Administrator Guide

AudioCodes SmartTAP<sup>™</sup> 360° Live

# **SmartTAP 360° Live**

# SmartTAP 360° Live Enterprise Recording Solution

Version 5.4





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### **Abbreviations and Terminology**

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

# **Related Documentation**

Document Name
SmartTAP 360° Live Release Notes
SmartTAP 360° Live Installation Guide
SmartTAP 360° Live for Microsoft Teams Deployment Guide

# **Document Revision Record**

LTRT	Description
27173	Updated Sections: Managing Recording Profiles; Searching for Calls; Timeline View; Playing Back Recorded Media; Features Overview (Multilingual support); Getting Acquainted with the GUI; License Configuration parameters; Concurrent Recording Licenses; Configuring Email Server Settings; Modifying the Media Location; Viewing Managed Devices; Announcement Server (Skype for Business); Simple Announcement; Announcement Server Configuration Parameters;Managing Security Profiles; Announcement Server -Example Configurations renamed Example Announcement Server Scenarios (including PSTN and Federated Calls and All Inbound Calls); Managing Users; Using the Evaluation feature; Alarm Notifications Added Sections: Saving Search Queries; Deleting Calls and Instant Messages Removed Section: Recording Beep Tones (merged toSection "Editing Media Proxy Server" in the SmartTAP 360° Live Installation Guide)
27174	Updated Sections: Features Overview; About this Guide; Inter-Components Communication; Skype for Business and Teams Video and Screen Sharing; Configuring an LDAP User Added Sections: Adding a Microsoft Teams User Attribute; Microsoft Azure Active Directory; Microsoft Blob Storage
27175	Updated Sections: Step 5 Add Azure Active Directory Mapping in SmartTAP 360° Live; Determining Storage Statistics; Configuring Media
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LTRT	Description
	calls; Recording Health Monitor; General Configuration (Health Monitor); Adding a Microsoft Teams IM Recording Attribute; Skype for Business and Teams Video and Screen Sharing;Announcement Server (Skype for Business); PSTN and Federated Calls; All Inbound Calls; Azure Active Directory User Authentication Added Sections: Microsoft Teams Client Licenses; Managing Microsoft Teams Instant Messages; Managing Microsoft Teams Video Calls; Enabling Microsoft Edge browser with IWA.
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# **1** About SmartTAP 360° Live

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° Live to record all voice, video and IMs interactions for later-stage AI analysis and for meeting regulatory compliance demands.

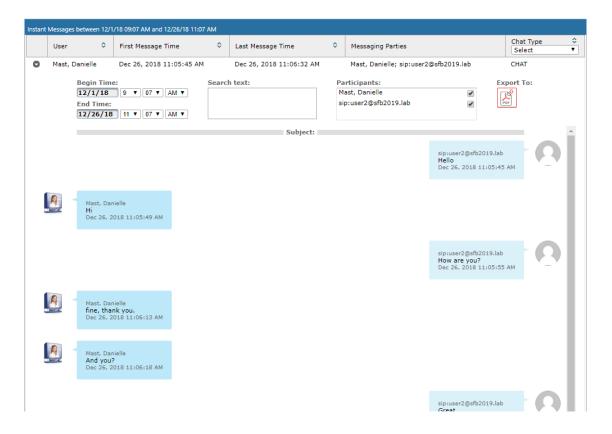
Using an integral Skype for Business recording toolbar, enterprise users can record with SmartTAP 360° Live anywhere and anytime they are on Skype for Business calls.



Figure 1-1: SmartTAP 360° Live Solution

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

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#### **SmartTAP 360° Live Benefits**

SmartTAP 360° Live benefits organizations and enterprises as follows:

- Captures corporate interactions including voice, video 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° Live 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° Live recording features.

 Table 1-1:
 SmartTAP 360° Live 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 manually trigger a recording of another user's calls.

