no days are selected, HM monitors all days. Default: All days.
- Report Time: Health Monitor start time. Monitoring will start on scheduled time. Default: 11:00 pm.
- Report Retention Days: Sets the number of days to store reports. Old reports are purged from the database accordingly. By default, this parameter is configured to 0. This default can be changed in the configuration file as follows:

\Tools\HealthMonitor\Config

<ReportRetentionDays>10</ReportRetentionDays>

- WebServiceUrl: Health Monitor Web Service configuration page. Default: http://localhost:10101.
- Email notification: enables email notification option. HM sends an email with attached daily reports on a scheduled time. SMTP configuration is required if this option is enabled. For more details seeConfiguring Email Server Settings Default: Disabled.

• **DelayReportInSec:** Provides delay time before starting and generating reports. Default -0 not enabled (seconds).

\Tools\HealthMonitor\ConfigDelayReportInSec>0</DelayReportInSec>

• **FileAccessRetryIntervalSec:** Enables the Health Monitor to retry to access Blob\SMB location. The value reflects the time to wait between each retry. Default-1 (seconds).

\Tools\HealthMonitor\Config<FileAccessRetryIntervalSec>1</FileAccessRetryIn
tervalSec>

 FileAccessRetryCount: Enables the setting of the number of retries to access Blob\SMB locations. Default-3.

\Tools\HealthMonitor\Config<FileAccessRetryCount>3</FileAccessRetryCount>

ReportLocaton: Enables the storage of reports in a custom location. Default is [HM LOCATION]\Reports.

\Tools\HealthMonitor\Config<ReportLocation>Reports\</ReportLocation>

## **REST API Configuration**

This section describes the REST API configuration for the Recording Health Monitor.

 Figure 20-2:	<b>REST API Configu</b>	uration			
			_		
General		REST Api			
SMB		SMTP			
Address (http(s):	//)*				
			_		
Username*					
			_		
Password*					
			_		
SAVE					

The Health Monitor uses a dedicated user for REST communication with Application Server. It is not necessary to modify this configuration.

- In case the Application server is configured for HTTPS or OAuth, the Address field should be changed to https://FQDN of Application Server, where FQDN should be the same as in the certificate that was issued for the Application Server. This is necessary for authentication purposes.
  - For OAuth configuration, configuration changes should be performed in RecordingHealthMonitor.config file. Refer to the <u>SmartTAP Installation Guide</u>.

### **Report Formats**

The Health Monitoring utility generates a report including the following fields:

- Display name display name of targeted user
- Recording profile assigned call recording type
- Number of answered calls total number of answered calls
- Warnings number of warnings
- Errors number of errors

#### Figure 20-3: Example 1: recording\_report\_YEAR-Month-Day.txt

```
*****
Display Name=qaTuser12; Recording profile=FULL_TIME; Number of answered calls=2; Warnings=0; Errors=2
_Call details 1:
       Called party - qatuser11
       Calling party - qatuser12
Answering party - 7010
Call answer time - 11/6/2017 2:17:44 PM
       Integration call-id - 7e026b38ae624edd8e1f952075eda17a
       SmartTAP call-id - 81
       Message - ERROR [NO_MEDIA]
               file:/E:/media/2017/11/06/1417445-1509970655-1275549367-103-ICyc11.wav missing or not accessible
               file:/E:/media/2017/11/06/1417445-1509970655-1275549367-103-ICyc10.wav missing or not accessible
_Call details 2:
       Called party - qatuser11
       Calling party - qatuser12
Answering party - 7010
Call answer time - 11/6/2017 3:57:32 PM
       Integration call-id - 20b38ef59d314e13b377f1e09c2afa7c
       SmartTAP call-id - 90
       Message - ERROR [NO_MEDIA]
               file:/E:/media/2017/11/06/15573214-1509976648-1275549367-103-W9Wjp0.wav missing or not accessible
               file:/E:/media/2017/11/06/15573214-1509976648-1275549367-103-W9Wjp1.wav missing or not accessible
************
```

```
Display Name=qaTuser15; Recording profile=FULL_TIME; Number of answered calls=0; Warnings=0; Errors=0
```



Recording profile	Number of answered calls	Warnings	Errors
FULL_TIME	2	0	2
FULL_TIME	0	0	0
FULL_TIME	0	0	0
FULL_TIME	0	0	0
FULL_TIME	0	0	0
	FULL_TIME FULL_TIME FULL_TIME FULL_TIME	FULL_TIME         2           FULL_TIME         0           FULL_TIME         0           FULL_TIME         0           FULL_TIME         0	FULL_TIME         0         0           FULL_TIME         0         0           FULL_TIME         0         0

#### Figure 20-5: recording\_err\_warn\_report \_YEAR-Month-Day.csv

Display name	Called party	Calling party	Answering party	Call answer time	Integration call-id	SmartTAP call-id	Status	Status reason	Details
qaTuser12	qatuser11	qatuser12	7010	11/06/17 14:17	7e026b38ae624edd8e1f952075eda17a	81	ERROR	NO_MEDIA	file:/E:/
qaTuser12	qatuser11	qatuser12	7010	11/06/17 15:57	20b38ef59d314e13b377f1e09c2afa7c	90	ERROR	NO_MEDIA	file:/E:/

Figure 20-6: Email Format:

		tor@	audiocodes.co		ngs=0	errors=2]	
То	<b>_</b>		5			-	
recordin 2 KB	ng_report_2017 🖕	×a,	recording_summary_re 632 bytes	÷ 🗸	×a,	recording_err_warn_re 1 KB	*

November 08, 2017 09:47:21 AM (GMT+2) Received from: <u>http://172.17.127.133</u>

# 21 Monitoring Storage Statistics

The SmartTAP 360° server monitors disk utilization on File/SMB and Azure Blob disks that are used for storing recorded media. Notification thresholds can be configured to trigger an alarm when utilized storage space approaches its maximum allocation. Standalone data is collected for each managed storage disk and notifications can be configured separately for each disk.

- File/SMB Storage Usage Statistics: Storage utilization calculations include the free storage, the size and rate of the new recordings and also the size and rate when older recordings (exceeding the retention value) are deleted.
- Azure Blob Storage: Azure Blob storage is sampled once a day. Storage utilization calculations include the free storage, storage growth in the past month and the estimated number of months of free storage based on ratio of free storage to the growth in the previous month.



This feature is relevant for any Blob Azure hosted in AudioCodes Azure deployment. It is only available for AudioCodes hosting and storage setup. For Customer hosting or BYOS, consumption can be viewed in the customers' Azure tenant.

#### To monitor storage SMB/File usage statistics:

1. Open the Storage Usage Statistics (System tab > Monitoring Folder > Storage Statistics).



Storage Statistics								
	Media Path	Total Available Storage	Storage Left		e Usage Statistics 3, 2022To Nov 23, 20 Estimated Time Left		Notification Threshold Value	Set/Modify Threshold Value
vision- st.kfbzxco023eujpy1td1sjboh5a.ax.internal.cloudapp.net Tuesday, November 22, 2022, 3:01:21 PM	C:/media	126.45GB	66.14GB	n/a	n/a	0	0	SUBMIT

- 2. Set the Notification Threshold value (GB) for triggering notifications when storage disk capacity is approaching its limit.
  - Open the View/Modify Alarm Notifications (System tab > Alarms Folder > Notifications menu).
  - Click adjacent to the I/O Error alarm.

I/O Error Alarm Notification	
	I/O Error Disk or Peripheral Failure.
Non Recipients	Recipients
QA_Auto_User_1, QA_Auto_L QA_Auto_User_2, qa_auto_u: QA_Auto_User_3, QA_Auto_L TeamsTestUser4-E5, Teams1 TeamsTestUser5-E5, Teams1 User (PLEASE DELETE), Initia	
	SUBMIT

#### Figure 21-2: I/O Error Alarm Notification

• Select the users to receive the notification when the threshold is crossed: From the 'Non-Recipients' table use the > and >> keys to select the relevant users to move to the 'Email Recipients' table.

Click
 SUBMIT

**3.** Use the table below as a reference.

Table 21-1:	File/SMB	Storage	<b>Statistics</b>	Fields
-------------	----------	---------	-------------------	--------

Field	Description
Media Path	Saved folder location of the stored media recordings.
Total Available Storage	The total storage available (GB) for the media. Note: the drive's total storage is assumed. The storage reflects all media types (audio and video).
Storage Left	The remaining disk storage space (GB).
Net Recording Rate / day	The net average storage space (GB) consumed per day, calculating the net between the recording rate and the deletion (retention) rate.
Estimated Time Left	Estimated time remaining before the Media Path is full.
Samples	Number of days used to calculate the Net Recording Rate.
Notification Threshold Value	Specifies the threshold GB of consumed disk space/total allocated media disk space before an alarm is triggered. Default: 0 (never notify).

#### > To monitor Azure Blob usage statistics:

1. Open the Storage Usage Statistics (System tab > Monitoring Folder > Storage Statistics).

Figure 21-3: Azure Storage Statistics

	able Storage Storage Left GB 35GB (96%)		Azure Blob Storage Statistics Estimated Honths Left 1 36	Notification Threshold on Storage use (%)	Set/Hodify Threshold Value SUBMIT	
From: 10/23/22 To: 11/23/22 SUBMIT						
46 -			Azure Blob Storage			
(g) 35 (g) juo						timediaanajota1 sitestuskustään artinaanajota11 artinaanajota11 artinaanajota11 artinaanajota11 artinaanajota11
0						
	Oct-2022			Nov-	2022	
		ption Report Frequency Notification and Report	Months WEEKLY  MONTHLY Non Recipients TeamsTestUser5-E5, TeamsT	Email Recipients	×	

The lower pane displays a graph which charts the average monthly disk consumption (GB) on the Azure Blob Storage device. A separate bar graph is generated for each configured storage device (indicated by unique color-coded)

- 2. Select the date range to filter graph for specific time range.
- **3.** Set the Storage Consumption Report Frequency check box to **Weekly** or **Monthly**. The generated report includes table and graph data. See example report below.

[You don't often get email from mi-teams01@smarttap.onmicrosoft.com. Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]
CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Storage Consumption Report: Weekly Report
The utilization of your SmartTAP Blob storage(s) can be viewed in the below table.
Total Available Storage: 20GB Used: 12MB (0%) Storage Left: 20GB (100%) Notification Threshold: 1% Last Month Growth: Estimated Months Left:
Consumed per media location stmediaomr561terpck: 12.00MB
Reminder that threshold values can be changed in your SmartTAP system's storage statistics settings.

- 4. Set the Notification Threshold value (%) for triggering notifications when storage disk capacity is approaching its limit.
  - Select the users to receive the automated notification when the threshold is crossed: From the 'Non-Recipients' table use the > and >> keys to select the relevant users to move to the 'Email Recipients' table.

Click

**5.** Use the table below as a reference.

Table 21-2:	Azure	Blob	Storage	Statistics
-------------	-------	------	---------	------------

Field	Description
Total Available Storage	The total storage available for the media. The Total Available storage is calculated as follows:
	<ul> <li>Audio User Licenses + All Included User Licenses</li> <li>=Free Storage Allocation (1 GB per user)+ Purchased</li> <li>Storage Allocation.</li> </ul>
	For example, a customer user has 100 Audio User Licenses + 100 All Included Users Licenses=200 GB Free Storage Allocation + Purchased Storage Allocation e.g. 500 GB. In this case, the customer has a Total Available Storage of 700 GB.
Storage Left	The remaining disk storage space (GB) % that is allocated for media.
Used	Currently utilized disk space (GB) % that is allocated for media.
Last Month Growth	Growth in disk storage GB that is allocated for media in the past month.
Estimated Months Left	Estimated number of months of remaining storage calculated based on Storage Left/Last Month Growth.
Notification Threshold on Storage Use (%)	Specifies the threshold % of <b>Used</b> disk space reached to trigger the sending of an email notification to the customer.

An example threshold alarm is shown below.



# 22 Configuring OVOC Connection

This section describes how to setup the connection to the OVOC server. SmartTAP 360° is managed under One Voice Operations Center in a similar way to other entities that are managed by OVOC (e.g. devices, endpoints and links). This includes the aggregation of alarms and statuses that are raised by the SmartTAP 360° components and forwarded to OVOC from the SmartTAP 360° Application server. OVOC Agents are installed on the SmartTAP 360° Application server for this purpose. For more information, refer to the *SmartTAP Installation Guide*.

To configure the connection with the OVOC server:

1. Open the OVOC Settings screen (System tab > Monitoring > OVOC).

View/Modify OVOC settings	
OVOC Connection	
IP Address :	
Trap Port : 162	
Keep Alive Port : 1161	
-SNMP	
SNMP v2 ○ SNMP v3	
Community Read : public	
Community Write : private	
System Info	
Name : SmartTAP	
Location : Azure	
Access Settings	
Login URL : https://169.254.2.144/	
	:L

View/Modify OVOC settings
OVOC Connection
OVOC Public IP:
OVOC Public User: admin
OVOC Public Password:
Trap Port : 162
Keep Alive Port : 1161
SNMP
SNMP v2 ○ SNMP v3
Community Read : public
Community Write : private
System Info
Name : SmartTAP
Location : Azure
Access Settings
Login URL : https://169.254.2.144/
SUBMIT

Figure 22-1: OVOC Settings-Public IP

- **2.** Configure one of the following:
  - In the IP Address field, enter the OVOC On-Premises IP address
  - Select **Use Public IP** to configure OVOC Public OVOC IP, and then configure the following:
    - In the OVOC Public IP field, configure the Public IP address of OVOC Cloud deployment.
    - In the Public User field, enter the Username for connecting to OVOC WebSocket Tunnel. Default: VPN

- In the Public Password field, enter the Password for connecting to OVOC WebSocket Tunnel (Cloud Architecture Mode only). Default: *123456* (note that after initial connection is established, you can change this password and add new users to manage this connection (refer to the OVOC IOM manual).
- 3. In the Trap Port field enter 162.
- 4. In the Keep Alive Port field enter one of the following:
  - 1161 for Public IP connection
  - 161 for On-Premises IP connection.
- 5. Configure the SNMPv2 community strings:
  - SNMPv2 Community Read string-**public**
  - SNMPv2 Community Write string -public
- 6. Configure SNMPv3 settings (OVOC On-Premises deployment only):
  - Security Name-Security Name of the SNMPv3 operator
  - Authentication Protocol-the SNMPv3 authentication protocol (SHA or MD5)
  - Authentication Key- the authentication password.
  - Private Protocol-the SNMPv3 privacy protocol (AES 128 or DES)
  - Private Key-the private key



The SNMPv2 and SNMPv3 settings should be identically configured on both SmartTAP 360° and the OVOC server.

View/Modify OVOC settings
OVOC Connection
IP Address : 0.0.0.0
Trap Port : 162
Keep Alive Port : 1161
SNMP
O SNMP v2
Security Name : v3
Authentication Protocol : MD5 🗸
Authentication Key :
Private Protocol : DES 🗸
Private Key :
System Info
Name : SmartTAP
Location : 133
Access Settings
Login URL : http://172.17.127.133/
SUBMIT CANCEL

Figure 22-2: SNMPv3 Settings

- 7. Configure System Information:
  - Name
  - Location
- 8. Login URL: this login is used for logging into the SmartTAP 360° Web interface from OVOC . Enter the SmartTAP Server IP address.
- 9. Verify that the DNS resolves for the OVOC FQDN is successful, for example Google.com:

C:\Users\enterprise1user>nslookup www.google.com	
Server: tlc-ovoc.trunkpack.com	
Address: 10.1.1.10	
Non-authoritative answer:	
Name: www.google.com	
Addresses: 2a00:1450:4006:801::2004	
172.217.18.36	

## **Whitelisting Certificate Files**

This option lets you specify for which SmartTAP Microsoft Windows Server certificates, expiration notification alarms (acVaCompCertificateExpiredAlarm) are sent to OVOC. This prevents excessive notifications for redundant certificates from flooding OVOC. When "Whitelist" is configured—in the SmartTapAS\_Monitor.json file, alarm expiration notifications are only sent to OVOC for those certificates listed under Whitelist . All other Microsoft certificates in the system are ignored and alarm notifications are not sent.

#### > To whitelist certificate files:

**1.** Retrieve the thumbprints of the certificates that you wish to configure. The thumbprint can be retrieved from the Certificate Details (see example figure below).

📮 Certificate		$\times$
General Details Certification Pa	ath	
Show: <all></all>	~	
Field Field Field CRL Distribution Points Subject Key Identifier SCT List Key Usage Thumbprint Friendly name 7e45ad2284a515c133a3872	Value Client Authentication (1.3.6.1 [1]CRL Distribution Point: Distr 72260c9a17b60acb251023a4 v1, f65c942fd1773022145418 Digital Signature, Key Encipher 7e45ad2284a515c133a3872b *.meetinginsights.net	~
[	Edit Properties Copy to File	
	OK	:

Figure 22-3: Example Certificate File Thumbprint

- 2. Open "C:\Program Files\Audiocodes\AlarmsAgent\Config\SmartTapAS\_Monitor.json".
- 3. Add the thumbprint of the certificates you wish to monitor under "WhiteList".

Example

"Severity": 4
},
{
"Threshold": "2",
"Severity": 5
}
],
"IgnoreList": [
"245c97df7514e7cf2df8be72ae957b9e04741e85",
"7f88cd7223f3c813818c994614a89c99fa3b5247",
"18f7c1fcc3090203fd5baa2f861a754976c8dd25",
"02faf3e291435468607857694df5e45b68851868",
"a43489159a520f0d93d032ccaf37e7fe20a8b419",
"cdd4eeae6000ac7f40c3802c171e30148030c072",
"75e0abb6138512271c04f85fddde38e4b7242efe",
"be36a4562fb2ee05dbb3d32323adf445084ed656",
"dac9024f54d8f6df94935fb1732638ca6ad77c13",
"75e0abb6138512271c04f85fddde38e4b7242efe",
],

"1234-5678-90abc-def1", "abcd-5678-90abc-1234"
"abcd-5678-90abc-1234"
],
"AlertWhen": 1,
"Text": "Certificate '{1}' will expire in {0} days",
"Source": null,
"DefaultSeverity": null
},

- 4. Save the file.
- 5. Restart "OVOC Alarms Agent" service.
- \*\*\*\* Not working with alias or subject \*\*\*\*\*\*

# 23 Alarms

This section describes the Alarms History and Alarm Notification screens.

## **Alarm History**

Open the Alarm History screen (System tab > Alarms Folder > Alarm History).

Figure 23-1: Alarm History

Alarm History: Alarms between 1/21/19 and 1/21/19					
From: 1/10/19	To: 1/10/19 Se	arch			
Name ≎	Description	Source \$	Date \$	Summary \$	Detail
Communication Down	Communication between processes has been lost.	st-cluster- n1/172.17.127.91	January 10, 2019 3:28:43 AM	Communication Lost	Hanaged Device AC-Plugin@SFB19-POOL1-FE1 failed to send heartbeat within specified time of Seconds. Device failed Host: SFB19-POOL1-FE1 Type: INTEGRATION_SFECTIC Type: INTEGRATION_SFECTIC Lash heartbertericevide on 2019-01-10 03:28:02.111
Communication Up	Communication between processes has been restored.	st-cluster- n1/172.17.127.91	January 10, 2019 3:31:02 AM	Communication Restored	Communication to managed device AC-Plugin@SFB19-POOL1-FE1 restored. Device Info 16: 18 Host: SFB19-POOL1-FE1 Type: INTEGRATION_SPECIFIC
Communication Down	Communication between processes has been lost.	SFB19-POOL1-FE189	January 10, 2019 9:46:04 AM	Communication Lost	Managed Device AC-Plugin@SFB19-POOL1-FE1 at SFB19-POOL1-FE1 connection for MediaProxy was lost.
Communication Up	Communication between processes has been restored.	SFB19-POOL1-FE189	January 10, 2019 4:04:12 PM	Communication Restored	Managed Device AC-Plugin@SFB19-POOL1-FE1 at SFB19-POOL1-FE1 connection for MediaProxy was restored.
			(1 of 1) I I	▶> ¥1 10 ▼	

Filtering of the display can be done according to date range and sort records according to name, description, source, summary and details.

## **Alarm Notifications**

SmartTAP 360° features the ability to automatically send email alarm notifications to selected network administrators. The notification sent is based on the type of alarm generated by the system.

#### > To configure alarm notifications:

Open the View/Modify Alarm Notifications screen (System tab > Alarms Folder > Notifications).

View/Modify Alarm Notifications		
Alarm	Description	Modify
Link Down	A physical communication link has been lost.	
Link Up	A physical communication link has been restored.	
Communication Up	Communication between processes has been restored.	
Communication Down	Communication between processes has been lost.	
Resource Threshold Exceeded	The threshold of a limited resource has been exceeded.	
I/O Error	Disk or Peripheral Failure.	
System Resource Error	Failed to allocate system resource.	
Resource Threshold Cleared	The usage of a limited resource has been reduced below the threshold value.	
Call Recording Error	Call not recorded or recorded with errors	
Configuration Error	Failed to execute configuration.	

- 2. Click Modify on the alarm that you wish to modify.
- **3.** Move the users to receive Email Notifications from the 'Non Recipients' side to the 'Recipients'.
- 4. Use the assignment keys to assign recipients of the alarm notifications:
  - Click the >> or << keys to move all users between the Non-Recipients and the Recipients list.
  - Select users and then use the < or > keys to move users between the Non Recipients and Recipients lists (use the CTRL key to select multiple users.

5. Click SUBMIT



	cation Communication Down Communication between processes has been lost.
Non Recipients	Recipients
pool1usr010 pool1usr011 User (PLEASE DELETE), Initial	
	SUBMIT CANCEL

6. Use the table below as reference to the Viewing/Modifying Alarm Notifications screen.

Table 23-1: Viewing/Modifying the Alarm Notifications Screen	Table 23-1:	Viewing/	Modifying	the Alarm	<b>Notifications Screen</b>
--	-------------	----------	-----------	-----------	-----------------------------

Field	Description
Alarm	Alarm name. Sorted ascending/descending by clicking header up/down arrows. If defined, field entry displays only matching entries.
Description	Alarm description. Sorted ascending/descending by clicking header up/down arrows. If defined, field entry displays only matching entries.
	Click to modify the list of users receiving this alarm notification.

For a list of alarms and possible causes with recommended remedial actions, see SmartTAP Alarms on page 239

The figure below shows alarm notifications for the 'Resource Threshold Exceeded' notification; sent when the system utilization has exceeded the maximum number of available licenses. The 'Resource Threshold Cleared' notification is sent when the system license utilization falls back within the threshold limit.

View/Modify Alarm Notifications		
Alarm 🗘	Description \$	Modify
Link Down	A physical communication link has been lost.	
Link Up	A physical communication link has been restored.	
Communication Up	Communication between processes has been restored.	
Communication Down	Communication between processes has been lost.	
Resource Threshold Exceeded	The threshold of a limited resource has been exceeded.	
I/O Error	Disk or Peripheral Failure.	
System Resource Error	Failed to allocate system resource.	
Resource Threshold Cleared	The usage of a limited resource has been reduced below the threshold value.	
Call Recording Error	Call not recorded or recorded with errors	
Configuration Error	Failed to execute configuration.	

Figure 23-4:	View/Modify	/ Alarm	Notifications
--------------	-------------	---------	---------------

## **Monitoring System Health**

The health of the SmartTAP 360° server is based on the host platform MIB. The System Health screen shown in the figure below displays the current health statistics of the server.

System Health			
	CPU 0 CPU 1 CPU 2 CPU 3 Physical Memory		15% 21% 18% 43% 3672MB / 4094MB
172.17.127.91 Monday, December 31, 2018 12:32:55 PM	C:\		4094MB (90%) 49MB / 59MB (83%)
	S:\	-	1343KB / 10205KB (13%)

## Windows Event Log

By default alarms and events raised on SmartTAP 360° are sent to the OVOC server as SNMP traps (see Configuring OVOC Connection on page 225) and are not sent by default to the Windows Event Log.

- > To enable sending SmartTAP 360° alarms and events to the Windows Event Log:
- **1.** Using a text editor, open the MainAgent configuration file "System.config" from directory ...MainAgent\Config.
- 2. Search for string "useEventViewer="false" and change to "useEventViewer="true".
- **3.** Save changes and exit.
- 4. Restart the OVOC Main Agent service.

#### Figure 23-5: useEventViewer

101	Description: The interval (in milliseconds) between ems keep alive traps
102	DefauleValue=30000
103	
104	adminRefreshInterval="3600000"
105	Description: The interval (in milliseconds) between admin info requests
106	DefauleValue=3600000
107	
108	localSnmpPort="161"
109	Description: Local SNMP port to recieve requests from EMS
110	DefauleValue=161
111	
112	alarmHistorySize="10000"
113	Description: Maximum size of history alarms
114	DefauleValue=10000
115	
116	activeAlarmSize="1000"
117	Description: Maximum size of active alarms
118	DefauleValue=1000
119 120	sbcTnternalTP="169.254.100.1"
120	sbCinternall=""109.25+.100.1" Description: IP address of the associate SBC over internal VLAM/PrivateNetwork
121	Description: if address of the associate SpC over internal VLAN/FrivateNetWork DefauleValue=166.254.100.1
122	beladlevalue=109.293.100.1
123	httpLicenseMode="https"
125	Description: HTTP mode for licence requests. Can be 'http' or 'https'
126	DefaultValue=https
127	
128	useEventViewer="false"
129	Description: Use Event Viewer as Alarms/Events destination
130	DefaultValue=false
131	
132	publicOvocInternalIp="169.254.0.1"
133	Description: The internal ip of the public OVOC, incase connecting via PublicOvocConnector
134	DefaultValue=169.254.0.1
135	
136	ovocConnectorAccessUrl=" <u>http://localhost:8867/</u> "
137	Description: The url for sending requests to Public Ovoc connector
138 139	DefaultValue = "http://localhost:8867/"
139 140	ovocGroup="Generic App"
140	ovocroup="ceneric App" Description: The name that used in sysDescription and select mib file
141	Description: Ine name that used in syspescription and select mid file DefaultValue = "Generic App"
142	DefailtValue - "Generic App"
144	> System httpClientMode="http" adminAccessUrl="http://localhost:80/rs/audiocodes/recorder/api/" ovocGroup="SmartTap" useEventViewer="true"/>
145	

When the Alarm Notification is written to the Windows Event Log, the Application Server creates two types of log filesunder "Applications and Services Logs" category in the Windows Event Log:

- SmartTAPCalls: this log includes all alarms and events related to call recording that were logged while running according to the logging configuration. The source attribute of these alarms is "SmartTCalls" and Event ID=<EventID> <Task Category> where 1-Alarm and 2-Event.
- SmartTGeneral: this log includes all otheralarm and events that were logged while running according to the logging configuration. The source attribute of these alarms is "SmartTGeneral" and Event ID=<EventID> <Task Category> where 1-Alarm and 2-Event .

File Action View Help							
Event Viewer (Local)	SmartTCalls Numbe						Actions
Custom Views	Level	Date and Time 12/19/2019 12-	18:05 PM	Source SmartTCalls	Event ID Task Category 1000 (1)		Smart/Calls       Øpen Savel Log            Create Cutom Wiew Impot Custom Wiew Clear Log Finder Current Log Properties Find         Save All Events Az
Subscriptions	Event 1000, SmartTCal	ls				×	Attach a Task To this Log View
	General Details						G Refresh
	The SmartTCalls w	as successfully initialize con	ponent.				
	I Log Name: Source: Event ID: Level: User: OpCode: More Information:	SmartTCalls SmartTCalls 1000 Information N/A <u>Event Log Online Help</u>	Logged: Task Category: Keywords: Computer:	12/19/2019 12:48:05 PM (1) Classic lab-smarttap01.stlab.local			





				Event Viewer				- 0
ion View Help								
liewer (Local)	SmartTGeneral Num	nber of events: 7	_	_	_	_	Action	ns
Event (Vewer (Loca))     Smmell Grenizal            Guttom Views Mindows Logs Applications and Services Logs General Explorer General Explorer Microsoft Gomant CAP	<ul> <li>Information</li> <li>Error</li> <li>Error</li> <li>Information</li> <li>Error</li> <li>Error</li> <li>Error</li> <li>Error</li> </ul>	Date and Time 12/19/2019 12:51: 12/19/2019 12:48: 12/19/2019 12:48: 12/19/2019 12:48: 12/19/2019 12:48: 12/19/2019 12:48:	47 PM 17 PM 14 PM 12 PM 06 PM	Source SmartTGeneral SmartTGeneral SmartTGeneral SmartTGeneral SmartTGeneral SmartTGeneral	Event ID 1010 1009 1010 1010 1009 1009 1000	(1) (1) (1) (1) (1)	j≦ O Y C In C V Fi B Pi B Fi	
Windows PowerShell ed Logs	Event 1010, SmartTGer	and						ave All Events As Attach a Task To this Log
scriptions	General Details	ieral					Vi	
							C R	
	Text=Communicat	tion Down, Source=AC_Health	Monitor@LAB-SI	MARTTAP01, Severity=Cleared Additional vithin specified time of 36000mS.	IInf0=Managed Device		2 H	lelp
				within specifica time or sociority.				
	Device Info:						Even	t 1010, SmartTGeneral
	Device Info: Id: 8,	TAP01						
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI	ONITOR,					Ev	vent Properties
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI		02				🗐 Ev 🔟 Ar	vent Properties Attach Task To This Event
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI	ONITOR,	02				💮 Ev 🔞 A 🔁 C	vent Properties Attach Task To This Event Copy
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI	ONITOR,	02				E C	vent Properties Attach Task To This Event Opy ave Selected Events
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI	ONITOR,	02				E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type: HEALTH_MI	ONITOR,	02				E C	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type HEALTH, M Last heartbeat reco	ONITOR eived on 2019-12-19 12-48:11.20 SmartTGeneral		12/19/2019 12:51:35 PM			E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type HEALTH, M Last heartDeat reco	ONITOR eived on 2019-12-19 12:48:11.20 Smant General Smant General	Logged:	12/19/2019 12:51:33 PM (1)			E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type HEALTH, M Last heartbeat reco	ONITOR, eived on 2019-12-19 12:48:11.20 SmartTGeneral SmartTGeneral 100	Logged: Task Category:				E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type HEAITH, M Last heartbeat reco Log Name: Source: Event ID:	ONITOR, eived on 2019-12-19 12-48:11.20 SmartTGeneral SmartTGeneral 1010 Information	Logged: Task Category: Keywords:	(1) Classic			E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh
	Device Info: Id: 8, Host: LAB-SMART Type HEALTH, Mi Last heartbeat reco Log Name: Source: Event ID: Level:	ONITOR eived on 2019-12-19 12:48:11:20 SmartTGeneral SmartTGeneral 1010 Information	Logged: Task Category: Keywords:	(1)			E C C C R R	vent Properties Attach Task To This Event copy ave Selected Events Lefresh

## **SCOM Integration**

The SmartTAP 360° platform can be configured to generate the event monitor or send an alert based on a Windows event to the Microsoft SCOM platform. In case of SmartTAP 360°, the

monitored events source should be configured to "SmartTAP 360°" with Event ID 4096. For more information, see the following link: <u>Monitor Event Log.</u>

## **SmartTAP Alarms**

This section describes the SmarTAP alarms.

## SmartTAP System Alarms

This section describes SmartTAP Microsoft Windows Server System alarms.

#### Alarm – Component Unreachable

Alarm Field	Description						
Description	<ul> <li>This alarm is raised in the following circumstances:</li> <li>The OVOC Main Agent is unable to connect to one of the OVOC Client agents. Note that currently the Client agent is only installed on the SmartTAP application server.</li> <li>The SmartTAP Application server is unable to connect to the SmartTAP Web Admin Interface</li> </ul>						
SNMP Alarm	acVAManEnvUnreachableAlarm						
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.1						
Alarm Source	SmartTapAS_ <fqdn></fqdn>						
Alarm Title	Component Unreachable						
Alarm Type	Other						
Probable Cause	Other						
Alarm Severity	Condition	<text></text>	Corrective Action				
Major	The OVOC Main Agent is unable to connect to one of the installed OVOC Client agents. AudioCodes_CS; CallDelivery-IP; HealthMonitorSvc ; AudioCodesMPSvc; HPXMedia; RemoteTransferService; AcProcDump ; CallDeliverySR; CallDelivery;CallDeliveryLD; CallDeliveryAES; SmartTapMonitoringSvc	Unable to connect to client agent on <smarttapas_ FQDN&gt;</smarttapas_ 					
	The SmartTAP Application server is unable to connect to the SmartTAP Web Admin interface.	Unable to Connect to Voice Application Admin					
Cleared	OVOC Client agent is re-available						

#### **SmartTAP Event – Component Restart**

Alarm Field	Description
Description	This event is raised when the SmartTAP Application server has been restarted.
SNMP Alarm	acVAManEnvRestartEvent
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.2
Alarm Source	SmartTapAS_ <fqdn></fqdn>
Alarm Title	Component Restart
Alarm Type	Other
Probable	Other

Alarm Field	Description				
Cause					
Additional Info	The restart reason				
Alarm Severity	Condition	<text></text>	Corrective Action		
Major	The SmartTAP Application server has been restarted. AudioCodes_CS; CallDelivery-IP; HealthMonitorSvc ; AudioCodesMPSvc; HPXMedia RemoteTransferService; AcProcDump CallDeliverySR; CallDelivery;CallDeliveryLD; CallDeliveryAES; SmartTapMonitoringSvc	Component <smarttap as="" fqdn=""> restarted</smarttap>	-		

### **Event – Component Resource Failed**

Alarm Field	Description						
Description	This event is raised in the following circumstances:         The allocation of resources for recording licenses has been exceeded         Media Server management has failed						
SNMP Alarm	acVaCompResFailedEvent						
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.9						
Alarm Source	SmartTapAS_ <fqdn>_<resource>, where <resource> is one of the following:         Licenses:         imLicQuotaExceeded         videoLicQuotaExceeded         userLicQuotaExceeded         mediaFwdLicQuotaExceeded         iicUnavailable         Media Server Resource Failure:         Hmp - channelResourceFailure         Hmp bindingFailure         Hmp bindingFailure         Hmp rtsTransferFailed</resource></resource></fqdn>						
Alarm Title	Component Resource Error						
Alarm Type	Other						
Probable Cause	Other						
Additional Info	-						
Alarm Severity	Condition (related resource indicated in parenthesis) <pre>corrective Action</pre>						
Major	The quota for the number of users targeted for Instant Messaging has been exceeded     IM target quota exceeded     Reduce the number of users/devices targeted for Instant Messaging recording or purchase additional licenses.						
Major	The quota for the number of users targeted for video target     video target     Reduce the number of users/devices targeted for video has been exceeded       (videoLicQuotaExceeded).     Reduce the number of users/devices targeted for video recording or purchase additional licenses.						

Alarm Field	Description			
Major	The quota for the number of users/devices targeted for audio recording has been exceeded (userLicQuotaExceeded).	Audio User target license exceeded	Reduce the number of users/devices targeted for audio recording or purchase additional licenses.	
Major	The quota for the number of users/devices targeted for audio recording has been exceeded (mediaFwdLicQuotaExceeded).	Recording license exceeded	Reduce the number of users/devices targeted for audio recording or purchase additional licenses.	
Major	No license is available. All licenses are currently consumed (licUnavailable).	-	-	
Major	The Media server failed to create a channel resource (Hmp - channelResourceFailure).	Media server failed to create channel resource	-	
Major	The Media Server failed to write to disk (Hmp createFileFailed).	-	Check available disk space. Check that Media Serve has read/write permissions on the local disk.	
Major	Media Server cannot bind to ports in order to open media channels (Hmp bindingFailure).	-	Verify that other applications are not using UDP ports in the range of 40000 – 50000. Restart Media Server.	
Warning	Transfer Server failed to copy files from tem- porary, local recording location to remote storage (Hmp rtsTransferFailed).	Transfer service failed to copy	Verify that the Remote Transfer Service is running with permissions that grant it read/write access to the media storage volume.	
Major	The Media server failed to create a file with recorded media (Hmp writeFileFailed)	Media server failed to create a file	Check available disk space. Check that Media Serve has read/write permissions on the local disk.	

### Alarm - Component Resource Threshold Exceeded

Alarm Field	Description		
Description	This alarm is raised when one of the SmartTAP component resources listed below has reached its pre-defined threshold. This alarm applies for the following resources:		
	Recording license notification thresholds (for all recording license types) triggered according to the configuration in the SmartTAP Web interface License screen.		
	Media Storage notification thresholds triggered according to the following:		
	✓ <b>SMB/File Storage:</b> Configuration in the SmartTAP Web interface Storage Statistics screen.		
	✓ Azure Blob Storage: Thresholds shown below for Azure Blob storage event.		
	The total hours of calls analyzed by the Analytics Service has exceeded the limit.		
	The number of licensed Analytics users has exceeded the limit.		
SNMP Alarm	acVaResourceThresholdAlarm		
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.11		
Alarm Source	SmartTapAS_ <fqdn>_<resource>, where <resource> is one of the following:</resource></resource></fqdn>		
	SmartTAP License Threshold Notification value (for all recording license types)		
	Media Storage Notification Threshold value		
	Analytics Hours license value		
	Analytics Users license value		
	AzStorage		
Alarm Title	Alarm - Component Resource Threshold Exceeded		
Alarm Type	Other		
Probable Cause	Other		
Additional Info	AzStorage:		
	Total Space: <amount> GB</amount>		
	Free Space Remaining: <amount> GB</amount>		

Alarm Field		Description			
	Estimated Reco	cording Time Remaining:- <number months="" of=""></number>			
Alarm Severity	Condition	<text></text>	Corrective Action		
Critical/Major/Warning	The media storage location threshold has been reached.	Media Storage threshold exceeded	<ul> <li>Verify the Notification Threshold setting configuration in the Storage Statistics screen. It's possible that there is sufficient storage and that the threshold needs to be adjusted.</li> <li>Add additional storage capacity to the file server to support additional media files (recordings). The file server is external to SmartTAP.</li> </ul>		
	Recording License threshold has been exceeded.	Recording License threshold exceeded	<ul> <li>Verify the Notification Threshold setting configuration in the License screen. It's possible that there are sufficient licenses and that the threshold needs to be adjusted.</li> <li>Purchase additional recording licenses</li> </ul>		
	The total number of hours of analyzed calls by Analytics Service has exceeded the limit.	Analytics Hours license Threshold Exceeded	<ul> <li>Verify the Notification Threshold setting configuration in the License screen. It's possible that there are sufficient licenses and that the threshold needs to be adjusted.</li> <li>Purchase additional Analytics hours</li> </ul>		
	The number of licensed Analytics users has exceeded the limit.	Analytics Users license Threshold Exceeded	<ul> <li>Verify the Notification Threshold setting configuration in the License screen. It's possible that there are sufficient licenses and that the threshold needs to be adjusted.</li> <li>Purchase additional Analytics user licenses</li> </ul>		
	The threshold of a limited resource has been exceeded.	The Blob Storage usage reached 90% of available storage.	Purchase additional storage or transfer media to another disk.		
Cleared	<ul> <li>When counter returns below the threshold level.</li> <li>The Blob Storage usage reached 80% and below.</li> </ul>	-	-		

## **Alarm – Connection Failure**

Alarm Field	Description		
Description	This alarm is raised in the following circumstances:		
	The connection between one of the SmartTAP components and the SmartTAP Application server is down.		
	The connection between other SmartTAP components is down.		
SNMP Alarm	acVaConnectionFailureAlarm		
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.12		
Alarm Source	<smarttapcomponent>@ <fqdn>:</fqdn></smarttapcomponent>		
	AC-MediaProxy @ <fqdn></fqdn>		
	AC-Annoucement @ <fqdn></fqdn>		
	CS@ <fqdn></fqdn>		
	CD-IP@ <fqdn></fqdn>		
	CD-SIPREC@ <fqdn></fqdn>		
	MediaDelivery@ <fqdn></fqdn>		
	Media Server@ <fqdn></fqdn>		
	AC_HealthMonitor@ <fqdn></fqdn>		

Alarm Field	Description				
	AC-Plugin@ <fqdn></fqdn>				
	RTS@ <fqdn></fqdn>				
Alarm Title	Alarm – Connection Failure				
Alarm Type	Other				
Probable Cause	Other				
Additional Info	-				
Alarm Severity	Condition	<text></text>	Corrective Action		
Critical/Major/Warning	Communication between SmartTAP component and SmartTAP Application server is down	Communication Down Details: Managed Device <smarttapcomponent>@<hostnamefqdn> failed to send heartbeat within specified time of <xxms>.Device Infold: <smarttapinternalid>HostNameType: COM_ SERVERDisplay Name: <hostname>Last heartbeat received on <yyyy-mm-dd> <hh:mm></hh:mm></yyyy-mm-dd></hostname></smarttapinternalid></xxms></hostnamefqdn></smarttapcomponent>			
	Connection from CallDelivery to       Communication Down Details: Call Delivery at         lyncPlugInServerConnDown <hostnamefqdn> lost connection to FE Plugusing TCP</hostnamefqdn>				
	Connection from CallDelivery to lyncPlugInSWConnDown				
	Connection from CallDelivery to communication server	Communication Down Details: Call Delivery at <hostnamefqdn> lost connection to com- munication server Plug-using TCP</hostnamefqdn>			
	Connection from CallDelivery to Media delivery	Communication Down Details: Call Delivery at <hostnamefqdn> lost connection to Media delivery using TCP</hostnamefqdn>			
	Connection between Media Proxy and Calldelivery	Communication Down Details: Call Delivery at <hostnamefqdn> lost connection to AC-Medi- aProxy using TCP</hostnamefqdn>			
	Connection from lync Plugin to Media Proxy	Communication Down Details: AC-Plugin at <hostnamefqdn> lost connection to AC-Medi- aProxy using TCP</hostnamefqdn>			
	Connection from lync Plugin to CallDelivery	Communication Down Details: AC-Plugin at <hostnamefqdn> lost connection to Call Deliv- ery at <hostnamefqdn> using TCP</hostnamefqdn></hostnamefqdn>			
	Connection from Lync plugin to ann	Communication Down Details: AC-Plugin at <hostnamefqdn> lost connection to Annouce- ment Server at <hostnamefqdn> using TCP</hostnamefqdn></hostnamefqdn>			
Cleared	-	The connection is up again	-		

# SmartTAP Agent Alarms

This section describes SmartTAP Microsoft Windows Server Agent alarms.