Feature	Details
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	Can be created and assigned 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 BusinessConversation 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	Can be created and assigned to multiple parties to define security access in SmartTAP 360° Live.
LDAP Integration	Allows SmartTAP 360° Live 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.
	Microsoft Azure Active Directory users mapping into SmartTAP 360°Live.
Legal Hold	The user's retention process does not purge their recordings when placed on legal hold.

Feature	Details
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.
Automatic Email Notifications	Automatic email notifications when Alarms are triggered or thresholds are exceeded (Recording licenses or

Feature	Details
	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: agents evaluations, review evaluations, and reports can be generated.
Distributed Architecture	One SmartTAP 360° Live 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° Live server is capable of recording diverse call signaling and voice protocols.
the Same UI	SmartTAP 360° Live records PSTN, Lync, 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° Live GUI or Skype for Business client toolbar after validation of their SmartTAP 360° Live security profile and authentication of their credentials with LDAP Active Directory.
	For Microsoft Team clients: Single Sign-on is supported

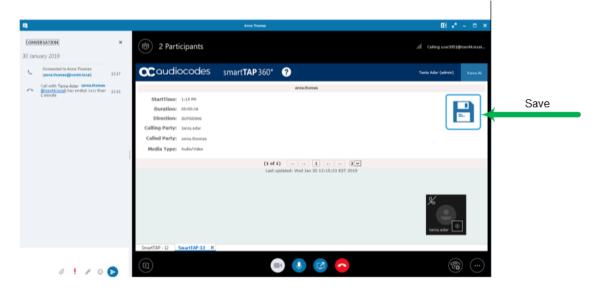
Feature	Details
	for logging onto the SmartTAP 360° Live Personal App. Refer to Step 8 Setup SmartTAP Personal App in the SmartTAP 360° Live Deployment Guide
SIPRec	<ul> <li>Session Initiation Protocol (SIP) establishes an active recording session and reporting of metadata to the SRS (SmartTAP 360° Live) of the active communication session traversing the SRC (AudioCodes SBC or Gateway).</li> <li><a href="https://datatracker.ietf.org/doc/draft-ietf-siprec-protocol/">https://datatracker.ietf.org/doc/draft-ietf-siprec-protocol/</a></li> </ul>
REST API	Allows third-party applications integrated with SmartTAP 360° Live 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° Live 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, allowing SmartTAP 360° Live to capture a copy of the SRTP conversation.

Feature	Details	
	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° Live user or device attribute has three purposes:	
	Additional information can be added to the user account within SmartTAP 360° Live, i.e., Ext, Tel URI, Address, etc., for informational purposes only.	
	Designates to SmartTAP 360° Live 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° Live triggers a recording based on the SIP_URI.	
	MappingActive Directory attributes touser / device information on SmartTAP 360° Live.	
	Mapping Microsoft Azure Active Directory Teams users object ID to user properties on SmartTAP 360° Live.	
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° Live 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° Live 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° Live 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° Live 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° Live 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° Live Announcement and Application server- scan 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° Live SIPRec solution scalability enhancement

Feature	Details
	with an option to reroute a call to another recording server when the server is at the maximum capacity.
SmartTAP 360° Live low- end Profile	SmartTAP 360° Live 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° Live interface supports the following languages: English German Spanish French
Personal App in Microsoft Teams	SmartTAP 360° Live 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.

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



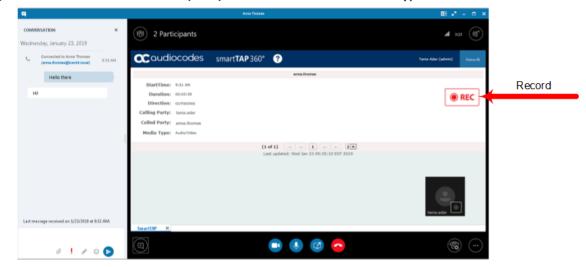


Figure 1-3: Record on Demand (ROD) in SmartTAP 360° Live Live Skype for Business Client



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Duration:	: 00:00:01	
Direction:	: INCOMING	
Calling Party:	ai-logix.net, TeamsTestUser4-E5	
Called Party:	ST-Teams20	
Media Type:	: Audio/Video	
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	Last updated: Wed Jan 06 07:27:52 UTC 2021	

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

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Chat	CCoudiocodes smartTAP 360° ?	ST-Teams20 Voice AI
ຕໍ່ຕື່ວິ Teams	ai-logix.net, TeamsTestUser4-E5	
Files	StartTime: 7:29 AM Duration: 00:00:05 Direction: INCOMING	Record
SmartTAP	Calling Party: ai-logix.net, TeamsTestUser4-E5	
	Called Party: ST-Teams20	
	Media Type: Audio/Video	
	(1 of 1) 14 cd 1 bo bi 2 V	
	Last updated: Wed Jan 06 07:29:31 UTC 2021	
(?) Help		

## Architecture

The figure below illustrates SmartTAP 360° Live architecture.

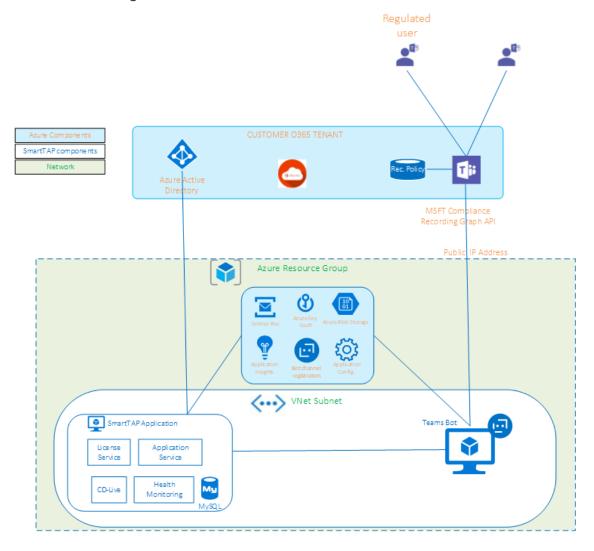


Figure 1-6: SmartTAP 360° Live Architecture

#### **About this Guide**

This guide helps enterprise network administrators obtain full benefit from the SmartTAP 360° Live Call Recording System. The guide comprises the following sections:

Table 1-2: About this Document

Section	Description
Logging In on page 16	Shows how to log in to the SmartTAP 360° Live Web Interface.
Getting Acquainted with the GUI on page 19	Gets the network administrator acquainted with the SmartTAP 360° Live management GUI.
Performing Initial Configuration on	Describes the steps to take to perform initial SmartTAP 360° Live configuration in order to record a call.

Section	Description	
page 26		
Searching for Messages on page 203	Searching for Messages	
Searching for Calls on page 149	Searching for Calls	
Testing the Initial Configuration on page 28	Shows how to record a call to test the initial configuration.	
Configuring Advanced Features on page 30	Details the user interface, features and procedures.	
Single Sign-On for SmartTAP 360° Live on page 212	Shows how to simplify the login process for domain users with Single Sign-On (SSO).	
SmartTAP 360° Live Skype for Business Toolbar on page 231	Shows how to use the SmartTAP 360° Live Skype for Business toolbar.	
Media Exporter on page 234	Describes the Bulk Media Exporter tool to download Meta Data and Call Records.	
API Integration on page 240	Describes the API Reference.	
Recording Health Monitor on page 242	Describes the Recording Health Monitor utility	
Announcement Server (Skype for Business) on page 247	Describes the setup and use of the Announcement Server (Skype for Business)	
Microsoft Azure Active Directory on page 262	Describes the setup for Microsoft Azure Active Directory Teams user mapping and authentication.	
Integrate SmartTAP	Describes how to integrate SmartTAP Personal App in Microsoft	

Section	Description
Personal App in Teams on page 317	Teams.
Enable Users with Compliance Recordings on page 329	Describes how to enable users with Compliance Recordings using PowerShell scripts on the local machinethat need to run with permissions on the required Teams environment.
SmartTAP Alarms on page 337	Describes the SmartTAP SNMP alarms that are raised on the One Voice Operations Center (OVOC).