# Alarm – Component Performance Counter General

Alarm Field	Description
Description	This alarm is raised when the generic performance counter on the SmartTAP Application server has reached a pre-defined threshold for memory/CPU/disk.

Alarm Field	Description		
SNMP Alarm	acVACompPcGenAlarm		
SNMP OID	1.3.6.1.4.1.5003	3.9.40.3.2.0.21	
Alarm Source	SmartTapAS_ <fc< td=""><td>DN&gt;/<performance group="" monitor="">/<performance monitor="" name="">/<networkadaptername></networkadaptername></performance></performance></td><td>&gt;</td></fc<>	DN>/ <performance group="" monitor="">/<performance monitor="" name="">/<networkadaptername></networkadaptername></performance></performance>	>
Alarm Title	Component Per	formance Counter General	
Alarm Type	QualityOfService	eAlarm	
Probable Cause	Other		
Additional Info	-		
Alarm Severity	Condition	<text></text>	Corrective Action
Critical	Pre-defined severity per counter type.	GeneralCounter performance counter <per- formanceCounterGroup/<performancecountername>/<networkinterfacename>is Above threshold <thresholdlevel></thresholdlevel></networkinterfacename></performancecountername></per- 	-
Major	Pre-defined severity per counter type.	GeneralCounter performance counter <performancecountergroup <performancecountername="">/<networkinterfacename>is Above threshold <thresholdlevel></thresholdlevel></networkinterfacename></performancecountergroup>	-
Warning	Pre-defined severity per counter type.	GeneralCounter performance counter <performancecountergroup <performancecountername="">/<networkinterfacename>is Above threshold <thresholdlevel></thresholdlevel></networkinterfacename></performancecountergroup>	-
Cleared	When counter returns below the threshold level.	-	

## **Alarm – Component Service Status**

Alarm Field	Description		
Description	This alarm is raised when a component service on the SmartTAP Application server is down. These services include SmartTAP components, for example, HealthMonitorSvc and core Windows components, for example, AcProcDump.		
SNMP Alarm	acVaCompSrvAlarm		
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.23		
Alarm Source	SmartTapAS_ <fqdn>/<servicename> is one of the following:</servicename></fqdn>		
	AudioCodes_CS		
	MySQL		
	CallDelivery-IP		
	HealthMonitorSvc		
	AudioCodesMPSvc		
	HPXMedia		
	RemoteTransferService		
	AcProcDump		
	CallDeliverySR		
	CallDelivery		
	CallDeliveryLD		
	CallDeliveryAES		
	SmartTapMonitoringSvc		
Alarm Title	Component Service Status		

Alarm Field	Description		
Alarm Type	Other		
Probable Cause	Other		
Additional Info	-		
Alarm Severity	Condition	<text></text>	Corrective Action
Critical	Service is down	SERVICE_ STOPPED (indicates which service is down)	-
Major	Service is down	SERVICE_ STOPPED (indicates which service is down)	-
Warning	Service is down	SERVICE_ STOPPED. (indicates which service is down)	-
Cleared	Service is running	SERVICE_ RUNNING	

## Alarm – Component Event Viewer Dropped

Alarm Field	Description
Description	This alarm is raised when events from the Event Viewer are dropped after the sending rate threshold has been exceeded; preventing a burst of events being raised for a specific component.
SNMP Alarm	acVaCompEventViewerDropped
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.26
Alarm Source	N/A
Alarm Title	Component Event Viewer Dropped
Alarm Type	Other
Probable Cause	Other
Alarm Text	Events from Event Viewer dropped due to high sent rate
Additional Info	-
Alarm Severity	Indeterminate

## Alarm – Certificate Expired

Alarm Field	Description			
Description	This alarm is raised when one of the Microsoft Windows-certificates installed on the SmartTAP Application server is about to expire.			
SNMP Alarm	acVaCompCertificateExpiredAlarm			
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.27			
Alarm Source	SmartTapAS_ <fqdn></fqdn>			
Alarm Type	Other			
Probable Cause	Other			
Alarm Severity	Condition	<text></text>	Corrective Action	
Critical	Raised when the certificate will expire in less than two days	Certificate will expire in <days left&gt; days</days 	Verify which certificate is about to expire and renew it.	
Major	Raised when the certificate will expire in less than 30 days.	Certificate will expire in <days left&gt; days</days 	Verify which certificate is about to expire and renew it.	
Cleared	When certificate is renewed	-	-	

## Alarm – Disk Space

Alarm Field	Description			
Description	This alarm is raised when the server disk space on the SmartTAP Application Server drive is above the pre-defined threshold.			
SNMP Alarm	acVaDiskSpaceAlarm			
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.28			
Alarm Source	SmartTAPAS_ <fqdn>/DriveName:\\</fqdn>			
Alarm Text	Disk space usage is over {0}%			
Alarm Type	Other			
Probable Cause	Other			
Alarm Severity	Condition <text> Corrective Action</text>			
Critical/Major/Warning	Pre-defined severity for percentage of used disk space.	Disk space usage is over {0}%	Free temporary files and other unnecessary file from the disk.	
Cleared	Used disk space is below threshold.	-	-	

## **SmartTAP Application Server Alarms**

This section describes SmartTAP Application Server alarms.

### **Call Recording Error Event**

Alarm Field	Description	
Description	This event is raised when errors are reported by the Health Monitor to the SmartTAP Application server.	
SNMP Alarm	acVaCallRecordingErrorEvent	
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.13	

Alarm Field		Description			
Alarm Title	Call Recording Error Event				
Alarm Source	SmartTAPAS_FQDN				
Alarm Type	Other				
Probable Cause	Other				
Additional Info					
Alarm Severity	Condition	<text></text>	Corrective Action		
Major	One of the following Health Monitor services reported an error to the SmartTAP Application server	as below			
	NoMediaFile(301)	Call not recorded or recorded with errors	Check ST configuration and health		
	NoFileOnDisk(302)	Call not recorded or recorded with errors	Check ST configuration and health		
	TestCallWarning(303)	Call not recorded or recorded with errors	Check ST configuration and health		
	TestCallNotRecorded(304)	Call not recorded or recorded with errors	Check ST configuration and health		
	FileXferFailed(204)	Error: Can't upload file to blob	<ul> <li>Check Media location configuration in SmartTAI</li> <li>Check Azure Blob accessibility and health</li> </ul>		
	ComplianceRecordedButNotAssignedToRecProfile (209)	RecordedButNotAssignedToRecProfile User is targeted but has no Assign R recording profile in ST under C Policy			
	JoinCallFailed(210)	Bot failed to join the call	<ul> <li>Check Service Fabric Cluster health</li> <li>Verify MSFT Graph API accessibility and responsiveness</li> </ul>		
Major	CdrRecoveryFailed(450)	Call Recovery Failed, file <path> has exceeded the allowed failure threshold.</path>	Check SmartTAP and CD-Live configuration		
Major	CdrRecoveryFailed(450)	Call Recovery Failed with status code <statuscode>, file <path></path></statuscode>	Check faulty CDR file		

## **Event – Configuration Error**

Alarm Field	Description						
Description	This event is raised under the following circumstances:						
	A user is mapped to two or more Retention Policies groups via AAD mapping. In this case, the user is not assigned to any retention policy.						
	A user is mapped to two or more Recording Profile groups via AAD mapping. In this case, the user is not be assigned to any recording profile.						
	Problems with Azure Storage account configuration						
	A user is mapped to two or more media locations groups via AAD mapping. In this case the user will not be assigned to any media location.						
	A user is mapped to two or more analytics profiles groups via AAD mapping. In that case the user will not be assigned to any analytics profile.						

Alarm Field	Description					
	User access to Azure Cognitive Services is unauthorized.					
SNMP Alarm	acVaConfigErrorEvent					
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.14					
Alarm Source	<n><un> (where n is the name of the component or ip:port and ur</un></n>	is the user name)				
Additional Information	<ul> <li>User xxx will not be recorded. A user can not be assigned to two or more AAD groups that are mapped to recording profiles in SmartTAP. Please make sure the user is assigned to one AAD group that is mapped to a recording profile.</li> <li>User xxx is not assigned to a mapped retention policy and will be assigned to the default retention policy. A user can not be assigned to two or more AAD groups that are mapped to retention policies in SmartTAP. Please make sure the user is assigned to one AAD group that is mapped to a the user is assigned to one AAD group that is mapped only when mapping retention policies.</li> <li>User <ul> <li>User <ul> <li>user <ul> <li>user and</li> <li>user <ul> <li>user <ul< td=""></ul<></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>					
Alarm Type	Other					
Probable Cause	Other					
Alarm Severity	Condition	Text	Corrective Action			
Major	A user cannot be assigned to multiple AAD groups for Recording Profiles.					
Major	A user cannot be assigned to multiple AAD groups for Retention       Failed to assign a Retention Policy         Policies.       to a user		Check AAD Configuration			
Major	Failed to assign a recording location to a Teams Bot node	A recording location is not assigned for Teams Bot node <src>.</src>	Check Recording Location Configuration			
Major	A user cannot be mapped to two or more media locations groups via AAD mapping.	Failed to assign a Media Location to a user	Check the Media Location Group assignments.			
Major	A user is mapped to two or more analytics profiles groups via AAD mapping; the user will not be assigned to any analytics profile.					
Major	Access to Azure Cognitive Services is unauthorized.	CognitiveServiceMisconfiguration	Check the permissions authorizations t Azure Cognitive Services.			

## **Recording Resource Failure**

Alarm Field	Description		
Description	This alarm is raised when the recording resource is not available		
SNMP Alarm	aRecordingResourceFailureAlarm		
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.15		
Alarm Title	Recording Resource Failure		
Alarm Source	<ul> <li>botNodeName@botclusterFQDN</li> <li>botCluster@botclusterFQDN</li> </ul>		
Alarm Type	Other		
Probable Cause	Other		

Alarm Field	Description						
Alarm Severity	Condition	Text	Corrective Action				
Critical	RecordingClusterNotAvailable (Teams Bot cluster is not available): The cluster is overloaded and further calls won't be recorded.	Image: Action of the second					
Warning	RecordingNodeNotAvailable (Teams Bot node is not available): The reporting node is overloaded, bot is still might record further calls if there is another node which is not overloaded.	paded, bot resource available Alarm. te					
Cleared	Teams Bot node is available again	Teams Bot node - no recording resource available Cleared.					
Cleared	Teams Bot cluster is available again	Teams Bot cluster - no recording resource available Cleared.					

# 24 Managing Certificates

SmartTAP 360° server by default operates in non-secure (HTTP) mode. This section describes how to optionally implement SSL/TLS (HTTPS) for the following:

- Securing the connection between your Web browser and the SmartTAP 360° server
- Digitally signing audio files

SmartTAP supports the creation of new certificates and the uploading of existing certificates:

- Generating New Certificates on the next page
- Upload Existing Certificates on page 260

Before configuring certificates, note the Browser Connection Certificate Requirements below



SmartTAP 360° supports HTTPS/TLS 1.2.

## **Browser Connection Certificate Requirements**

The certificate issued should contain the SAN (Subject Alternative Name) extension field, populated with all the correct URLs used to refer to the AS server:

- The FQDN (Fully Qualified Domain Name) of the AS server
- The Hostname (short server name, sans domain)
- The public IP of the AS server
- Any other CNAME used to refer to the AS server

In addition, ensure the following:

- All SAN entries are resolvable via the DNS configured on participating servers/workstations. Make sure the "DNS Suffixes" IPv4 setting is configured correctly.
- Whenever the network is installed with Microsoft Enterprise CA (as opposed to Microsoft Standalone CA), the Domain's root CA certificate is automatically distributed to all domain member servers and workstations. No further action is required.
- Servers/Workstations that are not members of the forest where Microsoft Enterprise CA is installed, and house SmartTAP 360° components or used to manage SmartTAP 360° via browser, should have the root CA certificate imported into Windows' "Trusted Root Certificates" store.
- When using 3rd party Certificate Management Suite to self-issue a private certificate chain (as opposed to using a Global CA to issue a Global Certificate), the root CA certificate and intermediate certificates should be imported to certificate local store (Root certificate to 'Trusted Root Certificates', Intermediate certificate to 'Intermediate certificates') on all servers where SmartTAP 360° components reside, and all computers used to manage SmartTAP 360° via its web interface.

## **Generating New Certificates**

New certificates are generated in the following stages:

- Step 1: Generate Certificate Signing Request (CSR) below
- Step 2: Load New Certificates on page 254

## Step 1: Generate Certificate Signing Request (CSR)

To obtain a certificate, first generate a CSR (Certificate Signing Request) from the SmartTAP 360° server. A CSR is an encoded file that provides you with a standardized way to send the necessary details to a trusted authority in order to have the certificate created. When you generate a CSR, the software prompts for the following information - common name (e.g., www.example.com), organization name, location (country, state/province, city/town).



- The CSR is listed in the Certificate list as a self-signed certificate if you choose not to get a signed certificate from a trusted authority.
- To create a CSR, SmartTAP 360° will automatically use Key type = RSA, Key size = 2048 and Cryptographic Hash = SHA-256.

#### ➤ To generate a CSR:

1. Under the System tab, select Create Signing Request.

Figure 24-1: Certificate Signing Request Scree	Figure 24-1:	Certificate	Signing	Request	Screer
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Certificate Signing Request	
CSR Alias	
Common Name(CN)	
Subject Alternative Name(SAN)	DNS
	Add
<b>Business Name / Organization</b>	
Department Name / Organization Unit	
Town / City	
Province, Region, County or State	
Country	
	SUBMIT CANCEL

2. Use the table below as reference when defining the fields.

Field	Description				
CSR Alias	Internal name associated with the CSR request.				
Common Name (CN)	Full hostname=FQDN (consists of hostname + domain name).				
Subject Alternative       Email: Indicates the email address of the organization         Name (SAN)       DNS: Indicates the name of the organization's DNS server         IP_ADDRESS: Indicates the IP address of the organization         URL: Indicates the URL of the organization's host server					
Business Name / Organization	The legally registered name of your organization/enterprise.				
Department Name/ Organization Unit	The name of your department within the organization (frequently this entry will be 'IT', 'Web Security', etc.).				
Town / City	The city in which your organization is located.				
Province, Region, County or State	The Province, Region, County or State in which your organization is located.				
Country	The country in which your organization is located. The following list of country codes is provided as a reference: <u>http://www.digicert.com/ssl-certificate-country-codes.htm</u>				
Email	This field is optional				
Public Key	Created automatically by SmartTAP 360°.				

#### Table 24-1: Certificate Signing Request Screen

It's inadvisable to abbreviate any information except for the country codes (i.e., enter New Jersey rather than NJ), to make sure there are no issues when you send the CSR to a trusted authority in order to generate the certificate, else it may be rejected.



; the CSR is automatically available for download from the browser.

4. Save the 'filename.csr' file and send it to the trusted authority.



3.

Go to the View/Modify Certificate List to upload the official certificate from the trusted authority, in order to continue.

### Viewing/Modifying the Certificate List

Figure 24-2: Viewing/Modifying the Certificate List

View/Modify Certificate List								
Alias 🗘	Subject \$	Subject Alternative Name	Issuer ≎	Expires On 🗘	Import	Export	View	Delete
SmartTAP	audiocodes.com, Compliance, AudioCodes, Somerset, NJ, US		audiocodes.com, Compliance, AudioCodes, Somerset, NJ, US	Tue Nov 03 18:34:26 IST 2015				
TEST_CSR	audiocodes.com, Sales, AudioCodes, Somerset, NJ, USA		audiocodes.com, Sales, AudioCodes, Somerset, NJ, USA	Fri May 13 18:41:30 IDT 2016				Ō
20 <b>v</b>    (1 of 1)								

#### Table 24-2: Viewing/Modifying the Certificate List

Field	Description
	Import signed Certificate 'filename.cer' from trusted authority
	Export Certificate to file to the local machine 'filename.cer'
	View Certificate

#### > To import a certificate:

- Open the View/Modify Certificate List page (System tab > Certificates folder > View/Modify Certificate List).
- 2. Click the **Import** icon and then the Browse button **Import** the location of the appropriate certificate file: 'filename.cer'



to navigate to

Figure 24-3: Import Certificate

- **3.** Once selected, click the **Upload** link.
- 4. Once the upload completes, you should see a success message in the 'Command Execution Results' area.

• Certificate for alias smarttap recorder successfully uploaded.

#### > To export a certificate:

- Open the View/Modify Certificate List page (System tab > Certificates folder > View/Modify Certificate List).
- 2. Click the Export icon; the Certificate should now be available for download to the local PC.

Do you want to open or save smarttap recorder.cer (1.22 KB) from localhost?	<u>O</u> pen	<u>S</u> ave	-	<u>C</u> ancel	×
---	--------------	--------------	---	----------------	---

#### > To view a certificate:

1. Open the View/Modify Certificate List page (System tab > Certificates folder

> View/Modify Certificate List), click the View icon.

#### Figure 24-4: View Certificate

View/Modify Certificate List				
View Certificate		$\mathbf{X}$		
Alias	SmartTAP			
Version	3			
Serial Number	9876653531940505215			
Signature Algorithm	SHA256withRSA			
Issuer	CN=audiocodes.com,OU=Compliance,O=AudioCodes,L=Somerset,ST=N	IJ,C=US		
Valid From Mon Nov 03 18:34:26 IST 2014				
Valid To	Tue Nov 03 18:34:26 IST 2015			
Subject	t CN=audiocodes.com,OU=Compliance,O=AudioCodes,L=Somerset,ST=NJ,C=U			
Subject Alternative Name				
Public Key	RSA			
	30820122300d06092a864886f70d01010105000382010f0 03082010a0282010100b6dbed7734595b1d574e6f6be2aa 1cd1ff9ce641934f6a4d2308e6f1a53f27ca35d1cfacec6 a25770f4d4bbe8932774b1c4fe9b6185a9f00f9f4b3cbbc 0e263f9ce8a2e1de0c488e461435b673431059853aaa64f 90a899c571e6a19dc1bf68ba34df26a3a76f5328910f0fa a2c495ffc5504c5291aa5d0c66cda7b9ba8d1cb21c7467a 56e175865a952f947dd20cc56a3b264c5ba2521c119a711 0f20a1dd213577d8432933dc5d8134aedd467f893b0bb0f 7eb844733eeaf36cf2c5438098f5fa55114dc0192db1503	•		

### Step 2: Load New Certificates

Once certificates are available, load them to secure the connection between a Web browser and the SmartTAP 360° server and for securing digital files:

- Loading Web Browser Certificate below
- Loading Digital Files Certificate

#### Loading Web Browser Certificate

This section describes how to load the certificate to secure the connection between your Web browser and the SmartTAP 360° server. The following methods can be used:

- Use Local Certificate to secure connection
- Use Azure Key Vault to secure connection

#### > To load the Web browser certificate:

1. Open the HTTPS page (System tab > Web folder > HTTPS).

Figure 24-5: HTTPS Certificate

HTTPS Certificate	
Local Certificate Azure Certificate Azure Key Vault Name Azure Certificate Name	None

- 2. Do one of the following:
  - From the Local Certificate drop-down list, select the desired local certificate.
  - Select the Azure Certificate check box and configure the parameters below:
    - Azure Key Vault Name
    - Azure Certificate Name

The above methods cannot be implemented simultaneously.



≡ Microsoft A	rure			D 6		sharonbi@smarttap.on Audiocodes LTD. (AI-LOGIX.NE
Home >	<mark>v-sharon1</mark>					×
₽ Search (Ctrl+/)	$\ll$ (i) Delete $\rightarrow$ Move $\vee$ (C) Refresh	Open in mobile				
Overview	Upcoming TLS 1.0, 1.1 deprecation: Please	e enable support for TLS 1.2 on clients (applications/platform) to avoid a	ny service impact. Learn more here. $ ightarrow$			
Activity log						JSON View
R Access control (IA	M) Resource group (move) : <u>dev-st-sharon1-re</u>		Vault URI : htt	tps://dev-st-kv-sharon1.vault.azure.net/		
Tags	Location : North Europe		Sku (Pricing tier) : Sta	andard		
Diagnose and solution	e problems Subscription (move) : SmartTAP_MI		Directory ID : ad-	l41d6c3+67f0-47cc-9de3+e07fd185c1c7		
🗲 Events	Subscription ID : c4b0174c-b110-4	3f6-9cf1-4a666f603686	Directory Name : Au	udioCodes Ltd. (ai-logix.net)		
Settings			Soft-delete : En	abled		
📍 Keys			Purge protection : Dis	sabled		
Secrets	Tags (edit) : environment : sh	naron1 owner : Avi Ben-Shushan project : SmartTap				
Certificates						
8⊟ Access policies	Get started Monitoring Tools + S	DKs Tutorials				
() Networking		Mana	ge keys and secrets used by apps and :	services		
Security			er application per environment (Development, Pre-Pro			
Properties		not share secr	ets across environments and also reduces the threat in	case of a breach.		
🔒 Locks		š≡	<b>N</b>	11		
Monitoring		Control access to key vault	Enable logging and set up alerts	Turn on recovery options		
Alerts		Assign access policy and determine whether a	Enable logging to monitor how, when and by	For protection against accidental or malicious		
má Metrics		given service principal, namely an application or user group, can perform different operations on	whom your key vaults are accessed. Monitor performance and configure alerts for key vault	deletion, soft-delete is enabled. Turn on purge protection to guard against manual purging of		
Diagnostic setting		key vault keys, secrets or certificates.	metrics e.g., service API latency, error code, throttling.	deleted key vaults and items. Learn more D		
P Logs			o o com a			
Insights		View access policies	View	Explore		
Workbooks		Adding Access policy D* How to authenticate to key vault D*	How to enable Key Vault logging G How to configure monitoring and alerting G	Key vault recovery options B*		

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i.e	Microsoft Azure	₽ Search	h resources, services, and docs (G+/)		5 <b>5</b> 0 0 0 0	sharonbi@smarttap.on AUDIOCODES LTD. (AI-LOGIX.NE
Variant   2 startic   2 startic   3 Activity   3 Activity   3 Activity   0 Society   0 Society   0 Society   0 Society   1 Activity   0 Society   0 Society <t< td=""><td>Home &gt; dev-st-kv-sharon1</td><td></td><td></td><td></td><td></td><td></td></t<>	Home > dev-st-kv-sharon1					
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A Access central (AAA)             Access central (AAA)              Access central (AAAA)              Degrees and solve problems              Degrees and solve problems              Degrees and solve problems              Degrees and solve problems              Degrees and solve problems             Degrees an	Overview	Name	Thumbprint	Status	Expiration date	
A. Acts (and (MA)         Images (and (MA))         Images (and (MA))         Images (MA)         Ima	Activity log	Completed			N	
Image: set and softe problem       Image: set and softe problem         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificates available.         Image: set and softe problem       There are no certificate	Access control (IAM)	smarttap-cert	6F2FAB3A2942C2A70206338599C112CFC2B0A881	✓ Enabled		
Image:	Tags	In progress, failed or cancelled				
a dest           a dest paties           a cest paties           a cest paties           b Aters paties           a Aters paties           a Aters paties           b Aters		There are no certificates available.				
i dopt           i dopt           i dopt           i contribution           i contribution           j bonding	Events					
<ul> <li>Serets</li> <li>Certificate</li> <li>Access patients</li> <li>Shouthing</li> <li>Security</li> <li>Security</li> <li>Security</li> <li>Access patients</li> <li>Access patien</li></ul>	Settings					
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Cognostic settings     Logs     Logs     Modulate	II Alerts					
₽ togi • mights	Metrics					
9 majns	Diagnostic settings					
	🧬 Logs					
Workbooks	Insights					
	Workbooks					

Figure 24-7: Certificate Name

- From the Local Certificate drop-down list, select the certificate that you wish to load and click SUBMIT.
- 4. Restart the SmartTAP 360° server.

#### Loading a Digital Signature

A digital signature is a method to make sure that an electronic document (e-mail, spreadsheet, audio file, etc.) is authentic. Authentic means that you know who created the document and that it was not altered in any way since that person or system downloaded it.

#### > To load a Digital Signature:

- 1. Open the Digital Signature page (System tab > Media Locations folder > Digital Signature).
- 2. From the drop-down list, choose the appropriate certificate to use.
- 3. Click SUBMIT

Figure 24-8: Digital Signature

Digital Signature		
Certificate	None v	)
	None	List of certificates available for digital signature.
	HTTPS	SUBMIT CANCEL
	HTTPS_UP	

If a user 'optionally' chooses to add a Digital Signature during the download process, the configured certificate is used to digitally sign the audio file. The SmartTAP 360° Digital Signature file properties add-on must be installed on the local user PC to properly view the digital signature in the downloaded audio file.

Once installed, the Digital Signatures tab appears in the file properties of the downloaded audio recording. Click it to view the certificate and make sure it's from a trusted source. The certificate must be installed on the local PC in the Trusted Root authority.

Figure 24-9: Digital Signature Details

Campos_Jos	Campos_Jose_2014_08_21_16.30.47.wav Properties		
General Digita	al Signatures Security Details Previous Versions		
WAV	Campos_Jose_2014_08_21_16.30.47.wav		
Type of file:	Wave Sound (.wav)		
Opens with:	Windows Media Player Change		
Location:	C:\Users\cjohnston\Downloads		
Size:	13.4 MB (14,054,330 bytes)		
Size on disk:	13.4 MB (14,057,472 bytes)		
Created:	Thursday, August 28, 2014, 5:52:17 PM		
Modified:	Thursday, August 28, 2014, 5:53:34 PM		
Accessed:	Thursday, August 28, 2014, 5:52:17 PM		
Attributes:	Read-only Hidden Advanced		
	OK Cancel Apply		

General Digital Signatu Signature list	ures Security Detai	ils Previous Versions
Name of signer:	E-mail address:	Timestamp
audiocodes.com	Not available	Not available
		Details

Digital Signature Detail:	5	_		×
General Advanced				
	nature Information ignature is OK.			
<u>Signer information</u>				
Name:	audiocodes.com			
E-mail:	Not available			
Signing time:	Not available			
		<u>V</u> iew	Certificate	
-Countersignatures -				
Name of signer:	E-mail address:	Timestamp		
			<u>D</u> etails	
			(	Ж

Digital Signature Detail	5			x
	<b>nature Information</b> ignature is not valid.			
Signer information – Name:	audiocodes.com			
E-mail:	Not available			
Signing time:	Not available			
		<u>V</u> iew	Certificate	
-Countersignatures -				
Name of signer:	E-mail address:	Timestamp		
		(	<u>D</u> etails	
			(	ж

For instructions on how to install the add-on, refer to the <u>SmartTAP Installation Guide</u>.

# **Upload Existing Certificates**

This section describes how to upload a signed certificate and private key from an existing keystore.

#### > To upload certificates:

- 1. Copy the certificate to the SmartTAP server (it can be copied to any location on the server).
- 2. (For Microsoft Teams Hybrid deployment only) Edit the file \Program Files\AudioCodes\SmartTap\AS\domain\configuration\host.xml as follows:

```
<!--<keystore provider="SMARTTAP_AZ_KS" keystore-
password="${mysql.ngp.pass}" alias="smarttap" />-->
```

 Open the Upload Certificates page (System menu > Certificates folder > Upload Certificate).

Upload Certificate	
Certificate File	Browse No file selected.
Keystore Type	PKCS12 V
Key Alias (Optional)	
Keystore Password (Optional)	
Certificate Alias	
	SUBMIT

- 4. Configure certificate parameters according to the table below.
- 5. Click SUBMIT to apply changes.

#### **Table 24-3: Certificate Parameters**

Field	Description
Certificate File	The file containing the certificate and private key. For example: "C:\User-s\siprecadmin\Downloads\cert\cert.pfx"
Keystore Type	Choose from one of the following keystore types: PKCS12 PFX PKCS11 DKS JKS JCEKS
Key Alias (Optional)	The alias name of the certificate inside the keystore. You can leave this field blank if the keystore contains only one entry, otherwise it must be specified. If not sure about the key alias use the following command to find the alias of the desired certificate: keytool -list -keystore keyFile.p12 -storepass password -storetype PKCS12
Keystore	The password that enables access to a keystore. Note that not all keystores

Field	Description
Password	have passwords.
Certificate Alias (Optional)	A unique alias to help identify the certificate.

# 25 Configuring Email Server Settings

SmartTAP 360° sends automated email notifications and allows users to send emails directly from the user interface. The Email Configuration screen configures the SMTP mail server settings.

Email settings must be configured for SmartTAP 360° to send email messages/notifications, set new user passwords, reset passwords and to email recordings.

#### ➤ To configure email:

1. Open the Email screen (System tab > Email folder > SMTP).

Email Configuration			
SMTP Server		Use Authentication	
SMTP Port		Enable STARTTLS	
SMTP User	admin		
SMTP Password	••••		
SMTP From			
			<b>eee</b> Submit

- 2. Enter the SMTP server information (provided by the SMTP administrator).
- 3. Configure fields according to the table below.
- 4. Click SUBMIT to apply changes.

#### Table 25-1: Email Screen

Field	Description
SMTP Server	Hostname or IP address of the email server.
SMTP Port	TCP port of the email server.
SMTP User	Email user for authentication. By default, SmartTAP 360° will send emails from <u>CallRecording@<snmpserverdomain>.com</snmpserverdomain></u> . To make sure an email is sent from your domain, set the SMTP User to <u>username@YourDomain.com</u> . In addition, you can instead customize an email address from which to send emails in the SMTP From field

Field	Description
	(see below).
SMTP Password	Email user password.
SMTP From	Custom User-defined source email address (must be a valid email address defined on the SMTP server above). When this field is defined, all emails are sent from this email address instead of the default address described above in 'SMTP User'.
Use Authentication	Select the option if the SMTP server requires authentication.
Enable STARTTLS	Select the option when the SMTP server requires TLS.

- 5. Apply changes (SmartTAP 360° tests the Email interface when the user clicks SUBMIT to apply the changes).
  - A successful configuration results in a message in green font in the command execution Results area.
  - A failed configuration results in a failure message and code in red font in the command execution Results area.

# 26 Analytics

This section describes how to configure the connection with the Analytics service.

Analytics is supported for Microsoft Teams integration only.

# **Configure Connection with Microsoft Cognitive Services**

This section describes how to configure the connection with the Microsoft Cognitive Services. Once the connection is successfully established, SmartTAP can retrieve data output generated by the Cognitive Services. For configuration of Analytics profiles and categories and applying to users (see Managing Analytics Profiles on page 62).

#### > To configure connection with Microsoft Cognitive Services:

 Open the Add Analytics Configuration page (System tab > Analytics folder > Add Analytics Configuration).

Add Analytics configuration	
Analytics Configuration Name	
Analytics Configuration Description	
Storage	admin
Password	••••
Domain	
Cognitive Service Region	
Cognitive Service Key	
Service Bus Connection String	
	SUBMIT CANCEL

- 2. Configure fields according to the table below.
- **3.** Click SUBMIT to apply changes.

#### Table 26-1: Analytics Configuration

Field	Description
Analytics Configuraton Name	The name of the Analytics configuration.

Field	Description
Analytics Configuration Description	A short description of the Analytics configuration.
Storage	The name of the storage container.
Password	The password of the storage container.
Domain	The name of the storage domain.
Cognitive Service Region	The region where the Cognitive Service is applied.
Cognitive Service Key	The security key of the Cognitive Service.
Service Bus Connection String	The connection string of the Service bus.

## **View and Modify Analytics Configurations**

This section describes how to view and modify an Analytics configuration.

#### > To view or modify analytics configuration:

 Open the View/Modify Analytics Configuration page (System tab > Analytics folder> View/Modify Configuration).

View/Modify Analytics Configurations			
Name	Description	Modify Analytics Configurations	Delete
AnalyticsConfiguration 1	Analytics Configuration desc		
an_config	des		
Managed Identity Analytics configuration	Managed Identity Analytics configuration		
New Analytics configuration	new Analytics configuration		
	20 V H 4 1 D H (1 of 1)		

2. Click adjacent to the Analytics Configuration that you wish to modify.

Modify Analytics configuration	
Analytics Configuration Name	AnalyticsConfigurationRest
Analytics Configuration Description	AnalyticsConfiguration
Storage	stspeechanalyticsqa
Password	
Domain	
Cognitive Service Region	westeurope
Cognitive Service Key	
Service Bus Connection String	
	SUBMIT CANCEL

- **3.** Configure fields according to the table below.
- 4. Click SUBMIT to apply changes.

## Table 26-2: Analytics Configuration

Field	Description
Analytics Configuration Name	The name of the Analytics configuration.
Analytics Configuration Description	A short description of the Analytics configuration.
Storage	The name of the storage container.
Password	The password of the storage container.
Domain	The name of the storage domain.
Cognitive Service Region	The region where the cognitive service is applied.
Cognitive Service Key	The security key of the cognitive service.
Service Bus Connection String	The connection string of the Service bus.

# 27 Managing Recording Locations

This section shows how to configure the items under the 'Media' folder shown in the figure below. Use the table below as a reference when accessing the items in the Media folder.

Table 27-1:	Managing	Recording	Locations
-------------	----------	-----------	-----------

Item	Description
Adding Media Storage Recording Locations on the next page.	Defines and adds a new media storage location.
Viewing and Modifying a Recording Location on page 286	View and modify an existing media location.
Associating Users to Media Locations on page 289	Add users to media locations. Multiple media locations can be defined for each user. A default location can be configured.
Configuring Recording Format	Defines a recording format, e.g., encryption and compression.
Configuring Live Monitoring Location	The Live monitoring feature allows users to listen to calls in real time.
Extracting User Credentials from Microsoft Azure Fileshare Account	Describes how to extract the relevant credentials from the Microsoft Azure Fileshare account.
Setup	Describes how to extract the credentials from the Microsoft Azure Blob storage account.

Item	Description
Microsoft Azure Blob	
Storage Account-	
Recordings on page 274	

# **Adding Media Storage Recording Locations**

This section describes how to configure locations for storing recorded media. Locations can be mapped to AAD groups where all users calls attached to a specific group are recorded to the mapped location.



RTS is utilized for transferring media to the remote storage (Azure Blob or SMB) and for uploading recorded media to Azure Blob for analytics processing.

The following Storage support options are offered:

- AudioCodes hosting:
  - Azure Blob Storage in AudioCodes subscription
  - BYOS Bring your own Azure Blob storage
- Customer hosting:
  - Azure Blob
  - SMB
  - Local File Storage
- Local File Storage: Store media on a local file disk on SmartTAP server when a Single SmartTAP server is deployed (Local File Storage is not supported with distributed deployments such as RDDs with Call Delivery and is not supported for Microsoft Teams).

SMB: Store media on a network accessible drive, i.e., Windows shared drive for accessing files over the SMB protocol. Multiple storage configurations can be defined per location. Whenever the recording location is added or modified, SmartTAP 360° verifies whether this location is accessible to the user defined in this procedure.

SmartTAP supports SMB2 and SMB3 protocol with a default connection timeout of 60 seconds. The following link provides SMB3 timeout parameters in windows: https://learn.microsoft.com/en-us/archive/blogs/openspecification/smb-2-x-and-smb-3-0-timeouts-in-windows.

- It's recommended to define the SMB Scheme host machine with an FQDN instead of an IP address which prevents scenarios where the System administrator changes the IP address of the SmartTAP 360° application server and as a consequence, the media files can no longer be accessed.
  - If you define the media location in a different domain to the SmartTAP 360° AS, ensure that write permissions are set for the directory to which you wish to save the media files.
  - Transferring the recording to the SMB The Bot(s) connect to the SMB storage and transfer the recordings. In case of a disconnection, it attempts to reconnect while buffering/keeping the recordings locally (refer to the <u>SmartTAP Hardware</u> and Software Requirements).
- Azure Blob: Store media on Azure Blob storage. Media files are transferred and accessed from the Azure Blob storage account. For this mode, you must configure a remote Host address and configure HTTPS scheme. When customers host SmartTAP in AudioCodes subscription (including VMs, DB, Teams Bot components) they can optionally utilize BYOS (Bring their own Azure Blob Storage account) to store call recordings. In this case, customers create the Blob storage account and provide AudioCodes with the relevant access credentials described below. Once SmartTAP is deployed, customers will be able to restrict the access to the storage drive to the IP address of SmartTAP application/ SmartTAP Server IP address and the Teams Bot IP address in case of Teams recording deployment. The following Azure Blob storage accounts can be setup:
  - Setup Microsoft Azure Blob Storage Account-Recordings on page 274
  - Setup Microsoft Azure Blob Storage Account-Analytics on page 282
- > To add a recording location:
- Open the Add Recording Location screen (System tab > Media Locations folder > Add Recording Location).

Add Recording Location	
Location Name	
Description	
Scheme	file 🗸
Local Host IP address or FQDN	
External Host IP address or FQDN	
Path	
Username	
Password	
Domain	
Azure Subscription Id	
Azure Resource Group Name	
	SUBMIT CANCEL

## Figure 27-1: File/SMB Recording Location

Add Recording Location	
Location Name	
Description	
Scheme	https V
Local Host IP address or	
FQDN External Host IP address or	
FQDN Container	
Storage	
Password	
Domain	
Azure Subscription Id	
Azure Resource Group Name	
	SUBMIT

Figure 27-2: Blob Storage Location

- **2.** Use the table below as a reference.
- **3.** Click **SUBMIT** to apply changes.

### Table 27-2: Add Recording Location

Parameter	Description		
Location Name	Defines a name for the media location. The Location Name of Default cannot be modified.		
Description	Description of the location name.		
Scheme	Defines the type of database scheme: File		
	Server Message Block (SMB) Shared File		

Parameter	Description			
	HTTPS (for Microsoft Blob Storage)			
SMB Internal Host ( <b>SMB</b> )	The internal/Private IP address or FQDN of the SMB Scheme host machine. For Hybrid deployment scenarios, allow VPN traffic from Microsoft Azure Bot deployment via RTS to access the storage host location using Internal/Private IP address.			
SMB External Host ( <b>SMB</b> )	The NAT IP address or FQDN of the SMB Scheme host machine. For Hybrid deployment scenarios, allow VPN traffic from Microsoft Azure Bot deployment via RTS to access the storage host location using NAT IP address.			
Path	Defines the media path pattern. For example,'/[fileshare]/ [directory]/'yyyy'/'MM'/'dd'/'HHmmss			
Username	<b>File or SMB:</b> The username for accessing shared resources.			
	Azure Blob: The storage account name where the Blob container was created.			
Container (Media	<b>File or SMB:</b> not applicable			
Container Name)	<b>Azure Blob:</b> The name of the container of the Blob account.			
Storage	<b>File or SMB:</b> not applicable			
	Azure Blob: The name of the Blob Storage account.			
Password	<b>File or SMB:</b> The password for accessing shared resources.			
	Azure Blob: The "access key" for the Blob storage account.			
Domain	<b>File or SMB:</b> The domain used to authenticate the username and password for accessing shared resources.			
	Azure Blob: The Azure domain used to authenticate the username and password for accessing shared resources.			
Azure Subscription ID (AudioCodes Hosted Subscription only)	The Azure Subscription ID is created under the Azure tenant. It enables agreements with Microsoft to use Azure cloud services.			
Azure Resource Group Name (AudioCodes Hosted	The resource group name where all the resources related to the setup are created. Every Azure resource is associated with a Subscription ID.			

Parameter	Description
Subscription only)	



Modify Recording Location	
Location Name	Storage
Description	Blob
Scheme	https v
Local Host IP address or FQDN	
External Host IP address or FQDN	
Container	recordings
Storage	stmediaanalytics11
Password	•••••
Domain	
Azure Subscription Id	c4b0174c-b110-43f6-9cf1-4a666f603686
Azure Resource Group Name	analytics-11
	SUBMIT CANCEL

## Setup Microsoft Azure Blob Storage Account-Recordings

This procedure describes how to configure Microsoft Azure Blob Storage for storing media recorded by the SmartTAP 360° BOT in the Microsoft Teams deployment.

The following containers must be created on the Customer Azure Storage account:

- Media Storage container
- Metadata Storage container (required when implementing BOT Resiliency)

When the Microsoft Teams deployment is hosted in the customer's Azure subscription, the SmartTAP Server can be deployed On-premises, utilizing the Onpremises Server Message Block (SMB) storage for media storage. When SmartTAP is deployed in multi-country storage (hosted by customer subscription) both SMB and Blob storage can be configured on the same deployment.

#### > To configure Microsoft Blob:

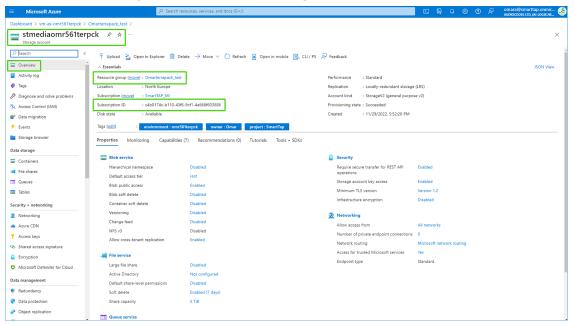
 Extract the SmartTAP BLOB configuration file from installation package folder, "...\TerraSmartTap\TerraSmartTap\output\_data\SmartTAP\_config.txt".

See example below:

**Username:** Storage account name extracted from "SmartTAP\_ config.txt file or from Azure portal.

- 2. Login to the Microsoft Azure portal with customer credentials (https://portal.azure.com/).
- Open the Storage account settings page (create or use an existing storage account).
- 4. In the Overview page, save the highlighted credentials in notepad as they must be configured for the Storage account setup in the SmartTAP Web interface (see Adding Media Storage Recording Locations on page 269):
  - Storage account name
  - Resource group
  - Subscription ID

#### Figure 27-4: New Blob Storage Accounts



5. Create a new container for the Teams recordings media storage. For example, "SmartTAPBlobStorage\_Recordings".

## Figure 27-5: Create New Blob Container

				New container	
In	ers			Name *	
	+ Container 🖰 Change access level 🖒 Refresh   🛍 Delete				
				Public access level ①	
L	Name	Last modified	Pul	Private (no anonymous access)	
l	bootdiagnostics-stteamspo-16806f6d-914e-44ed-ad03-2e1cc534eb6	5 4/23/2020, 12:35:10	Priv	Create Discard	

New container	×			
Name *				
recordings	~			
Public access level (i) Private (no anonymous access)				
Private (no anonymous access)	v			
✓ Advanced				
<b>Create</b> Discard				

- 6. In the Navigation pane, select Access keys.
- 7. Copy one of the access key values to notepad.