# 2 Logging In

After the SmartTAP 360° Live software is installed, an Admin user account is created by default. This user account allows the administrator to access the SmartTAP 360° Live's Web-based management tool for the first time and start initial configuration and administration (see Chapter Performing Initial Configuration on page 26). Alternatively, you can log in using the credentials of the Office 365 user.

#### ➤ To log in:

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

Figure 2-1. Login Page
to all the
Login Id
admin
Password
•••••
Log in
Log in
_
Or
Sign In With Microsoft 365
Sign in with Microsoft 303

Figure 2-1: Login Page

- **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 Step 4 Configure OpenID Connect OIDC Client on page 309).

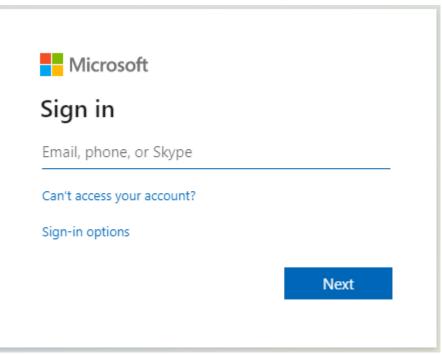
- **To login with Microsoft Office 365 credentials:**
- 1. Click Sign-in with Microsoft 365 button.



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

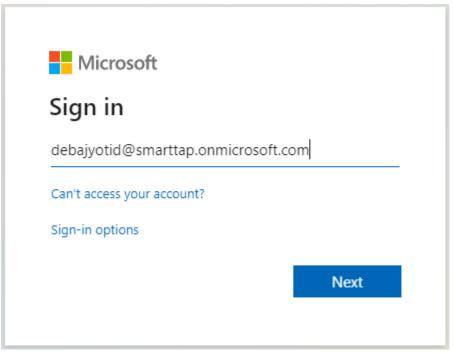
The user is redirected to Microsoft MFC Login page:





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

Figure 2-4: Sign in MFC



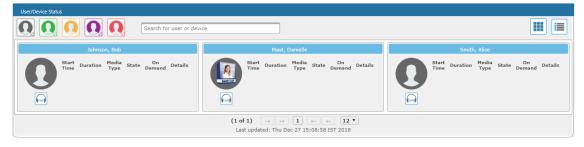
FR 🗵

# **3** Getting Acquainted with the GUI

This section introduces the SmartTAP 360° Live management GUI. The figure below shows the main screen. The following areas are identical across all GUI 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 3-1: SmartTAP 360° Live Main Screen – Upper Banner



The table below describes the active buttons on the toolbar.

#### 🗙 audiocodes smartTAP 360° 😭 ?

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

Button	lcon	Description
Home	<b>^</b>	Go to the Home Page (default start page)
Help	•	Displays help for the currently displayed content
Language Toggle		Toggles between the following interface languages: <ul> <li>English</li> <li>German</li> <li>Spanish</li> <li>French</li> </ul>
Log off	$\Box$	Log off user (identified to the left of this button)

Figure 3-2:	SmartTAP	360° Live	Main Screen
-------------	----------	-----------	-------------

↓ ·			Working pane			
ystem Users Status	Calls between 6/1/18 12:55 PM and 1	/20/19 02:55 PM				
Calls Messages Evaluation						
1/20/19 2 ¥ 55 ¥	₹					
active Users	Name	Start Time	Duration	Direction Select	Release Cause	Tags
ctive Devices  Inactive Devices Users/Devices Groups	Johnson, Bob	Jan 9, 2019 2:00:37 PM	00:00:58	OUTGOING	NORMAL	Ø
rs/Devices:	Johnson, Bob	Jan 9, 2019 1:59:39 PM	00:01:02	INCOMING	NORMAL	Ø
nnson, Bob Inson, Johnson	Johnson, Bob	Jan 9, 2019 1:59:03 PM	00:00:00	OUTGOING	ABANDONED	Ø
14 <4 >> >1 (1 of 1)	Johnson, Bob	Dec 31, 2018 1:59:54 PM	00:01:17	OUTGOING	NORMAL	0
Parties:	Johnson, Bob	Dec 31, 2018 1:56:38 PM	00:00:29	OUTGOING	NORMAL	<b>I</b>
ed	Johnson, Bob	Dec 31, 2018 1:55:48 PM	00:00:28	OUTGOING	NORMAL	<b></b>
wered	Johnson, Bob	Dec 31, 2018 1:36:04 PM	00:00:17	OUTGOING	NORMAL	<b>I</b>
Tags:	Johnson, Bob	Dec 31, 2018 1:32:49 PM	00:00:31	OUTGOING	NORMAL	Ø
ctive Tags Inactive Tags Name Tag Value			10 🔻 14 <4	1 >> >= (1 of 1)		
ect One	Select a call		т	otal calls: 8		
rch -						

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

<b>C</b> audiocodes	sm	art <b>TAP</b> 360°	<b>^</b>	9					Initia	I User (PLEASE DELETE)	FR ¥	G	Voice Al
Système Utilisateurs Statut Appels Messages	<	Appareils gérés					Hôte						
SURVEILLANCE	^	•				Port de l'apparei	il géré						
Licences Appareils gérés				m de l'appareil 🗘	Lieu	C Type d'équipement	0			Adresse		SUBMIT	
État du système Statistiques de stockage OVOC		Statut 0		AZIL-STAF			Disponible  13 hours 16 minutes 15 second	Indisponible	Version 5.0.0.9496	BRAZIL-STAF		Retirer	
		0	CSØBRAZ			Communication Server	13 hours 26 minutes		5.0.0.9496	BRAZIL-STAF			
Historique des alarmes		0 •		ver@BRAZIL-STAF		Media Server	13 hours 23 minutes 38 second	is	5.0.0.9496	BRAZIL-STAF			
Notifications APPLICATION D'ÉTIQUETTES AUX		0 •	RTSØBRA			Remote Transfer Service	13 hours 23 minutes 39 second	at	5.0.0.9496	BRAZIL-STAF			
APPELS	^						1 >> >= (1 of 1)						
Ajouter une étiquette Afficher/supprimer des étiquettes d'ap	ppel					Dernière mise à jour	r: Thu Nov 07 18:36:30 IST 2019						
CERTIFICATS	$\sim$												
Créer une demande de signature Afficher/modifier la liste des certificat	s												
RÉTENTION	$\sim$												
Ajouter une stratégie Afficher/modifier les stratégies Enregistrement SOD													
E-MAIL	^												
SMTP													
MÉDIA Ajouter un emplacement d'enregistrement													
Afficher/modifier des emplacements d'enregistrement													
Données d'identification													
Format d'enregistrement		v											
<b>C</b> audiocodes	sm	art <b>TAP</b> 360°	<b>^</b>	3					Initia	I User (PLEASE DELETE)	E5 ¥	G	Voice Al
Sistema Usuario Estado		Dispositivos admin	istrados										
Llamadas Mensajes	<						Host						