Figure 27-6: Access Keys

≡ Microsoft Azure	D Search resources, services, and docs (G+/)			omara@smarttap.onmic 🍰
Dashboard > vm-as-omr561terpck >	Omarterrapack_test > stmediaomr561terpck			
stmediaomr561terp Storage account	ock   Access keys     ★    ··			×
	🔇 Set rotation reminder 🕐 Refresh			
Overview     Activity log	Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Yauit, and replace them often with new keys. The two keys allow you to replace one while still using the other.			
<ul> <li>Tags</li> <li>Diagnose and solve problems</li> </ul>	Remember to update the keys with any Ature resources and apps that use this storage account. Learn more about managing storage account access keys th			
R Access Control (IAM)	Storage account name stmediaom/561terpck			
P Data migration	suneonoonoo verbux			
🗲 Events	key1 💭 Rotate key			
🔛 Storage browser	Last rotated: 11/29/2022 (63 days ago)			
Data storage	Key			
Containers	Show			
-	Connection string Show			
Queues				
Tables	key2 () Rotate key Last rotated: 11/29/2022 (63 days ago)			
Security + networking	Key			
2 Networking	Show			
<ul> <li>Azure CDN</li> </ul>	Connection string			
📍 Access keys	Show			
<ul> <li>Shared access signature</li> </ul>				
Encryption				
Microsoft Defender for Cloud				
Data management				
関 Redundancy				
💎 Data protection				
Object replication				

8. In the same Storage account where the recorded media is stored, create container for the Teams recordings Metadata (resiliency storage). For example, "SmartTAP\_BlobStorage\_ Metadata".

blobrecording   Construction Construction Construction Storage account	ontainers 🖈 …
✓ Search (Ctrl+/) «	+ Container 🔒 Change access level 🏷
Overview	Search containers by prefix
Activity log	Name
🗳 Tags	
Diagnose and solve problems	\$logs
Access Control (IAM)	recordings
💕 Data migration	
🗲 Events	
Storage Explorer (preview)	
Data storage	
Containers	

New container	$\times$
Name *	
recordingsmetadata	$\sim$
·	
Public access level ① Private (no anonymous access)	$\overline{}$
Private (no anonymous access)	~
✓ Advanced	
Create Discard	

9. Enter the name **recordingsmetadata** and then click **Create**.

The following figure shows the added containers.

∯ Give

Content         Deployments:         Subscription (most) : SanztA2: Ma         Deployments:         SanztA2: Ma         Deployments:         Subscription (most) : SanztA2: Ma         Deployments:         SanztA2: Ma         Ma         Deployments:         SanztA2: Ma         Ma         Deployments:         SanztA2: Ma         Ma <th>Storage account</th> <th>c306   Containers 🖈 …</th> <th></th> <th></th> <th></th>	Storage account	c306   Containers 🖈 …			
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A stably by       By:         By:	Overview	Search containers by prefix			Show deleted containers
Constrained     Constrain	Activity log	perer containers of press			
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### 10. Open Access Control (IAM).

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₽ Search «	+ Add 🞍 Download role assignments 📰 Edit columns	🖒 Refresh   🔀 Remove 🕴 🖗 Got feedback?		
Cverview	Add role assignment			
Activity log	Add co-administrator	nments Classic administrators		
Tags	My access View my level of access to this resource.			
Diagnose and solve problems				
Access Control (IAM)	View my access			
💕 Data migration	Check access Review the level of access a user, group, service principal, or man	and identity has to this secure 1 and more of		
🗲 Events	Check access	aged identity has to this resource. Learn more to		
🛅 Storage browser	Check access			
Data storage	Grant access to this resource	View access to this resource	View deny assignments	
Containers	Grant access to resources by assigning a role.	View the role assignments that grant access to this and	View the role assignments that have been denied	
🛁 File shares		other resources.	access to specific actions at this scope.	
🛄 Queues				
III Tables	Add role assignment Learn more 🖻	View Learn more 🖉	View Learn more 🔗	
Security + networking				
Networking				
<ul> <li>Azure CDN</li> </ul>				
↑ Access keys				
Shared access signature				

**11.** Click **Add > Add role assignment** and then search for 'Monitoring Reader' rule.

Home > Resource groups > smarttapTeamsPOC > st	blobpoc   Access Control (IAM) >			
Add role assignment				×
R Got feedback?				
Role Members Review + assign				
A role definition is a collection of permissions. You can us	e the built-in roles or you can create your own custom roles. Learn more 🖒			
	X Type : All Category : All			
Name 🛧	Description 14	Type ↑↓	Category $\uparrow_{\downarrow}$	Details
Log Analytics Contributor	Log Analytics Contributor can read all monitoring data and edit monitoring settings. Editing monitoring settings includes adding the VM extension	BuiltInRole	Analytics	View
Log Analytics Reader	Log Analytics Reader can view and search all monitoring data as well as and view monitoring settings, including viewing the configuration of Azur	BuiltInRole	Analytics	View
Monitoring Contributor	Can read all monitoring data and update monitoring settings.	BuiltInRole	Monitor	View
Monitoring Metrics Publisher	Enables publishing metrics against Azure resources	BuiltInRole	Monitor	View
Monitoring Reader	Can read all monitoring data.	BuiltInRole	Monitor	View
< Previous Page 1 V of 1 Next >				
< Previous Page 1 V of 1 Next >				

Home > Resource grou	<pre>ps &gt; smarttapTeamsPOC &gt; stblobpo</pre>	c Access Control (IAM) >			Select members ×
Add role assig	gnment				
🖗 Got feedback?					Select ③ oidcauth
Role Members	Review + assign				OIDCAuthClient
Selected role	Monitoring Reader				
Assign access to	User, group, or service principal     Managed identity				
Members	+ Select members				
	Name	Object ID	Туре		
	No members selected				
Description	Optional				
					Selected members: No members selected. Search for and add one or more
					members selected, search for and add one or more members you want to assign to the role for this resource.
					Learn more about RBAC
Review + assign	Previous Next				Select Close

Home > Resource grou Add role assig	ups > smarttapTeamsPOC > stblobpoc	Access Control (IAM) >			
S Got feedback?	griment				
Role Members	Review + assign				
Selected role	Monitoring Reader				
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Members	+ Select members				
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	OIDCAuthClient	f3f6d2f7-8088-4f82-9eaa-e5be430d37b9	Арр	Ĩ	
Description	Optional				
					-
Review + assign	Previous Next				

- 12. Click Next.
- **13.** Leave the 'Assign access to' option as default User, group, or service principal.
- 14. Click Select members link.
- **15.** Search for the OIDC Token app that is configured in SmartTAP Web (see Token Authentication Registration).
- 16. Click Review+assign.

### Setup Microsoft Azure Blob Storage Account-Analytics

This procedure describes how to configure Microsoft Azure Blob Storage for storing media recorded by the SmartTAP 360° BOT in the Microsoft Teams deployment.

The following containers are created by the TerraSmartTAP Deployment script:

- azure-webjobs-hosts
- azure-webjobs-secrets
- speech-analytics-input
- speec.-analytics-output

Microsoft Azure	Ø Search resources, services, and docs (G+/)						omara@smarttap.onmic
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Omarterrapack_test     Resource group	\$ tz ···						×
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Insights (preview)	< Previous Page 1 V of 1 Next >						Rive feedback
Alerts							

Figure 27-7:



When the Microsoft Teams deployment is hosted in the customer's Azure subscription, the SmartTAP Server can be deployed On-premises, utilizing the Onpremises Server Message Block (SMB) storage for media storage. When SmartTAP is deployed in multi-country storage (hosted by customer subscription) both SMB and Blob storage can be configured on the same deployment.

### > To configure Microsoft Blob:

1. Extract the SmartTAP BLOB configuration file from installation package folder, "...\TerraSmartTap\TerraSmartTap\output\_data\SmartTAP\_config.txt".

See example below:

**Username:** Storage account name extracted from "SmartTAP\_ config.txt file or from Azure portal.

- 2. Login to the Microsoft Azure portal with customer credentials (https://portal.azure.com/).
- 3. Access the Analytics Storage account created by the TerraSmart script.
- 4. In the Overview page, save the highlighted credentials in notepad as they must be configured for the Storage account setup in the SmartTAP Web interface (see Adding Media Storage Recording Locations on page 269):
  - Storage account name
  - Resource group
  - Subscription ID

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Access Control (IAM)	Subscription ID : c4b0174c-b110-43f6-	9cf1-4a666f603686		Provisioning state						
Plata migration	Disk state : Available			Created	: 11/29/2022, 5:52:12 PM					
Events	Tags (edit) : environment : omr561	terpck owner : Omar project : Sn	nartTan							
Storage browser										
	Properties Monitoring Capabilities (	7) Recommendations (0) Tutorials	Tools + SDKs							
Data storage	Blob service			Security						
Containers	Hierarchical namespace	Disabled		-	re transfer for REST API	Enabled				
File shares	Default access tier	Hot		operations						
🔟 Queues	Blob public access	Enabled			unt key access	Enabled				
Tables	Blob soft delete	Disabled		Minimum TLS		Version 1	2			
Security + networking	Container soft delete	Disabled		Infrastructure	encryption	Disabled				
2 Networking	Versioning	Disabled		Networking						
<ul> <li>Azure CDN</li> </ul>	Change feed	Disabled		Allow access	from	All netwo	rks			
🕈 Access keys	NFS v3	Disabled		Number of p	rivate endpoint connections	0				
<ul> <li>Shared access signature</li> </ul>	Allow cross-tenant replication	Enabled		Network rout	ting	Microsoft	network r	outing		
Encryption	. File service			Access for tru	isted Microsoft services	Yes				
Encryption     Microsoft Defender for Cloud	Large file share	Disabled		Endpoint type	0	Standard				
Microsoft Defender for Cloud	Active Directory	Not configured								
Data management	Default share-level permissions	Disabled								
🎈 Redundancy	Soft delete	Enabled (7 days)								
🌻 Data protection	Share capacity	S TIB								
Object replication	Queue service									

Figure 27-8: New Blob Storage Accounts

- 5. In the Navigation pane, select Access keys.
- 6. Copy one of the access key values to notepad.

Figure 27-9: Access Keys

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stanalyticsomr561t Storage account	terpck   Access keys 🖈 …						×
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Cverview	Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vaulu, and replace them often with new keys. The two keys allow you to replace one while still using the other.						
🗳 Tags	Remember to update the keys with any Azure resources and apps that use this storage account. Learn more about managing storage account access keys of						
Diagnose and solve problems     Access Control (IAM)	Storage account name						
Data migration	stanalyticsomr561terpck						
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📷 Storage browser	Last rotated: 11/29/2022 (63 days ago)						
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. Queues	Show						
Tables	key2 () Rotate key Last rotated: 11/29/2022 (63 days ago)						
Security + networking	Kay						
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Azure CDN     Access keys	Show						
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Encryption							
Microsoft Defender for Cloud							
Data management							
🎈 Redundancy							
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The following screen displays the containers created by the TerraSmartTAP script.

The following screen displays the recorded media files used as input by the Analytics Service.

Deabloard > standy/iccom/50/temple > Omarkerrapack_test > transfutcom/50/temple {       Container         Speech-analytics-input          Image: Speech-analytics-input	= Microsoft Azure				D 🕼	0 © R	omara@smarttap.onmic AUDIOCODES LTD. (AI-LOGIX.NET)
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P lagnos and solve problem       Image: section standing: section standis: section standing: section standing: sect	, Я Search	« 🕂 Upload 🔒 Change access level 💍 Refresh   📋 Delete 🔁 Change tier 🔗 Acqu	ire lease 🖉 Break lease 👁 Vi	ew snapshots 🛛 🛱 Create	snapshot		
Name         Modified         Access fair         Archive status         Biob type         Size           * Access control (MA)         ************************************	Overview						
Name         Modified         Access town         Isob type         Size           • Access tokens         • In 2023 Stated Add 1-0459 -4231 - 3206 + 6227 b60d 27 - 108 1998339-101 - 3000 22 may         1/11/2023.1 12245 1PM         Hot (Inferred)         Block blob         1952 Mdl           • Mess solis         • In 2023 Stated Add 1-0459 -4351 - 3206 + 6227 b60d 27 - 108 1998339-101 - 3000 22 may         1/11/2023.1 12245 1PM         Hot (Inferred)         Block blob         1952 Mdl           • Mess data         • In 2023 Stated Add 1-0459 -4351 - 3206 + 6227 b60d 27 - 108 1998339-101 - 3000 22 may         1/11/2023.1 22524 PM         Hot (Inferred)         Block blob         1952 Mdl           • Mess data         • In 0494265964 414 - 5969 - 4355 - 473 - 442396 00077 - 108 19983339- 101 - 3000 12 may         1/11/2023.1 22522 PM         Hot (Inferred)         Block blob         595.42 K R0           • In 04947 c/712at 1555 - 4496 - 44547 773at 1-3554 caseb - 44547 76 108 1998339 - 101 - 301 82 mgl/L may         1/11/2023.1 226 259 FM         Hot (Inferred)         Block blob         121 M8           • In 1017 1686 b656 - 4444 - 4670 - 927 - 4448 4707 - 927 - 4	Diagnose and solve problems	Location: speech-analytics-input					
Name         Modified         Access to lease         Access to lease         Bits by per         Bits by per         Bits by per           * Access policy	R Access Control (IAM)	Search blobs by prefix (case-sensitive)			Shov	w deleted blobs	
Name         Modified         Modified         Accive pair         Picot pair         Biology pair                 Properties	Settings	<sup>th</sup> ⊽ Add filter					
Image: Normal State		Name	Modified	Access tier	Archive status	Blob type	Size
Metadata         in 1024595001de.8364-374-34234E0007-1031993333-101-200452.2xaw         1/14/2023.1252.24PM         Hot (Internet)         Block blob         95.44 X68           in 1034595001de.831-4667-3743454caabe.20-010199333-101-JIPPP.nnw         1/112022.1252.02PM         Hot (Internet)         Block blob         95.74 X68           in 10445459901de.831-4677-34354caabe.20-010199333-101-JIPPP.nnw         1/112022.1253.25PM         Hot (Internet)         Block blob         95.74 X68           in 10445459901de.841-4599-4500312aee-10199333-101-JIPPP.nnw         1/112022.125955PM         Hot (Internet)         Block blob         121.148           in 101716ecc686e-444-4070-927-4484571dor2-1-10199333-101-25772.xnw         1/112022.12955PM         Hot (Internet)         Block blob         465.29 X68           in 111120065979-014-M044-0409-256913abcde=-10199333-101-17KB/W2.xnw         1/112022.12124PM         Hot (Internet)         Block blob         267.98 X68           in 111120065979-014-M044-0409-256913abcde=-10199333-101-17KB/W2.xnw         1/112022.12124PM         Hot (Internet)         Block blob         276.98 X68           in 111120059797-015-M046-0409-256913abcde=-10199333-101-17KB/W2.xnw         1/112022.12124PM         Hot (Internet)         Block blob         276.98 X68           in 11122081747840-15409-25644-4600-25644-300-10199333-101-17KB/W2.xnw         1/112023.1222.17M         Hot (Internet)         Block blob         276.98 X68	• • • • • • • • • • • • • • • • • • • •	102335f8bfd4a1-b499-4831-a30d-e227b060d7cf1081998339-101-XMQV22.wav	1/11/2023, 12:34:51 PM	Hot (Inferred)		Block blob	19.92 MiB
Image: Not 049349696443 05-9772-45354488846-01.051998339-101-WTR22.www       1/11/2023.12512.0PM       Hot (Imferred)       Block blob       954.42 K8         Image: Not 0497497990-bbe3-4398-5864-000:43124882-1061998339-101-WTR22.www       1/11/2023.125135 PM       Hot (Imferred)       Block blob       575.79 K8         Image: Not 0407407980-bbe3-4398-5864-000:43124882-1061998339-101-WTR22.www       1/11/2023.125295 PM       Hot (Imferred)       Block blob       121.86         Image: Not 0407407980-24649-5464-54591380-010-WTR22.www       1/11/2023.11735 PM       Hot (Imferred)       Block blob       125.88         Image: Not 0407407980-24649-5464-54591380-010-FKQ42.www       1/11/2023.11735 PM       Hot (Imferred)       Block blob       126.78         Image: Not 0407407980-24649-5464-559138-001-FKQ442.www       1/11/2023.11735 PM       Hot (Imferred)       Block blob       126.78         Image: Not 0407407980-24649-5464-526136484-019999339-101-FKQ442.www       1/11/2023.12427 PM       Hot (Imferred)       Block blob       127.78         Image: Not 040740749-5464-4464-867-867644842-01999339-101-FKQ442.www       1/11/2023.12427 PM       Hot (Imferred)       Block blob       2.76 M8         Image: Not 0407474994       Hot (Imferred)       Block blob       2.76 M8       2.99 M8       2.99 M8       2.99 M8       2.99 M8       2.91 M8       2.91 M8       2.91 M8       2.91 M8       2.91 M8		10245d5901dfa-8f63-49c7-a7a5-4a239ef50df71081998339-103-D0NL52.wav	1/18/2023, 12:25:24 PM	Hot (Inferred)		Block blob	1.75 MiB
Image: 10847-07783d1-5565-4596-954b-d-46875rd82a11081998339-103-5PGEU2xwv       1/10/2023.122955 PM       Hot (Inferred)       Block blob       14.21 MB         Image: 11171Ea6bc3558-5444-4670-927-3448647fbc7e1081998339-101-225772.wwv       1/11/2023.11556 PM       Hot (Inferred)       Block blob       46.23 KB         Image: 11171Ea6bc3558-6444-4670-927-3448647fbc7e1081998339-101-1RM0W2.wwv       1/11/2023.11556 PM       Hot (Inferred)       Block blob       26.132 KB         Image: 11211713199599-265-84500-122.88476 disba-1081998339-101-1RM0W2.wwv       1/11/2023.11214 PM       Hot (Inferred)       Block blob       126.73 KB         Image: 11211713199599-265-84500-4122.88477 disba-1081998339-101-1RM0W2.wwv       1/11/2023.1224 PM       Hot (Inferred)       Block blob       126.73 KB         Image: 11211713199599-265-84500-4122.88477 disba-1081998339-101-1RV1622.wwv       1/11/2023.1242 PM       Hot (Inferred)       Block blob       127.74 KB         Image: 11211717139599-265-84500-4464-8450-1081998339-101-1RV1622.wwv       1/11/2023.1242 PM       Hot (Inferred)       Block blob       2.75 MB         Image: 1122222451541-1034-464-8450-105599333-101-1RV1622.wwv       1/11/2023.1242 PM       Hot (Inferred)       Block blob       2.75 MB         Image: 1122222451541-1034-464-8450-105599333-101-1RV1622.wwv       1/11/2023.1242 PM       Hot (Inferred)       Block blob       2.75 MB         Image: 1122222451541-464-8450-105599333-10	🚺 Metadata	104934b59b4414-9569-4535-9773-45354caae3c91081998339-101-JIPBP2.wav	1/11/2023, 12:50:20 PM	Hot (Inferred)		Block blob	954.42 KiB
□       11171566bc365c-8444.4670-92c7-844664716c7e1081998339-101-C25712.way       1/11/2023.11758 PM       Hot (inferred)       Block blob       456.39 KB         □       11118200bbbbbh7229c-4f09-950a-255913abc38e1081998339-101-16MBW2.way       1/11/2023.11758 PM       Hot (inferred)       Block blob       251.92 KB         □       11121171999999-050a-256913abc38e1081998339-101-16MBW2.way       1/11/2023.11214 PM       Hot (inferred)       Block blob       126.73 KB         □       1121171999999-0568-256913abc38e1081998339-101-6WBW2.way       1/11/2023.11224 PM       Hot (inferred)       Block blob       127.75 KB         □       1121258234976-41644e-8467-82c1646e48a20-019998339-101-6WBW2.way       1/11/2023.1242 PM       Hot (inferred)       Block blob       2.76 M8         □       11222224558-11-034-4461-4667-82c1646e48a20-010999339-101-6WBW2.way       1/11/2023.1242 PM       Hot (inferred)       Block blob       2.76 M8         □       1122224558-11-034-4461-4667-82c1646e48a20-010999339-101-6WBW2.way       1/11/2023.1242 PM       Hot (inferred)       Block blob       2.99 M8         □       1122224558-11-034-461-4676-62c16495839-010-8605839-010-8605832-100-874842a       1/11/2023.1242 PM       Hot (inferred)       Block blob       2.99 M8         □       1122203-21733-00-3-468-2176-4580-44842a       11081998339-101-1/W6D2.way       1/11/2023.14612 PM       Hot (inferred)		105144279990c-bbe3-4398-95b8-100c8312eae21081998339-101-W1RJZ2.wav	1/11/2023, 12:51:35 PM	Hot (Inferred)		Block blob	578.79 KiB
Intervention       Block blob       261,92 KB         Intervention       Block blob       261,92 KB         Intervention       Block blob       261,92 KB         Intervention       Block blob       122,75 KB         Intervention       Block blob       142,75 KB         Intervention       Block blob       26,75 KB         Intervention       Block blob       147,54 KB         Intervention       Block blob       27,65 KB         Intervention       Block blob       26,76 KB         Intervention       Block blob       27,65 KB         Intervention       Block blob       27,95 KB         Intervention       Block blob       25,95 KB <td></td> <td>📄 📄 10847cb7f3ad1-55b5-469e-9f4b-db48575d92a11081998339-103-5PQEU2.wav</td> <td>1/18/2023. 12:09:55 PM</td> <td>Hot (Inferred)</td> <td></td> <td>Block blob</td> <td>1.21 MiB</td>		📄 📄 10847cb7f3ad1-55b5-469e-9f4b-db48575d92a11081998339-103-5PQEU2.wav	1/18/2023. 12:09:55 PM	Hot (Inferred)		Block blob	1.21 MiB
□       11211721995999-2654-4800-4122-1867/c51 deba1061998339-101-FNQ422.wav       1/11/2023.12134 PM       Hot (Inferred)       Block blob       128.75 KB         □       1121552214551-1344-451b-2616-4645a-201-0019983339-101-V5612.wav       1/11/2023.12222 FM       Hot (Inferred)       Block blob       147.54 KB         □       11222221213581-1034-461b-2616266464a-20-10019983339-101-V5612.wav       1/11/2023.12417 PM       Hot (Inferred)       Block blob       2.75 KB         □       112228173647-13454-61b-26162661644a-20-10019983339-101-V5612.wav       1/11/2023.12417 PM       Hot (Inferred)       Block blob       2.75 KB         □       1122281736479-45954-4446-0401-2064555044-10019983339-101-V5612.wav       1/11/2023.12417 PM       Hot (Inferred)       Block blob       8.71 MB         □       1122281736479-45954-4446-0401-2064555044-10019983339-101-244452.wav       1/11/2023.14217 2PM       Hot (Inferred)       Block blob       8.97 MB         □       1122281736401-34446-3446-3446-3406432.wav       1/11/2023.144112 PM       Hot (Inferred)       Block blob       2.17 MB		111718e6bc365e-84f4-4670-92c7-a4a8647fdc7e1081998339-101-CZSTF2.wav	1/11/2023, 1:17:58 PM	Hot (Inferred)		Block blob	416.29 KiB
□       112158023c4967-ebff.498+92ba-45356eabC3bad-1001998339-101-V55V12.nav       1/11/2023.12222 PM       Hot (Inferred)       Block blob       147.54 KB         □       11222521855e11-03a4-4614-badfe/28c16d6ed4a20-1061998339-101-RV1K02.nav       1/10/2023.12417 PM       Hot (Inferred)       Block blob       2.76 MB         □       11222521855e11-03a4-4614-badfe/28c16d6ed4a20-1061998339-101-RV1K02.nav       1/10/2023.12417 PM       Hot (Inferred)       Block blob       8.71 MB         □       11222817564479-6950-444e-both-120c6c35544F-1001996339-101-SA4152.nav       1/11/2023.12742 PM       Hot (Inferred)       Block blob       8.71 MB         □       113203a217633-003-446b-476-b341566600de-1061998339-101-SA4152.nav       1/11/2023.12412 PM       Hot (Inferred)       Block blob       2.59 MB         □       1138203a217.53-003-446b-476-b34156600de-1061998339-101-FVV602.nav       1/11/2023.14214 PM       Hot (Inferred)       Block blob       2.59 MB         □       1142469055ff2-5282-4342-920-43122f17-1061998339-101-FVV602.nav       1/11/2023.14214 PM       Hot (Inferred)       Block blob       2.17 MB		1118200bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb	1/11/2023, 1:18:46 PM	Hot (Inferred)		Block blob	261.92 KiB
□         □         1122221635611-0384-4614-bd8/326166ed4201081998339-101-RV1KG2.wav         1/10/2023.124.17 PM         Hot (Inferred)         Block blob         2.76 M8           □         □         1122281756479-4690-464e-b060-1206ed35644-1081998339-101-SA4(32.wav         1/11/2023.12742 PM         Hot (Inferred)         Block blob         8.71 M8           □         □         11382038217636479-4690-4766-b3413688006e-1081998339-101-SA4(32.wav         1/11/2023.12742 PM         Hot (Inferred)         Block blob         2.59 M8           □         □         11382038217633-4058-4766-b3413688006e-1081998339-101-80(312.wav         1/11/2023.14012 PM         Hot (Inferred)         Block blob         2.59 M8           □         □         11424606056712-5828-4432-920-43142d1217-1081998339-101-1VV602.wav         1/11/2023.142414 PM         Hot (Inferred)         Block blob         2.17 M8		11211721939599-c285-4800-8122-f86f7c61deba1081998339-101-FNQ442.wav	1/11/2023. 1:21:34 PM	Hot (Inferred)		Block blob	128.79 KiB
□         1122281756479-6950-4468b006-1205625564f-1081998339-101-5A4(92.wsv         1/11/2023.12742 PM         Hot (Inferred)         Block blob         8.71 M8           □         1132203281756479-6950-44686716-5A31368600de1081998239-103-5A0(5312.wsv         1/11/2023.154012 PM         Hot (Inferred)         Block blob         2.59 M8           □         1134203524716-35282-4342-9c20-4312647000-0191998339-101-VV602.wsv         1/11/2023.144114 PM         Hot (Inferred)         Block blob         2.17 M8		112158823cf967-ebff-4e9a-92fa-e3536ea0c9ad1081998339-101-V56YL2.wav	1/11/2023, 1:22:22 PM	Hot (Inferred)		Block blob	147.54 KiB
□         □		1122222fd35e11-03a4-4614-bd8f-28c16ded4a201081998339-101-RV1KG2.wav	1/18/2023, 1:24:17 PM	Hot (Inferred)		Block blob	2.76 MiB
□ 📄 114249e0655ff2-5282-4342-9c20-431e2off12b171081998339-101-IVV602.wav 1/11/2023.1s44:14 PM Hot (Inferred) Block blob 2.17 MiB		112228175d6479-6950-4d4e-b0e0-120c6c35504f1081998339-101-SA4L92.wav	1/11/2023. 1:27:42 PM	Hot (Inferred)		Block blob	8.71 MiB
		1138203a217a33-00c3-4d6b-87f6-b341368600dc1081998339-103-8QA3L2.wav	1/11/2023, 1:40:12 PM	Hot (Inferred)		Block blob	2.59 MiB
http://www.internet.com/internet/int		114249e0b55ff2-5282-4342-9c20-431e2df12b171081998339-101-IVV6D2.wav	1/11/2023. 1:44:14 PM	Hot (Inferred)		Block blob	2.17 MiB
		114335e0b55ff2-5282-4342-9c20-431e2df12b171081998339-103-ASFHQ2.wav	1/11/2023, 1:45:46 PM	Hot (Inferred)		Block blob	3.15 MiB
114915cbd8034-04eb-47(0-9485-45:71245da10-1081998339-101-9157)2:may V11/2023, 15332 PM Hot (interred) Block blob 7.11 M8		114919cbdd8034-06eb-47f0-9485-e5c713e5da101081998339-101-9ISTX2.wav	1/11/2023, 1:53:32 PM	Hot (Inferred)		Block blob	7.11 MiB

The following screen displays the output media files that were analyzed by the Analytics Service.

Microsoft Azure		d docs (G+/)			D G	0 © A	omara@smarttap	D.ONMIC &
Dashboard > stanalyticsomr561terp	ock   Containers >							
speech-analytics-	output							×
🔎 Search	« 🕂 Upload 🔒 Change access level 💍 Refresh   📋 D	elete $~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~$	lease 🖉 Break lease 🗸	🔊 View snapshots 🛛 📅 Cre	ate snapshot			
Overview	Authentication method: Access key (Switch to Azure AD User Ac	count)						
Diagnose and solve problems	Location: speech-analytics-output							
Access Control (IAM)	Search blobs by prefix (case-sensitive)					how deleted blobs		
Settings	⁺ <sub>♥</sub> Add filter							
Shared access tokens	Name	Modified	Access tier	Archive status	Blob type	Size	Lease state	
Access policy	00703b03-34cd-4546-aca5-add8c985f0a4						-	
Properties	0460d819-2448-4b92-9743-38b81e1223a3							
<ol> <li>Metadata</li> </ol>	083540ed-46c7-49d9-98b2-4667717f7b5b						-	
	0d47ffc5-bd7a-4dec-af47-c19da99990fe						-	
	🗌 🎦 0e32c51a-c5fa-4278-8346-5decbd532b5a						-	
	Of7560de-bf4a-45f6-ad23-1b632d7c8349						-	
	123abba9+f6e2-4e33-90f9-61e7a3f917c0							
	15b69ec8-1af3-41c9-a412-a3ef1ad25f01						-	
	2a29326a-c41c-4d2b-9d7b-aab46f0cc24d						-	
	2dc6765b-3cf8-4b13-9c59-fc0acf1bfe1a							
	2fddaeab-9ded-49a3-8139-129f9fba5bee						-	
	316d7bd6-2a73-4536-8f00-7d985b94ebef						-	
	327c2e11-e0b5-4b78-a170-d28a957bb296						-	
	352819b5-dc8a-47b0-8044-efd045616fbd							
	36a957f4-fccf-4569-9afb-bfa6a032f9b8						-	

The following displays an example output file generated by the Analytics Service.

	D Search resources, services, and docs	s (G+/)			D 🖓 I	) © Ø R	omara@smarttap.onmic
Dashboard > stanalyticsomr561ter	pck   Containers >						
speech-analytics	-output						×
P Search	« 🕂 Upload 🦰 Change access level 💍 Refresh 🕴 🌐 Delete	$\rightleftarrows$ Change tier ${\mathscr I}$ Acquire lease	∯ <sup>G</sup> Break lease ● Vi	iew snapshots 🛛 📅 Create	snapshot		
Overview     Diagnose and solve problems	Authentication method: Access key (Switch to Azure AD User Account) Location: speech-analytics-output / 083540ed-46c7-49d9-98b2-46677						
Access Control (IAM)	Search blobs by prefix (case-sensitive)				Sho	w deleted blobs	
Settings	⁺ <sub>♥</sub> Add filter						
Shared access tokens	Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
Access policy	🔲 📜 🖂						
<ul> <li>Properties</li> <li>Metadata</li> </ul>	083540ed-46c7-49d9-98b2-4667717f7b5b_report.json	1/12/2023, 9:24:33 AM	Hot (Inferred)		Block blob	440 B	Available ····
U Wetadata	📄 📄 contenturl_0.json	1/12/2023, 9:24:33 AM	Hot (Inferred)		Block blob	462 B	Available ····

### Viewing and Modifying a Recording Location

This section shows how to view or modify a location for saving recorded media.

### **To modify a recording location:**

- Open the View/Modify Rec. Locations screen (System tab > Media Locations folder > View/Modify Rec. Locations).
- 2. Click to set location as the default recording location.



The default location cannot be deleted.

### Figure 27-10: View/Modify Recording Locations

Location Name     Path or Container     Description     Username     Domain     Modify     Default     Remove       Initial     recordings     Initial Recording Location     mediabxmsftcert54     Image: State S	View/Modify Recording Locations							
STQATeam     recordings     STQATeam     mediabxnmsftcert54     Image: Constraint of the constraint of	Location Name	Path or Container 🗘	Description 🗘	Username 🗘	Domain 🗘	Modify	Default	Remove
ST-Teams-Users     ST-Teams-Users       ST-Ioad-test-dynamic-rename     Image: Comparing the state of th	Initial	recordings	Initial Recording Location	mediabxnmsftcert54			☆	
S1- Ieams-Users S1- Ieams-Users	STQATeam	recordings	STQATeam	mediabxnmsftcert54				
ST-load-test-dynamic-rename ST-load-test-dynamic-rename	ST-Teams-Users		ST-Teams-Users				$\overleftrightarrow$	
	ST-load-test-dynamic-rename		ST-load-test-dynamic-rename					

3. Click to open the Modify Recording Location screen.

Figure	27-11:	Modify	Recording	Location
1 2 2 2 2			ILCOULDINE.	LOCATION

Location STQATeam successfully updated.

Location STQAT	eam successru	IIIy updated.
Modify Recording Location	n	
Location Name	STQATeam	
Location Name	STQATeam	
Description	STQATeam	
Scheme	https	✓
Host	t	
Container	recordings	
Storage	mediabxnm	isftcert54
Password		
Domain		
		SUBMIT CANCEL
	Modily Recording Location	
۰n <	Location Name	az1
~	Description	az1
	Scheme	file v
	Local Host IP address or FQDN	
	External Host IP address or FQDN	
	Path	recordings
	Username	stmediaqatest6
^	Password	
	Domain	
^	Azure Subscription Id Azure Resource Group	c4b0174c-b110-43f6-9cf1-4a666f603686
	Azure Resource Group Name	rg-qatest6

4. Use the table below as a reference when viewing/modifying recording location.

SUBMIT CANCEL

5. Click SUBMIT to apply changes.

Parameter	Description
Location Name	Defines a name for the media location. The Location Name of Default cannot be modified.
Description	Description of the location name.
Scheme	<ul> <li>Defines the type of database scheme:</li> <li>File</li> <li>Server Message Block (SMB) Shared File</li> <li>HTTPS (for Microsoft Blob Storage)</li> </ul>
Host	<ul> <li>File or SMB schemes: The IP address or FQDN of the SMB Scheme host machine.</li> <li>Microsoft Azure Fileshare: The FQDN of the SMB Scheme host machine (either local or remote host depending on the deployment scenarios described above). For example: stfilesharestorage.file.core.windows.net</li> </ul>
Path	Defines the media path pattern. For example,'/[fileshare]/ [directory]/'yyyy'/'MM'/'dd'/'HHmmss
Username	<ul> <li>File or SMB schemes: Specifies username for accessing shared resources.</li> <li>Microsoft Azure Fileshare: Specifies the Storage username defined for the Fileshare storage account.</li> <li>Azure Blob: Specifies the storage account name where the Blob container was created.</li> </ul>
Password	<ul> <li>File or SMB schemes: Specifies password for accessing shared resources.</li> <li>Microsoft Azure Fileshare: Specifies the Storage Password defined for the Fileshare storage account.</li> <li>Azure Blob: Specifies the "access key" for the Blob storage account.</li> </ul>
Domain	<ul> <li>File or SMB schemes: Specifies the Azure domain used to authenticate the username and password for accessing shared resources.</li> <li>Microsoft Azure Fileshare: Specifies the Azure domain used to authenticate the username and password for accessing shared resources. Leave this value blank if the domain is the default value</li> </ul>

Table 27-3: 1	Modify	Recording	Location
---------------	--------	-----------	----------

Parameter	Description
	"core.windows.net". This value is shown as the "EndpointSufix" in the Azure Portal.
	Azure Blob: Specifies the Azure domain used to authenticate the username and password for accessing shared resources.
Azure Subscription ID	The Azure Subscription ID is created under the Azure tenant. It enables agreements with Microsoft to use Azure cloud services.
Azure Resource Group Name	The resource group name where all the resources related to the setup are created. Every Azure resource is associated with a Subscription ID.
Container	<b>File or SMB schemes</b> : not applicable
	Microsoft Azure Fileshare: not applicable
	Azure Blob: Specifies the name of the container of the Microsoft Azure account.
Storage	<b>File or SMB schemes</b> : not applicable
	Microsoft Azure Fileshare: Specifies the name of the Azure Fileshare storage account.
	<b>Azure Blob:</b> Specifies the name of the Blob Storage account.

# **Associating Users to Media Locations**

This section describes how to associate users to recording media locations defined in Adding Media Storage Recording Locations on page 269. User recordings can be stored in multiple locations according to regions or countries defined by the customer and required by local regulations. This ensures the local integrity of stored recorded data together with a secure connection to the central database.

### > To add users to media locations:

1. Open the Users/Devices page (Users tab> Media Locations > Users/Devices).

Default Media Location	Media Locations
T-Teams20	Azure Managed Identity
T-Teams21	ST-Teams11, ST-Teams11
T-Teams22	ST-Teams13, ST-Teams13
T-Teams23	>>
iT-Teams24	
T-Teams25	
T-Teams26	
T-Teams27	<<
ST-Teams28	
T-Teams31	
T-Teams32	
T-Teams33, ST-Teams33	· · · · · · · · · · · · · · · · · · ·
T-Teams34, ST-Teams34	Default
T-Teams35, ST-Teams35	<b>^</b>
T-Teams36, ST-Teams36	
T-Teams37, ST-Teams37	>>
T-Teams38, ST-Teams38	
T-Teams39, ST-Teams39	>
GT-Teams40, ST-Teams40	<
T-Teams41, ST-Teams41	<<
T-Teams42, ST-Teams42	
T-Teams43, ST-Teams43	
T-Teams44, ST-Teams44	~
T-Teams45, ST-Teams45	
T-Teams46, ST-Teams46	SMB-Azure2
T-Teams47, ST-Teams47	ST-Teams29
T-Teams48, ST-Teams48	ST-Teams30
T-Teams49, ST-Teams49	>>
T-Teams80, ST-Teams80	
T-Teams81, ST-Teams81	
T-Teams82, ST-Teams82	<
T-Teams83, ST-Teams83	<<
T-Teams84, ST-Teams84	
T-Teams85, ST-Teams85	
T-Teams86, ST-Teams86	~
T-Teams87, ST-Teams87	

- 2. Use the table below as reference.
- **3.** Click **SUBMIT** to apply changes.

### Table 27-4: Media Locations

Field	Description
Default Media Locations	
Media Locations	
>>	Assign all users to a specific location.
>	Add selected user to a specific location.
<	Remove selected user from specific location.
<<	Remove all users from specific location.

Field	Description
CANCEL	Cancel changes.

# **Configuring Recording Format**

This section describes how to define a recording format for Audio, Video and Analytics.

### > To define a recording format:

 Open the Media Storage Location screen (System tab > Media Locations folder > Recording Format.

Media Recording Properties
Audio —
Encoding G.729a V
Encryption
Encoding MP4/H.264
Audio for analytics
Encoding PCM16 16KHz V
SUBMIT

- 2. Configure fields according to the table below.
- 3. Click SUBMIT to apply changes.

### Table 27-5: Recording Format

Fields	Description	
Audio	Defines one of the following coders:	
Encoding	G.711Ulaw -Uncompressed storage	
	G.711Alaw -Uncompressed storage	
	G.729 -Compressed storage (default)	

Fields	Description				
	'Encryption' check box: Select this option to encrypt media files as they are recorded. Files are encrypted using AES 128- bit key encryption.				
Video Encoding	Video recordings are by default saved in MP4/H.264 format (not configurable).				
Audio for analytics	<ul> <li>Defines one of the following coders:</li> <li>PCM16 16 KHz -High quality optimized coder (default)</li> <li>G.711 -Standard quality coder</li> </ul>				

## **Configuring Live Monitoring Location**

The Live monitoring feature allows users to listen to calls in real time. When this feature is enabled for a site, Live monitoring media files are buffered to a playlist. The playlist and files are stored in the "Live Monitoring Location" which can be configured using this procedure. The live monitoring content is constantly refreshed by the SmartTAP 360° client and can be played back by the user by clicking the Live Monitor microphone button (see Determining User/Device Status ).

### > To configure Live Monitoring file location:

Open the Live Monitoring page (**System** tab > **Media Locations** folder> **Live Monitoring**).

Modify Live Monitoring Location				
Scheme	file 🗸			
Host				
Path	c:/media/live			
	SUBMIT CANCEL			

In this page, the following can be configured:

- Scheme: The protocol used for storing and retrieving live monitoring files. The following scheme is used:
  - File: Used when recordings are stored on the same server as the Application Server.
- **Host:**Media files are stored on the host.

Path: Sets the media path for recorded files. The path input is a plain path e.g., C:\Media (no string pattern is available).

• When the changes are submitted, the target folder path is verified for read/write access according to the credentials defined for the recording location (see Adding Media Storage Recording Locations on page 269).

• The HTML5 Live Monitoring player is not supported for the SMB scheme (only Flash player is supported).

When the Live Monitoring Location has been successfully updated, a confirmation message is displayed at the top of the dialog:

### Figure 27-12: Modify Live Monitoring Location-Successfully Update

Live Monitoring location successfully updated.			
Modify Live Monite	pring Location		
Scheme	file <b>v</b>		
Host			
Path	/media/live		
	SUBMIT CANCEL		

In the case of failure, an error message describing the problem is displayed at the top of the dialog:

### Figure 27-13: Modify Live Monitoring Location-Update Error

Unable to modify live monitoring location, validation failed. Could not create directories.

Modify Live Monitoring Location

# 28 Configuring Web Session Timeout

You can configure the Web Session Timeout (in minutes) using the Web Configuration screen. The Web configuration screen shows the current Web Session Timeout in minutes. Changes to this value will only affect logging in after the configuration change takes place. Valid range is 1 to 60 minutes. The time a user session may be left idle before the system automatically logs the user off is configurable. The default is 20 minutes and may be changed by someone with the appropriate security profile credentials.

### **To configure Web Session Timeout:**

1. Open the Session Timeout page (System tab > WEB folder > Session Timeout).

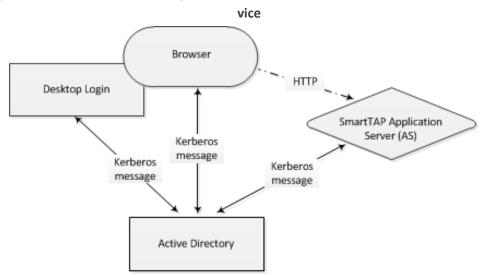
Figure 2	8-1: Session Timeout	
Session Timeout Configuration		
Session Timeout (in min.)	20	SUBMIT CANCEL

- 2. Specify the appropriate Session Timeout.
- **3.** Click **SUBMIT** to accept changes.

# 29 Single Sign-On for SmartTAP 360°

This chapter describes the Single Sign-On functionality for SmartTAP 360°. Single Sign-On (SSO) simplifies the login process for domain users. The user logs into their machine using domain credentials and then attempts to access the SmartTAP Web server via a Web browser (Microsoft Edge, Chrome or Firefox). Without SSO, the user is directed to a simple login form in which a Username and Password are entered and given to SmartTAP 360° to authenticate. When SSO is enabled, the user is authenticated in the background through Active Directory using the same domain credentials that were used to log into the machine. This bypasses the login page and immediately opens the Welcome page. This allows for a streamlined entry to the SmartTAP Web interface and for quick access toto different SmartTAP 360° pages.

### Figure 29-1: Simple and Protected GSS-API Negotiation Mechanism (SPNEGO) Web Authentication Ser-



- Before getting started, contact AudioCodes support to make sure your network is SSO-ready. In some environments, problems may arise if users from two different domains attempt to perform SSO to the SmartTAP 360° server.
  - SSO was successfully tested with both Client Users and the SmartTAP 360° server on the same domain with a single LDAP Active Directory server.
  - SSO was successfully tested with Client Users on one domain and with the SmartTAP 360° server on a separate domain, with one-way forest trust between the domains.
- Prerequisites: LDAP configuration is optional if all Clients using SSO were manually added to the SmartTAP 360° database. If they were not manually added, then LDAP must be configured so that SmartTAP 360° can validate the user and find the user's Roles/Permissions (see Configuring SSL on page 315).
- Terms: Before configuration, it's best to get acquainted with the terms used (see also the Variables List in SectionVariables List below). Use the table below as a reference.

Term	Description
{username}	New domain user required for SmartTAP 360° to authenticate through SSO. Referred to as the 'SSO User'. Use a different user for SSO and LDAP if possible, in order to simplify later steps and facilitate troubleshooting. In this Appendix, testUser is used.
{domain}	The complete name of the domain to be used for SSO, for example, myDomain.local.
{realm}	The security realm to be used for authenticating the SSO User. Can be different to the realm of the SmartTAP 360° server and should be the realm of the SSO User. The realm must be specified in capital letters. In the example of a single domain used in this Appendix, the realm is the same as {domain}: MYDOMAIN.LOCAL.
{kdc}	The fully qualified domain name (FQDN) of the Key Distribution Center (KDC) which must be the Active Directory server to be used to authenticate the SSO User (created in the next step). Example: ad.myDomain.local
{user password}	The password defined for the SSO User when created. In the example in this section : testUserPassword
{short domain}	Shortened version of {domain} used to reference user logins, such as myDomain\userName. Using the same example as above, it would be just myDomain.
{hostname}	The fully qualified domain name (FQDN) of the SmartTAP 360° server. Must be in the form {machine name}.{domain}. Example: SmartTAP 360°.myDomain.local. If a CNAME alias is used to map an unfriendly machine name to a friendlier one such as SmartTAP 360°, the original machine name must be used.
{principal}	Special string defining a service running on a host within a security realm, in this case, HTTP/{hostname}@{realm} Example: HTTP/SmartTAP 360°.myDomain.local@MYDOMAIN.LOCAL

Table	29-1:	Terms
-------	-------	-------

# **Configuring Single Sign-on in SmartTAP Web Interface**

Single Sign-on (SSO) simplifies the login process for domain administrators. The administrator logs into their machine using domain credentials. The user then attempts to access the Application Server's Web service via a Web browser (Microsoft Edge, Chrome or Firefox). Without SSO, the administrator is directed to a login form where Username and Password are

entered and authenticated with the SmartTAP 360° server. When SSO is enabled, the administrator is authenticated in the background through Active Directory using the same domain credentials that were used to log into the machine. This bypasses the login page and immediately opens the Welcome page. Initially, SSO is disabled, so the usual login form must be used. Log in with any account with permissions such as the default administrative user admin to make system changes to SmartTAP 360°.

The SmartTAP 360° server must be added to the Domain.

### **To configure Single Sign-On:**

1. Open the Single Sign-On page (System tab > Web folder > Single Sign-On).

Figure 29	9-2: Single Sign-On
SSO Configuration	
	Single Sign-On (Kerberos)
Enable SSO	
KDC	aiads01.corp.audiocodes.com
Principal	HTTP/smarttap.corp.audiocodes.com@CORP.AUD
Password	
	SUBMIT

2. Configure the parameters described in the table below.

Table 29-2:	<b>SSO Configuration</b>	Parameters
-------------	--------------------------	------------

Parameter	Description			
Enable SSO	elect this option to enable Single Sign-On.			
KDC	Key Distribution Center, which is probably located on the Active Directory server. Enter {kdc}. In the example shown in this Appendix, ad.myDomain.local is used.			
Principal	The Service Principal Name mapped in the previous steps. Enter {principal}. Note: The principal name must include the security realm. HTTP/SmartTAP 360°.myDomain.local@MYDOMAIN.LOCAL is used in the example in this Appendix.			
Password	The password set previously in Service Principal Name Mapping. Enter {user password}. testUserPassword is used in the example in this Appendix.			

- 3. When you have completed the configuration click
- **4.** A status notification indicates that the entries were validated and applied; a popup advises to restart the Application Server for the changes to take effect.

### Validating SSO

The validation page validates some of the parameters entered and validates that SSO is functioning correctly.

- The KDC hostname is resolved to an IP address. If the name cannot be resolved, an error is given indicating that the KDC is invalid.
- The Principal name is parsed to ensure it contains the service, hostname and realm, i.e., there is some text for the service (HTTP), followed by a '/' followed by more text for the principal name and a '@' followed by the text for the realm. Each individual piece of this name is not checked and will be used as given.

The password is not validated in anyway and is taken as entered.



See Searching for Messages for other necessary steps to configure SSO.

### Single Sign-On Client Browser Settings

After enabling SSO on SmartTAP 360°, you should enable Integrated Windows Authentication (IWA) on your Web browse. This enables the silent authentication of the connection negotiation to the SmartTAP portal URL:

- Enabling Microsoft Edge Browser with IWA below
- Enabling Firefox Browser with IWA on page 301
- Enabling Chrome Browser with IWA on page 302

### Enabling Microsoft Edge Browser with IWA

When using Microsoft Edge to open the SmartTAP Portal, users can only be authenticated silently when the browser has Integrated Windows Authentication (IWA) enabled. For Edge, Integrated Windows Authentication (IWA) only works for sites explicitly configured under the 'Local Intranet' security zone under 'Internet Options' control-panel applet. A server is recognized as part of the local Intranet Security zone when the user specifies a URL with a fully qualified name that has been explicitly configured as a local intranet site in Edge. Use the following procedure to enable silent authentication on each computer (or through policy).

### > To enable Microsoft Edge with IWA:

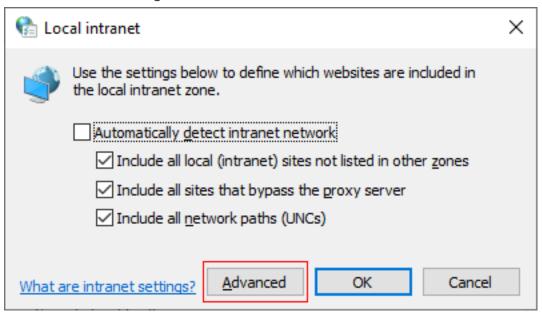
1. Open the Windows Settings and search Internet Options.

🚷 Interr	net Prope	rties				?	$\times$
General	Security	Privacy	Content	Connections	Programs	Advan	ced
Select a	a zone to v	iew or cha	ange securi	ty settings.			_
	٢	1		/ (	$\mathbf{S}$		
Int	ernet	.ocal intra	net Trust		stricted sites		
	Local ir	itranet					-
٢		e is for all n your intr	websites ti anet.	hat are	Site	es	-
Secur	ity <u>l</u> evel fo	r this zone	e				
	Cu - 1		the setting	gs, click Custon ded settings, c		level.	
	]Enable Pr	otected M	lode (requi	res restarting I	internet Exp	lorer)	
			Cust	com level	<u>D</u> efault	level	
<u>R</u> eset all zones to default level							
			Ok	Ca	ancel	Apply	у

Figure 29-3: Internet Properties

2. Click Local intranet > Sites.

Figure	29 <u>-</u> 4·	Sites
IIguic	23-4.	JILES



 Click Advanced -> Enter the tenant specific URL for the SmartTAP portal into the Websites text box.

Figure 29-5: Tenant URL

🚱 Local intranet	×
You can add and remove websites from this zone. All websites this zone will use the zone's security settings.	in
Add this website to the zone:	
<u>A</u> dd	
Websites:	
https://autologon.microsoftazuread-sso.com https://device.login.microsoftonline.com	
https://enterpriseregistration.windows.net	
https://login.microsoftonline.com	
Require server verification (https:) for all sites in this zone	
<u>C</u> lose	]

4. Click Close.

### **Enabling Firefox Browser with IWA**

This section describes how to enable Firefox browsers with Integrated Windows Authentication (IWA) for Silent Authentication.

### > To enable Firefox browsers with IWA:

1. Open Firefox, enter the URL **about:config** and then press Enter; Firefox warns you're updating its internal settings.



Figure 29-6: Proceed with Caution

2. Click Accept the Risk and Continue button to continue; Firefox lists all the internal configuration options in the Web page, allowing changes to be made.

Figure 29-7: Firefox Negotiation Options

Q Search preference name
Show All
Changing these preferences can impact Firefox performance or security.

3. In the 'Search' field, enter **network.negotiate-auth** to show all negotiation options.

Figure 29-8: Network.Negotiate-Auth

Q network.negotiate-auth		
network.negotiate-auth.allow-non-fqdn	false	⇒
network.negotiate-authallow-proxies	true	⇒
network.negotiate-auth.delegation-uris		1
network.negotiate-auth.gsslib		1
network.negotiate-auth.trusted-uris		1
network.negotiate-auth.using-native-gsslib	true	⇒
network.negotiate-auth	Boolean ONumber OString	+

**4.** Enter the tenant specific URL for the SmartTAP portalto the list of trusted URIs by updating the option **network.negotiate-auth.trusted-uris**.

#### Figure 29-9: Add SmartTAP 360° FQDN

Q network.negotiate-auth		
network.negotiate-auth.allow-non-fqdn	false	₹
network.negotiate-auth.allow-proxies	true	4
network.negotiate-auth.delegation-uris		1
network.negotiate-auth.gsslib		1
network.negotiate-auth.trusted-uris	Smarttap.myDomain.local	×
network.negotiate-auth.using-native-gsslib	true	4
network.negotiate-auth	○Boolean ○Number ®String	+

5. Restart Firefox; SSO now functions on Firefox.

Additional changes may be required for Firefox. If SSO does not function immediately after these changes, see. Troubleshooting Single Sign-On on page 309

### **Enabling Chrome Browser with IWA**

This section describes how to enable Chrome browsers with Integrated Windows Authentication (IWA) for Silent Authentication.

### To configure Chrome browser settings:

 Open the Chrome browser and click the menu icon ≡ located to the right of the address field, and then select Settings. Alternatively, browse to chrome://settings.

_		
🌣 Settings	×	
← → C	🗅 chrome:// <b>settings</b>	☆ =
Chrome	Settings	Search settings
History	Sign in	
Extensions	Cine is to conclude develop with your conclu	

Figure 29-10: Google Chrome Browser Settings

2. Scroll down to the bottom of the page and click the link Show advanced settings. If the advanced settings are already displayed, you can skip this step.

Figure 29-11: Google Chrome Browser Settings – Show advanced settings

Google Chrome is not currently your default browser.	Make Google Chrome the defa	ault browser
	Google Chrome is not currently	your default browser.
		*

 Locate the 'Network' setting and click the button Change proxy settings under the Connections tab.

Figure 29-12: Google Chrome Browser Settings – Change proxy settings

Page zoom:	100% 👻	
Network		
Google Chrome	using your computer's system proxy settings to connect to the r	network.
Change proxy	ettings	

- 4. Select the Security tab > Local Intranet zone > Sites > Advanced.
- 5. Add the SmartTAP 360° FQDN to the local Intranet zone.
- 6. Close all Google Chrome windows and restart; SSO occurs.

### Figure 29-13: Google Chrome Browser Settings – Adding a Web Site to the Zone

Internet Options ? 🔀	Local intranet 🛛 🛛 🔀
Genera Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings.	Use the settings below to define which Web sites are included in the Local Intranet zone. Include all local (intranet) sites not listed in other zones Include all sites that bypass the proxy server Include all network paths (UNCs)
Local intranet This zone contains all Web sites that are on your organization's intranet. Sites	Advanced OK Cancel
Custom Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level.	You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings. Add this Web site to the zone:
Custom Level Default Level	Web sites:
Control Approv	Require server verification (https:) for all sites in this zone

# **Single Sign-On Variables**

#### Variable List:

For reference, note your variables here. It may be useful to print out this page and write them all down, or to fill in these details in this or another document.

sername}
ser password}
omain}
hort domain}
ealm}
ostname}
dc}
rincipal}

### Validate the Hostname to be Used for the Principal Name

A CNAME alias for the SmartTAP 360° server can cause problems when used as part of the Principal Name. A Client machine will request a Kerberos ticket for the FQDN using the

actual hostname, not the version using the CNAME. So the Principal to be used must contain the name that the Client will be requesting.

Validate that the hostname is OK to use in the Principal by pinging the name from the command shell:

ping {hostname}

The command shell then prints out

Pinging {ping destination name} [IP Address]

If {ping destination name} is the same as {hostname}, then this is the correct hostname to use for the Principal. If different, then the correct hostname must be investigated further. Most likely, {ping destination name} is the correct one to use. However, SSO may have to be configured in SmartTAP 360° and Wireshark run in order to see which hostname the Client machine uses when requesting a ticket from Kerberos.

Windows KTPASS Command and Choice of User

Active Directory must then be commanded to map the HTTP service on the SmartTAP 360° server to the newly created user. The ktpass command included on Windows servers will be used. It must also be run on the Active Directory server.

ktpass changes the SSO user's attributes. It strips the realm from the data specified in the command when setting the user attribute. The realm must be specified in the command as it will be part of the next attribute that is modified. Using the setspn command does the same thing. The user's userPrincipalName is then changed to be the complete Principal Name. This makes it appear as if the user's login ID is now the Principal Name but sAMAccountName is unchanged.

ktpass most importantly creates the keytab for the Principal. SmartTAP 360° does not need this file to be exported. The Client obtains an encrypted version of the keytab and sends it to SmartTAP 360° as part of the authentication process.



**Choice of User & Security Concerns:** The domain administrator for security reasons may not want to run the ktpass command with the user's password within the command arguments, as others can discover the username and password by watching the process and its input arguments.

Instead of entering the password, the domain administrator can use the -pass \* option. The user is then prompted for the password. Although more secure, in some cases this changes the user's password within Active Directory. If this user is used by SmartTAP 360° for SSO only, this is acceptable. If the user is also used for LDAP, LDAP authentication will fail after the password is changed. Manually resetting the user's password in Active Directory corrects the LDAP authentication error but breaks the mapping performed by ktpass and therefore SSO fails.

The only way to use SSO and LDAP while also using the -pass \* option is to use two separate users for SmartTAP 360° – one for SSO and one for LDAP. For simplicity, try to use two different users for LDAP and SSO to facilitate troubleshooting and configuration.

### User Properties – Before and After Running ktpass

Before and after running the ktpass command, observe the changes to the SSO User to determine what user properties are modified. Use the screenshots below as reference. If the command is successful, the user's properties will not need be validated in Active Directory.

testUser testUser Properties 🛛 🕐 🗙	testUser testUser Properties ? 🗙
Published Certificates         Member Of         Password Replication         Dial-in         Object           Security         Environment         Sessions         Image: Sessions	Published Certificates         Member Of         Password Replication         Dial-in         Object           Security         Environment         Sessions           Remote control         Remote Desktop Services Profile           General         Address         Account         Profile         Telephones         Organization           Personal Virtual Desktop         COM+         UNIX Attributes         Attribute Editor
See logon name (pre-Windows 2000):         MYDOMAIN\         Logon Hours         Log On To         Uplock account         Account options:         User must change password at next logon         User cannot change password         Password never expires         Store password using reversible encryption         Account expires         In Never         In Never </td <td>Attribute       Value         objectGUID       d7c5858/19ba-453c-91ed-66/1ed337be6         objectSid       S-1-5-21-2092303587-4016032574-4140064         primaryGroupID       513 = (GROUP_RID_USERS)         pwdLastSet       10/27/2014 10:17:25 AM Eastern Daylight 1         repIPropertyMetaData       AttID Ver       Loc.USN         sAMAccountName       testUser         userAccountControl       0x10200 = (NORMAL_USER_ACCOUNT         userAccountControl       0x10200 = (NORMAL_ACCOUNT   DONT_         userAccountControl       0x10200 = (NORMAL_ACCOUNT   DONT_         uSNChanged       320002         uSNCreated       319996         whenCreated       10/27/2014 10:17:25 AM Eastern Daylight ]         whenCreated       10/27/2014 10:17:25 AM Eastern Daylight ]</td>	Attribute       Value         objectGUID       d7c5858/19ba-453c-91ed-66/1ed337be6         objectSid       S-1-5-21-2092303587-4016032574-4140064         primaryGroupID       513 = (GROUP_RID_USERS)         pwdLastSet       10/27/2014 10:17:25 AM Eastern Daylight 1         repIPropertyMetaData       AttID Ver       Loc.USN         sAMAccountName       testUser         userAccountControl       0x10200 = (NORMAL_USER_ACCOUNT         userAccountControl       0x10200 = (NORMAL_ACCOUNT   DONT_         userAccountControl       0x10200 = (NORMAL_ACCOUNT   DONT_         uSNChanged       320002         uSNCreated       319996         whenCreated       10/27/2014 10:17:25 AM Eastern Daylight ]         whenCreated       10/27/2014 10:17:25 AM Eastern Daylight ]
OK Cancel Apply Help	OK Cancel Apply Help

### Figure 29-14: Before Running the ktpass Command

testUser testUser Properties ? 🗙	testUser testUser Properties ? 🗙
Published Certificates       Member Of       Password Replication       Diakin       Object         Security       Environment       Sessions         Remote control       Remote Desktop Services Profile         Personal Virtual Desktop       COM+       UNIX Attributes       Attribute Editor         General       Address       Account       Profile       Telephones       Delegation       Organization         User logon name:       Image:       Image:       Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:       Image:       Image:         Image: <td>Published Certificates       Member Df       Password Replication       Dial-in       Object         Security       Environment       Sessions         Remote control       Remote Desktop Services Profile         General       Address       Account       Profile       Telephones       Delegation       Organization         Personal Virtual Desktop       COM+       UNIX Attributes       Attribute Editor         Attributes:      </td>	Published Certificates       Member Df       Password Replication       Dial-in       Object         Security       Environment       Sessions         Remote control       Remote Desktop Services Profile         General       Address       Account       Profile       Telephones       Delegation       Organization         Personal Virtual Desktop       COM+       UNIX Attributes       Attribute Editor         Attributes:
OK Cancel Apply Help	OK Cancel Apply Help

Figure 29-15: After Running the ktpass Command

## **Configuring Active Directory for Single Sign-On**

This section describes the steps required for configuring the Active Directory for Single Sign-On.

### Create a New Domain User:

A dedicated user called 'Single Sign On User' or 'SSO User' is required on the domain for the SmartTAP 360° Application Server to use for authenticating client's login attempts. The SSO User is only to be used within SmartTAP 360° and should not be used to log into any machine on the domain, including the SmartTAP 360° server. It is recommended to create this user and to select the options 'Password never expires' and 'The user cannot change password' as shown in the figure below. Assign the username a login ID of {username} and a password of {user password}.

Figure 29-16: Create a New Domain User

New Object - User		×
Create in: myDom	ain.local/Users	
Password:	•••••	
<u>C</u> onfirm password:	•••••	
🔲 User <u>m</u> ust change passw	ord at next logon	
🔽 User cannot change pass	sword	
Password never expires		
Account is disabled		
	< <u>B</u> ack <u>N</u> ext > C	Cancel

### Active Directory Commands - ktpass:

Run the ktpass command on the Active Directory server that corresponds to the domain for the SSO User. You must use the exact syntax shown below. This is critical for flawless SSO operation. Mistakes are difficult to troubleshoot. Note that the –out option is not used to output the keytab file.

ktpass -princ {principal} -mapuser {short domain}\{username} -pass {user password} -ptype KRB5\_NT\_PRINCIPAL -kvno 0 -crypto AES128-SHA1



The Level of the Encryption Used: SmartTAP 360° supports encryption types as high as AES-128 though not all Windows Server OS versions support this level of encryption. It only depends on the OS version, not on the domain's Functional Level.

- If the Active Directory server is Windows Server 2008 or higher, the –crypto parameter must specify AES128-SHA1.
- If the Active Directory server is Windows Server 2003, the –crypto parameter must specify RC4-HMAC-NT.

Example:

ktpass -princ HTTP/SmartTAP 360°.myDomain.local@MYDOMAIN.LOCAL -mapuser myDomain\testUser -pass testUserPassword -ptype KRB5\_NT\_PRINCIPAL -kvno 0 crypto AES128-SHA1

When running flawlessly, the command outputs:

```
Targeting domain controller: <DC
hostname>
Successfully mapped {principal} to
```

Key created.

{username}.

The command may take a few minutes to propagate through the network. It's recommended to log out and then back in on any client machines that will attempt SSO, in order to speed up the process for laboratory testing. This ensures that the Client machine is not caching any Kerberos tickets that will be out of date after making changes to the User in Active Directory. If the Client machine used for testing has not previously accessed the SmartTAP 360° server, logging out is unnecessary.

The command parser sometimes gets invalid characters when copy/pasting the command. If you see the error **unknown option "uprinc"** try manually typing the command in or try retyping all the '-' characters again. Note the error indicates ûprinc instead of -princ.

Verify the User's Credentials

AudioCodes has observed cases in which the ktpass command changed the user's password even when explicitly defined in the ktpass command. To avoid confusion later, make sure the user's credentials are still correct. From the command prompt on either the SmartTAP 360° server or the Active Directory server, run the command:

```
runas /user:{short domain}\
{username} cmd
```

A new command window is opened using the SSO user's credentials. You're prompted for the SSO user's password. Enter it.

- If a new command window launches, the password is correct and you can continue to the next step.
- If the password is incorrect, an error will be displayed in the command window. Some errors indicate that the user credentials are incorrect, thus the password is no longer

valid. Other errors indicate that the user credentials are OK, but the command failed for other reasons.

Error 1326: Logon failure: unknown user name or bad password indicates that the credentials are incorrect. Make sure the username and password are correct. If this error persists it means the user's password must have been changed. If this fails to run and SmartTAP 360° is configured with the same password, then Single Sign-On will fail. Try resetting the password in Active Directory and re-running the ktpass command to make sure the password is correct. Repeat this test to validate that the user's credentials are still known before continuing.

Error 1385: Logon failure: the user has not been granted the requested logon type at this computer indicates that the password is correct but the SSO user is disallowed from running the command. This is acceptable for testing purposes.

## **Testing Single Sign-On**

After logging into the domain computer and configuring the browser to trust the SmartTAP 360° server as described in previous sections, you can browse to the SmartTAP Web server, preferably via the SmartTAP 360° server's FQDN. You may briefly see the Redirecting notification:

### Redirecting

You're then brought directly to the Home page that corresponds to your user. The figure below shows the Home page of an Agent by the name user2011.



### Figure 29-17: Browsing to the SmartTAP Web Server

If an error page is displayed, or if the normal login form for SmartTAP 360° is displayed, SSO has malfunctioned – see Troubleshooting Single Sign-On below.

# **Troubleshooting Single Sign-On**

### Frequently Asked Questions

When SSO is enabled, how can I log in as the default SmartTAP 360° administrative user?

SSO is enabled, so all login attempts will automatically attempt SSO as the domain user logged into the client machine. The SmartTAP 360° administrative user (default username = admin) will likely not be a user in Active Directory, so it cannot be used to log into the client machine and log in to SmartTAP 360° via SSO. The form login page of SmartTAP 360° must be accessed in order to log in as this user.

It is recommended that a domain user be given valid SmartTAP 360° permissions to make system changes so that the default SmartTAP 360° administrative user can be removed. How can the form login page be accessed for non-SSO logins?

There are a few ways to do this:

- Browse to the SmartTAP 360° server using its IP address instead of the FQDN. SSO will not function this way, so the form page will be displayed. The IP address can be obtained by pinging the hostname from a command prompt.
- Access the SmartTAP Web server from a machine that is not on a domain. As a result, no domain credentials will be available, SSO will fail, and the form login page will be displayed.
- For some internet browsers, if the trust relationship is not present (SmartTAP 360° server hostname is not configured as an Intranet site), you may be able to access the form login page. See the next question.

Why do I see a popup window in my Web browser asking me for credentials?

When a client accesses the SmartTAP Web server, the server requests the client browser to negotiate authentication. If the browser can determine the credentials from the user's login, it will be used. However, if the browser does not trust the Website, or the user is not in the domain, the internet browser will often prompt the user for credentials, displaying a popup window which prompts for the client's domain credentials, not the SmartTAP 360° login credentials.

What can I do when thislogin prompt pops up ?

There are a few directions this prompt can go:

- Enter a valid username and password for a domain user; SSO is attempted using those credentials. If successful, you will be logged into SmartTAP 360° as that user.
- Clicking the Cancel button aborts the login attempt and presents you with a 401 error page.
- Entering an invalid username and password combination will attempt SSO however it will fail and the form login page will be displayed.

### Troubleshooting

• HTTP Error Codes

HTTP error codes can provide you with more information about why SSO might fail.

Error Code	Description
400 – Bad Request	Indicates that part of the HTTP Request is malformed. When using SmartTAP 360° for SSO, the likely cause is that the authentication header being sent by the client is too large. This can occur when the client has many authentication details to send. Simpler networks (such as a laboratory test domain) don't require much data for authentication. As of SmartTAP 360° Version 2.6, the default maximum header length is 8 KB, but instances in which 32 KB was required for authentication information have been observed. A system property must be added to the SmartTAP 360°.xml file for the SmartTAP 360° Application Server: org.apache.coyote.http11.Http11Protocol.MAX_HEADER_SIZE must be set to an appropriate value. The following tool, available from Microsoft (tokensz), can be used to determine the maximum Kerberos Token size, the main factor in large authentication size: http://www.microsoft.com/en-us/download/details.aspx?id=1448.
401 – Unauthorized	Indicates that the HTTP request requires authentication that was not provided by the browser. Occurs when the user cancels out of the browser prompt for domain credentials, or, if the browser does not have a trust relationship with the SmartTAP 360° server. Can also indicate that the browser is blocking access to the page because it requires some authentication and the security settings are preventing the page from loading.
403 – Forbidden	The user is forbidden from viewing this page. The user was authenticated correctly (SSO is functioning) but is trying to view a restricted page. Can occur if the user manually browses to a page they're not allowed to access. Another cause is if SmartTAP 360° cannot determine the User Roles/Permissions for this user. Make sure the user performing SSO is part of the domain and that SmartTAP 360° can find this loginId through LDAP or in its own database. Make sure LDAP is configured correctly and can communicate with Active Directory.

### Table 29-3: HTTP Error Codes

### SmartTAP 360° Application Server Errors

If SSO authentication fails, the Application Server redirects the user to the form page. To determine the reason why SSO fails, you need to review the Application Server logs. This section shows common error messages from the Application Server logs. These are logged at ERROR level so no changes will be necessary in order to view them.

- No Errors Using Firefox browser
  - The Firefox browser will by default just display the 401 Unauthorized error page until the configuration is changed to trust the SmartTAP 360° server though instances occur in which the Firefox browser does not attempt to authenticate

even when the SmartTAP 360° server is trusted. For these instances, the user is immediately presented the form login page. When this occurs, no errors are shown in the Application Server since the browser is not attempting authentication.

- One instance involved using an older version of Firefox which was then upgraded to the latest version. After upgrading, SSO didn't function. However, this same version was tested to function on a fresh install and other browsers were found to function with SSO without errors. The error was due to the fact that a previous configuration from the older version of Firefox conflicted with the configuration of the later version of Firefox. It has not been determined exactly which configuration caused this error.
- org.ietf.jgss.GSSException is thrown when authenticating with Kerberos server. The failure is unspecified at the GSS-API level (Mechanism level: Encryption type AES256 CTS mode with HMAC SHA1-96 is not supported/enabled)
  - The Application Server is trying to decrypt a Kerberos ticket/token that is encrypted using encryption type aes256-cts-hmac-sha1-96 to be referred to in this Appendix as AES256. The 256-bit encryption is not supported on the Application Server so it must not be used.
  - The error was observed when the SSO user was configured in Active Directory with the option This account supports Kerberos AES 256 bit encryption. The highest encryption that can be supported on the SSO user is AES 128.
  - The error was also observed when the Principal Name contained a CNAME instead of the correct hostname. This caused the Principal Name to query encryption types for the host machine (Server 2008), giving its maximum supported encryption level of AES256. This can be confirmed using WireShark to view the Kerberos request from the client PC when attempting to log in; it will be a different Principal Name to that configured for SmartTAP 360°.
- Javax.security.auth.login.LoginException: Pre-authentication information was invalid (24)
  - The likely cause of this error is that the SSO user's password does not match that configured in the SmartTAP 360° GUI.
  - Validate whether the user's password was changed or not see Verify the User Credentials.
  - To resolve the error, reset the SSO user's password, re-enter this same password into the SmartTAP 360° GUI for the SSO credentials. You may also need to regenerate the keytab using the ktpass command.
- Javax.security.auth.login.LoginException: Checksum failed
  - Occurs when the Kerberos ticket obtained by the client is out of date. Most frequently, during SSO testing, when a client cached a Kerberos ticket for the first SSO login attempt and an attribute for the SSO user was then changed.

- To resolve this, log out on the client PC and then log back in; this immediately flushes the cache of Kerberos tickets and requires the cache to obtain a new ticket when trying to access the SmartTAP 360° server.
- Org.ietf.jgss.GSSException is thrown when authenticating with Kerberos server.
   Defective token detected (Mechanism level: GSSHeader did not find the right tag)
  - Indicates that the client machine did not send the correct authentication token to SmartTAP 360°. The most likely cause is that the client machine did not send any token at all.
  - Observed with a non-domain client machine accessing SmartTAP 360° from a Firefox browser, with trusted site configured.
- Troubleshooting with More Detailed SmartTAP 360° Application Server Logging

If more detailed logging is required to troubleshoot these issues within the Application Server, configure the following loggers. Consult with AudioCodes technical support before making any changes to the SmartTAP 360° logging.

The loggers can be configured through the SmartTAP 360° Application Server Web interface - browse to <a href="http://localhost:9990">http://localhost:9990</a>. Note that this requires running the add\_user.bat script to configure a user for accessing the Admin Console, or it can be configured in the SmartTAP 360°.xml configuration file - which requires a restart of the Application Server service.

com.audiocodes.auth--> TRACE com.audiocodes.ngp.web.security--> TRACE com.audiocodes.ngp.web.system--> DEBUG org.apache.catalina.authenticator--> TRACE

Resetting the Configuration for Firefox Browser

In certain situations, it may be necessary to reset the configuration for the Firefox browser in order to use SSO with SmartTAP 360°. To do this, see the Mozilla guide at https://support.mozilla.org/en-US/kb/reset-preferences-fix-problems.

This wipes out all saved settings for the browser such as bookmarks, history, tabs, passwords, cookies, etc. <u>https://support.mozilla.org/en-US/kb/reset-preferences-fix-problems</u>

The following sections summarize the guide.

### Refresh Firefox

This section instructs you how to refresh Firefox.

- a. Click the menu button =, click help ? and select Troubleshooting Information; the Troubleshooting Information tab opens.
- **b.** Click the Refresh Firefox button in the uppermost right corner of the Troubleshooting Information tab.

- c. When prompted to confirm, click the Refresh Firefox button again; Firefox closes to refresh itself. When finished, a window is displayed listing your imported information. Click Finish; Firefox reopens.
- **d.** If previously set, the 'Trusted URIs' configuration will be lost. Follow the steps in the Firefox Browser configuration to assign the SmartTAP 360° server as a trusted server.
- e. Attempt SSO again; if SSO still doesn't work, delete Firefox preference files as shown in the next section.

#### Delete Firefox Preference Files

This section instructs you how to delete Firefox preference files.

#### **To delete Firefox preference files:**

- a. Click the menu button =, click help ? and select Troubleshooting Information; the Troubleshooting Information tab opens.
- **b.** Under the Application Basics section, click Show Folder; a window opens displaying your profile files.
- c. Click the menu button  $\equiv$  and then click Exit  $\bigcirc$ .
- d. Locate and delete the file prefs.js (or rename it, for example, to prefs.jsOLD, to keep the old file as a backup. If you find more than one, a prefs.js.moztmp file or a user.js file, delete (or rename) these as well.
- e. Close the profile folder and open Firefox.
- f. If previously set, the 'Trusted URIs' configuration will be lost. Follow the steps in the Firefox Browser configuration to assign the SmartTAP 360° server as a trusted server.
- g. Attempt SSO again; if SSO still does not work, uninstall and reinstall Firefox as shown in the next section.

#### Uninstall & Reinstall Firefox

- a. Uninstall Firefox through the Windows Control Panel.
- b. Make sure all Firefox data stored in the following locations is removed:

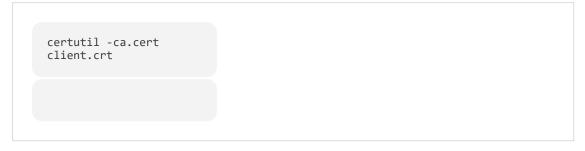
C:\Users\<user>\AppData\Local\Mozilla\ C:\Users\<user>\AppData\Roaming\Mozilla\ [Optional] Reboot the machine.

- c. Reinstall the latest version of Firefox. It may be a good idea to download the latest version from Mozilla again, to be safe.
- **d.** After the installation, follow the steps in the Firefox Browser configuration to assign the SmartTAP 360° server as a trusted server.
- e. Attempt SSO again.

# **30 Configuring SSL**

This section shows how to enable SSL encryption between SmartTAP 360° and AD for all LDAP transactions.

- > To enable encryption between SmartTAP 360° and AD for all LDAP transactions:
- 1. On the server that stores the certificate authority (typically, the domain's active directory server), run from a command prompt:



 Copy client.crt from the Active Directory server to the SmartTAP 360° server, copy from ------BEGIN CERTIFICATE----- to -----END CERTIFICATE----.

Figure 30-1: Copy Client Certificate From Active Directory	Figure 30-1:	<b>Copy Client Certificate</b>	From Active Directory
--	--------------	--------------------------------	-----------------------

select Administrator: Command Prompt	
-gmt Display times as GMT -seconds Display times with seconds and milliseconds -split Split embedded ASN.1 elements, and save to files -v Verbose operation	
-privatekey Display password and private key data -config Machine\CAName CA and Machine name string	
CertUtil -? Display a verb list (command list) CertUtil -ca.cert -? Display help text for the "ca.cert" verb CertUtil -v -? Display all help text for all verbs	
C:\Users\Administrator> C:\Users\Administrator> C:\Users\Administrator>certutil -ca.cert client.crt CA cert[0]: 3 Valid CA cert[0]: BEGIN GERUEJCANE	
MIIDbzCCAlegAwIBAgIQG64xz2d6lotAfjh/bwwxvzANBgkqhkiG9wØBAQUFADBK MRUwEwYKCZImiZPyLGQBGRYFbG9jYWwxFzAUBgoJkiaJk/IsZAEZFgdxYWxhYkUF MRgwFgYDUQQDEw9xYWxhYkUFLUFEREMtQ0EwHhcNMTEwOTMwMjM1MTMwWhcNMzEx MDAxMDAwMTI5WjBKMRUwEwYKCZImiZPyLGQBGRYFbG9jYWwxFzAUBgoJkiaJk/Is ZAEZFgdxYWxhYkUFMRgwFgYDUQQDEw9xYWxhYkUFLUFEREMtQ0EwggEiMA0GCSqG SIb3DQEBAQUAA4IBDwAwggEKAoIBAQC2dHX0Cdu4kGZX/drEv9fU+YHUtqidiDi9 A91xeR1G8pMCnOUBUPg/+rq77zI9rMMYzvoGAw5uLImx+2oikrcY+zFpZd+qGJw2	
r46YwpUwAP5 jd3bgq4kbwDpxvXmSiXfw4CDYTDOoN4Gute+38mie jzWd25vPY5qs ki/ihUKQteAlip1FFFLY+zLmKR71yvLt5vXveZiJp8Q8DnZWw7ARQITtsJulQ+d3 UbfN7/clc8a4hsUxFDTp4bT5q8Uf6cv9HSoj9QD8GtfTLqc5+We6So/JS6HtK5Fr ZTKKoTYGJD1e j1XZBjOcd0BxFfha8jyCSWCYA405S6bJQMUUC/AtAgMBAAGjUTBP MAsGA1UdDwQEAwIBhjAPBgNVHRMBAf8EBTADAQH/MB0GA1UdDgQWBBRh4ofriwZM GK6kLidd8PRjsoc2nDAQBgkrBgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQUFAAOC AQEASusySykyTvZOi+9HLMOfR+QFt0RWbjaw2goWCMUxT/X1S1sx2DPHIUYujD1 W4t9b/FJWu16FU+wpWzyjK4OLp8uIPmymoBHtw6vTXnJ3wnC9fb6eDSjL1jx6d0L rQh7XShPhNI0+zDJZ0B2ggLHUPe1T3jK3zFFi02Sjlg5wq1bA8mDdcw0pkbGqGIB	
ncSZtUDhNFug500sG1QksmDUiRoX1kŽ9bWaU+f2zŠ8ĚSGēIfCEXX1BdfxGBfĬbEC zwUkz9MJ0/mcXCxJ0dGZ45MdLedtd0maDgZhEXytpFNeDWNOYpQJWhrdExsxYSft sZkBB6trtS7vptX72kk+hwAB/w== END_CERTIFICATE	
EncodeToFile returned The file exists. 0x80070050 (WIN32: 80) CertUtil: -ca.cert command FAILED: 0x80070050 (WIN32: 80) CertUtil: The file exists.	
C:\Users\Administrator>_	

**3.** Copy client.crt to the SmartTAP 360° machine. From the Java directory (C:\Program Files\Java\<jre\_version>\ on SmartTAP 360°) run the following:

\bin\keytool -import -keystore .\jre\lib\security\cacerts -file c:\YOURPATHHERE\client.crt



📾 Administrator: Command Prompt\bin\keytool -import -keystore .\jre\lib\security\cacerts -file C:\ 💶 🗖 🗙
Volume Serial Number is E4B9-C2C3
Directory of C:\Program Files (x86)\Java\jdk1.7.0_04
03/26/2013 02:12 PM <dir> .</dir>
03/26/2013 02:12 PM <dir></dir>
03/26/2013 02:12 PM <dir> bin</dir>
04/12/2012 04:47 AM 3,409 COPYRIGHT
03/26/2013 02:12 PM <dir> db</dir>
03/26/2013 02:12 PM <dir> include</dir>
03/26/2013 02:12 PM <dir> jre</dir>
03/26/2013 02:12 PM <dir> 1ib</dir>
03/26/2013 02:12 PM 41 LICENSE
03/26/2013 02:12 PM 123 README.html 03/26/2013 02:12 PM 5.578 register.html
03/26/2013 02:12 PM 5,578 register.html 03/26/2013 02:12 PM 5,861 register_ja.html
03/26/2013 02:12 PM 5,001 register_ja.ntml 03/26/2013 02:12 PM 5,168 register_zh_CN.html
03/26/2013 02:12 PM 450 release
03/26/2013 02:12 PM 175.640 THIRDPARTYLICENSEREADME.txt
8 File(s) 196.270 bytes
7 Dir(s) 20,843,646,976 bytes free
C:\Program Files (x86)\Java\jdk1.7.0_04}.\bin\keytool -import -keystore .\jre\li
b\security\cacerts -file C:\Users\Administrator\Desktop\cert.txt
Enter keystore password:

- The keytool will prompt you for a password. The default keystore password is "changeit".
  - Make sure you replace YOURPATHHERE with the actual path location for the client.crt file .
  - When prompted Trust this certificate? [no]: enter yes to confirm the key import.
- 4. Restart the SmartTAP 360° Application server for the new certificate to be loaded.
- 5. The default port for LDAPS (LDAP with SSL support) is 636 (see the figure below).
- 6. Check the 'Use SSL' checkbox (see the figure below).
- **7.** Click **SUBMIT** to continue (see the figure below).

Figure 30-3: LDAP SSL Configuration

Modify LDAP Co	onfiguration			
Host	172.17.127.120	Principal	qalab\admin	Use SSL
Port	636	Password		]
				SUBMIT

# **31** Adding an LDAP Configuration

The LDAP Configuration page shown below allows configuration of an LDAP Provider. The information required to connect to the LDAP server, along with the user, group, and security group attribute mappings, are all configured from this page. Once the connection information is correctly entered and submitted, the list of object classes and attributes for mapping the various user, group, and security group properties will be obtained from the LDAP server.



SmartTAP 360° existing local users that match LDAP-obtained users are treated as the same unique user.

### To add an LDAP configuration:

1. Open the Add LDAP Connection screen (System > LDAP > Add LDAP Configuration).

Add LDAP Configuration				
Host		Principal	Use SSL	
Port		Password		
		SUBMIT		
*		User Mappings		
Base Context			Browse	
Mapping Filter			Create Filter	
First Name	Choose One 🗸			
Last Name	Choose One $\checkmark$			
Login	Choose One 🗸			
Email	Choose One 🗸			
Alias	Choose One 🗸			
OID	Choose One 🗸			
				(  eq )
Base DN	Filter	Search Scope	Modify Mapping	Delete
	No records found.			
•	Group Mappings			
•	> Security Group Mappings			

- 2. Configure fields according to the table below.
- **3.** Click SUBMIT to apply changes.