<b>CC</b> audiocodes	sma	art <b>TA</b>	<b>P</b> 360°	A ?					Initial	User (PLEASE DELETE)	ES 🗡	₿	Voice
Sistema Usuario Estado		Disp	ositivos adminis	trados									
Llamadas Mensajes	<						Host						
MONITORIZACIÓN	~ 1					Puerto	de dispositivo administrado						
Pista de auditoria Licencias Dispositivos administrados												UBMIT	
Estado del sistema Estadísticas de almacenamiento			Estado 🌣	Nombre del dispositivo 0	Ubicación 🗘	Tipo de dispositivo Seleccionar 💌	Tiempo de actividad	Tiempo de inactividad	Versión	Dirección		Eliminar	
ovoc		0	•	CD-IP#BRAZIL-STAF		Call Delivery-IP	13 hours 13 minutes 18 seconds		5.0.0.9496	BRAZIL-STAF			
ALARMAS	^	0	•	CS@BRAZIL-STAF		Communication Server	13 hours 23 minutes 12 seconds		5.0.0.9496	BRAZIL-STAF			
Historial de alarmas Notificaciones		0	•	Media Server@BRAZIL-STAF		Media Server	13 hours 20 minutes 41 seconds		5.0.0.9496	BRAZIL-STAF			
	~	0	•	RTS#BRAZIL-STAF		Remote Transfer Service	13 hours 20 minutes 42 seconds		5.0.0.9496	BRAZIL-STAF			
Añadir etiqueta Ver/borrar etiquetas de llamada CERTIFICADOS	~						1 (1 of 1) Thu Nov 07 18:33:44 IST 2019						
Crear solicitud de firma Ver/modificar lista de certificados													
CONSERVACIÓN	^												
Agregar politica Ver/modificar politicas Guardar bajo demanda													
CORREO ELECTRÓNICO	~												
SMTP													
MEDIOS	$\sim$												
Agregar ubicación de grabación Ver/modificar ubicaciones de grabació Credenciales Formato de grabación	in												
Monitor en vivo Firma digital													

### **Determining User/Device Status**

The User/Device Status screen is accessible by clicking the Home button on the upper banner, or by selecting **Status** tab > **User Call Status**. The screen features two views:

Gric
------

|--|

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

The figure below shows the List View  $\blacksquare$ 

User/Device	Status								
		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	
			20	¥ 14 (4 1	▶> ▶1 (1 of 1)				
				Last updated: Tue Jun 08	14:58:10 IDT 2021				

The figure below shows the Grid View  $\blacksquare$ 

Figure 3-5: Grid View

User/Device Status	
Image: Constraint of the second se	
PedizUSR020	
Start Time Duration Media Type State On Demand Details 121 PM 01195:47 E RECORDING	
(1 of 1) (i (i (1) )) (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 3-6: User/Device Status with an Active Call Microsoft Teams Client

Uma Batta Cala Batta Cala	Coudiocodes smartTAP360* A C to the second s		), Search	- 🙀 -
USBY BELLE CARS Hessapes	EMP3         SPR/d         Call         InterCentra fields           Messages         Call         Structure         Structure           Messages         Structure         Structure         Structure           Messages         Structure         Structure         Structure           Messages         Structure         Structure         Structure           (1 (cf1)	SmartTAP My Active Calls All Calls Above		6
Nessager	Nessages	Coudiocodes smartTAP 3	50° 💏 🧿	artuuri in t Dr
10 Marriella	Streaments Nort frame Northern Weder Type North Ole Domand Destands 2.00 Mill Dolocol M The According Of Comment Destands (1 of 1) 1 (2 *)		a Taka	(10)
Based Taxas         Basedan         Market Tayas         Baseda         Baseda           3.03.100         00.023.34         Image         Image         Image           (1 of 1)	Directions         House Stars         House Stars         Directions           3.00 HW         0x0.00.00         Image: stars         Image: stars         Image: stars           (1 of 1)	Pessages		
(1 of 1) 1) 1) + 1) + -	(1 of 1) 1 12*			
0 #D = = 1 = = D*		•		
		•		
			(Lot 1) (+ 1)	

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: 9	tatus Features
--------------	----------------

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:			
	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			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.			