### Table 31-1: LDAP Configuration Screen

Field	Description
Host	Hostname of LDAP provider. Sorted ascending/descending by clicking header up/down arrows. Dropdown displays only matching entries.
Port	The Port on which the LDAP server is listening on. This is typically 389 for

Field	Description
	plain connections and 636 when using SSL.Sorted ascending/descending by clicking header up/down arrows. Dropdown displays only matching entries.
Principal	The Principal user's distinguished name, to use when connecting to the LDAP Server. This user must at least have search privileges.
Password	The password of the principal user to use for connecting to the LDAP server.
Use SSL	Select this option to secure an SSL connection with theLDAP host. If you select this option, see Configuring SSL on page 315.

# > To configure an LDAP connection from the Domain Controller:

- 1. Run Active Directory Explorer on the domain controller
- Find the distinguishedName of the Administrator account (or whatever account has full read access to the entire LDAP database). (i.e. CN=Administrator,CN=Users,DC=qalabEE,DC=local).
- **3.** Click SUBMIT to apply changes.
- > To configure an LDAP connection from SmartTAP 360°:
- 1. Enter the IP or Name of the domain controller in the 'Host' field.
- 2. Enter distinguishedName in the 'Principal' field.
- **3.** Enter the Port number in the 'Port' field.
- 4. Provide the password for the distinguishedName account used.
- 5. Check 'Use SSL' if required (see Configuring SSL on page 315).
- 6. Click SUBMIT to apply changes.

# 32 LDAP Active Directory Mapping

This section describes how to map an Active Directory/LDAP user to Microsoft Active Directory. The following entities must be configured:

- User Mappings (Configuring User Mappings below
- Group Mappings (Configuring Group Mappings on page 324
- Security Group Mappings (Configuring Security Group Mappings on page 327)



The retrieved LDAP Active Directory data i.e. member, name and description cannot be modified in SmartTAP, only directly from Active Directory.

# **Configuring User Mappings**

The procedure below describes how to configure User Mappings.

#### **To configure User Mappings:**

 Open the View/Modify LDAP Configuration page (System tab > LDAP folder > View/Modify LDAP Configuration).



LDAP Providers				
Host	≎ Port	•	Modify	Delete
172.17.127.120	389			ā

2. Select the required LDAP Configuration that was configured in Adding an LDAP

Configuration on page 317 and then click

Modify LDAP Configuration					
Host 172.17.127.120	Principal qalab\admin	Use SSL			
Port 389	Password				
		SUBMIT			
*		User Mappings			
Base Context		Browse			
Mapping Filter		Create Filter			
First Name Choose One	v				
Last Name Choose One	~				
Login Choose One	~				
Email Choose One	~				
Alias Choose One	~				
extension Choose One	~				
username Choose One	~				
⊙ One Level ○ Subtree					
					$\bigcirc$
Base DN	Filter	Search	Scope	Modify Mapping	Delete
CN=Users,DC=qa,DC=lab	(&(objectClass=user))	ONE_LEV	/EL		ā
- F		Group Mappings			
•		Security Group Mappings			

3. Click to modify the User Mapping. The current mapping settings are displayed.

Modify LDAP Configuration				
Modify LDAP Configuration				<u> </u>
Host 172.17.127.120	Principal qalab\admin	Use SSL		
Port 389 F	Password			
	ſ	SUBMIT		
	l	SOBMIT		
· •		User Mappings		
Base Context CN=Users,DC=qa,DC=lab	Browse			
Mapping Filter (&(objectClass=user))	Create Filte	r		
First Name givenName	v)			
Last Name Choose One	~			
Login sAMAccountName	· · · · · · · · · · · · · · · · · · ·			
Email mat	· · ·			
	~			
extension Choose One	~			
username givenName One Level O Subtree	•			
			CANC	EL SUBMIT
Base DN	Filter	Search Scope	Modify Mapping	Delete
CN=Users,DC=qa,DC=lab	(&(objectClass=user))	ONE_LEVEL		
÷		Group Mappings		
•		Security Group Mappings		

Figure 32-3: Modify LDAP Configuration

4. Configure fields according to the table below.

Table 32-1:	User Mappings	- Field Descriptions
-------------	---------------	----------------------

Field	Description
User	User Base Context (LDAP path for users).
Mappings	User Filter (Create / Manage User filter).
	First Name (LDAP Attribute that maps to the user first name).
	Last Name (LDAP Attribute that maps to the user last name).
	Login (LDAP Attribute that maps to the user login. The login should map to an attribute that contains a unique value across all LDAP providers, else users with the same login value will be considered the same user).
	Alias (LDAP Attribute that maps to the user alias, nickname, or employee ID).
	One Level – Retrieves LDAP attributes for the selected node.
	Subtree – Retrieves LDAP attributes for the selected node and all its child nodes in the LDAP directory tree.
	= expand screen
	shrink screen

- 5. Enter the User Mappings Information in the 'User Mappings' screen (click in if necessary to expand the screen).
- 6. The default user location in Windows is displayed as follows:

OU=Ai-Logix,OU=USA,OU=AudioCodes,DC=corp,DC=AudioCodes,DC=com

7. Click **Browse** and navigate to the appropriate OU.

# Figure 32-4: LDAP Browser

9. Use filtering if you prefer not to add all users.

# ➤ To add a filter:

- 1. Select the Create Filter button.
- 2. Select the appropriate Conditional Operator (And, Or, Not)
- **3.** Select the appropriate Attribute
- 4. Select the appropriate Equality Operator (>=, =, ~=, <=)
- 5. Specify value = (objectClass = user) recommended
- 6. Click SUBMIT to apply changes.
- 7. Click the icon to add an additional filter condition and repeat above filter steps.
- 8. Click the icon to add a new Sub filter and repeat above filter steps.

Figure 32-5: LDAP Filter Builder Example

Ldap Filter Builder	
And (&) ▼ =+ =+	
objectClass   Equal (=)	▼ user
	SUBMIT CANCEL
	li -

- **9.** Scroll through the list and select the First Name, Last Name, Login, Email and Alias user attributes:
  - If you created any SmartTAP 360° Attributes, they will appear in the list of user attributes as well.
  - Those attributes that were created with 'Network Mapping' defined will be used to trigger recording.
  - 'Ext' and 'SIP URI' in the image above are examples of SmartTAP 360° User attributes added for recording purposes.
- **10.** Map SmartTAP 360° attributes to appropriate AD user attributes.

User Mappings           Base Context         OU-Users,OU-New Jersey,OU-AUDC.DC-coorp.DC-audiocodes,DC-com         Browse           Mapping Filter         (&(objectClass-user))         Create Filter           First Name         givenName         •           Last Name         •				
Mapping Filter     (&(objectClass=user))     Create Filter       First Name     v       Last Name     sn     v				
First Name givenName   Last Name   Sn				
Last Name Sn Y				
Login SAMAccountName •				
Login sAMAccountName v				
Email mail 🔻				
Alias Choose One				
Username Choose One •				
One Level     Subtree				
$\odot$				
Base DN         Filter         Search Scope         Modify         Delete				
No records found.				
Group Mappings				
Security Group Mappings				

Figure 32-6: User Filtering Screen

**11.** Click to apply changes.

Figure 32-7:	User Mapping	Configured
--------------	--------------	------------

	Us	er Mappings				
Base Context		Browse				
Mapping Filter		Create Filte	ſ			
First Name	Choose One 🔻					
Last Name	Choose One 🔻					
Login	Choose One 🔻					
Email	Choose One 🔻					
Alias	Choose One 🔻					
Username	Choose One 🔻					
One Level Osubtree	2					
						(+)
Base DN		F	ilter	Search Scope	Modify	Delete
OU=Users,OU=New	OU=Users,OU=New Jersey,OU=AUDC,DC=corp,DC=audiocodes,DC=com     (&(objectClass=user))     ONE_LEVEL			Ō		

- **12.** Click SUBMIT to apply changes; the added User Mapping should be listed in the table as shown in the figure below.
- **13.** Add additional User Mappings as required.
- 14. Go to the User tab (Users > User Management > View/Modify Users) to see the list of users added from the Active Directory.

View/Modify Users						
+						
First Name 🗘	Last Name 🗘	Email \$	Login Id 🗘	Id / Alias 🗘	Modify	Delete
UK Meeting Room	'	UKMeetingRoom@audiocodes.com	UKMeetingRoom	,	Ø	Ī
NJ-Somerset- Conf-RM			NJ-Somerset- Conf-RM	NJ-Somerset- Conf-RM		Ī
agenttest1			agenttest1			Ī
conf-aitest			conf-aitest	conf-aitest		Ē
Tania	Adar	Tania.Adar@audiocodes.com	Taniaa		Ø	Ē
Fnu	Alyil veedu dhruva	Dhruva.AlyilVeedu@audiocodes.com	dhruvaa		Ø	Ē
Analytics User	Analytics User		auser			Ī
Eric	Bauer	Eric.Bauer@audiocodes.com	ericb			Ē
Analytics	Broker	tania.adar@audiocodes.com	abroker			
Aemon	Burke	Aemon.Burke@audiocodes.com	aemonb			
Jose	Campos	Jose.Campos@audiocodes.com	josec		Ø	
Gino	Carosella	Gino.Carosella@audiocodes.com	ginoc			
Tom	Conlon	Tom.Conlon@audiocodes.com	tconlon			
Sandy	Da Silva	Sandy.DaSilva@audiocodes.com	SandyD			Ē
Debajyoti	Dutta	Debajyoti.Dutta@audiocodes.com	debajyotid			
Oncall-1	EMEA	shlomi.pesach@audiocodes.com	shlomip			
Oncall-2	EMEA	Shlomi.pesach@audiocodes.com	shlomip2			
Mike	Erps	Mike.Erps@audiocodes.com	mikee			
Amrita	Garg	Amrita.Garg@audiocodes.com	amritag			
Gerald	Groh	Gerald.Groh@audiocodes.com	geraldg			Ō
	20	I I I I I I I I I I I I I I I I I I I	→ ►I (1 of 4	)		

Figure 32-8: View/Modify Users

# **Configuring Group Mappings**

The procedure below describes how to configure Group Mappings.

LDAP Active Directory Groups cannot be edited or removed in SmartTAP, only directly from LDAP Active Directory.

# **To configure Group Mappings:**

 Open the View/Modify LDAP Configuration page (System tab > LDAP folder > View/Modify LDAP Configuration).

# Figure 32-9: Modify LDAP Configuration

LDAP Providers			
Host	\$ Port	\$ Modify	Delete
172.17.127.120	389		Ē

2. Select the required LDAP Configuration that was configured in Adding an LDAP

Configuration on page 317 and then click

Figure 32-10: Modify LDAP Configuration

Modify LDAP Configuration					
Host 172.17.127.1	20 Principal	qalab\admin Use SSL			
Port 389	Password				
		SUBMIT			
*		User Ma	ppings		
Base Context		Browse			
Mapping Filter		Create Fiter			
First Name	Choose One	~			
Last Name	Choose One	~			
Login					
Email	Intose One v				
Alias					
	Choose One	~			
extension		~			
username		~			
<ul> <li>One Level</li> <li>Subt</li> </ul>	ree				
					$( \bullet )$
Base DN		Filter	Search Scope	Modify Mapping	Delete
O CN=Users,DC=qa,	DC=lab	(&(objectClass=user))	ONE_LEVEL		
+		Group M	appings		
- F		Security Grou	ıp Mappings		

3. Select the Group Mappings tab.

•	Group Mappings	
Base Context		
Base Context	Browse	
Mapping Filter	Create Filter	
Name	Choose One	
Description	Choose One T	
Members	Choose One	
One Level Osubtre	e	
		$\oplus$

4. Configure fields according to the table below.

Table 32-2: Group Mappings Field Descriptions

Field	Description
Group	Group Base Context (LDAP path for groups)
Mappings	Group Filter (Create / Manage Group filter)
	Name (LDAP Attribute that maps to the group name)
	Description (LDAP Attribute that maps to the group description)

Field	Description
	Members (LDAP Attribute that maps to the group members. The members attribute should contain a collection of distinguished names of users that belong to the group).
	One Level – Retrieves LDAP attributes for the selected node.
	Subtree – Retrieves LDAP attributes for the selected node and all its child nodes in the LDAP directory tree.
	= expand screen
	= shrink screen

5. Enter the Group Mappings Information in the 'Group Mappings' screen (i.e. (Groups,DC=qalabEE,DC=local)

6. Navigate to appropriate 'Group Path' and then click

7. Use filtering if you prefer not to add all groups.

#### > To add a Group Filter:

- 1. Select the appropriate Conditional Operator (And, Or, Not).
- 2. Select the appropriate Attribute.
- 3. Select the appropriate Equality Operator (>=, =, ~=, <=).
- 4. Specify a value.
- 5. Click SUBMIT to apply changes.

#### Figure 32-12: Group Filter

Ldap Filter Builder	×
And (&) ▼ =+ =+	
objectClass ▼ Equal (=)	▼ group
	SUBMIT CANCEL
	ĥ

- 6. Click the icon to add an additional filter condition and repeat above filter steps.
- 7. Click the icon to add a new Sub filter and repeat above filter steps.
- 8. Click SUBMIT to apply changes.

9. Scroll through the list and select the Name, Description and Members attributes.

#### Figure 32-13: Group Filtering Screen

*	Group Mappings	
Base Context	OU=Lync-AnalogDevices,OU=AudioCodes,DC=corp,DC=audiocodes,DC=com Browse	
Mapping Filter	(&(objectClass=group)) Create Filter	
Name	name v	
Description	description •	
Members		
🖲 One Level 🔍 Subtre	ie la	
		$( \bullet )$

**10.** Click to apply changes; view the listed group in the table.

#### Figure 32-14: Group Mapping Configured

,	Group Map	pings			
Base Context	Br	owse			
Mapping Filter	Cr	eate Filter			
Name	Choose One 🔻				
Description	Choose One 🔻				
Members	Choose One 🔻				
One Level Osubtre	e				
					( )
Base DN		Filter	Search Scope	Modify	Delete
OU=Lync-AnalogDev	vices,OU=AudioCodes,DC=corp,DC=audiocodes,DC=com	(&(objectClass=group))	ONE_LEVEL		

**11.** Open the View/Modify Groups page to view the mapped groups.

# **Configuring Security Group Mappings**

This section shows how to configure Security Group Mappings. All mapped Active Directory security groups automatically become SmartTAP 360° Security Profiles.



By default, new security profiles are not granted SmartTAP 360° permissions, permissions must be configured in the Security Profiles screen once the security profile has been mapped.

#### **To configure Security Group Mappings:**

 Open the View/Modify LDAP Configuration page (System tab > LDAP folder > View/Modify LDAP Configuration).

#### Figure 32-15: Modify LDAP Configuration

LDAP Providers				
Host	\$ Port	•	Modify	Delete
172.17.127.120	 389			

2. Select the required LDAP Configuration that was configured in Adding an LDAP

Configuration on page 317 and then click

# Figure 32-16: Modify LDAP Configuration

Modify LDAP Configuration					
Host 172.17.127.120	) Principal	qalab\admin Use	SSL		
Port 389	Password				
		SUBMIT	]		
*		Use	r Mappings		
Base Context		Browse			
Mapping Filter		Create Filter			
First Name	Choose One	v ]			
Last Name	Choose One	v			
Login	Choose One	v			
Email	Choose One	v			
Alias	Choose One	v			
extension	Choose One	~			
username	Choose One	~			
<ul> <li>One Level O Subtree</li> </ul>	e				
					$\bigcirc$
Base DN		Filter	Search Scope	Modify Mapping	Delete
CN=Users,DC=qa,D	C=lab	(&(objectClass=user))	ONE_LEVEL		ā
• •	, Group Nappings				
• F	Security Group Mappings				

3. Select the Security Group Mappings tab.

Figure 32-17: Security Group Mappings

*	Security Group Mappings	
Base Context	Browse	
Mapping Filter	Create Filter	
Name	Choose One V	
Description	Choose One V	
Members	Choose One 🔻	
🖲 One Level 🔘 Subtre	20	
	$\bigcirc$	)

**4.** Enter the Security Group Mappings Information in the Security Group Mappings screen. Use the table below as reference.

Field	Description				
Security Group Mappings	<ul> <li>Security Groups Base Context (LDAP path for security groups)</li> <li>Group Filter (Create / Manage Security Group filter)</li> <li>Name (LDAP Attribute that maps to the security group name)</li> <li>Description (LDAP Attribute that maps to the security group description)</li> </ul>				
	Members (LDAP Attribute that maps to the security group members. The members attribute should contain a collection of distinguished names of users that belong to the group.)				
	<ul> <li>One Level -Retrieves LDAP attributes for the selected node.</li> <li>Subtree – Retrieves LDAP attributes for the selected node and all its</li> </ul>				

Field	Description			
	child nodes in the LDAP directory tree.			
	Expand or Shrink screen			

5. Use filtering if you prefer not to add all security groups.

# **To add a Security Group Filter:**

- 1. Select the appropriate Conditional Operator (And, Or, Not).
- 2. Select the appropriate Attribute.
- **3.** Select the appropriate Equality Operator (>=, =, ~=, <=).
- 4. Specify a value.
- 5. Click SUBMIT to apply changes.

#### Figure 32-18: Security Group Filter

Ldap Filter Builder	
And (&) ▼ =+ =+	
objectClass ▼ Equal (=)	▼ group
	SOBWIT
	li li

- 6. Click the icon to add an additional filter condition and repeat above filter steps
- 7. Click the icon to add a new Sub filter and repeat above filter steps
- 8. Click SUBMIT to apply changes.

#### Figure 32-19: Security Group Filtering Screen

•	<ul> <li>Security Group Mappings</li> </ul>					
Base Context	OU=Security,DC=	corp,DC=audiocodes,DC=com		Browse		
Mapping Filter	(&(objectClass=g	(roup))		Create Filter		
Name	name		٣			
Description	description		٣			
Members	member		٣			
One Level Osubtree	2					
Base DN		Filter	Search Scope		Modify	Delete
	No records found.					

9. Click to apply changes.

# Figure 32-20: Security Group Configured

*	S	ecurity Group Mappings			
Base Context Mapping Filter Name Description Members © One Level © Subtret	Choose One Choose One Choose One	Browse Create Filter			
					Ð
Base DN		Filter	Search Scope	Modify	Delete
OU=Security,DC=cor	p,DC=audiocodes,DC=com	(&(objectClass=group))	ONE_LEVEL		Ē

**10.** Click to add additional Security Group Mappings.

**11.** Open the View/Modify Security Profiles page to view the mapped groups and configure the required permissions (see Configure Permissions in a Security Profile on page 37).

# 33 Microsoft Teams Integration

Microsoft Teams is integrated automatically using the TerraSmartTAP for Microsoft Teams Deployment script which executes most of the required configuration. The table below summarizes the configuration actions executed by the Deployment scripts.

Description	Executed by Deployment Scripts	Reference
Registers daemon client application in Azure Active Directory on behalf of SmartTAP 360° (aad-app).		Configure Client Secret for Role- based Access (aad-app) on page 333
Configures aad-app permissions for user and group mapping and for accessing Azure Blob statistics.	Configured automatically except for role- based permissions for accessing Azure Blob statistics.	Add Permissions for Role-based Access (aad-app) on page 336
Configures OpenID Connect Token (OIDC) Client Configuration used for authentication between the SmartTAP server, Bot and Remote Transfer Service (RTS).		Update OpenID Connect Token (OIDC) Client Configuration on page 337
Configures auth-app permissions for authentication between the SmartTAP server, Bot and Remote Transfer Service (RTS) using the OpenID Token mechanism.	The SmartTAP OpenID Connect connection registration "auth-app" is applied for backward compatibility for customers deploying versions prior to Version 5.6. For Version 5.6 and later, these permissions are configured in the aad-app (see above).	Setup SmartTAP OpenID Connect Token Automatically (auth-app) on page 338
Creates default AudioCodes Active Directory mapping entry.	V	Verify Active Dir- ectory Providers Configuration on page 340
Other Mapping: Media Location	×	Configure AAD Mapping Profiles

## Table 33-1: Microsoft Teams Deployment

Description	Executed by Deployment Scripts	Reference
Profile Mapping		on page 341
<ul> <li>User and Group</li> <li>Mapping</li> </ul>		
<ul> <li>Retention Policy</li> <li>Mapping</li> </ul>		
<ul> <li>Recording Profile</li> <li>Mapping</li> </ul>		
<ul> <li>Security Profile</li> <li>Mapping</li> </ul>		
Analytics Mapping		
Microsoft 365 Sign-in setup	Automatically configured except for assigning Security Profile to M365 user.	Setup Microsoft 365 User Sign-in Authentication on page 378
Integrate Teams Personal app	Automatically configured except for uploading of Manifest file to customer's Teams admin center.	Integrate SmartTAP Personal App in Teams on page 391
Create Microsoft Teams Compliance Recording Policy for allowing recording of users belonging to Azure	Automatically configured using complianceRec.ps1 script. User must create group on Azure and add members to allow recording.	Enable Users with Compliance Recording on page 408
defined group.	Configuration in the SmartTAP Web is not required for this setup.	

# **Managing Access to Microsoft 365**

The TerraSmartTAP deployment script creates the "aad-app" registration for accessing the customers' Microsoft 365 platform. A secure authenticated connection is established using OpenID Connect Token (OIDC). Customers using AudioCodes Azure subscription must provide consent for this app to access their Microsoft 365 platform (see Customer Consent for Azure Active Directory (aad-app). In addition to the automatic TerraSmartTAP configuration, manual configuration is required in both Azure and the SmartTAP Web for accessing Azure Blob storage statistics and for configuring user mapping profiles as detailed in the following procedures:

- Configure Client Secret for Role-based Access (aad-app) below
- Add Permissions for Role-based Access (aad-app) on page 336
- Update OpenID Connect Token (OIDC) Client Configuration on page 337
- Configure AAD Mapping Profiles on page 341



For more information on OIDC, refer to <u>https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-oauth2-client-creds-grant-flow.</u>

# Configure Client Secret for Role-based Access (aad-app)

The aad-app registration is configured by the TerraSmart script with the following permissions:

- Read users and groups of your AAD and map them to users and associated SmartTAP policies and profiles.
- Authenticate between the SmartTAP server, Bot and Remote Transfer Service (RTS) using the OpenID Token mechanism. The following permissions are required:
  - GroupMember.Read.All Read all group memberships (Application)
  - User.Read.All Read all users' full profiles
- Role-based access control for retrieving Azure Blob Storage statistics. The following roles are required:
  - Teams Bot
  - Remote Transfer Service
  - Call Delivery Live

You must **configure** a Client secret for **Role-based access** control for retrieving Azure Blob Storage statistics.

### > Do the following:

1. Login to the Microsoft Azure portal (https://portal.azure.com/).

Figure 33-1: Azure Services

s کر	earch resources, se	ervices, and docs (	G+/)						₽ ©	? 🤅
Azure service	es									
+	٩	•		3.5	٢	SQL	Ŵ	<b>S</b>	$\rightarrow$	
Create a resource	Azure Active Directory	Virtual machines	Storage accounts	Storage explorer	App Services	SQL databases	Azure Database fo	Azure Cosmos DB	More services	

2. Click Azure Active Directory.

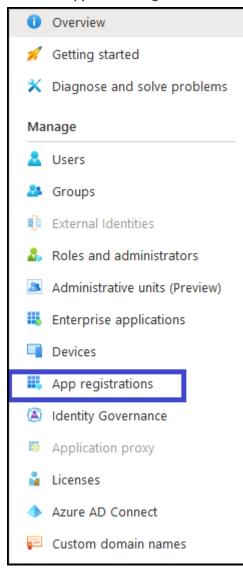


Figure 33-2: Application Registration

**3.** Open the aad-app registration.



🔣 AADAppClient 🖈		
	Delete	
Overview	Display name : AADAppClient	Supported account types : My organization only
📣 Quickstart	Application (client) ID : c3ccba42-16ef-4b28-bf82-dcba37b91b43	Redirect URIs : Add a Redirect URI
🚀 Integration assistant (preview)	Directory (tenant) ID : ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	Application ID URI : Add an Application ID URI
	Object ID : ddb394e6-1adf-4978-a550-1304196300c3	Managed application in I : AADAppClient
Manage		*
Branding	Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations	(1 2222)2   222 marc
Authentication	Wetcome to the new and improved App registrations: cooking to learn now it's changed norm App registrations	(Legacy): Lean more
📍 Certificates & secrets		
Token configuration	Call APIs	Documentation
API permissions		Microsoft identity platform
🔷 Expose an API		Authentication scenarios Authentication libraries
n Owners		Code samples Microsoft Graph
Roles and administrators (Previe	X S 🚓 Š 💁	Glossary Help and Support
🔟 Manifest	Build more powerful apps with rich user and business data	
Support + Troubleshooting	from Microsoft services and your own company's data sources.	
Troubleshooting	View API permissions	

4. In the Navigation pane, select Certificates & secrets.

▲ 562c1b-aad-app	Certificates & secrets	A			
	Certificates & secrets	×			
₽ Search	« 🖗 Got feedback?				
Overview					
📣 Quickstart				iving tokens at a web addressable location (using an H	ITTPS
🚀 Integration assistant	scheme). For a higher level of assu	rance, we recommend using a certi	ficate (instead of a client secret) as a	credential.	
Manage	<ol> <li>Application registration certifi</li> </ol>	icates, secrets and federated credentia	is can be found in the tabs below.		
Branding & properties	• • • • • • • • • • • • • • • • • • • •				
Authentication	Certificates (0) Client secre	ts (1) Federated credentials (0	)		
📍 Certificates & secrets	A count states that the could state			d as an are listing assured	
Token configuration	A secret string that the applicatio	in uses to prove its identity when re	questing a token. Also can be referre	d to as application password.	
API permissions	+ New client secret				
Expose an API	Description	Expires	Value 🛈	Secret ID	
App roles	No description	1/1/2030	K95*********	0f4231bf-a164-4f78-aff2-dffafa07faf4	D
A Owners					
& Roles and administrators					
Manifest					
Support + Troubleshooting					
Troubleshooting					

5. Click <sup>+</sup> New client secret.

Add a client se	cret	×
Description	Enter a description for this client se	cret
Expires	Recommended: 6 months	^
	Recommended: 6 months	
	3 months	
	12 months	
	18 months	
	24 months	
	Custom	

The New Client Secret must be generated before the expiration time and set in SmartTAP to avoid possible issues that may arise with the recording service. Note the new client secret as it must be later configured.

A client secret is generated and displayed as below.



Client secrets			
A secret string that the application uses to prove its identity when	requesting a token. Als	o can be referred to as application password.	
+ New client secret			
Description	Expires	Value	
AAD App Client Secret	7/2/2021	s07y53pN-V~jmW9Vyn260eNO.0_L7tlc_6	D 📋

6. Add client secret and copy value for Client Configuration (see Verify Active Directory Providers Configuration on page 340).

# Add Permissions for Role-based Access (aad-app)

The aad-app deployment script configures the following permissions:

- GroupMember.Read.All Read all group memberships (Application)
- User.Read.All Read all users' full profiles (Application)



You must **manually** configure the following permissions for Role-based access for Azure Blob Storage statistics:

- Register web API and expose it through scopes to authorized users and client apps that access your API.
- Define roles for Teams Bot, Remote Transfer Service, Call Delivery Live.

#### > Do the following:

1. In the Navigation pane, select **Expose an API**.

	<u>م</u>	Search r
Home > App registrations > 562c1b-aa	ad-app	
<sub>🚳</sub> 562c1b-aad-app   Ex	xpose an API 👒 \cdots	
	R Got feedback?	
Overview	Application ID URI apit//562c1b.smarttap.finebak.com/smarttap	0
n Quickstart		~
🚀 Integration assistant	Scopes defined by this API	
Manage	Scopes defined by this APT Define custom scopes to restrict access to data and functionality protected by the API. An application that requires access to parts of this	
Branding & properties	API can request that a user or admin consent to one or more of these.	
Authentication	Adding a scope here creates only delegated permissions. If you are looking to create application-only scopes, use 'App roles' and define app roles assignable to applicat type. Go to App roles.	ation
📍 Certificates & secrets		
Token configuration	+ Add a scope	
<ul> <li>API permissions</li> </ul>	Scopes Who can consent Admin consent display User consent display na State	
Expose an API	No scopes have been defined	
App roles		
A Owners	Authorized client applications	
Roles and administrators	Authorizing a client application indicates that this API trusts the application and users should not be asked to consent when the client calls this API.	
Manifest		
Support + Troubleshooting	+ Add a client application	
Troubleshooting	Client Id Scopes	
New support request	No client applications have been authorized	

- 2. Enter the Application ID URI to expose.
- 3. In the Navigation pane, select App roles.

Home > <u>App registrations</u> > 562c1b-aac	l-app					
562c1b-aad-app   Ap	op roles 🛷 …					
<ul> <li>✓ Search «</li> <li>₩ Overview</li> <li>➡ Quickstart</li> <li>✓ Integration assistant</li> </ul>	App roles		ps. The application defines and	publishes the app roles an	d interprets them	
Manage	Display name	Description	Allowed member types	Value	ID	State
<ul> <li>Branding &amp; properties</li> <li>Authentication</li> </ul>	Teams Bot	BOT	Applications	teamsBot	3ecfc40f-d959-ad49-1	
↑ Certificates & secrets	Remote Transfer Service	RTS	Applications	mstrService	11a1cd15-b5f0-fdf3-e	Enabled
Token configuration	Call Delivery Live	CD-Live	Applications	callDeliveryLive	67143307-952a-bb74	Enabled
<ul> <li>API permissions</li> <li>Expose an API</li> <li>App roles</li> <li>Owners</li> <li>Roles and administrators</li> <li>Manifest</li> <li>Support + Troubleshooting</li> <li>Troubleshooting</li> <li>New support request</li> </ul>						

- 4. Define the following App roles:
  - Teams Bot
  - Remote Transfer Service
  - Call Delivery Live

# Update OpenID Connect Token (OIDC) Client Configuration

OpenID Connect Token (OIDC) Client Configuration is used for authentication between the SmartTAP server, Bot and Remote Transfer Service (RTS). SmartTAP 360° uses the Client Credential Flow to authenticate itself and access hosted resources, such as Users and Groups from Azure Active Directory.

This configuration is created **automatically** by the **Deployment script**; however, you must manually update the Client Secret generated in Configure Client Secret for Role-based Access (aad-app) on page 333.

#### > To update the client secret:

- **1.** Login to the SmartTAP Web with a user that has "sysAdmin" role.
- Open the Add/Modify OpenID Connect Token (OIDC) Client Configuration screen (System menu > WEB folder> OpenID Connect Token).

1

٥dd	/Modify OpenID Co	nnert Token (OID	C) Client Configuration
uu	moully openilo co	intect loken (OID	c) cheft configuration
_	Add/Modify OpenI	D Connect Tok	en (OIDC) Client Configuration
	inde, indeni, openi		(order) energenergeneren
	Hactad	(Tonant) ID	
	Hosted	(Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7
	Application	(Client) ID	5127bb02-2c21-4c95-947b-d6ea2a1f653f
		lient Secret	
	C C	lient Secret	•••••
	I	Resource ID	api://st-analytics-11.ai-logix.net/smarttap
			apin/se analytics Than logixined sinarcap
I			
			SUBMIT
<u>/</u>	· ·		direct URI field was used instead of the Resource ID field. from the previous version, this field is supported for
	Backward cor	npatibility.	
	■ Microsoft Azure		docs (G+/) 🗵 🛱 ር 🎯 🧿 🖓 ყოფიიიც. არკავით 🔔
	Home > AudioCodes - SQA LIVE > b		
	<sub> S</sub> bradvoca-auth-ap	p   Expose an API 👒 🐇	×
		Got feedback?	
	R Overview	Some actions may be disabled due to	your permissions. To request access, contact the application owner(s) or your administrator. View application owners or administrators.
	i Quickstart	Application ID URI api://bradvoca.truni	
	🚀 Integration assistant	Application ID UKI apt//bradvoca.truin	rbeckcout/summe
	Manage	Scopes defined by this API	
	<ul> <li>Branding &amp; properties</li> <li>Authentication</li> </ul>	Define custom scopes to restrict access to c API can request that a user or admin conser	data and functionality protected by the API. An application that requires access to parts of this nt to one or more of these.
	Certificates & secrets		in to one on more or unese. d permissions. If you are looking to create application-only scopes, use 'App roles' and define app roles assignable to application
	Token configuration	type. Go to App roles.	<ul> <li>3 a manual definition of the same state and a same able to a substantial and the same able s Able same able same</li></ul>
	API permissions	+ Add a scope	
	Expose an API	Scopes	
	App roles	scopes	Who can consent Admin consent display User consent display na State
		No scopes have been defined	Who can consent Admin consent display User consent display na State
	A Owners		Who can consent Admin consent display User consent display na State
		No scopes have been defined	Who can consent Admin consent display User consent display na State
	A Owners	No scopes have been defined Authorized client applications	
	<ul> <li>Owners</li> <li>Roles and administrators</li> </ul>	No scopes have been defined Authorized client applications	Who can consent Admin consent display User consent display na State
	Owners     Roles and administrators     Manifest     Support + Troubleshooting	No scopes have been defined Authorized client applications Authorizing a client application indicates th this API.	
	Owners     Roles and administrators     Manifest	No scopes have been defined Authorized Client applications Authorizing a client application indicates th this API. + Add a client application	at this API trusts the application and users should not be asked to consent when the client calls
	Covers C	No scopes have been defined Authorized client applications Authorizing a client application indicates th this API.	at this API trusts the application and users should not be asked to consent when the client calls Scopes

# Setup SmartTAP OpenID Connect Token Automatically (auth-app)

The SmartTAP OpenID Connect connection registration "auth-app" is applied for backward compatibility for customers deploying versions prior to Version 5.6 as described in the note below.

The **auth-app** registration applies to SmartTAP versions 5.3, 5.4, 5.5 and upgrade to version 5.6. For a clean installation of version 5.6 and later versions, see Setup Azure Active Directory (aad-app)

# > To view the auth-app:

- **1.** Login to the Azure portal for the hosting or customer tenant.
- 2. In the Active Directory Navigation pane, select **App Registrations** and then select the **auth-app**. For example, "Bradvoca-auth-app".

Figure 33-6: auth-app

	, P Search resources, services, and docs (G+/)	Σ 🗣 Ο		Brad@hdvoip.org
Home > AudioCodes - SQA LIVE				
AudioCodes - SQA	LIVE   App registrations 🖈 🖤			×
×	🕂 New registration 🌐 Endpoints 🧷 Troubleshooting 🖒 Refresh 🞍 Download 🙃 Preview features   🔗 G	Got feedback?		
Overview				
Preview features	3 Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Az	ure AD Granh. We will continue to provide technical support and security und	ates but we will no long	er provide feature updates. ×
X Diagnose and solve problems	Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more	are no orophic the number of provide elements apport and second upon	ates but he million long	er pronde realise apointes
Manage				
🚨 Users	All applications Owned applications Deleted applications			
🎊 Groups	P Start typing a display name or application (client) ID to filter these res     typing a display name or application (client) ID to filter these res     typing a display name or application (client) ID to filter these res     typing a display name or application (client) ID to filter these res     typing a display name or application (client) ID to filter these res			
External Identities				
Roles and administrators	20 applications found Display name ↑↓	Application (client) ID	Created on ↑↓	Certificates & secrets
Administrative units	ARM Terraform	30a41dca-f008-4b28-95a3-78ee29d91bf0	5/9/2022	Certificates & secrets
Enterprise applications	en bradvoca-aad-app	6fbe1b35-2b94-4205-a34a-29d94a3d4894	6/14/2022	Current
Devices	ex bradvoca-auth-app	4e68065c-7e9c-4bb9-bd96-beae7a8f13cd	6/14/2022	Current
App registrations	as bradvoca-calis-app	dbb1e2c5-031e-41c0-8551-f6739421fc2a	6/14/2022	🔮 Current
Identity Governance	an bradvoca-login-app	810e8eb2-a1df-4f0e-94a8-36654e5a92d6	6/14/2022	Current
Application proxy	an bradvoca-rts-app	abf06f46-3145-413e-a2bb-8064a17de58f	6/14/2022	Current
<ul> <li>Custom security attributes (Preview)</li> </ul>	changeNotificationSampleApplication	463ca8be-4c5f-44ce-8309-b1c9376aa714	7/15/2020	Current
🔓 Licenses	co Costi	8658d577-45d7-47a4-9425-53e7efce5295	1/17/2022	O Current
Azure AD Connect	DNS_Client_Provisioning	bd2e21ca-bd43-49d3-a9c1-ac0519c14e7d	10/13/2021	🛛 Current
🐖 Custom domain names	hdvoiporg-LTC-Smartap-213a96df-89c2-4bf3-9840-e99ea20ebac1	c4c5d77b-Se9d-4e8c-ad96-Sfd74adac47e	5/11/2022	🛛 Current
Ø Mobility (MDM and MAM)	LogAnalyticsMon	oc24299b-5f53-4d53-a370-707b8e0ea905	4/20/2022	🔮 Current
🕈 Password reset	ov OVL_DEV	bd930812-0f7e-4d29-8e14-840ee01ec219	10/31/2021	🕑 Current
Company branding	ov OVL_Rivka	b2455cb6-58d8-4308-92c2-68c6368cd526	7/6/2021	Current
3 Liser settings v	OLE Dide Sinds	60.669 810 1111 6 J.C.D.D.C.	10/10/2024	×
Microsoft Azure		<b>E G Q</b>	© R	Brad@hdvoip.org
Home > AudioCodes - SQA LIVE >				
🔣 bradvoca-auth-app	A			×
, P βearch (Ctrl+/) ≪	🗻 Delete 🌐 Endpoints 🐻 Preview features			
B Overview				
	🚯 Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →			
📣 Quickstart	floor Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). $ o$			^
<ul> <li>Quickstart</li> <li>Integration assistant</li> </ul>	∧ Essentials			Î
	▲ Essentials Display name : <u>Inselson=auth-app</u>	Client oredentials : <u>Add a certificate or secret</u>		Â
🚀 Integration assistant	► Steentlak Display name : <u>Inschoos-auth-ann</u> Application (diem) ID : 4-4680656-7464-4649-4646-beat7a613cd	Redirect URIs : <u>2 web, 0 spa, 0 public dient</u>		^
Integration assistant     Manage     Branding & properties     Authentication	▲ Essentials Display name : <u>Inselson=auth-app</u>			^
<ul> <li>Integration assistant</li> <li>Manage</li> <li>Branding &amp; properties</li> <li>Authentication</li> <li>Certificates &amp; secrets</li> </ul>	► Essentials           Display nume         : Israfwick-sulth-sign           Application (dem) ID         : 4 e650056-7 effe-tudgh-beg8-bag8-7 a61 Soci           Object: ID         : 1 2650144-1952-4ee5-a7 c6 b7.5c7.ef24208	Redirect URIs         : 2 web.0 sos.0 nublic dient           Application ID URI         : apj://bradvoca.trunkpack.com/xmarttap		
Integration assistant Manage Branding & properties Authentitation Certificates & secrets II Token configuration	Essentials           Display name         : <u>Insidences-auth-asp</u> Application (ident) Di         : 4663056; 7-496-4039-40596-base7.a6873cd           Object: Di         : 1260114.11952-4ecs-ar26.b7x52/eF2408           Directory (Iseumi I) Di         : 62271207.7666-43ae-bcs5-ac88beabe3b17           Supported account types : <u>Moltpide arguitzations</u>	Refered UNIS : 2_web.0_sos.0_cubic Cent     Application ID URI : apt/diradivoca.trunknack.com/smarttap     Managed application in Io : brackoca.auth.app		×
	Essentials         Disploy name         : bradwore-suth-sige           Application (siden) 10         : 46680656: 7480-4089-4089-5ae7.8613.0d         Ogient 10         :: 268/nt.44-1952-4e5-3r2.0b7.5c7.eF2.008           Directory (tenant) 10         :: 562/17607-8666.436a-bcc5-2cd8bdeb3b17         ::         ::::::::::::::::::::::::::::::::::::	Redirect URB : 2 web.0 sex.0 public dent Application ID URI : asi//tradhoca.trutkark.com/mantage Managed application in lo : brahoca.auth.stop	fates but we will no long	×
	Essentiale  Disploy name     is <u>bradhools-with-ase</u> Application (den) D     : 4640065c-7460-4059-5464-8473613.cd  Object D     : 12601144-1952-4463-3470-5755/et2408  Directory (brewn) D     : 65217607-84664-348a-bcd5-2ca8BodexBib17  Supported account pypes     : <u>Multicle crystivations</u> * 3stortiog avec \$200, 2000 w will no longer add any sew features to Asive Active Directory (ADAL) and All     updates. Applications will need to be upgraded to Morsofit Authemication Library (MSAL) and Morsofit Craph. Learn more	Redirect URB : 2 web 0 sex 0 unlic client Application ID URI : apj/dbrackoca.truekaack.com/amartage Managed application in lo : bracksoca.auth-ace save AD Graph. We will continue to provide technical support and security up a	dates but we will no long	per provide feature
	► Essentials           Display name         : boolstock-suft-ang           Application (dim) ID         : 4e80656.7 eVec-4b39-b987-b887361           Object ID         : 12607144-1952-ae64-2760-5657e82408           Directory (benard) ID         : 64217607-8664-633a-b685-2e88b6be3b17           Supported account types - Multidiae regulations	Redirect URB : 2 web 0 sex 0 unlic client Application ID URI : apj/dbrackoca.truekaack.com/amartage Managed application in lo : bracksoca.auth-ace save AD Graph. We will continue to provide technical support and security up a	dates but we will no long	per provide feature × ×
	Essentiale  Disploy name     is <u>bradhools-with-ase</u> Application (den) D     : 4640065c-7460-4059-5464-8473613.cd  Object D     : 12601144-1952-4463-3470-5755/et2408  Directory (brewn) D     : 65217607-84664-348a-bcd5-2ca8BodexBib17  Supported account pypes     : <u>Multicle crystivations</u> * 3stortiog avec \$200, 2000 w will no longer add any sew features to Asive Active Directory (ADAL) and All     updates. Applications will need to be upgraded to Morsofit Authemication Library (MSAL) and Morsofit Craph. Learn more	Redirect URB : 2 web 0 sex 0 unlic client Application ID URI : apj/dbrackoca.truekaack.com/amartage Managed application in lo : bracksoca.auth-ace save AD Graph. We will continue to provide technical support and security up a	dates but we will no long	per provide feature × ×
	► Exercital     Display runne : Iosidadde_auth_ande     Application (Internet) : : : : : : : : : : : : : : : : : : :	Redirect URB : 2 web 0 sex 0 unlic client Application ID URI : apj/dbrackoca.truekaack.com/amartage Managed application in lo : bracksoca.auth-ace save AD Graph. We will continue to provide technical support and security up a	dates but we will no long	per provide feature × ×
	► Searchial      Display many	Redirect UBS : 2 web.0 sos.0 public dent Application ID UBI : ani//tradiroca.truthasck.com/maintain Managed application in Io. 1 tradiroca.tauthasck south and application in Io. 1 tradiroca.tauthasck surve AD Graph. We will continue to provide technical support and security up a	states but we will no long	per provide feature × ×
	▶ centrabil         Bingtorna       Exclusiona-tatility and the sector of t	Redirect URS : 2 web,0 so, 0 outlot client: Application ID URI : and//tradicoca.turblanck.com/martial Managed application in Io. 1 tradecoca.turblanck surve AD Graph. We will continue to provide technical support and security up everthed publishers. Add MRNID to verify publisher e Microssoft identity platform		per provide feature × ×
	► Searchial      Display many	Aedivect UBS		per provide feature × ×
	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	Aedivect UBS		per provide feature ×
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	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	Aedivect UBS		per provide feature × ×

**3.** In the Navigation pane, select **Authentication**.

Figure 33-7: auth-app Authentication

= Microsoft Azure	∠ Search resources, services, and docs (G+/)	Þ	Ģ	) @	0	R	Brad@hdvoip.org
Home > AudioCodes - SQA LIVE > bra	dvoca-auth-app						
∋ bradvoca-auth-app	Authentication * ···						×
Search (Ctrl+/) «	R Got feedback?						_
<ul> <li>Overview</li> <li>Quickstart</li> </ul>	Some actions may be disabled due to your permissions. To request access, contact the application owner(s) or your administrator. View applic Platform configurations	ation owner	s or adn	ninistrato	rs.		
🚀 Integration assistant							
Manage	Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.						
Branding & properties	+ Add a platform						
Authentication							
📍 Certificates & secrets	^ Web	Quick	itart [	losg?			_
Token configuration	Redirect URIs						
API permissions	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out use			/ou			
<ul> <li>Expose an API</li> </ul>	send in the request to the login server should match one listed here. Also referred to as reply URLs. Learn more about Redirect URIs and their	r restrictions	ď				
App roles	▲ This app has implicit grant settings enabled. If you are using any of these URIs in a SPA with MSALis 2.0, you should migrate URIs. →			×			
A Owners							
<ol> <li>Roles and administrators</li> </ol>	https://bradvoca.trunkpack.com/smarttap/status/target_status.jsf						
III Manifest	https://login.microsoftonline.com/common/oauth2/nativeclient						
Support + Troubleshooting							
Troubleshooting	Front-channel logout URL						
New support request	This is where we send a request to have the application clear the user's session data. This is required for single sign-out to						
	Save Discard						

The configured Redirect URIs are used as follows:

- Customer login to SmartTAP Portal (a separate URI is created for each customer).
- Token authentication link send to customer IT administrator for requesting consent.
- 4. In the Navigation pane, select **Permissions**.

Figure 33-8: auth permissions

Microsoft Azure		,	urces, services, and docs (G+/)							) Brad@hi AUDIOCODES - SQA U	dvoip.org 🧕 ve (нрухн
Home > AudioCodes - SQA LIVE > bra	dvoca-auth-app										
<sub></sub>	API permissions	\$									×
P Search (Ctri+/) «	🕐 Refresh 🔰 🖗 Got feedba	ack?									
Overview	Some actions may be disable	d due to your per	missions. To request access, contact the	application owner(s) or your administrator. View application ow	vners or administrators.						
i Quickstart	- · · ·										
🚀 Integration assistant		0 IS		y registered multitenant apps without verified publishers. Add MPN	to the second second factors						×
Manage	Starting November 901, 202	o ena users will no	longer be able to grant consent to newr	y registered montenant apps without verified publishers. Add MAP	N ID to verily publisher						
📰 Branding & properties		de automo atomo d		rever, user consent can be customized per permission, user, or app	- 76/2 1						
Authentication	used. Learn more	column shows t	ne derauit value for an organization. How	rever, user consent can be customized per permission, user, or app	p. This column may not re	nect the value	in your of	ganization	, or in orga	mizations where this app v	wii be
📍 Certificates & secrets											
Token configuration	Configured permissions	APIc when they a	re granted nermissions by users (admin	is as part of the consent process. The list of configured permissio	one chould indude all						
<ul> <li>API permissions</li> </ul>	the permissions the application ne			is as part of the consent process. The list of conligued permissio	ons should include an						
Expose an API	+ Add a permission 🗸 Gra	nt admin consent	for AudioCodes - SQA LIVE								
App roles	API / Permissions name	Туре	Description	Admin consent requi Status							
A Owners	✓ Microsoft Graph (1)										
<ol> <li>Roles and administrators</li> </ol>	openid	Delegated	Sign users in	No							
10 Manifest											
Support + Troubleshooting	To view and manage permissions -	and user consent,	try Enterprise applications.								
Troubleshooting											
New support request											

- 5. View that the required permissions are displayed:
  - Openid-Sign in and read user profile

# **Verify Active Directory Providers Configuration**

An AAD mapping entry is created by the SmartTAP for Teams Deployment script with the following customer tenant credentials:

- Application (Client) ID
- Directory (Tenant) ID

Client Secret

#### > Do the following:

- 1. Login to the SmartTAP Web with Administrator role.
- Open the View/Modify AAD Configuration screen (System tab > AAD folder > View/Modify AAD Config).

Figure 33-9: Active Directory Providers

Active Directory Providers				
Name	\$ Organization (Tenant) Id	\$ Application (Client) Id	\$ Modify	Delete
OmarAADMapping	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	e89f56de-0f23-4d35-a639-9503caa55de4		

There is an identical corresponding mapping entry for the customer Azure tenant between the Active Directory Providers table (shown in figure above) and the OpenID Connect Token Client Configuration screen (see Update OpenID Connect Token (OIDC) Client Configuration on page 337).

# **Configure AAD Mapping Profiles**

SmartTAP 360° Version 5.1 and later allows configuration of the following profiles for mapping Organizations' (Tenant) users from Microsoft Azure Active Directory (AAD Azure Active Directory objects to SmartTAP entities. It's possible to map users and profiles from **several** Azure Active Directories. The following profiles can be configured:

Active Directory Providers Configuration: AAD mapping with customer tenant credentials (see Verify Active Directory Providers Configuration on the previous page).



A default mapping entry is created by the Deployment script including the credentials of the Azure customer tenant.

- AAD User Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapped profile (see AAD User and Group Mapping on page 372). Once the AAD group is mapped, it is added to the SmartTAP Groups table.
- AAD Security Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapping profile (see AAD Security Profile Mapping on page 365). Once the AAD Security Profile is mapped, it is added to the SmartTAP Security Profiles table.
- AAD Recording Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapping profile (see AAD Recording Profile Mapping on page 358). Once the Recording Profile is mapped, it is added to the SmartTAP Recording Profiles table.
- AAD Retention Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapped profile. Once the Retention Profile is mapped, it

is added to the SmartTAP Retention Policies table (seeAAD Retention Policy Mapping on page 352).

- AAD Media Location Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapped profile (see AAD Media Location Mapping on page 347). Once the Media Location Mapping Profile is mapped, it is added to the SmartTAP Recording Locations table.
- AAD Analytics Mapping Location Mapping Profile: Maps to one or more member groups. All users belonging to the mapped groups inherit the mapped profile (see AAD Analytics Mapping below). Once the AAD Analytics Mapping Profile is mapped, it is added to the SmartTAP Analytics Profile table.
  - The AAD data that is retrieved from Azure i.e. member, name and description cannot be modified in SmartTAP, only directly from Azure.
    - If you remove a group from any mapping, then the corresponding entity is also removed from the SmartTAP database i.e. the mapping configuration is deleted.
    - If you delete a group in Azure, the mapping and configuration are not removed from the SmartTAP database.

# AAD Analytics Mapping

This section describes how to map AAD Analytics profiles. The Analytics profiles should be mapped to one or more of the member groups that you mapped in AAD User and Group Mapping on page 372 and then users assigned to these groups are associated with the new Analytics profiles.

- In the event where a user is mapped to two or more Analytics profiles then it will not be assigned to any profile and an alarm will be raised.
- In case the analytics profile of a user is mapped to two groups (of the same kind,) then no analytics profile is mapped for the user (and an alarm will be sent). For example, user "Sharon" belongs to both group A and B on Azure, and both are mapped to the recording profile group mapping. In this case "Sharon" will not be assigned to any analytics profile.

#### > To configure analytics mapping:

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

#### Figure 33-10: Active Directory Providers Page

Active Directory Providers				
Name 🗘	Organization (Tenant) Id 🗘	Application (Client) Id	Modify	Delete
OmarAAD_mapping	ad41d6c3-67f0-47cc-9de3- e07fd185c1c7	00c65e7a-2064-443f- bb24-0de67025bd72		

2. Select the provider entry that you configured in Verify Active Directory Providers

Configuration on page 340 and then click

Figure 33-11: Modify Active Directory Configurat	ion
--	-----

Modify Active Directory Configura	tion				
Name	AAD				
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3	3-e07fd185			
Application (Client) ID	4b7fb439-6bea-4a11-a41	b-1647b6fi			
Client Secret					
					SUBMIT
- F			User Mappings		
•			Security Profile Mappings		
→		1	Recording Profile Mappings		
•			Retention Mappings		
•			Media Location Mappings		
Mapping Name	•				
Member Groups			Select Groups		
🔘 One Level 🔘 Subt	ree				
					$( \mathbf{+} )$
Mapping Name	Men	nber Groups	Search Scope	Modify Mapping	Delete
			No records found.		
•			Analytics Mappings		

3. Select the Analytics Mappings tab.

Figure 33-12: Analytics Mappings

Modify Active Directory Configura	tion				
Name	AAD				
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7				
Application (Client) ID	4b7fb439-6bea-4a11-a41b-1647b6faa9a1				
Client Secret					
					SUBMIT
			User Mappings		
•		Se	curity Profile Mappings		
→			cording Profile Mappings		
•			Retention Mappings		
•			edia Location Mappings		
•			Analytics Mappings		
Mapping Name					
Member Groups		Select Groups			
<ul> <li>One Level</li> <li>Subt</li> </ul>	ree				
					$\bigcirc$
Mapping Name	Member Groups		Search Scope	Modify Mapping	Delete
			No records found.		

- 4. In the Mapping Name field, enter a name for the Analytics Mappings Profile.
- 5. Select one of the following:
  - **One Level:** SmartTAP maps the user to the highest Active Directory object level (root group)
  - **Subtree**: SmartTAP maps only the root group and assigns to it, the users from the root group and subgroups.
- 6. Click the **Select Groups** button to browse to the relevant group.

Figure 33-13: Select Mem	
Select Member Groups	
Searched Groups	st
ST [104b2b0c-d1a7-46b2-a6ca-958b1	7666133]
ST-Teams-Users [9e870e1f-0c70-48d7	7-98da-1868886c024e]
✓ ST-load-test-dynamic-rename [5e7ce8 4886-80f3-49314e2beb60]	3d2-412a-
STQATeam [29f34319-2230-4871-902	0-d683d8a1ef2a]
$\sim$	^
Selected Groups	
	CANCEL SUBMIT

Figure 33-13: Select Member Groups

7. Use the arrow buttons to assign the relevant groups.

Figure 3	33-14:	Select	Member	Groups
----------	--------	--------	--------	--------

Select Member Groups					
Searched Groups	st				
ST_Test_Group [845e4dd8-78aa-49cd-bc         STloadUsers [380fac00-b5ed-41ae-b180         st-compliance-michal [cbc58572-7d1f-40         st-subgroup1-test-rename [14a05d00-7]	-a3421fd701f9] 9f-bc7d-525a9718e299]				
$\sim$ $\sim$					
Selected Groups					
ST [104b2b0c-d1a7-46b2-a6ca-958b17b         ST-Teams-Users [9e870e1f-0c70-48d7-9         ST-load-test-dynamic-rename [5e7ce8d2         STQATeam [29f34319-2230-4871-9020-0	- 8da-1868886c024e] 2-412a-4886-80f3-49314e2beb60]				



The maximum number of search results is limited to "10".

- Click W to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.

Figure 33-15: Remove Member Gro	up Assignment
---------------------------------	---------------

Searched Groups	st
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-9]</li> <li>ST_Test_Group [845e4dd8-78aa-4]</li> <li>STloadUsers [380fac00-b5ed-41a]</li> <li>st-compliance-michal [cbc58572-7]</li> </ul>	49cd-bd44-fbeb622ce809] e-b180-a3421fd701f9]
Selected Groups	< >
<ul> <li>✓ ST-Teams-Users [9e870e1f-0c70-</li> <li>☐ ST-load-test-dynamic-rename [5e</li> <li>☐ STQATeam [29f34319-2230-4871</li> </ul>	- ?ce8d2-412a-4886-80f3-49314e2beb60]
	CANCEL

8. Click SUBMIT to apply changes.

# Figure 33-16: Assigned Member Groups

#### Figure 33-17:

Mapping Name	Marketing BI		]					
Member Groups	ST-Teams-Users, ST-load-te	est-dynamic-rename, STQATeam	Select Groups					
One Level O Subtre	2e							
One Level O Subtri	ee						ſ	
<ul> <li>One Level O Subtri</li> </ul>	ee						[	<del>•</del>
One Level Subtraction     Mapping Name		Member Groups		Search Scope	M	odify Mapping	Delete	<b>+</b>

9. Click to add this mapping to SmartTAP 360°.

Figure 33-18: Analytics Profile Mapping

	Mapping Name		Select Groups			
۲	One Level 🔘 Subtree					
						$( \bullet )$
	Mapping Name	Member Groups		Search Scope	Modify Mapping	Delete
0	Marketing BI	ST-load-test-dynamic-rename, STQATeam		ONE_LEVEL		

**10.** Open the View/Modify Analytics Profiles page to view the new profile mapping and to configure it (View and Modify Analytics Profile on page 69).

Figure 3	83-19:	View/Modify	Analytics	Profiles
----------	--------	-------------	-----------	----------

View/Modify Analytics Profiles						
Name	Description \$	Modify Analytics Profiles	Delete			
AnalyticsProfile_EN	rest_Analytics_desc		<b></b>			
VPNCpolicy	VPNCpolicy		ā			
Analytics_Profile_HE	Analytics_Profile_HE		ā			
STQATeam	STQATeam					
ST-load-test-dynamic-rename	ST-load-test-dynamic-rename					
20 v 14 <4 1 >> >1 (1 of 1)						

# **AAD Media Location Mapping**

This section describes the AAD Media Location mapping. The media locations should be mapped to one or more of the member groups that you mapped in AAD User and Group Mapping on page 372 and then users assigned to these groups are associated with the new media location.



- In the event where a user is mapped to two or more media locations then it will not be assigned to any location and an alarm will be raised.
- In case the media location of a user is mapped to two groups (of the same kind,) then no media location is mapped for the user (and an alarm will be sent). For example, user "Sharon" belongs to both group A and B on Azure, and both are mapped to the recording profile group mapping. In this case "Sharon" will not be assigned to any media location.

### > To configure media location mapping:

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

# Figure 33-20: Active Directory Providers Page

Active Directory Providers				
Name 🗘	Organization (Tenant) Id	Application (Client) Id	Modify	Delete
OmarAAD_mapping	ad41d6c3-67f0-47cc-9de3- e07fd185c1c7	00c65e7a-2064-443f- bb24-0de67025bd72		Ē

2. Select the provider entry that you configured in Verify Active Directory Providers

Configuration on page 340 and then click

Figure 33-21	Modify	Active	Directory	Configuration
--------------	--------	--------	-----------	---------------

Modify Active Directory Configura	ition					
Name	AAD					
Directory (Tenant) ID	ad41d6c3-67f0-47c	c-9de3-e07fd185				
Application (Client) ID	4b7fb439-6bea-4a1	1-a41b-1647b6fa				
Client Secret						
						SUBMIT
•				User Mappings		
•			Secu	rity Profile Mappings		
→			Recor	ding Profile Mappings		
•			Re	etention Mappings		
•			Medi	a Location Mappings		
Mapping Name Member Groups One Level O Subt				Select Groups		
						( + )
Mapping Name		Member Groups		Search Scope	Modify Mapping	Delete
	No records found.					
÷			A	nalytics Mappings		

3. Select the Media Location Mappings tab.

Figure 33-22: Location Mappings

Modify Active Directory Configuration					
Name	D				
Directory (Tenant) ID add	41d6c3-67f0-47cc-9de3-e07fd185				
Application (Client) ID 4b7	7fb439-6bea-4a11-a41b-1647b6fi				
Client Secret					
					SUBMIT
÷			User Mappings		
→		Secu	ity Profile Mappings		
→		Record	ding Profile Mappings		
•		Re	tention Mappings		
•		Media	a Location Mappings		
Mapping Name					
Member Groups			Select Groups		
One Level ○ Subtree					
					Ð
Mapping Name	Member Groups		Search Scope	Modify Mapping	Delete
		No	records found.		
•		An	alytics Mappings		

- 4. In the Mapping Name field, enter a name for the Media Location Mappings Profile.
- 5. Select one of the following:
  - **One Level:** SmartTAP maps the user to the highest Active Directory object level (root group)
  - **Subtree**: SmartTAP maps only the root group and assigns to it, the users from the root group and subgroups.
- 6. Click the **Select Groups** button to browse to the relevant group.

	•
Select Member Groups	
Searched Groups	st
<ul> <li>□ ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b</li> <li>☑ ST-Teams-Users [9e870e1f-0c70-48d7-98d</li> <li>☑ ST-load-test-dynamic-rename [5e7ce8d2-4 4886-80f3-49314e2beb60]</li> <li>☑ STQATeam [29f34319-2230-4871-9020-d66</li> </ul>	a-1868886c024e] 12a-
Selected Groups	,
	CANCEL

Figure 33-23: Select Member Groups

7. Use the arrow buttons to assign the relevant groups.

Figure 33	-24: Select	: Member	Groups
-----------	-------------	----------	--------

Select Member Groups				
Searched Groups	st			
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd</li> <li>STloadUsers [380fac00-b5ed-41ae-b180</li> <li>st-compliance-michal [cbc58572-7d1f-40</li> <li>st-subgroup1-test-rename [14a05d00-7]</li> <li>st-subgroup1-test-rename [14a05d00-7]</li> </ul>	-a3421fd701f9] )9f-bc7d-525a9718e299]			
$\sim$ $\sim$				
Selected Groups				
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b</li> <li>ST-Teams-Users [9e870e1f-0c70-48d7-9</li> <li>ST-load-test-dynamic-rename [5e7ce8d2</li> <li>STQATeam [29f34319-2230-4871-9020-</li> </ul>	08da-1868886c024e] 2-412a-4886-80f3-49314e2beb60]			



The maximum number of search results is limited to "10".

- Click W to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.



Select Member Groups	
Searched Groups	st
ST [104b2b0c-d1a7-46b2-a6ca-958b17 ST_Test_Group [845e4dd8-78aa-49cd-l STloadUsers [380fac00-b5ed-41ae-b18 st-compliance-michal [cbc58572-7d1f-4	bd44-fbeb622ce809] 80-a3421fd701f9] 409f-bc7d-525a9718e299]
✓       ST-Teams-Users [9e870e1f-0c70-48d7-         □       ST-load-test-dynamic-rename [5e7ce8d]         □       STQATeam [29f34319-2230-4871-9020]	d2-412a-4886-80f3-49314e2beb60]
	CANCEL SUBMIT

8. Click SUBMIT to apply changes.

# Figure 33-26: Assigned Member Groups

*			Ме	dia Location Mappings		
Mapping Name Member Groups One Level O Subtr	Melbourne ST-load-test-dynamic-renai ee	me, STQATeam	Select Groups			
						<b>(+)</b>
Mapping Name		Member Groups		Search Scope	Modify Mapping	Delete
No records found.						
•	Analytics Mappings					

9. Click to add this mapping to SmartTAP 360°.

The new Location Mappings profile is displayed:

Figure 33-27: Media Location Mapping

	Manalia Mana					
	Mapping Name					
	Member Groups Select Groups					
One Level     O Subtree						
					(+)	
	Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete	
0	Melbourne	ST-load-test-dynamic-rename, STQATeam	ONE_LEVEL		ā	
		Analytics Mappings				

**10.** Open the View/Modify Recording Locations page to view the media location mapping and configure it (Viewing and Modifying a Recording Location on page 286.

View/Modify Recording Locat	tions						
Location Name 🗘	Path or Container	Description 🗘	Username 🗘	Domain 🗘	Modify	Default	Remove
Initial	recordings	Initial Recording Location	mediabxnmsftcert54	•		☆	
STQATeam		STQATeam					
ST-Teams-Users		ST-Teams-Users				$\overleftrightarrow$	
ST-load-test-dynamic- rename		ST-load-test-dynamic- rename				$\overleftrightarrow$	

Figure 33-28: View/Modify Recording Locations

### **AAD Retention Policy Mapping**

This section describes how to map AAD Retention Mappings profile. The policy should be mapped to one or more of the member groups that you mapped in AAD User and Group Mapping on page 372 and therefore users assigned to these groups are associated with the new Retention policy.

- In case the retention policy of a user is mapped in two or more groups (of the same kind) then no retention policies will be mapped for the user (and an alarm will be sent). For example, user "Bill" belongs to both group A and B on Azure, and both are mapped to the same retention policy . In this case "Sharon" will not be assigned to any retention policy.
  - If a user is already assigned to a local Retention Policy, then if an AAD policy is later assigned to the same user then this policy takes precedence.
  - If while removing a retention group there are calls that connected to this retention policy, then the mapping will be removed however the retention policy stays local and stays attached to the calls. Example: group A on Azure is mapped to a retention policy and then after some time there are some calls that are assigned to this policy. If the user is unmapped, then the group will be removed from the mapping, however the retention policy will still remain in the local DB including the assigned calls, however without a user assigned.

### > To configure retention policy mapping:

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

#### Figure 33-29: Active Directory Providers Page

Active Directory Providers				
Name 🗘	Organization (Tenant) Id 🗘	Application (Client) Id	Modify	Delete
OmarAAD_mapping	ad41d6c3-67f0-47cc-9de3- e07fd185c1c7	00c65e7a-2064-443f- bb24-0de67025bd72		Ē

2. Select the provider entry that you configured in Verify Active Directory Providers

Configuration on page 340 and then click

Modify Active Directory Configur	ation		
Name	OmarAAD_mapping		
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	5c	
Application (Client) ID			
Application (Client) ID	00c65e7a-2064-443f-bb24-0de670	25	
Client Secret			
			SUBMIT
*	User Ma	ppings	
Mapping Name	omarAAD		
Member Groups	ST_Test_Group, 2E5_users		Select Groups
First Name	givenName	~	
Last Name	surname	~	
Login	userPrincipalName	$\sim$	
Email	mail	~	
Alias		~	
OID		$\sim$	
🔾 One Level 💿 Subt	ree		
Add Groups			
			CANCEL
Mapping Name	Member Groups	Search Scope	Modify Mapping Delete
omarAAD	ST_Test_Group, 2E5_users	SUB_TREE	
•	Security Prof	ile Mappings	
• •	Recording Pro	file Mappings	
•	Retention	Mappings	

Figure 33-30: Modify Active Directory Configuration

3. Select the Retention Mappings tab.

Figure 33-31: Retention Mappings	Figure	33-31:	Retention	Mappings
----------------------------------	--------	--------	-----------	----------

Add Active Directory Configuration					
Name					
Directory (Tenant) ID					
Application (Client) ID adm	nin				
Client Secret •••	••				
				SUBMIT	
				SOBMIT	
User Mappings					
Security Profile Mappings					
Recording Profile Mappings					
▼ Retention Mappings					
Mapping Name					
Member Groups		Select Group	S		
⑥ One Level ○ Subtree					
				( + )	
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete	
	No re	ecords found.			

- 4. In the Mapping Name field, enter a name for the Retention Mappings Profile.
- **5.** Select one of the following:
  - **One Level:** SmartTAP maps the user to the highest Active Directory object level (root group).
  - **Subtree:** SmartTAP maps only the root group and assigns to it, the users from the root group and subgroups.
- 6. Click the **Select Groups** button to browse to the relevant group.

Figure 33-32:	Select	Member	Groups
---------------	--------	--------	--------

Select Member Groups	
Searched Groups	st
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b</li> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98d2-4</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-4</li> <li>4886-80f3-49314e2beb60]</li> <li>STQATeam [29f34319-2230-4871-9020-d68</li> </ul>	a-1868886c024e] 12a-
Selected Groups	

7. Use the arrow buttons to assign the relevant groups.

Figure	33-33:	Select	Member	Groups
--------	--------	--------	--------	--------

Select Member Groups				
Searched Groups	st			
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd</li> <li>STloadUsers [380fac00-b5ed-41ae-b180</li> <li>st-compliance-michal [cbc58572-7d1f-40</li> <li>st-subgroup1-test-rename [14a05d00-7]</li> <li>st-subgroup1-test-rename [14a05d00-7]</li> </ul>	-a3421fd701f9] )9f-bc7d-525a9718e299]			
~ ^	•			
Selected Groups				
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]</li> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98da-1868886c024e]</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-412a-4886-80f3-49314e2beb60]</li> <li>STQATeam [29f34319-2230-4871-9020-d683d8a1ef2a]</li> </ul>				



The maximum number of search results is limited to "10".

- Click **№** to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.



Select Member Groups	
Searched Groups	st
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17</li> <li>ST_Test_Group [845e4dd8-78aa-49cd-b</li> <li>STloadUsers [380fac00-b5ed-41ae-b18</li> <li>st-compliance-michal [cbc58572-7d1f-4</li> <li>st-compliance test control [14005 doo 7</li> </ul>	0-a3421fd701f9] 0-a3421fd701f9] 09f-bc7d-525a9718e299]
Selected Groups	
<ul> <li>ST-Teams-Users [9e870e1f-0c70-48d7-</li> <li>ST-load-test-dynamic-rename [5e7ce8d</li> <li>STQATeam [29f34319-2230-4871-9020</li> </ul>	- 12-412a-4886-80f3-49314e2beb60]
	CANCEL

8. Click SUBMIT to apply changes.

# Figure 33-35: Assigned Member Groups

	Mapping Name	Central Call Cer	nter				
	Member Groups	ST-Teams-User	s, ST-load-test-dynamic-rena	me, STQATeam	Select Groups		
	⊙ One Level ⊖ Subtree						
							$\bigcirc$
	Mapping Name		Member Groups		Search Scope	Modify Mapping	Delete
	No records found.						
•	Media Location Mappings						
•				Ana	lytics Mappings		

**9.** Click to add this mapping to SmartTAP 360°.

The new Retention Profile mapping is displayed:

Figure 33-36: Retention Profile Mapping

	۲	Mapping Name Member Groups One Level O Subtree	Select Groups			
						( + )
		Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
	0	Central Call Center	ST-Teams-Users, ST-load-test-dynamic-rename, STQATeam	ONE_LEVEL		
			Media Location Mappings			
•	Analytics Mappings					

**10.** Open the View/Modify Retention Policies page to view the new profile mapping and configure it according to requirements (see Configuring Call Retention on page 58).

View/Modify Retention Policies				
Name	Description	on	Days	\$ Modify
Default	Default R	letention Group	0	
STQATeam	STQATea	m	0	
ST-Teams-Users	ST-Team	s-Users	0	
ST-load-test-dynamic-rename	ST-load-	test-dynamic-rename	0	
		20 v 14 <4 1 >>	▶ (1 of 1)	

Figure 33-37: View/Modify Retention Policies



By default, the newly created retention policy is set to 0 (no calls are retained) as shown in figure "Default Retention Policy".

Figure 33-38:	Default	Retention	Policy
---------------	---------	-----------	--------

Change Retention Policy Retention Policy	
Retention Policy Name	st-subgroup1-test
Retention Policy Description	st-subgroup1-test
Call and Instant Message Retention Period (in days)	0

### **AAD Recording Profile Mapping**

This section describes how to map AAD Recording Profiles. The profile should be mapped to one or more of the member groups that you mapped in AAD User and Group Mapping on page 372 and then users assigned to these groups are associated with the new Recording profile.



- In the event where a user is mapped to two or more recording profiles then it will not be assigned to any profile and an alarm will be raised.
- In case the recording profile of a user is mapped to two groups (of the same kind,) then no recording profile will be mapped for the user (and an alarm will be sent). For example, user "Sharon" belongs to both group A and B on Azure, and both are mapped to the recording profile group mapping. In this case "Sharon" will not be assigned to any recording profile.
- If a user is already assigned to a local recording profile, then if an AAD profile is later assigned to the same user then this profile takes precedence.
- When an Azure Active Directory Group is mapped to a recording profile then SmartTAP attempts to automatically allocate licenses to the attached users. In the event where there are no available licenses for all of the users in the group, the additionally added users will not be allocated licenses and will not be recorded. Licenses and license allocation can be managed in the Licenses page; it's recommended to verify that licenses have been successfully allocated to the newly added users (see Managing Licenses on page 204).

#### To configure recording profile mapping: $\succ$

Configuration on page 340 and then click

Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config). 1.

Figure 33-39: Active Directory Providers Page

Active Directory Providers				
Name 🗘	Organization (Tenant) Id 🗘	Application (Client) Id	Modify	Delete
OmarAAD_mapping	ad41d6c3-67f0-47cc-9de3- e07fd185c1c7	00c65e7a-2064-443f- bb24-0de67025bd72		

2. Select the provider entry that you configured in Verify Active Directory Providers

Modify Active Directory Configuration Name OmarAAD\_mapping Directory (Tenant) ID ad41d6c3-67f0-47cc-9de3-e07fd185c Application (Client) ID 00c65e7a-2064-443f-bb24-0de67025 **Client Secret** SUBMIT User Mappings Mapping Name omarAAD Member Groups ST\_Test\_Group, 2E5\_users Select Groups First Name givenName  $\sim$ Last Name surname  $\sim$ Login userPrincipalName  $\sim$ Email mail  $\sim$ Alias surname  $\sim$ OID id  $\sim$ One Level 
Subtree Add Groups SUBMIT CANCEL Search Scope Modify Mapping Delete Mapping Name Member Groups omarAAD ST\_Test\_Group, 2E5\_users SUB\_TREE C Ŵ Security Profile Mappings **Recording Profile Mappings Retention Mappings** 

Figure 33-40: Modify Active Directory Configuration

3. Select the Recording Profile Mappings tab.

Modify Active Directory Configura	tion			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7			
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67025bd72			
Client Secret				
				SUBMIT
•		User Mappings		
•		Security Profile Mappings		
•		Recording Profile Mappings		
Mapping Name				
Member Groups		Select Groups		
🔵 One Level 🔵 Subtr	ee			
				$\bigcirc$
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
testaudio	rachelsTest	SUB_TREE		Ē
•		Retention Mappings		

Figure 33-41: Active Directory Recording Profile Mappings

- 4. In the Mapping Name field, enter a name for the Recording Profile.
- 5. Select one of the following:
  - **One Level:** SmartTAP maps the user to the highest Active Directory object level (root group)
  - **Subtree:** SmartTAP maps only the root group and assigns to it, the users from the root group and subgroups.
- 6. Click the **Select Groups** button to browse to the relevant group.

# Figure 33-42: Select Group

Select Member Groups	
Searched Groups	st
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6]</li> <li>✓ ST-Teams-Users [9e870e1f-0c70-48d7-98]</li> <li>✓ ST-load-test-dynamic-rename [5e7ce8d2-4886-80f3-49314e2beb60]</li> </ul>	da-1868886c024e]
STQATeam [29f34319-2230-4871-9020-de	683d8a1ef2a] 🗸
Selected Groups	

Use the arrow buttons to assign the relevant groups.

Figure 3	3-43: Se	lect Men	nber Groups
----------	----------	----------	-------------

Select Member Groups	
Searched Groups	st
ST_Test_Group [845e4dd8-78aa-49cd-bd         STloadUsers [380fac00-b5ed-41ae-b180         st-compliance-michal [cbc58572-7d1f-40         st-subgroup1-test-rename [14a05d00-7]	-a3421fd701f9] 9f-bc7d-525a9718e299]
~ ^	,
Selected Groups	
ST [104b2b0c-d1a7-46b2-a6ca-958b17b         ST-Teams-Users [9e870e1f-0c70-48d7-9         ST-load-test-dynamic-rename [5e7ce8d2         STQATeam [29f34319-2230-4871-9020-0	- 8da-1868886c024e] 2-412a-4886-80f3-49314e2beb60]



The maximum number of search results is limited to "10".

- Click **№** to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.



Select Member Groups	
Searched Groups	st
ST [104b2b0c-d1a7-46b2-a6ca-958b17b6	
ST_Test_Group [845e4dd8-78aa-49cd-bd4 STloadUsers [380fac00-b5ed-41ae-b180-a	
st-compliance-michal [cbc58572-7d1f-409	-
	00 4104 -Of4 Ladofoch70401 *
Selected Groups	
✓ ST-Teams-Users [9e870e1f-0c70-48d7-98 ✓ ST-load-test-dynamic-rename [5e7ce8d2-	-
STQATeam [29f34319-2230-4871-9020-de	-
	CANCEL SUBMIT

7. Click SUBMIT to apply changes.



Modify Active Directory Configuration					
Name	OmarAAD_mapping				
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd1	.85c1			
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67	025t			
Client Secret					
				SUBMIT	
÷	Us	er Mappings			
•	Security	y Profile Mappings			
*	Recordin	ıg Profile Mappings			
Mapping Name	1		]		
Member Groups	ST-Teams-Users, ST-load-test-dynamio-rer	name, STQATeam	Select Groups		
● One Level ○ Subt	tree				
$\bigcirc$					
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete	
	No re	cords found.			
•	Retention Mappings				

8. Click to add this mapping to SmartTAP 360°.

The new Recording profile is displayed:

• Mapp	ing successfully a	dded.					
Modify Ac	tive Directory Configurat	tion					
	Name	OmarAAD_mappin	gr				
Direct	tory (Tenant) ID	ad41d6c3-67f0-47	cc-9de3-e07fd185c1c7				
Applic	ation (Client) ID	00c65e7a-2064-44	43f-bb24-0de67025bd72				
	Client Secret						
							SUBMIT
•			liser M	appings			
				file Mappings			
+				ofile Mappings			
	Mapping Name						
	Member Groups						
				Select Groups			
۲	One Level 🔿 Subtr	ee					
							( + )
	Mapping Name		Member Groups		Search Scope	Modify Mapping	Delete
0	Test Recordings		ST, ST-Teams-Users, ST-load-test-dynamic-rename		ONE_LEVEL		
0	test video		test4		SUB_TREE		Ē
0	testaudio		rachelsTest		SUB_TREE		<b></b>
0	bbb		racheltest3		ONE_LEVEL		Ē
0	Emergency Respon	se Center	ST-Teams-Users, ST-load-test-dynamic-rename, ST	QATeam	ONE_LEVEL		Ē
0	Call Center Recordi	ngs	ST-Teams-Users, ST-load-test-dynamic-rename, ST	QATeam	ONE_LEVEL		Ē

Figure 33-46: Recording Profile

**9.** Open the View/Modify Recording Profile page to view the new profile mapping and configure it (see Viewing or Modifying Recording Profiles on page 48).

View/Modify Recording Profiles						
Name \$	Description 🗘	Call Recording Type	Video Recording	IM Recording Type	Desktop Sharing Recording	Modify
ST	ST	NONE	Disabled	NONE	Disabled	
test4	test4	NONE	Disabled	NONE	Disabled	
ST-load-test-dynamic-rename	ST-load-test-dynamic-rename	NONE	Disabled	NONE	Disabled	
ST-load-test-dynamic-rename	ST-load-test-dynamic-rename	NONE	Disabled	NONE	Disabled	
Audio	Audio , save on demand , P/R	SAVE_ON_DEMAND	Disabled	NONE	Disabled	
Omar SIPREC		FULL_TIME	Disabled	NONE	Disabled	
Video+DAS+IM		FULL_TIME	Enabled	NONE	Enabled	
Omar AVD Record on demand		SAVE_ON_DEMAND	Enabled	NONE	Enabled	
rachelsTest	rachelsTest	NONE	Disabled	NONE	Disabled	
ST-Teams-Users	ST-Teams-Users	NONE	Disabled	NONE	Disabled	
Omar Save on demand	Saves the entire call	SAVE_ON_DEMAND	Enabled	NONE	Enabled	
racheltest3	racheltest3	NONE	Disabled	NONE	Disabled	
ST-Teams-Users	ST-Teams-Users	NONE	Disabled	NONE	Disabled	
Omar FULL Notification	Disable NOT	FULL_TIME	Disabled	NONE	Disabled	
STQATeam	STQATeam	NONE	Disabled	NONE	Disabled	
Full Time	Full Time recording profile	FULL_TIME	Disabled	NONE	Disabled	
		100 💙 🖂 📢 🚺	▶> ▶1 (1 of 1)			



By default, the newly created recording profiles are mapped with all options disabled as shown in figure "Default Recording Profile" below.

		ingui	c 33 40. Delau	it it is the second ing it is	UIII	C		
Call Recording Typ Video Desktop S Pause or F	Sharing		•					
Call type								
	FT Teams, Skype fo	r Business and	Lync A/V Recording					
	_		_					
Internal PSTN		) Incoming ) Inbound	Outgoin					
Federated		) Inbound	Outbour					
Calls wit	th Internal Confe	rences						
Teams 0	ueue Calls (coni	ference mod	a) *					
	r MSFT Teams only		-,					
Filter Calls Use Filter Calls Use	er Makes :	List Type : A				Regular Expression:		
Announcements Applicable for Sky		d Lync A/V Rec	ording. Announcement Server is	required to be installed				
Call type								
Internal	Incoming	ANN 🗸	Play to calling party	File name		Play to answering party	File name	
	Outgoing	ANN 🗸	Play to calling party	File name		Play to answering party	File name	
PSTN	Inbound	ANN 🗸	Play to calling party	File name		Play to answering party	File name	
	Outbound	ANN 🗸	Play to calling party	File name		Play to answering party	File name	
Federated	Inbound	ANN V	<ul> <li>Play to calling party</li> <li>Play to calling party</li> </ul>	File name File name		Play to answering party	File name	$ \rightarrow $
		AININ	Play to calling party			Play to answering party	File fidfile	
Record Ann	nouncement							
Don't Play Ann	ouncement Dest	ination Num	bers : 911					
Block Calls	on Announceme	ents Unavaila	blity					
Diver Galis	2. Announceme	onoralle	,					
Recording Beep		d Lync A/V Rec	ording. Beep can be played on t	he calls which media traverses №	ledia P	'oxy Server		
_		a ayna ey e neu	and a seep can be projed on t		- Januar Pri			
Play Beep	ione							
Instant Messagi	ing							
Applicable for MSF	FT Teams, Skype for	r Business and	Lync A/V Recording					
Record Ins	stant Messages							

Figure 33-48: Default Recording Profile

# **AAD Security Profile Mapping**

This section describes how to map AAD Security profiles. The profile should be mapped to one or more of the member groups that you mapped in AAD User and Group Mapping on page 372 and therefore users assigned to these groups are associated with the new Security profile.



A user can be assigned to multiple Security profiles in which case permissions from all profiles are added.

### > To map AAD Security profiles:

Configuration on page 340 and then click

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

Figure 33-49: Active Directory Providers Page

Active Directory Providers				
Name 🗘	Organization (Tenant) Id 🗘	Application (Client) Id	Modify	Delete
OmarAAD_mapping	ad41d6c3-67f0-47cc-9de3- e07fd185c1c7	00c65e7a-2064-443f- bb24-0de67025bd72		

2. Select the provider entry that you configured in Verify Active Directory Providers

Modify Active Directory Configuration Name OmarAAD\_mapping Directory (Tenant) ID ad41d6c3-67f0-47cc-9de3-e07fd185c Application (Client) ID 00c65e7a-2064-443f-bb24-0de67025 **Client Secret** SUBMIT User Mappings Mapping Name omarAAD Member Groups ST\_Test\_Group, 2E5\_users Select Groups First Name givenName  $\sim$ Last Name surname  $\sim$ Login userPrincipalName  $\sim$ Email mail  $\sim$ Alias surname  $\sim$ OID id  $\sim$ ○ One Level Subtree Add Groups SUBMIT CANCEL Search Scope Modify Mapping Delete Mapping Name Member Groups omarAAD ST\_Test\_Group, 2E5\_users SUB\_TREE C Ŵ Security Profile Mappings **Recording Profile Mappings** Retention Mappings

### Figure 33-50: Modify Active Directory Configuration

3. Select the Security Profile Mapping tab.

Figure 33-51: Active Directory Security Profile Mapping					
Add Active Directory Configuration					
Name					
Directory (Tenant) ID					
Application (Client) ID admin					
Client Secret					
				SUBMIT	
•	l	Jser Mappings			
▼	Securi	ty Profile Mappings			
Mapping Name					
Member Groups		Select	Groups		
● One Level ○ Subtree					
				( )	
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete	
	No records found.				
•	Recording Profile Mappings				
•	Ret	ention Mappings			

- 4. In the Mapping Name field, enter a name for the Security Profile.
- 5. Select one of the following:
  - One Level: SmartTAP maps the user to the highest Active Directory object level (root group)
  - Subtree: SmartTAP maps only the root group and assignsto it, the users from the root group and subgroups.
- 6. Click the **Select Groups** button to browse to the relevant group.