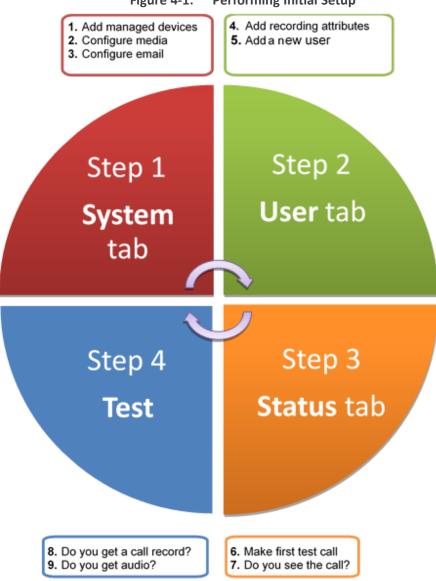
Field		Description		
		User/Device Status Call Detail StartTime: 12:57 PM Duration: 00:00:33 Direction: 0urGOING Calling Party Digits: pool3usr010 Called Party Digits: pool3usr007 Answering Party Digits: pool1usr007	2	
Call Notes		Add a tag - live call or post call. Tags are defined by the system administrator and can be applied during a call or post call.		
Pause / Resume	III PAUSE	Select to pause the recording (for PCI compliance).		
Recording	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.		

#### **Performing Initial Configuration** 4

The figure below shows the steps to take to perform initial SmartTAP 360° Live configuration (Step 1-Step 2) in order to record a call. Detailed instructions follow below it.

It's assumed SmartTAP 360° Live software components were installed on the servers necessary for your environment, and were configured based on the SmartTAP 360° Live Installation Guide.



#### Figure 4-1: **Performing Initial Setup**

#### > To perform initial setup:

- **1.** Log in for the first time (see Logging In on page 16for more information)
- 2. Configure media (seeConfiguring Media on page 69 for more information).
- 3. Configure email (seeConfiguring Email Server Settings on page 68 for more information).

- **4.** Add a user attribute for recording purposes (see Adding a Device Attribute on page 133for details).
- 5. Add a user (see under Managing Users for more information).
- 6. Make sure the new user is assigned a recording profile (see underManaging Recording Profiles on page 118 for more information).
- **7.** Make sure the user's recording attribute field is populated (for more information, seeManaging Recording Profiles on page 118).

# 5 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 on page 26). The objective is to validate the configuration and the recording functionality.

After making sure recording is functioning correctly, continue to Chapter Configuring Advanced Features on page 30to 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.
- 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.

# 6 Configuring Advanced Features

After performing initial setup and then testing it, configure the advanced SmartTAP 360° Live features described in this section.

# Viewing/Searching an Audit Trail

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

From: 12/31/18 To: 12/31/18 Search

Figure 6-1: Audit Trail

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

Figure 6-2: Audit Trail Query Result

ST-Team300 ST-Team31 ST-Team31 ST-Team52 Team5TestUser2 Team5TestUser2 User (PLEASE DELETE), Initial	From: 1/21/20 To: 1/20/21 Search			
Name	Action     Action	≎ Timestamp	Description	
T-Teams100	LOGIN	01/14/2021 11:05:58 AM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
T-Teams100	LOGIN	01/14/2021 11:17:25 AM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
T-Teams100	LOGIN	01/17/2021 02:11:55 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
T-Teams100	LOGIN	01/17/2021 02:18:58 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
T-Teams100	LOGIN	01/17/2021 02:21:46 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	
	PLAY_CALL_MEDIA	01/17/2021 02:22:02 PM	ST-Teams100 requested playback of media for call id 43. Play	
T-Teams100	PLAY_CALL_MEDIA	01/17/2021 02:22:06 PM	ST-Teams100 requested playback of media for call id 43. Play	
T-Teams100 T-Teams100		01/17/2021 02:23:46 PM	ST-Teams100 requested playback of media for call id 43. Play	
	PLAY_CALL_MEDIA			
T-Teams100	PLAY_CALL_MEDIA LOGIN	01/17/2021 02:28:11 PM	User ST-Teams100@smarttap.onmicrosoft.com successfully logged in.	