# Figure 33-52: Select Group

Select Member Groups	
Searched Groups	st
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6]</li> <li>✓ ST-Teams-Users [9e870e1f-0c70-48d7-98]</li> <li>✓ ST-load-test-dynamic-rename [5e7ce8d2-4886-80f3-49314e2beb60]</li> </ul>	da-1868886c024e]
STQATeam [29f34319-2230-4871-9020-de	683d8a1ef2a] 🗸
Selected Groups	

7. Use the arrow buttons to assign the relevant groups.

Figure	33-53:	Select	Member	Groups
--------	--------	--------	--------	--------

Select Member Groups	
Searched Groups	st
ST_Test_Group [845e4dd8-78aa-49cd-bc         STloadUsers [380fac00-b5ed-41ae-b180         st-compliance-michal [cbc58572-7d1f-40         st-subgroup1-test-rename [14a05d00-7]	-a3421fd701f9] 9f-bc7d-525a9718e299]
~ ^	•
Selected Groups	
ST [104b2b0c-d1a7-46b2-a6ca-958b17b         ST-Teams-Users [9e870e1f-0c70-48d7-9         ST-load-test-dynamic-rename [5e7ce8d2         STQATeam [29f34319-2230-4871-9020-0	- 8da-1868886c024e] 2-412a-4886-80f3-49314e2beb60]



The maximum number of search results is limited to "10".

- Click **№** to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.

Figure 33-54: Remove Member Group Asssignmen	It
--	----

Select Member Groups	
Searched Groups	st
ST [104b2b0c-d1a7-46b2-a6ca-958b17b6]         ST_Test_Group [845e4dd8-78aa-49cd-bd4]         STloadUsers [380fac00-b5ed-41ae-b180-a         st-compliance-michal [cbc58572-7d1f-409f	4-fbeb622ce809] a3421fd701f9] f-bc7d-525a9718e299]
~ ^	
Selected Groups	
<ul> <li>ST-Teams-Users [9e870e1f-0c70-48d7-986</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-4</li> <li>STQATeam [29f34319-2230-4871-9020-de</li> </ul>	- 412a-4886-80f3-49314e2beb60]
	CANCEL SUBMIT

8. Click SUBMIT

# to apply changes



Modify Active Directory Configuration	i			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd1	85c1		
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67	025t		
Client Secret				
				SUBMIT
- F	Us	er Mappings		
*	Security	/ Profile Mappings		
Mapping Name				
Member Groups	ST-Teams-Users, ST-Ioad-test-dynamic-rer	ame, STQATeam	Select Groups	
One Level O Subtra	ee			
				$\bigcirc$
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
	No re	cords found.		
- F	Recordin	g Profile Mappings		
Retention Mappings				

9. Click to add this mapping to SmartTAP 360°.

The new Security profile mapping is displayed.

Figure 33-56: Security Profile Mapping

# Figure 33-57:

	Mapping Name Member Groups	Select Grou	ps			
0	One Level 🔘 Subtree					
						( <del>)</del>
	Mapping Name	Member Groups		Search Scope	Modify Mapping	Delete

**10.** Open the View/Modify Security Profile page to view the new profile mapping and configure it (see Configure Permissions in a Security Profile on page 37).

Figure 33-58:	View/Modify	/ Security	/ Profile
---------------	-------------	------------	-----------

View/Modify Security Profiles				
Name	Description	Permissions	Modify	Delete
Live Monitor		Access user's own calls Live Monitor		
STQATeam	SmartTAP QA Team			
ST-load-test-dynamic-rename	ST-load-test-dynamic		ø	
admin		Configure system		Ī
supervisor	Supervisor	Email Media Related to a call Play Media Related to a call Live Monitor Access calls within user's groups Download Media Related to a call Tag calls		ā
ST-Teams-Users				
agent	Agent	Email Media Related to a call Access user's own calls Play Media Related to a call Download Media Related to a call Tag calls		đ



By default, the security profiles are mapped with all permissions disabled (see figure "Default Security Profile" below).

#### Figure 33-59: Default Security Profile

Modify Security Profile	
Security Profile Name	st-subgroup1-test
Security Profile Description	st-subgroup1-test
Call and Instant Message Permissions	
No Call or Instant Message Access	Play Media Related to a call
O Access all calls and instant messages	Download Media Related to a call
O Access calls and instant messages within user's gro	Dups Email Media Related to a call
O Access user's own calls and instant messages	Tag calls
	Live Monitor
	ROD/SOD other users
Configure system	
Create and modify users and groups	

## AAD User and Group Mapping

SmartTAP 360° allows mapping of AAD user from one or more member groups. Each group and it's subgroups are checked recursively to retrieve AAD users. For each group you can assign mapping profiles that map regular Active Directory user attributes as well as SmartTAP 360° custom user attributes. In this step, you must assign the custom user attribute that was defined in Adding a Microsoft Teams AAD User Attribute on page 92 for mapping the Teams users object ID. This attribute is assigned to the user mapping profile that is then attached to an AAD group. All users that are attached to this group inherit the attributes that are defined in the mapping profile. Once the Users and Groups have been added, they can be viewed in the View/Modify Users page (Users >User Management > View/Modify Users) and View/Modify Groups page (Users > Group Management > View/Modify Groups).

- Changing the group in Azure i.e. member, name and description will automatically be updated to SmartTAP.
  - AudioCodes Azure Active Directory Groups cannot be edited or removed in SmartTAP, only directly from Azure.

#### > Do the following:

- 1. Ensure that you mapped the user attribute Object\_ID for the Microsoft Teams user(see Adding a Microsoft Teams AAD User Attribute on page 92).
- 2. Open the Add AAD Config page (System tab> AAD folder> Add AAD Config).

System	Users	Status		
Calls	Messages		<	
MONITORI	NG		$\sim$	
ALARMS			$\sim$	
CALL TAGO	SING		$\sim$	
CERTIFICA	CERTIFICATES			
RETENTION	RETENTION			
EMAIL	EMAIL			
MEDIA			$\sim$	
WEB			$\sim$	
LDAP			$\sim$	
AAD			$\sim$	
	onfiguration y AAD Config			

# Figure 33-60: Add Active Directory Configuration



Active Directory Providers				
Name \$	Organization (Tenant) Id	\$ Application (Client) Id	\$ Modify	Delete
ST AAD Config	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	c3ccba42-16ef-4b28-bf82-dcba37b91b43		1

3. Select the provider entry that you configured in Verify Active Directory Providers

Configuration on page 340 and then click

		1 9	-
Modify Active Directory Configura	ition		
News			
Name	OmarAAD_mapping		
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	5c	
Application (Client) ID	00c65e7a-2064-443f-bb24-0de670	25	
Client Secret			
			SUBMIT
<b>.</b>	User Ma	ppings	
Mapping Name	omarAAD		
Member Groups	ST_Test_Group, 2E5_users		Select Groups
First Name	givenName	$\sim$	
Last Name	surname	~	
Login	userPrincipalName	~	
Email	mail		
		~	
Alias	surname	~	
OID	id	~	
🔿 One Level 💿 Subtr	ree		
Add Groups			
			CANCEL
Mapping Name	Member Groups	Search Scope	Modify Mapping Delete
omarAAD	ST_Test_Group, 2E5_users	SUB_TREE	
•	Security Prof	ile Mappings	
•	Recording Pro	file Mappings	
•	Retention	Mappings	

Figure 33-62: Modify Active Directory Configuration

- **4.** In the "User Mappings" section the standard Active Directory attributes and the custom attributes are displayed:
  - (optional) Assign the regular Active Directory attributes as required.
  - Map the Custom User attribute that you added in Step 1 to the 'id' attribute. In the example in the figure above, the custom attribute is named 'OID' (this may be any user-defined string).



Select the One Level to map the users from to the highest Active Directory object level.
 Select Subtree to map the users from to all of the subtree objects in the Active Directory:

- **One Level:** SmartTAP maps the user to the highest Active Directory object level (root group)
- **Subtree:** SmartTAP maps only the root group and assigns to it, the users from the root group and subgroups.
- 6. To map member groups to which users are mapped, select Add Groups. If the Subtree option is selected above, then all groups belonging to the Subtree are also mapped.

Select Member Groups	
Searched Groups	
Selected Groups	
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-fbeb622ce809]</li> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]</li> <li>SmartTapAgents [070ecda5-dbd2-4ef4-9c67-9b64e881422f]</li> </ul>	
	CANCEL SUBMIT

# Figure 33-63: Select Member Groups

Selected groups are displayed comma-separated in the Member Groups file.

You can search for groups via the group's prefix. After typing a search text string, the results are displayed in the 'Search Groups' section.

Figure 33-64: Select Member Groups

Select Member Groups	
Searched Groups	st
<ul> <li>ST-load-test-dynamic [5e7ce8d2-412a-4886-8]</li> <li>st-compliance-michal [cbc58572-7d1f-409f-bc7]</li> <li>st-load [d45d9937-86fc-432a-90dc-35bdb948e]</li> <li>st-test-subgroup [e04846ea-1f3c-4808-9a61-5]</li> </ul>	7d-525a9718e299] 222c]
Selected Groups	0
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-fb</li> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133</li> <li>SmartTapAgents [070ecda5-dbd2-4ef4-9c67-9</li> </ul>	3]
	CANCEL SUBMIT

- Click ₩ to move selected groups from the 'Search Groups' section to the 'Selected Groups' section.
- Click to remove selected groups from the 'Selected Groups' section, and in case the search results should contain those groups, they are moved back to the 'Search Groups' section.



The maximum number of search results is limited to "10".

- 7. Click SUBMIT to apply the changes.
- Click to add this mapping to SmartTAP 360°.

# Figure 33-65: Member Groups

•		User Mappings				
	Mapping Name	ST AAD Users	]	_		
	Member Groups	ST_Test_Group, SmartTapAgents	Select Groups	]		
	First Name	givenName v		-		
	Last Name	surname v				
	Login	userPrincipalName v				
	Email	mail				
	Alias	mailNickname v				
	Object ID	id v				
					Œ	
	Mapping Name	Member Groups		Modify Mapping	Delete	
	No records found.					

Successful user mapping is displayed under the User Mapping table.

Figure	33-66:	Mapping	Successfully	/ Added
--------	--------	---------	--------------	---------

Mapping successfully added.						
Modify Active Directory Configura	ation					
Name	ST AAD Config					
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c					
Application (Client) ID	c3ccba42-16ef-4b28-bf82-dcba37b91					
Client Secret						
					SUBMIT	
-		User Ma	ppings			
Mapping Name						
Member Groups			Select Groups			
First Name	Choose One	$\sim$				
Last Name	Choose One	~				
Login	Choose One	$\checkmark$				
Email	Choose One	~				
Alias	Choose One	$\checkmark$				
Object ID	Choose One	$\sim$				
					Ð	
Mapping Name	Member Grou	ps		Modify Mapping	Delete	
ST AAD Users	ST_Test_Group	. SmartTapAgents			Ē	

 Open the View/Modify Users page (Users > View/Modify Users page) (see View and Modify Users on page 85).

### Figure 33-67: Mapped Users

View/Modify Users						
<						
First Name	Email 🗘	Login ID 🗘	Alias 🗘	Object ID 🗘	Modify	Delete
TeamsTestUser4-E5	TeamsTestUser4-E5@ai-logix.net	TeamsTestUser4-E5@ai-logix.net		3b47f7f8-bd88-4cd7-a963-5c24a0f0cd03		
ST-Teams20	ST- Teams20@SmartTAP.onmicrosoft.com	ST- Teams20@SmartTAP.onmicrosoft.com		f0ef13b3-b9e7-428d-97c2-4d80692080b4		
ST-Teams32	ST- Teams32@smarttap.onmicrosoft.com	ST- Teams32@smarttap.onmicrosoft.com		23030c8b-81de-4cfe-95c9-a8f33b2f0e12		
ST-Teams24	ST- Teams24@smarttap.onmicrosoft.com	ST- Teams24@smarttap.onmicrosoft.com		3d811607-c0c0-471d-8ab8-8766102a3366		
ST-Teams23	ST- Teams23@smarttap.onmicrosoft.com	ST- Teams23@smarttap.onmicrosoft.com		85291d87-392e-4415-b453-4219ac8330e1		

**10.** When the "Add Groups" check box is selected, Mapped Groups can be viewed in the Groups page (see View and Modify Recording Groups on page 32).

#### Figure 33-68: Mapped Groups

View/Modity Groups						
Name	Description	Modify	Delete			
Default	Default group		ā			
rachels						
rachels test video						
rachelsTest	testingAAD					
racheltest3						
test4						

# Setup Microsoft 365 User Sign-in Authentication

For SmartTAP 360° version 5.1 and later, users can be mapped from Organizations' (Tenant) Azure Active Directory (AAD) and authenticated with SmartTAP Web using their Microsoft 365 login credentials. SmartTAP 360° uses the OpenID Connect Authorization Code Flow) to authenticate users with Microsoft Identity Platform. The "login-app" registration created by the Deployment script is used to manage the Microsoft 365 User Sign-in authentication.

- This feature supports logging in to the SmartTAP Web for users from a **single** organizational tenant as an alternative to local user authentication.
- Ensure that the login-app includes a Client Secret which is required for accessing Azure Blob storage statistics.
- Except for the assigning of a Security profile to the M365 user, this setup is performed automatically by the SmartTAP for Microsoft Teams deployment script.

This section includes the following procedures:

- View the login-app API permissions (see Verify login-app Permissions on page 381).
- View OIDC Client User Login Authentication (see View OIDC Client User Login on page 398).
- Assign Security Profile to Azure Active Directory user in SmartTAP 360° (see Assign Security Profile to M365 User on page 386).

#### **Configure Client Secret for login-app**

A client secret must be configured for the login-app ?.

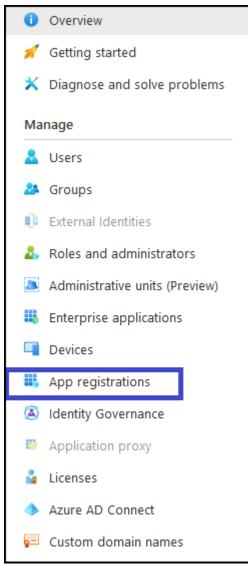
- To configure a client secret:
- 1. Login to Azure portal (<u>https://portal.azure.com/</u>)
- 2. Access Azure Active Directory Service.

#### Figure 33-69: Azure Services



3. In the Navigation pane, click **App Registration** link.

Figure 33-70: App Registrations



In the Navigation pane, open the Certificates & Secrets page (Manage > Certificate & Secrets).

### Figure 33-71: Certificates & Secrets

AADAppClient   Cer	rtificates & secrets 🛛 🖈		
Search (Ctrl+/)     «      Overview		to identify themselves to the authentication service recommend using a certificate (instead of a client	when receiving tokens at a web addressable location (using an HTTPS secret) as a credential.
<ul> <li>Quickstart</li> <li>Integration assistant (preview)</li> </ul>	Certificates Certificates can be used as secrets to prove	the application's identity when requesting a token.	Also can be referred to as public keys.
Manage			
🔤 Branding	Thumbprint	Start date	Expires
Authentication	No certificates have been added for this app	plication.	
📍 Certificates & secrets			
III Token configuration			
API permissions	Client secrets		
<ul> <li>Expose an API</li> </ul>	A secret string that the application uses to p	prove its identity when requesting a token. Also can	be referred to as application password.
Owners	+ New client secret		
Roles and administrators (Previe	Description	Expires	Value
🔟 Manifest	No client secrets have been created for this	application.	
Support + Troubleshooting			
Troubleshooting			
2 New support request			

5. Click + New client secret link.

Figure 33-72: Add a client secret				
Add a client secret		×		
Description	Enter a description for this client secret			
Expires	Recommended: 6 months	^		
	Recommended: 6 months			
	3 months			
	12 months			
	18 months			
	24 months			
	Custom			

6. Enter a "Description", select "Expires" time and click Add.

The New Client Secret must be generated before the expiration time and set in SmartTAP to avoid possible issues that may arise with the recording service. Note the new client secret as it must be later configured.

A client secret is generated and displayed as below.

#### Figure 33-73: Client Secret

Client secrets							
A secret string that the application uses to prove its identity when reque	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.						
+ New client secret							
Description	Expires	Value					
OIDC Auth Client Secret	7/2/2021	.l.s8d76uf.fl5ZA18qNqd.44kdyVHryhy	D İ				

 Copy the Value of the client secret for later configuration in the SmartTAP Web (see View OIDC Client User Login on page 398).

# **Verify login-app Permissions**

This step describes how to verify the login-app permissions are correctly set.

### **To check API permissions:**

1. Open the API Permissions screen (Manage > API permissions).

# Figure 33-74: API permissions

Overview
🤲 Quickstart
💉 Integration assistant (preview)
Manage
🔤 Branding
Authentication
📍 Certificates & secrets
Token configuration
API permissions
🙆 Expose an API
Owners
Roles and administrators (Previe
11 Manifest
Support + Troubleshooting
Troubleshooting
New support request

### Figure 33-75: Configured Permissions

🕐 Refresh			
Configured permissions Applications are authorized to cal include all the permissions the app			/admins as part of the consent process. The list of configured permissions should d consent
+ Add a permission	Grant admin cons	ent for Nuera Ltd.	
API / Permissions name	Туре	Description	Admin consent req Status
∽ Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	
Refresh Configured permissions Applications are authorized to cal include all the permissions the app     Add a permission     API / Permissions name	plication needs. <u>Lea</u> Grant admin cons		/admins as part of the consent process. The list of configured permissions should d consent Admin consent req Status
API / Permissions name	Туре	Description	Admin consent req Status
✓ Microsoft Graph (1)			

- 2. Verify that the 'User.Read' permission is displayed.
- 3. Verify that allow user consent for apps is selected. Navigate to Azure Ad ->Enterprise applications.

Figure 33-76:	Enterprise	Applications	
---------------	------------	--------------	--

Home >	Home >							
AudioCodes Ltd.   Overview     Azure Active Directory								
	«	🐵 Switch tenant 📋 Delete tenant 🕂 C	ireate a tenant 🛛 🗹 What's new 🛛 🐱 Preview features 🛛 🛇 Got feedback?					
<ol> <li>Over</li> </ol>	rview							
💅 Getti	ing started							
💀 Previ	iew hub	Azure Active Directory can help you enable i	remote work for your employees and partners. Learn more					
	X Diagnose and solve problems AudioCodes Ltd.							
Manage		Search your tenant						
🙎 User	rs							
🚑 Grou	ups	Tenant information	Azure AD Connect					
🏮 Exter	rnal Identities	Your role	Status					
🕹 Role	s and administrators	Global administrator and 7 other roles More info	Enabled					
🚨 Adm	inistrative units	License	Last sync					
👪 Enter	rprise applications	Azure AD Premium P1	Less than 1 hour ago					
🔲 Devi	ices	Tenant ID						
👪 Арр	registrations	ad41d6c3-67f0-47cc-9de3-e07fd 🖺						
🙆 Iden	tity Governance	Primary domain ai-logix.net						
🚯 Appl	lication proxy							
🔓 Licer	nses	Sign-ins						
🔶 Azur	re AD Connect	2,000						
🔁 Cust	om domain names	1,500 1,000						
Ø Mob	ility (MDM and MAM)	500						
📍 Passi	word reset	November	Nov 8					
Com	apany branding	<sup>syn iw</sup> 123						
🐯 User	settings	1125						
Prop	perties	Conto						

4. Navigate to Consent and Permissions.

	Figure 33-77:	
Home >		
Enterprise applicat     AudioCodes - SQA LIVE - Azure Active I		×
X Diagnose and solve problems	+ New application   R Got feedback?	
Manage	Overview Tutorials	
All applications		
Application proxy	Şearch your tenant	
User settings	Basic information	
App launchers	Total applicatio 606 Enabled apps 527	
Security		
Conditional Access		
Consent and permissions	Microsoft appli 541 Hidden apps 9	
Activity	My feed	
Sign-in logs		
🕍 Usage & insights	Image: Conditional Access     I	
Audit logs	Control user access based on Contantional Access policy to bring signals together, to make decisions, and enforce organizational policies.	
Provisioning logs	una cinore organizationia ponees	
8 Access reviews	Quick actions	
Admin consent requests	Quick actions	
👶 Bulk operation results		
Troubleshooting + Support	Add enterprise Add on-premises Add application Add access	
New support request	application app registration review	

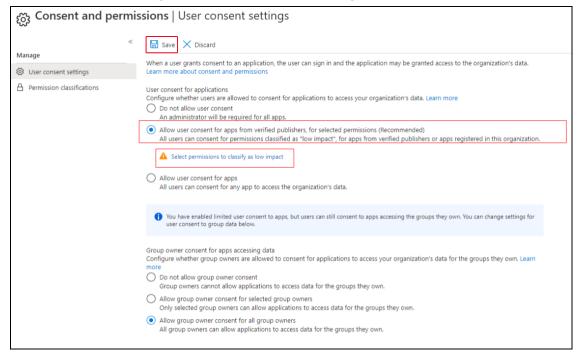
5. By default, the third option (Allow user consent for apps) is chosen, and it's the one used by SmartTap by default.

	« 🔚 Save 🗙 Discard
anage User consent settings	When a user grants consent to an application, the user can sign in and the application may be granted access to the organization's data. Learn more about consent and permissions
Permission classifications	User consent for applications Configure whether users are allowed to consent for applications to access your organization's data. Learn more O Do not allow user consent An administrator will be required for all apps.
	Allow user consent for apps from verified publishers, for selected permissions (Recommended) All users can consent for permissions classified as "low impact", for apps from verified publishers or apps registered in this organization.
	<ul> <li>Allow user consent for apps All users can consent for any app to access the organization's data.</li> </ul>
	With your current user settings, all users can allow applications to access your organization's data on their behalf. Learn more about the risks Microsoft recommends allowing user consent only for verified app publishers or apps from your organization, for permissions you classify as "low impact". Learn more
	Group owner consent for apps accessing data Configure whether group owners are allowed to consent for applications to access your organization's data for the groups they own. Learn more O Do not allow group owner consent Group owners cannot allow applications to access data for the groups they own.
	<ul> <li>Allow group owner consent for selected group owners</li> <li>Only selected group owners can allow applications to access data for the groups they own.</li> </ul>
	Allow group owner consent for all group owners All group owners can allow applications to access data for the groups they own.

### Figure 33-78: User Consent Settings

The option **Allow user consent for apps from verified publishers** is also supported with the following configuration:

#### Figure 33-79: User Consent Settings



6. Click Save and then Select permissions to classify as low impact.

#### Figure 33-80: Permission Classifications

Consent and permissions   Permission classifications								
«	Add permissions							
Manage								
🔅 User consent settings	Classify permissions							
A Permission classifications	Choose which permissions are classified as "low risk". Learn more							
_	API used	Permissions	Description					
		The following permissions are the mos risk access. Get started managing cons these delegated permissions with only User.Read - sign in and read user						

7. Check the openid-sign users in option and Yes, add selected permissions.

«	+ Add permissions						
Manage							
User consent settings	Classify permissions						
A Permission classifications	Choose which permissions are classified as "low risk". Learn more						
	API used	Permissions	Description				
		The following permissions are the risk access. Get started managing these delegated permissions with User.Read - sign in and read	user profile ess to data that users have given it access to ofile rress				

#### Figure 33-81: Add Permissions--Openid

#### **View OIDC Client User Login**

OpenID Connect Login (OIDC) Client Configuration is used for configuration of the login-app. This app is used for the SmartTAP application for Microsoft 365 User Sign-in and for logging into SmartTAP using the Teams Personal app utilizing Microsoft Open ID Connect (Oauth 2). The app enables SmartTAP to reroute users accessing the SmartTAP application either from a browser or from the SmartTAP's Teams application to be authenticated according to your organizational M365 policy.

The OpenID Connect Login (OIDC)configuration is created **automatically** by the Deployment script. For more information on OIDC, refer to <u>https://docs.microsoft.com/en-</u> <u>us/azure/active-</u> <u>directory/develop/v2-</u> <u>oauth2-</u> <u>client-</u> <u>creds-grant-flow</u>.

#### **To view the OpenID Connect OIDC Client:**

 In the SmartTap Web interface, open the Add/Modify OpenID Connect Login (OIDC) Client Configuration page (System tab > Web folder > OpenID Connect Login).

### Figure 33-82: OpenID Connect

Ad	d/Modify OpenID Connect Login (OIDC) Client Configuration	
Γ	Add/Modify OpenID Connect Login (OIDC) Client Configuration	
	Directory (Tenant) ID ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	
	Hosted (Tenant) ID	
	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	
	Application (Client) ID 663786d3-823b-4dac-8666-f5906886cda1	
	Client Secret	
	•••••	
	Redirect URI https://omr561terpckst.ai-logix.net/smarttap/status/	
	SUBMIT	

The OIDC Client Web Application registration (login-app) includes the following customer tenant credentials:

- Directory (Tenant) ID
- Hosted (Tenant) ID
- Application (Client) ID
- Client Secret
- Redirect URI

## Assign Security Profile to M365 User

This step describes how to assign M365 user to "agent" security profile in SmartTAP 360°.

## > To assign a security profile:

- 1. Login to SmartTAP 360° with a user that has "userAdmin" permissions.
- 2. Open the View/Modify Users page (Users tab > User Management > View/Modify Users).

## Figure 33-83: View/Modify Users

View/Modify Users						
<b></b>						
First Name \$	Last Name 🗘	Email \$	Login ID 🗘	Alias	Modify	Delete
Deb	Dutta		debajvotid@smarttap.onmicrosoft.com			
Deb	Dutta					
		20 🗸 📧 🛪 1	▶> ▶ (1 of 1)			

**3.** Assign "agent" security profile and then click **SUBMIT**. A confirmation message is displayed:

Modify User       Einst Name       Deb       Last Name       Dutta         Email       Login ID       debajyotid@smarttap.on         Attice       Retention       Refeat
Email Login ID debajyotid@smarttap.on
Retention
Allas Policy Default V
Recording Profile         None         Legal Hold         OFF
Security Profiles Groups
administrator agent supervisor Default TEST_G_1

# Figure 33-84: User Successfully Updated

- 4. Login to SmartTAP 360° using Microsoft Login Credentials.
  - On the SmartTAP 360° login page, click **Sign In With Microsoft 365**.

Figure 33-85: Microsoft Sign in

Login Id
admin
Password •••••
Log in
 Or
Sign In With Microsoft 365

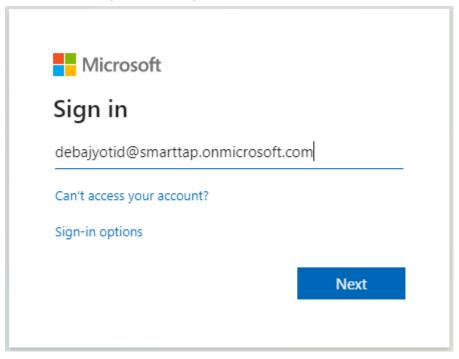
The user is redirected to Microsoft MFC Login page:



Microsoft	
Sign in	
Email, phone, or Skype	
Can't access your account?	
Sign-in options	
	Next

• Enter the Microsoft credentials

# Figure 33-87: Sign In



• Allow permission to the client app to use user authentication data.

# Figure 33-88: Permissions Requested

Microsoft								
debajyotid@smarttap.onmicrosoft.com								
Permissions requested								
OIDCAuthClient ai-logix.net								
This application is not published by Microsoft.								
This app would like to:								
✓ Maintain access to data you have given it access to								
✓ View your basic profile								
Accepting these permissi your data as specified in statement. You can chang https://myapps.microsoft	their terms of service ge these permissions	and privacy						
	Cancel	Accept						

The user is re-directed to SmartTAP 360° URI configured in AAD (see Configure Client Secret for login-app on page 378 i.e. <u>http://localhost/SmartTAP 360°/status/target\_status.jsf</u>

# Figure 33-89: User Device Status

$\leftrightarrow$ $\rightarrow$ C	() loca	alhost/smai	rttap/stat	us/target_status.jsf	?code=O/	QABAAIAA	AAAGV_bv21oQQ4ROqh0_1-tAhUpx-AwU-KZNKnvrqwowDvEtdkdNXmX1kFlxXXOIRar-0eFpOnb2qryDsgOpmhCqKB_x_CFgQHrTT96n608D	☆	1 +	*	Θ
<b>C</b> au	dioco	des	sma	rt <b>TAP</b> 360°	<b>^</b>	?	Deb Duta	EN Y	G	•	Voice.AI
Users	Status	Calls		User/Device Status							
Messages			<								
				No records found.							
							(1 of 1) (4 (4 (5) (5) (12 V				
							Last updated: Sun Jul 05 00:53:26 EDT 2020				

5. An Azure Active Directory user logs off from SmartTAP Web.

# Figure 33-90: Logout

Caudiocodes	sm	art <b>TAP</b> 360°	Â	?		Deb Dutta	EN 🗸	G	٧o
Users Status Cal	Is	User/Device Status							
lessages	<								≣
		No records found.							

6. User is prompted to select the Microsoft account that needs to be signed out.

#### Figure 33-91: Pick an Account



7. When the account is selected, the user is redirected to the SmartTAP 360° log off page.

Figure 33-92: SmartTAP 360° LogOff Page

$\leftrightarrow$ $\rightarrow$ C () localhost/small	rttap/loggedOffjsf	x 🔏 + 🛪	Θ:
<b>C</b> audiocodes	smart <b>TAP</b> 360°		Voice.AI
	You are successfully logged off.		
	Log In		

# Integrate SmartTAP Personal App in Teams

SmartTAP for Teams can be added as a Personal App in Microsoft Teams with the main tab/page including On-demand buttons and an additional tab for accessing the full application.

- The Application server supports logging in from a Teams desktop client and from a Teams mobile clients, however does not support logging in from a Teams Web Client.
- SmartTAP Teams personal app must be able to successfully connect to the SmartTAP Server on TCP: 443 port. If the SmartTAP Server is deployed in the customer environment (Azure cloud or On-premises) either the Teams client hosting the app must be running on a machine that can connect to the SmartTAP Server or a global inbound rule must be defined in the firewall to allow access to SmartTAP Server on TCP: 443 port.
- Global administrator role in Azure is required to perform the above procedures.
- Except for the loading the manifest file to Customer Teams admin center (see Configure and Load Manifest (Personal App) on page 399, this setup is performed automatically by the SmartTAP for Microsoft Teams deployment script. The script uses the login-app registration (also used for Microsoft 365 Sign-in to apply Open ID Connect (Oauth 2) authentication (see View OIDC Client User Login on page 398). If you wish to use a separate

registration, create as described in Create and Register the SmartTAP Personal App below. For both scenarios, ensure that a client secret has been configured for the registration.

# **Create and Register the SmartTAP Personal App**

This procedure describes how to create and register the SmartTAP Personal App. The same registration can be used for SmartTAP Web login authentication of the Microsoft 365 user and the Personal App user.

## > To register the Personal app:

- **1.** Go to Azure portal > **Azure Active Directory** > **App Registrations**.
- 2. Do one of the following:
  - Create a new App registration (proceed to next step).
  - Select the registration app that was created for login-app. In this case, ensure that you
    have configured a client secret and proceed to Set Microsoft API Permissions for
    Personal App on page 394.

Microsoft Azure		${\cal P}$ Search resources, services, and docs (G+/)
Home >		
AudioCodes Ltd.   C     Azure Active Directory     «		Create a tenant - 더입 What's new - 🐱 Preview features - 🛇 Got feedback?
Overview		Create a tenant 🕐 what's new 🛛 🐯 Preview reatures 🔷 Got reedback?
Getting started     Preview hub     Jiagnose and solve problems		e remote work for your employees and partners. Learn more
Manage	AudioCodes Ltd.	
🚨 Users		
🚑 Groups	Tenant information	💝 Azure AD Connect
<ul> <li>External Identities</li> <li>Roles and administrators</li> <li>Administrative units</li> <li>Enterprise applications</li> <li>Devices</li> <li>App registrations</li> <li>Identity Governance</li> <li>Application proxy</li> <li>Enterprise</li> </ul>	Your role Directory readers and 4 other roles More info License Azure AD Premium P1 Tenant ID ad41d6c3-67f0-47cc-9de3-e07fd	Status Enabled Last sync Less than 1 hour ago
Licenses	Sign-ins	
Azure AD Connect Custom domain names		
Custom domain names Mobility (MDM and MAM)		Only global administrators, security ad

Home > AudioCode	is Ltd. >
Register an	application
* Name	
The user-facing displa	y name for this application (this can be changed later).
ST-Teams-app	$\checkmark$
Supported accourt	it types
Who can use this appl	ication or access this API?
<ul> <li>Accounts in this of</li> </ul>	rganizational directory only (AudioCodes Ltd. only - Single tenant)
Accounts in any o	rganizational directory (Any Azure AD directory - Multitenant)
Accounts in any o	rganizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
O Personal Microsof	ft accounts only
the to the state of the	
Help me choose	
Redirect URI (optio	onal)
	ntication response to this URI after successfully authenticating the user. Providing this now is optional and it can be alue is required for most authentication scenarios.
Web	✓ e.g. https://myapp.com/auth
100 C	
By proceeding, you ag	ree to the Microsoft Platform Policies 🗗
Register	

- **3.** Enter the Application name.
- 4. Select Accounts in this organizational directory only.
- 5. Click Register.
- 6. In the Navigation pane, select **Overview** and save the 'Application (Client) ID' as it needs to be later configured.
- 7. In the Application page Navigation pane, select Certificates & secrets.
- 8. Add a new Client Secret by clicking New client secret.

Home > ST-Teams-app											
💡 ST-Teams-app   Cer	tificates & secrets 👒										
	🛇 Got feedback?										
Uverview Overview	Credentials enable confidential applications to id scheme). For a higher level of assurance, we reco				t a web addressable location (using an HTTPS						
📣 Quickstart	scheme, For a higher level of assorance, we reco	initial using a certi	icate (instead of a client s	ecrety as a credential							
🚀 Integration assistant	assistant Certificates										
Manage	Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.										
🔤 Branding											
Authentication	↑ Upload certificate										
📍 Certificates & secrets	Thumbprint		Start date	Expires	ID						
III Token configuration	No certificates have been added for this applicat	ion.									
API permissions											
🙆 Expose an API											
🚨 App roles   Preview	Client secrets										
K Owners	A secret string that the application uses to prove	its identity when req	uesting a token. Also can	be referred to as applica	tion password.						
Roles and administrators   Preview	+ New client secret										
Manifest											
Support + Troubleshooting	Description	Expires 12/17/2022	Value		ID c6fd6640-bc85-4e96-a1da-872bfaf3b086	D 🗎					
Troubleshooting		IL/II/LULL	30 m c 10 m m m m m m m m m m m m m m m m m m		cologo40-brob-4630-9109-012019130080						
New support request											

# Set Microsoft API Permissions for Personal App

This section describes how to set permissions for the Personal App.

# > To set permissions for the personal app:

1. In the Navigation pane, select Expose an API.



Home > AudioCodes Ltd. >	
関 ST-Teams-app 🖈	
	💼 Delete 🜐 Endpoints 💀 Preview features
Uverview Overview	1 Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →
44 Quickstart	↑ Essentials
🚀 Integration assistant	Display name : ST-Teams-app
Manage	Application (client) ID : 05c4cbde-0cf4-4144-88c5-81aa3c86d49c
Branding	Directory (tenant) ID : ad41d6c3-67f0-47cc-9de3-e07fd185c1c7
Authentication	Object ID : df57c578-499a-471f-a292-b37fdf125f74
Certificates & secrets     Token configuration	Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure A upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more
API permissions     Expose an API     App roles   Preview	Call APIs
Cowners	
<ul> <li>Roles and administrators   Preview</li> <li>Manifest</li> </ul>	× • • •

#### Figure 33-94: Expose an API

15	Overview	Application ID URI							
<b>6</b> 2	Quickstart								
*	Integration assistant	Scopes defined by this API							
Ma	nage	Define custom scopes to restrict access to data and functionality protected by the API. An application that requires access to parts of this API can request that a user or admin consent to one or more of these. Adding a scope here creates only delegated permissions. If you are looking to create application-only scopes, use 'App roles' and define app roles assignable to application							
	Branding								
Э	Authentication	e. Go to App roles.							
1	Certificates & secrets	+ Add a scope							
III	Token configuration	Scopes Who can consent Admin consent display User consent display na State							
÷	API permissions	No scopes have been defined							
۵	Expose an API								
24	App roles   Preview								
172	Owners	Authorized client applications Authorizing a client application indicates that this API trusts the application and users should not be asked to consent when the client calls							
8	Roles and administrators   Preview	this API.							
0	Manifest								
Sup	pport + Troubleshooting	+ Add a client application							
P	Troubleshooting	Client Id Scopes							
2	New support request	No client applications have been authorized							

- 2. Select the Set link to generate the Application ID URI.
- Insert your fully qualified domain name in the following format: api://<fully-qualifieddomain-name.com>/{AppID}

Where

<fully-qualified-domain-name.com> is the FQDN of the SmartTAP Server

#### Example

api://smarttapteamspoc.bot.ai-logix.net/05c4cbde-0cf4-4144-88c5-81aa3c86d49c

- Where {AppID} is the Application [clientID] shown in the figure above.
- Select Add a scope . In the panel that opens, enter access\_as\_user as the Scope name.
- 5. Set Who can consent? to Admins and users.
- 6. Enter the following fields for configuring the admin and user consent prompts with values that are appropriate for the access as user scope:
  - Admin consent title: Teams can access the user's profile.
  - Admin consent description: Allows Teams to call the app's web APIs as the current user.
  - User consent title: Teams can access the user profile and make requests on the user's behalf.
  - User consent description: Enable Teams to call this app's APIs with the same rights as the user.
- 7. Ensure that State is set to Enabled.
- 8. Click Add scope to save changes.

• The domain part of the **Scope name** is displayed just below the text field and should automatically match the **Application ID** URI set in the previous step with /access\_as\_user appended:

#### Example

api://smarttapteamspoc.bot.ai-logix.net/05c4cbde-0cf4-4144-88c5-81aa3c86d49c/access\_as\_user

Figure 33-95: Add a Scope

Add a scope	×
Scope name * ①	
access_as_user	~
api://stteams-certdemo.meetinginsights.net/05c4cbde-0cf4-4144-88c5- 81aa3c86d49c/access_as_user	
Who can consent? (i)	
Admins and users Admins only	
Admin consent display name * 🛈	
Allows Teams to access the Admin user's profile.	~
Admin consent description * 🛈	
Allows Teams to call the apps Web APIs as the currently logged in Admin user in Teams.	~
User consent display name 🕕	
Allows Teams to access the user profile and make requests on the user's behalf.	~
User consent description ①	
Allows Teams to call this apps Web APIs with the same rights as the user.	
State () Enabled Disabled	
Add scope Cancel	

- **9.** In the Authorized client applications section, identify the applications that you want to authorize for your app's Web application.
  - a. Select Add a client application.

- **b.** Enter the following Client ID and select the Authorized scope that you created in the previous step (see selected Check box in the screen below):
  - 1fec8e78-bce4-4aaf-ab1b-5451cc387264 (Teams mobile/desktop application)

```
Figure 33-96: Client ID
```



- 10. In the Navigation pane, select API Permissions, select Add a permission > Microsoft Graph
   > Delegated permissions, and then add the following permissions from the Microsoft
   Graph API:
  - User.Read (enabled by default)
  - email
  - offline\_access
  - OpenId
  - profile

	_							
Home > AudioCodes Ltd. > ST-Teams-	app							
<del></del> ST-Teams-app   API	permissions 🖈							
	🕐 Refresh 🛛 🛇 Got feedback?							
u Overview	🛕 You are editing permission(s) to your application, users will have to consent even if they've already done so previously.							
🗳 Quickstart								
🚀 Integration assistant	Configured permissions							
Manage	Applications are authorized to call AP all the permissions the application ne		granted permissions by users/admins as part of the cons about permissions and consent	sent process. The list of configured permission	s should include			
Branding	+ Add a permission ✓ Grant a	-limin concont for	Audiocadas (ad					
Authentication								
📍 Certificates & secrets	API / Permissions name	Туре	Description	Admin consent req Status				
Token configuration	✓ Microsoft Graph (5)							
API permissions	email	Delegated	View users' email address					
🙆 Expose an API	offline_access	Delegated	Maintain access to data you have given it access to	đ				
App roles   Preview	openid	Delegated	Sign users in	A				
Cowners	profile	Delegated	View users' basic profile					
Roles and administrators   Preview	User.Read	Delegated	Sign in and read user profile	2				
10 Manifest								
Support + Troubleshooting	To view and manage permissions and	user consent, try	/Enterprise applications.					
Troubleshooting								
New support request								

#### Figure 33-97: Delegated Permissions



If the App hasn't been granted admin consent (see **Grant admin consent for AudioCodes Ltd** adjacent to the **add a permission** button), users are prompted to grant consent the first time they use the App.

**11.** In the Navigate pane, select **Authentication**.

#### Figure 33-98: Authentication

	🔄 Save 🔀 Discard 🕴 💙 Got feedback?							
Overview	+ Add a platform							
📣 Quickstart								
💉 Integration assistant	∧ Web Quickstart □	ocs 🗗 📋						
Manage	Redirect URIs							
Branding	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. Also referr reply URLs. Learn more about Redirect URIs and their restrictions r <sup>a</sup>	ed to as						
Authentication	reply UKLS. Learn more about redirect UKIS and their restrictions[2]							
📍 Certificates & secrets	⚠ This app has implicit grant settings enabled. If you are using any of these URIs in a SPA with MSALjs 2.0, you should migrate URIs. →	×						
Token configuration								
<ul> <li>API permissions</li> </ul>	https://stteams-certdemo.meetinginsights.net/smarttap/status/target_status.jsf							
Expose an API	https://stteams-certdemo.meetinginsights.net/smarttap/sso_end_auth.jsf	1						
App roles   Preview	Add URI							
Cowners								
Roles and administrators   Preview	Front-channel logout URL							
Manifest	This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.							
Support + Troubleshooting	e.g. https://myapp.com/logout							
Troubleshooting	Implicit grant and hybrid flows							
New support request	Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. Learn more.							
New support request	doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens.							
New support request	doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. Learn more.							

- **12.** Set a redirect URI:
  - Select Add a platform
  - Select web
- **13.** Enter the redirect URI in the following format: https://<fully-qualified-domainname.com>/smarttap/sso\_end\_auth.jsf

Where <fully-qualified-domain-name.com> is the FQDN of the SmartTAP server **Example:** 

https://smarttapteamspoc.bot.ai-logix.net/smarttap/sso\_end\_auth.jsf

- **14.** Enable implicit grant by selecting the following Check boxes:
  - ID Token
  - Access Token

# View OIDC Client User Login

OpenID Connect Login (OIDC) Client Configuration is used for configuration of the login-app. This app is used for the SmartTAP application for Microsoft 365 User Sign-in and for logging into SmartTAP using the Teams Personal app utilizing Microsoft Open ID Connect (Oauth 2). The app enables SmartTAP to reroute users accessing the SmartTAP application either from a browser or from the SmartTAP's Teams application to be authenticated according to your organizational M365 policy. The OpenID Connect Login (OIDC)configuration is created **automatically** by the Deployment script. For more information on OIDC, refer to <u>https://docs.microsoft.com/en-</u> <u>us/azure/active-</u> <u>directory/develop/v2-</u> <u>oauth2-</u> <u>client-creds-grant-flow</u>.

### **To view the OpenID Connect OIDC Client:**

 In the SmartTap Web interface, open the Add/Modify OpenID Connect Login (OIDC) Client Configuration page (System tab > Web folder > OpenID Connect Login).

#### Figure 33-99: OpenID Connect

Add/Modify OpenID Connect Login (OIDC) Client Configuration	
Add/Modify OpenID Connect Login (OIDC) Client Configuration	
Directory (Tenant) ID	
ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	
Hosted (Tenant) ID	
ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	
Application (Client) ID	
663786d3-823b-4dac-8666-f5906886cda1	
Client Secret	
•••••	
Redirect URI	
https://omr561terpckst.ai-logix.net/smarttap/status/	
	SUBMIT
	CODIMIT

The OIDC Client Web Application registration (login-app) includes the following customer tenant credentials:

- Directory (Tenant) ID
- Hosted (Tenant) ID
- Application (Client) ID
- Client Secret
- Redirect URI

# **Configure and Load Manifest (Personal App)**

This procedure describes how to upload the Manifest file to the customer tenant Teams admin center. The Deployment script uses the login-app for authentication for logging into

#### SmartTAP Web.

For manual setup of the SmartTAP Personal app, see Integrate SmartTAP Personal App in Teams in the SmartTAP Admin GuideIntegrate SmartTAP Personal App in Teams on page 391.

### > To upload the Manifest file:

- Extract the Zip file from the following path ...\TerraSmartX\TerraSmartX\output\_data\xxx\_ app.zip to your deployment platform.
- 2. Upload the Zip file to the Customer App store using the following: https://admin.teams.microsoft.com/dashboard

Example Manifest

```
{"$schema": "https://developer.microsoft.com/en-us/json-
schemas/teams/v1.8/MicrosoftTeams.schema.json", "manifestVersion":
"1.8", "version": "1.0.1", "id": "<bot_app_id>", where <bot_app_id> is a
unique Azure Application ID"packageName":
"\"com.audiocodes.smarttap.tabs", "developer": {"name":
"AudioCodes", "websiteUrl": "https://www.audiocodes.com/solutions-
products/voiceai/meetings-and-recording/smarttap-360", "privacyUrl":
"https://www.audiocodes.com/corporate/privacy-policy", "termsOfUseUrl":
"https://www.audiocodes.com/library/technical-documents?productGroup=1695"
```

```
},"icons": {"color": "color.png","outline": "outline.png"},"name": {"short":
"SmartTAP","full": "Compliance Recording for Teams"},"description":
{"short": "SmartTAP for Teams","full": "SmartTAP 360° Enterprise
Interactions Recording for Microsoft Teams\nAudioCodes SmartTAP 360° is an
intelligent, fully-secured enterprise compliance-recording solution,
allowing companies to capture and index any customer or organizational
interactions across both external and internal communication
channels.\n\nCompanies using Microsoft Teams can seamlessly apply SmartTAP
360° to record all voice, video and IMs interactions for later-stage AI
analysis and for meeting regulatory compliance demands."},"accentColor":
"#F9F9FA","staticTabs": [{"entityId": "RecordOnDemand","name": " MY Active
Calls","contentUrl": "https://smarttapteamspoc.bot.ai-
logix.net/smarttap/status/call_status.jsf",
```

```
"websiteUrl": "https://smarttapteamspoc.bot.ai-
logix.net/smarttap/status/call_status.jsf","scopes": ["personal"]},
{"entityId": "ST","name": "All Calls","contentUrl":
"https://smarttapteamspoc.bot.ai-logix.net/smarttap/welcome.jsf",
```

```
"websiteUrl": "https://smarttapteamspoc.bot.ai-
logix.net/smarttap/welcome.jsf",
```

```
"scopes": ["personal"]}],"permissions":
["identity","messageTeamMembers"],"validDomains": ["smarttapteamspoc.bot.ai-
logix.net",
```

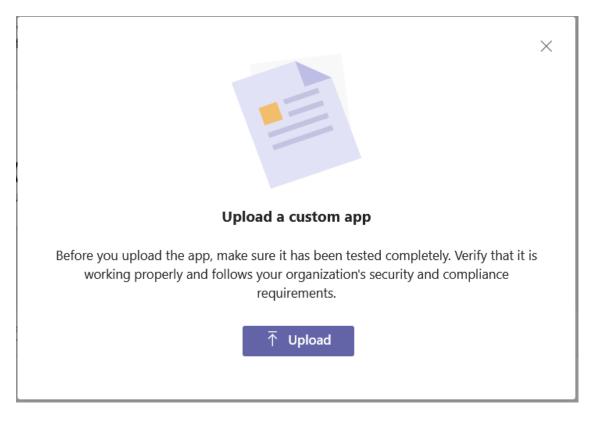
"ai-logix.net"],"webApplicationInfo": {"id": "<app\_id>","resource": "api://smarttapteamspoc.bot.ai-logix.net/<app\_id>"}}

# 3. In the Navigation pane, select **Teams apps** > **Manage apps**.

	Microsoft Teams adm	in center		9 Search - Preview				⊻ ⊠ ⊗		PS
≡		^								^
	Dashboard		Manage apps					Org-wide app setti		
÷ôŝ	Teams	~	Control which apps are available to users in		and blacking and Marriage also.			Org-wide app setu	ngs	
සී	Users	~	approve custom apps. After managing app what apps are available for specific users in	s on this page, you can use app	permission and app setup policie					
٨	Teams devices	~	what apps are available for specific users in	your organizations app store. I	Jean more					
₿	Teams apps	^	n farmel							
	Manage apps		Pending approval	Fea	atured app Calendar BOT	VIEW DETAILS				
	Permission policies		0 0		Kelp your team save time and scheduling meetings.	d effort in				
	Setup policies		Submitted custom apps Updated cust	om apps						
	Customize store									
Ē	Meetings	~	Browse by Everything $ \smallsetminus $							
	Messaging policies		+ Upload 🗸 Allow ⊘ Block		eam   1565 items		Q Search by nam	10	۲	
	Voice	~	✓ Name Î	Certification ()	Publisher	Publishing status (1)	Status 🛈	Requests by users ()		
٢	Locations	~	- Name I	Certification ()	rubiisner	Publishing status	Status 🛈	Requests by users 🙂	^	
G	Enhanced encryption p		Adobe Express	Publisher attestation□*	Adobe		Allowed	0		e
ŕ	Policy packages		ADP Virtual Assistant		ADP		Allowed	0		e E
	Planning	~	Advantage Club		Work Advantage		Allowed	0		42
ííí)	Analytics & reports	~			-					

## 4. Click Upload.

	Microsoft Teams admin cer	r P Search - Preview		¥ ⊠ @ ? (PS)
≡				^
۵.	Dashboard	Manage apps		Org-wide app settings
දිටුදු 1	Teams 🗸 🗸	Control which apps are available to users in your organization by allowing and blocking apps.	You can also upload and	org-wide app settings
88 U	Users 🗸 🗸	approve custom apps are available to users in your organization by anowing and blocking apps, approve custom apps. After managing apps on this page, you can use app permission and app what apps are available for specific users in your organization's app store. Learn more		
& ⊺	Teams devices 🛛 🗸 🗸	what apps are available for specific users in your organizations app store, team more		
E T	Teams apps 🔋 🔨			
N	Manage apps	Pending approval Featured app	VIEW DETAILS	
P	Permission policies	0 0 🚺 Help your tea	eetings.	
s	Setup policies	Submitted custom apps Updated custom apps	• • • •	
c	Customize store			
× ش	Meetings 🗸 🗸 🗸	Browse by Everything $\vee$		
	Messaging policies	🕂 Upload 🗸 Allow 🖉 Block 🖉 Customize 👸 Add to team   1565 items	Q	Search by name
ବ v	Voice 🗸 🗸	✓ Name Î Certification ① Publisher	Publishing status ① Status ①	Requests by users ③
<u>ن</u> ک	Locations $\checkmark$		Publishing status	
G	Enhanced encryption p	■ Adobe Express Publisher attestation Adobe	Allowed	0
P P	Policy packages	ADP Virtual Assistant CT ADP	Allowed	0
ँ≣ Р	Planning ~	Advantage Club 🗂 Work Advantage	Allowed	0
Añ A	Analytics & reports $\sim$	-		~



5. Browse to the saved location for voca1\_app.zip and then click Upload.

The following confirmation is displayed.

	Microsoft Teams admin center			𝒫 Search - Preview					? (PS)
≡		Â							^
ଜ			Manage apps					Org-wide app settin	
ĉŝŝ		~						Org-wide app setur	igs
දී		~	Control which apps are available to users in approve custom apps. After managing app what apps are available for specific users in	s on this page, you can use app	permission and app setup polic				
\$		~	what apps are available for specific users in	ryour organizations app store.	Lean more	×			
₿		^				^			
			Pending approval						
			0 0		3		>		
			Submitted custom apps Updat						
				N	ew app added				
÷		~	Browse by Everything $\vee$	Now that you've added this app	o to your apps list, select <mark>this link</mark>	to manage it.			
Ę			+ Upload 🗸 Allow ⊘ Bl					Q Search by name	0
6		~	V Nama 1	Certification ③			() Status ()		
٢		~	✓ Name T	Certification U	Publisher	Publishing status	Status 🖯	Requests by users ①	^
ଜ			Adobe Express	Publisher attestation	Adobe		Allowed	Loading	e
٢			ADP Virtual Assistant		ADP		Allowed	Loading	
*≣		~	Advantage Club		Work Advantage		Allowed	Loading	-
зîÌ		~							~

The SmartTAP Personal App is displayed.

# Figure 33-100SmartTAP Personal App

	Microsoft Teams adm	in cente	r	D Search - Preview			₹	<b>)</b> 1	, be
≡			Manage apps \ SmartTAP						^
බ	Dashboard								
හෙ	Teams	~	SmartTAP						
සි	Users	~	AudioCodes						
٨	Teams devices	~	Status © Allowed	New version ↑ Upload file					
₿	Teams apps	^	Published version	-T Opload file					
	Manage apps		1.0.1						
	Permission policies		By using this app, your users agree to the Privacy policy and T	erms of use.					
	Setup policies								
	Customize store		About Permissions						
Ē	Meetings	~	Details			^			
E	Messaging policies		Short name	Categories	Certification ()				
ଙ୍କ	Voice	~	SmartTAP		-				
٢	Locations	~	Short description	Scope	Admin can install in	meetings			
G	Enhanced encryption p		SmartTAP for Teams	Personal	No				
1	Policy packages		App ID 703d938f-675e-483f-94b0-c75285403d41	Publisher AudioCodes	External app ID ()	3e-643e-60572b1d48ff			
:1	Planning	~	Privacy policy URL	Website URL	Terms of use URL				
sii	Analytics & reports	~	https://www.audiocodes.com/corporate	https://www.audiocodes.com/solu	itions- https://www.audio	codes.com/library/technical-			
¢	Notifications & alerts	~	/privacy-policy⊡'	products/voiceai/meetings-and-re /smarttap-360 <sup>[2]</sup>	cording documents?produ	ctGroup=1695⊡"			0
۲	Other settings	~	Documentation URL						Ģ
									~~
			Full description						

6. Click the **Permissions** tab.

	Microsoft Teams adn	nin cent	er	D Search - Preview			Ŧ	© (	» ?	? (PS)
≡			Manage apps \ SmartTAP							^
බ	Dashboard									
865	Teams		SmartTAP							
88	Users		AudioCodes							
٨	Teams devices		Status ① Allowed	New version ↑ Upload file						
₿	Teams apps		Published version 1.0.1							
	Manage apps									
	Permission policies		By using this app, your users agree to the Privacy policy and T	ierms of use.						
	Setup policies		About Permissions							
	Customize store									
Ē	Meetings		Details			^				
Ę	Messaging policies		Short name	Categories	Certification ①					
ଙ୍କ	Voice		SmartTAP							
٢	Locations		Short description	Scope	Admin can install in	meetings				
G	Enhanced encryption p		SmartTAP for Teams	Personal	No					
1	Policy packages		App ID 703d938f-675e-483f-94b0-c75285403d41	Publisher AudioCodes	External app ID ③	)3e-643e-60572b1d48ff				
:≣	Planning		Privacy policy URL	Website URL	Terms of use URL					
<i>4</i> 11	Analytics & reports		https://www.audiocodes.com/corporate	https://www.audiocodes.com/solu		codes.com/library/technical-				
¢	Notifications & alerts		/privacy-policy <sup>C2</sup>	products/voiceai/meetings-and-re /smarttap-360						0
۲	Other settings		Documentation URL							Ģ
										~~
			Full description							

7. Click the Azure Active Directory or **Review permissions** link.

	Microsoft Teams adm	in cent	ar		🔎 Search - Preview		Ŧ	<b>•</b>	≥ ?	PS
≡			Manage apps \ SmartTAP							
ଜ	Dashboard									
හි	Teams	~	SmartTAP							
සී	Users	~	AudioCodes							
٨	Teams devices	~	Status	Allowed	New version ↑ Upload file					
B	Teams apps	^		shed version						
			1.0.1							
	Permission policies		By using this app, your users agree	ree to the Privacy policy and Te	rms of use.					
	Setup policies									
	Customize store		About Permissions							
Ē	Meetings	~	Org-wide permissions							
Ę	Messaging policies		This app has been granted cons view details.	nsent for some permission	ns. Go to Azure Active Directory to					
ଙ୍କ		~	As an admin you can review and							
۲	Locations	~	users in your organization. You w permissions for the app individua							
G	Enhanced encryption p		Use the below button to grant ad	dmin consent. Learn more						
•	Policy packages		Review permissi							
: E	Planning	~								
ś	Analytics & reports	~	Resource-specific conser	ent (RSC) permission	ns					
¢	Notifications & alerts	~								0
۲	Other settings	~								ç

A list of permissions for the **login-app** are displayed.

Microsoft Azure		${\cal P}$ Search resources, services, and docs (G+/)		E (	7 0 0 A	QA@ai0logics.onmicros
Home > voca1-login-app						
vocal-login-app	Permissions					×
Overview     Overview     Deployment Plan	Refresh      Review permissions	R Got feedback?				
Manage	Applications can be granted permissions to directly to the application. Learn more.		nin consents to the application for all users, a user grants consent		application and enabling se	If-service access or assigning users
<ul> <li>Owners</li> <li>Roles and administrators</li> </ul>		n behalf of all users in this tenant, ensuring that end user rant admin consent for AudioCodes - SQA Live 3	rs will not be required to consent when using the application. Clic	the button below to grant admin consent.		
Users and groups						
Single sign-on	Admin consent User consent					
Provisioning	₽ Search permissions					
<ul> <li>Self-service</li> </ul>	API Name	↑↓ Claim value	↑. Permission	↑џ Туре	↑↓ Granted through	h $\uparrow_{\downarrow}$ Granted by $\uparrow_{\downarrow}$
<ul> <li>Custom security attributes (preview)</li> </ul>	Microsoft Graph					
	Microsoft Graph	email	View users' email address	Delegated	Admin consent	An administrator
Security	Microsoft Graph	offline_access	Maintain access to data you have given it access to	Delegated	Admin consent	An administrator
Conditional Access	Microsoft Graph	openid	Sign users in	Delegated	Admin consent	An administrator
Permissions	Microsoft Graph	profile	View users' basic profile	Delegated	Admin consent	An administrator
Token encryption	Microsoft Graph	User.Read	Sign in and read user profile	Delegated	Admin consent	An administrator
Activity						
Sign-in logs						
🛍 Usage & insights						
<ul> <li>Audit logs</li> </ul>						
Provisioning logs						
≆ Access reviews						
Troubleshooting + Support						

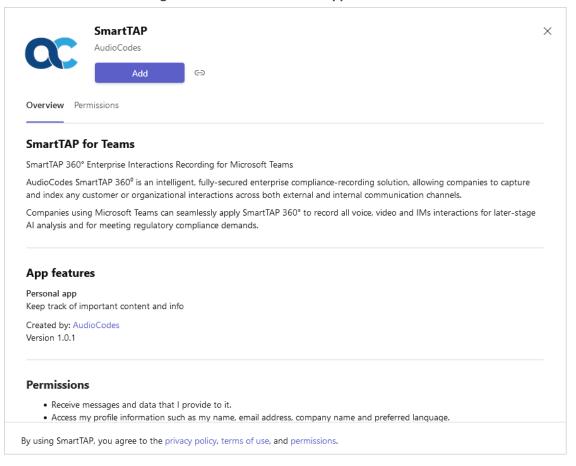
 Click Grant admin consent for <Service Provider Operator>. In the example above AudioCodes – SQA Live 3.

# Figure 33-101Login-app Permissions

. 2	nicrosoft.com
	s requested your organization
voca1-login-app unverified	
This application is your organization	s not published by Microsoft or n.
This app would lik	e to:
✓ Maintain access	to data you have given it access to
✓ Sign in and read	l user profile
	will get access to the specified resources for zation. No one else will be prompted to ns.
A	ssions means that you allow this app to use
your data as specified i statement. The publish	n their terms of service and privacy <b>er has not provided links to their terms</b> I can change these permissions at oft.com. Show details
your data as specified i statement. The publish for you to review. You	er has not provided links to their terms a can change these permissions at oft.com. Show details

- 9. Click Accept to provide consent.
- **10.** Open the Microsoft Teams Customer Tenant (using Desktop application only) and search for the SmartTAP app.

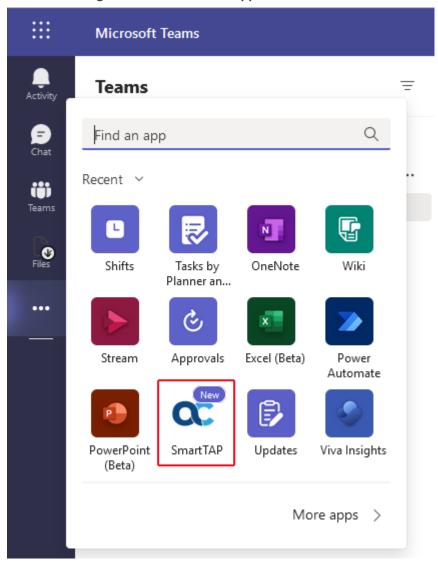
## Figure 33-102Add SmartTAP App



# 11. Click Add.

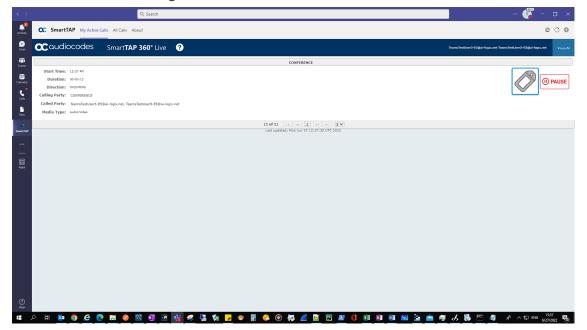
Once successfully added, the SmartTAP app is displayed in the list of apps.

# Figure 33-103SmartTAP App



**12.** Click the SmartTAP app, the SmartTAP Web interface opens displaying the **My Active Calls** tab.

#### Figure 33-104SmartTAP Web



# **Enable Users with Compliance Recording**

This step describes how to configure User Compliance Recording Policy which allows the recording of the users belonging to the group configured in Create Recording Group on Azure. The Microsoft Teams deployment script complianceRec.ps1 assigns M365 users and groups for recording on Microsoft Teams.

## **To enable users with Compliance Recording:**

- Take the complianceRec.ps1 file from the folder-..\TerraSmartTap\ComplianceRecPolicy\createRecPolicy.ps1 file.
- 2. In PowerShell, right-click the script and run "createRecPolicy.ps1".
- 3. Login to Azure account using the Teams Users Tenant Administrator's credentials.



Sign in to continue to Microsoft Azure

Email, phone, or Skype

No account? Create one!

# Can't access your account?



The Compliance tool interface opens displaying a list of existing recording policies.

	ocodes								Refresh Table
Current State of Reco	rding Policies under Teams tena	nt:					Show paired seco	ndary policies 5	earch By User\Gro
Name	Description	Policy Enabled	Azure Bot App ID	Linked SPN User	RequiredDuringCall	RequiredBeforeHeetingJoin	RequiredBeforeCallEstablishment	RequiredDuringMeeting	Audio Notificati
r5recordingbotpolicy	cr5 policy	False	08447a53-17ca-4	cr5@5martLap.onmik	True	True	True	True	True
complianceRecordingBot1	Test policy created by admin	True			True	True	True	True	True
omplianceRecordingRot	Test policy created by sergein	True			System.Object[]	System.Object[]	System.Object[]	System.Object[]	True
complianceRecordingSTBc	Test policy created by sergein	True	53210052-c601-4	stteamscompliancet	True	True	True	True	True
IonLabPolicyRecordingBol	Ron lab recording policy	True	a06903c5-dafb-4	ronLabCompliance10	True	True	True	True	True
omplianceRecordingBot[	Test policy created by michaladmir	True	51c35db6-1664-r	STTeamsbotlleta@sn	True	True	True	True	True
complianceRecordingBot/	Test policy created by michaladmir	True	F4c75b2d-bdbc-4	<b>STTeamsbotAl@smar</b>	True	True	True	True	True
complianceRecordingBot(		True	e9a8d2e8-3493-4	STTeamsbotQa2@sm	True	True	True	True	True
omplianceRecordingstan	Test policy created by michaladmir	True							True
Tleamsbottestcomp	Test policy created by michaladmir	True	ad41d6c3-6710-4	STTeamsbottest@sm	True	True	True	True	True
TTeamsbotga3t	Test policy created by michaladmir	True	e9a8d2e8-3493-r	STTeamsbotga3@sm	True	True	True	True	True
Teamsbotstandartib2	Test policy created by michaladmir	True	f164c00a-fc73-40	STTeamsbotstandart	True	True	True	True	True
Tleamsbotcert	Test policy created by michaladmir	True	80f1b6df-c874-4	STTeamsbotcert@sm	True	True	True	True	True
Tleamsbotapp	Test policy created by michaladmir	True	ebe55edd-d200-	STTeamsbotapp@sm	True	True	True	True	True
		True							True
earrsCompliancePolicy	TeamsCompliancePolicy	True							True
Tleamsbotypn	Test policy created by michaladmir	True	a7249cb2-6335-4	STTeamsbotvpn@sm.	True	True	True	True	True
Tleambotgacert	Test policy created by michaladmir	True	f3cea2d2-b9ec-4	<b>STTeamsbotgacert@</b>	True	True	True	True	True

4. Click New Policy.

Compliance Policy	—	×
Recording Policy Name:		
test for brad		
OK		
Cance	el	

5. Enter a meaningful name and then click **OK**.



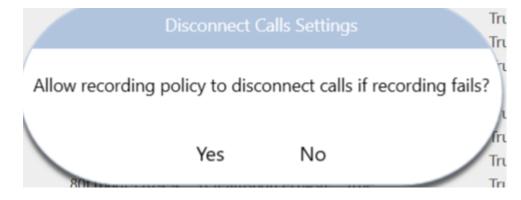
6. Select **SmartTap** as a product.

► Azure Bot -	×
Enter Azure Bot Application Client ID	
1fb8bef7-755a-4a38-817c-6024c8c66e90	
ОК	
Cancel	

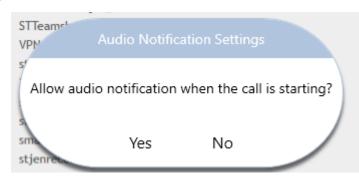
 Enter the BOT App ID that can be found in file app\_registrations.txt "devops5v5-callsapp"...\Ter- raSmartTap\TerraSmartTap\output\_data\app\_registrations.txt. andthen click OK.

🔀 Azure AD Domain 🛛 —	×
Please choose the relavent domain	
SmartTAP.onmicrosoft.com	~
ОК	
Cancel	

8. Select a tenant where the targeted Teams users resides.



**9.** Click **Yes** to Allow Recording Policy to automatically disconnect the call if the recording functionality fails.



- 10. Click Yes to play Recording Notification announcement on PSTN calls.
- **11.** Wait for confirmation on policy creation.

	New Policy	Policy Users/Groups Assignment	Exit
Policy newpoil has been created.			

**12.** Select your new policy and click **Policy Users/Groups Assignment** to assign a new policy to Group or Users.

oup and Users assigments to 5	v6RecordingPolicyST					
						Refresh
which assigned to the policy			1			
UserPrincipalName	DisplayName	FirstName	LastName	Alias	Sid	
ps which assigned to the pol	licy name:					
ps which assigned to the pol Groupid	licy name:	dTime	AssignedB	y	GroupDisplayName	AssignedByDispl
ps which assigned to the pol GroupId		dTime	AssignedB	<i>y</i>	GroupDisplayName	AssignedByDispl
		dTime	Assigned8	Ŷ	GroupDisplayName	AssignedByDispl
		dTime	Assigned®	y I	GroupDisplayName	AssignedByDispl
		dTime	Assigned8	y	GroupDisplayName	AssignedByDispl
		dTime	Assigned8	y .	GroupDisplayName	AssignedByDispl
		dTime	AssignedB	y	GroupDisplayName	AssignedByDispl
		dTime	AssignedB	y .	GroupDisplayName	AssignedByDispl
		dTime	Assigned®	,	GroupDisplayName	AssignedByDispl
		dTime New Assignmen		,	GroupDisplayName	AssignedByDispl

13. Click New Assignment.

erPrincipalName	DisplayName	FirstName	LastName	Alias	Sid	
which assigned to RecP	lol1:					
s which assigned to RecP GroupId		itedTime	Assigned	Ву	GroupDisplayName	AssignedByDisplayNa
		atedTime Add New Ass		By	GroupDisplayName	AssignedByDisplayNa
	Crea		iigment		GroupDisplayName	AssignedByDisplayNa
	Crea	Add New Ass	iigment		GroupDisplayName	AssignedByDisplayNa

Figure 33-105New Assignment

- 14. Select either Users or groups.
  - Users:
  - a. Select Users.
  - **b.** Enter the user principal names.

# Figure 33-106User Principal Names

🔀 Add User to Policy		_		×
Type user principal nam	ies,for mult	iple user	use ","	
[	OK Cancel			
🔀 Add User to Policy		—		$\times$
Type user principal nar	nes,for mul	tiple use	r use ","	
Type user principal nar st-teamsappmi1@mee	_			omi2@
	_			omi2@

c. Click OK, the following confirmation message is displayed.



Once refreshed, the new user is visible under Users:

	blicy					
					Refr	esh Ta
s which assigned to the policy name:						
UserPrincipalName	DisplayName	FirstName	LastName	Alias	Sid	
t-teamsapp1@SmartTAP.onmicrosoft.com	st-teamsapp1		5	t-teamsapp1		
ups which assigned to the policy name:						
ups which assigned to the policy name: GroupId	CreatedTime	AssignedBy	Group	DisplayName	AssignedByDi	splay
	CreatedTime	AssignedBy	Group	DisplayName	AssignedByDi	spla
	CreatedTime	AssignedBy	Group	DisplayName	AssignedByD	spla
	CreatedTime	AssignedBy	Group	DisplayName	AssignedByD	spla
	CreatedTime	AssignedBy	Group	DisplayName	AssignedByDi	splay
	CreatedTime	AssignedBy	Group	DisplayName	AssignedByD	splay
			Group	DisplayName	AssignedByD	ispla;
	CreatedTime New Assignment		Group	DisplayName	AssignedByD	ispla)
ups which assigned to the policy name: GroupId			Group	DisplayName	AssignedByD	ispla

# Groups:

d. Select Groups.

≥ Add group to 5v6RecordingP — 🛛	Х
Type AD Group ObjectID, for multiple groups use ","	
OK	
Cancel	
🔀 Add group to 5v6RecordingP — 🛛	×
Type AD Group ObjectID, for multiple groups use ","	
cbc58572-7d1f-409f-bc7d-525a9718e299S	
OK	
Cancel	

Plome > AudioCodes Utd. (si-logis.net)						
Groups   All groups AutoCodes Ltd. (#-logis.net) - Azore Art	ine Deschey					
< Ali prospi	🎋 New group 🛓 Download groups 🖒 Rathesh 🍈 Manager	view 🗸 🔋 Dulinta 🛛 🧖 Got Twedda	a?			
Deleted groups	P steel	🗙 🐨 Add filter				
X Diagnose and solve problems	Search mode Contains					
Settings	1 group found					
General	Name Name	Object Id	Group type	Membership type	tmail	Source
topiration     topiration     Toming policy	🔲 🗾 st-compliance-michal	04/58572-7011-4291-6276-525497104299	Microsoft 345	Assigned	st,group,compliance@ai-logiunet	Cloud
Activity						
Privileged access groups (Preview)						
Access reviews						
Audit Rosi						

- e. Enter group Object ID extracted from the Group's properties in Azure.
- f. Click **OK**, a confirmation message is displayed.

# 34 Media Exporter

Media Exporter is a separate desktop application useful for compliance officers or for those who need to download bulk calls from SmartTAP 360° for a specific user or for all users within a date/time range.

The number of exported recordings is limited to 1500. The download time depends on the system specifications and load. It takes approximately 10-15 minutes to download 100 call recordings with an average duration of 5 minutes on an idle system with 4 cores. It is not recommended to export a higher number of records during system working hours.

The search parameters are similar to the SmartTAP 360° UI. Administrators must enter their credentials to access the application. Security credentials assigned by SmartTAP 360° determine which users are visible and whose associated calls will be available for downloading.



Currently both audio and video call types can be exported together. The video component of video calls is not exported in the current version. Alternatively, only the audio of video calls is exported in this version.

# **To run the Media Exporter:**

- 1. Run the MediaExporter.exe tool from your Windows PC.
- 2. Enter the access details and credentials:
  - SmartTAP 360° URL to be used to access the SmartTAP 360° UI
  - Enter the username (same username used to access the SmartTAP 360° UI)
  - Enter the password

💀 Media Exporte		The second second	-	
<b>Audio</b>	Codes			
	SmartTap Server URL:	http://smarttap		
	User:	admin		
	Password:			
	Log In			

Figure 34-1: Credentials

3. Enter the Search Criteria.

Media Exporter			
SMARTTAP	Media Expo	ter Tool	
From:2015-09-15 🔲 🔻 08	▼ 47 ▼		
To: 2015-09-15 🗐 🔭 🚺	▼ 47 ▼		
Call Direction: ALL	•		
File Format: MP3	•		
Output Location:			
C:\Temp\			
O Users/Devices O Group Control Con	aps 🧞		
Active Users	ive Users		
Active Devices Inact	ive Devices		
abce trasc Assaf Rosen	<u> </u>		
Avi Perpinyal Brian Kling	=		
Chard Johnston			
Dave Rogers Debajyoti Dutta			
Donald Howell Jerry Makowski			
Johannes Weiss	-		
O Meta Data			
<ul> <li>Meta Data</li> <li>Meta Data &amp; Media</li> </ul>			
Create zip archive by default			
Search			
Search	Clear		

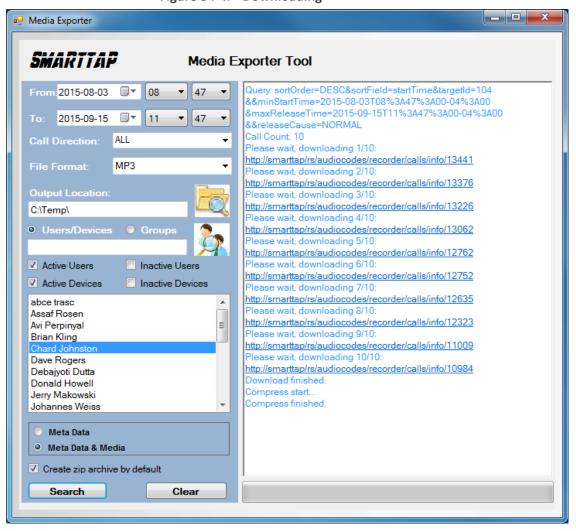
Figure 34-2: Enter the Search Criteria

- The following search criteria definitions are identical to those of the SmartTAP Web interface:
  - File Format (MP3, WAV) Either format can be played using standard Media Player
  - Output location: Where do you want the zip file and contents to be saved?
  - Meta Data or Meta Data & Media: Download only the Call Records or the Call Records and the Audio Files
  - Create zip archive by default: The Meta Data and audio files will be zipped for convenient storage and distribution.

🖳 Media Exporter	
<b>SMARTTAP</b> Media E	xporter Tool
From:2015-08-03 🔍 08 🕶 47 💌	Query: sortOrder=DESC&sortField=startTime&targetId=104 &&minStartTime=2015-08-03T08%3A47%3A00-04%3A00
To: 2015-09-15 🔍 11 🔹 47 🔹	&maxReleaseTime=2015-09-15T11%3A47%3A00-04%3A00 &&releaseCause=NORMAL
Call Direction: ALL -	Call Count: 10
File Format: MP3 -	
Output Location:	
Users/Devices Confirm continue	
<ul> <li>✓ Active Users</li> <li>✓ Active Devices</li> <li>Number of calls for the own</li> <li>Would you like to down</li> </ul>	uery is 10. oad the Meta Data and Media for these calls?
abce trasc Assaf Rosen Avi Perpinyal Brian Kling Chard Johnston	Yes No
Dave Rogers Debajyoti Dutta Donald Howell Jerry Makowski Johannes Weiss	
<ul> <li>Meta Data</li> <li>Meta Data &amp; Media</li> <li>Create zip archive by default</li> </ul>	
Search Clear	

Figure 34-3: Search Results

4. Select **Yes** to start downloading the calls.



After the download completes, the default browser automatically opens presenting the Call Manifest for the calls from the search results.

Figure 34-5: Call Manifest

(←)(→) 🖻	C:\Temp\a	dmin_2015091	5_120952\calls.h	ntml				,	0 - 0 🍊	:\Temp\admin_2015091	5 ×			ñ 🖈
ile <u>E</u> dit ⊻ie	ew F <u>a</u> vorit	es <u>T</u> ools	<u>H</u> elp											
Jser: ad	narttap imin 015-09-15T12	2:09:52-04:00												Result Summar Call Count:
ouery Paramete isers: rom: o: elease Cause:	Chard John 2015-08-0	3T08:47:00-04 5T11:47:00-04												
			Answered Date	Answered Tim	Released Date	Released Time	Duration	Direction	Calling Party	Called Party	Answering Party	Dialed Digits	Release Cause	Play
ohnston, Chard	2015-09-15	08:58:13	2015-09-15	08:58:14	2015-09-15	10:06:36	1:8:23	OUTGOING	chard.johnston	conf-Pascal Plessis	conf-Pascal Plessis		NORMAL	media/Johnston, Chard 2015_09_15_08.58.13 r
ohnston, Chard	2015-09-14	13:02:48	2015-09-14	13:02:49	2015-09-14	13:58:34	0:55:46	OUTGOING	chard_johnston	conf-miriam.murad	conf-miriam.murad		NORMAL	media/Johnston, Chard 2015 09 14 13.02.48.
ohnston, Chard	2015-09-11	09:03:34	2015-09-11	09:03:34	2015-09-11	10:52:03	1:48:29	OUTGOING	chard.johnston	conf-Carl Piazza	conf-Carl.Piazza		NORMAL	media/Johnston, Chard 2015 09 11 09.03.34:
ohnston, Chard	2015-09-09	14:10:56	2015-09-09	14:10:59	2015-09-09	14:17:17	0:6:21	OUTGOING	chard.johnston	victor.ovchinnikov	victor.ovchinnikov		NORMAL	media/Johnston, Chard 2015 09 09 14.10.56.
ohnston, Chard	2015-09-03	12:00:45	2015-09-03	12:00:45	2015-09-03	12:31:14	0:30:29	OUTGOING	chard.johnston	conf-Ronald Romanchik	conf-Ronald.Romanchik		NORMAL	media/Johnston, Chard_2015_09_03_12.00.45.
ohnston, Chard	2015-09-03	11:04:36	2015-09-03	11:04:36	2015-09-03	11:38:46	0:34:10	OUTGOING	chard.johnston	conf-Philippe Blanquart	conf-Philippe.Blanquart		NORMAL	media/Johnston, Chard 2015 09 03 11.04.36.
	2015-09-02	09:02:38	2015-09-02	09:02:43	2015-09-02	09:41:23	0:38:45	OUTGOING	chard.johnston	+01133390677043	+01133390677043		NORMAL	media/Johnston, Chard 2015 09 02 09.02.38.
ohnston, Chard				í	0000000	13:32:46	0:31:48	OUTGOING	chard_johnston	+18775664408	+18775664408		NORMAL	media/Johnston, Chard 2015 08 27 13.00.58.
		13:00:58	2015-08-27	13:01:01	2015-08-27	15.52.40	0.01.10							
ohnston, Chard	2015-08-27	13:00:58 11:00:57	2015-08-27 2015-08-06	13:01:01 11:00:57	2015-08-27	12:18:46	1:17:49	OUTGOING	chard.johnston	conf-Jerry.Makowski	conf-Jerry.Makowski		NORMAL	media/Johnston, Chard 2015 08 06 11.00.57:

In the output location, you'll find the unzipped data and a zip file which contains the Call Manifest and all the associated audio files.

# Figure 34-4: Downloading

**O**-**I**,

<u>File Edit View</u>

📗 Intel

퉬 media 🔒 MSOCache 🐌 PerfLogs 퉬 Program Files Program Files (x86) 퉬 ProgramData 퉬 SmartTAP 🌗 Temp

Amin 20150015 120052

File folder

1 item selected

admin\_20150915\_120952 Date modified: 9/15/2015 12:23 PM

Organize 🔻

✓ Search Temp

📜 Computer

32.681 KB

i - 🔟 📀

Q

	- Bare of or out			
		A COLUMN TWO IS NOT		
Computer > Local Disk (C:) >	• Temp •			•
<u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp				
rganize 🔻 🛛 😝 Open 🛛 Include in library	▼ Share with ▼ Burn Ne	ew folder		
🚢 Local Disk (C:)	Name	Date modified	Type Size	
Lotel	📃 🍌 admin_20150915_120952	9/15/2015 12:23 PM	File folder	

9/15/2015 12:23 PM Compressed (zipp...

Figure 34-6: Output Location

Folder Name: User Name of User that downloaded calls + Date + Time.

🔒 admin\_20150915\_120952.zip

Figure 34-7: Contents of Folder

Date modified 9/15/2015 12:23 PM 9/15/2015 12:23 PM	Type File folder HTML Document	Size			
9/15/2015 12:10 PM 9/15/2015 12:23 PM 9/15/2015 12:10 PM 9/15/2015 12:23 PM 2/11/2015 5:47 PM 2/19/2015 1:59 PM 1/9/2015 3:50 PM	XSL File XML File XML File XML File XSL File XSL File XSL File XSL File	7 KB 11 KB 18 KB 11 KB 12 KB 4 KB 16 KB 4 KB			
	9/15/2015 12:10 PM 9/15/2015 12:23 PM 2/11/2015 5:47 PM 2/19/2015 1:59 PM	9/15/2015 12:10 PM         XSL File           9/15/2015 12:23 PM         XML File           2/11/2015 5:47 PM         XSL File           2/19/2015 1:59 PM         XSL File	9/15/2015 12:10 PM         XSL File         11 KB           9/15/2015 12:23 PM         XML File         12 KB           2/11/2015 5:47 PM         XSL File         4 KB           2/19/2015 1:59 PM         XSL File         16 KB	9/15/2015 12:10 PM XSL File 11 KB 9/15/2015 12:23 PM XML File 12 KB 2/11/2015 5:47 PM XSL File 4 KB 2/19/2015 1:59 PM XSL File 16 KB	9/15/2015 12:10 PM         XSL File         11 KB           9/15/2015 12:23 PM         XML File         12 KB           2/11/2015 5:47 PM         XSL File         4 KB           2/19/2015 1:59 PM         XSL File         16 KB

- Calls.html: Call Manifest
- Calls.xml: Call Meta Data exported from SmartTAP 360° loaded with Calls.html
- Calls\_excel.xml: Open file in Excel. Once in, Excel can be used to generate statistics and reports.

# 35 API Integration

The SmartTAP 360° API is a RESTful Web Services API that provides complete access to and control over the SmartTAP 360° platform. The API provides:

- All administrative functions, including adding users and creating profiles
- Advanced call recording and search capabilities
- Retrieval of recordings & associated Meta Data
- Real-time call monitoring
- Others

Try the following example from your browser. Enter in the address bar: http://url/rs/audiocodes/recorder/calls/info

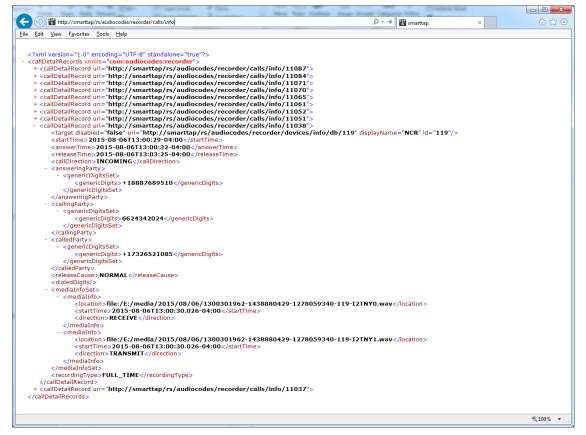
Change 'URL' to the IP address or the name of your SmartTAP 360° product.

http://SmartTAP 360°/rs/audiocodes/recorder- path to SmartTAP 360°

/calls - SmartTAP 360° Rest API resource

/info – Returns a collection of call detail records based on search criteria parameters

Figure 35-1: API Integration



To learn more about the SmartTAP 360° REST API, see the HTML documentation included with the SmartTAP 360° software distribution.

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