Table 6-1: Audit Trail

Field	Description
- Selection criteria	Click to hide the Search area

Field	Description
+ 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.
X	Click the Excel icon to export Audit Trail.
Navigation buttons under the	search display:
(1 of 3) 🔤 🤜 🚺	2 3 🕨 🕨 10 💌
	eginning/end, previous/next page of the displayed entries. nging 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

Do you want to open or save AuditTrail-data-2015 07 29.xlsx from localhost?	Open	Save	Cancel	
Do you want to open or save Audit Fail-data-2015_07_29.xisx from localnost?	<u>O</u> pen	<u>s</u> ave	Cancel	×

- 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

# **Managing Licenses**

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

- Targeted user licenses: Enables SmartTAP 360° Live 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 be different for each integration type.

This section includes the following:

- Licenses for Other Integrations below
- Microsoft Teams Licenses on page 35
- License Configuration Parameters on page 38

For Microsoft Teams integrations, its possible to allocate user licenses using this interface, however for other integrations user licenses are allocated on-the-fly.

### **Licenses for Other Integrations**

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

- Targeted User Licenses:
  - Audio & IM Targets: this license sets the number of users that can be assigned to a Recording Profile for recording Audio and Instant Messages. 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.
- Video & Audio & IM Targets: this license sets the number of users that can be assigned to a Recording Profile for recording Audio and Video and Instant Messages.
   Video & 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 Audio and Video enabled recording profile.
  - Screen Sharing Concurrent Recordings: This license determines the maximum number of concurrent Screen Sharing recordings of users that are assigned to an audio or video recording profile.

Only the concurrent recording licenses can be enabled for users with Audio& IM targets or Video & Audio & IM targets (Screen Sharing concurrent recordingsdoes not require a dedicated target user license as its a component of the Video & Audio target license).

#### > To view Managed Licenses:

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

Licenses										
			License Usage Last Updated Sunday, December 8, 2019 11:00:43 AM							
		License	Total	In Use	Available	Max. Consumed*	Notification Threshold Value	Set/Modify Threshold Value		
	3	Audio & IM Targets	300	97	203	97 🧿	0	0		
CD-IP@qalab	-ST-Pool2	Audio Concurrent Recordings	100	0	100	1	0			
Sales Order Numbe Product Key	AVD100Lic	IM Targets	10	0	10	0	0			
Date Issued Customer Name	02/26/2019 AudioCodes- QA	Video & Audio Concurrent Recordings	10	0	10	2	0			
		Video & Audio & IM Targets	100	2	98	2	0			
		Desktop Sharing Concurrent Recordings	10	0	10	1	0			
								Refresh		

#### Figure 6-3: Licenses for Other Integrations

The figure above shows an example of different Target and Concurrent recording licenses.

## **Microsoft Teams Licenses**

This section describes the management of user licenses in a mixed environment with Microsoft Teams .

Compliance Call Recording can be enabled on Microsoft 365 A3/A5/E3/E5/Business Premium and Office 365 A3/A5/E3/E5 users.

#### 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.
- All Included Targets: This license sets the number of users that can be assigned to a Recording Profile for recording Audio and Video, Video and Screen Sharing and Instant Messages. "Audio & Video Concurrent Recordings" licenses (described below) are required to record these users calls
- Concurrent Recording Licenses:
  - Audio Concurrent Recordings: This license determines the maximum number of total concurrent Audio recordings of users that are assigned to an Audio enabled recording profile (Video and Screen Sharingdisabled).

• Audio & Video Concurrent Recordings: This license 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.

Licenses												
						Total L Last Updated S	icense Tarç unday, May 3					
License Server	License	Total I	n Use	Availa	ble Max	c. Consumed*	Notific	ation Thre	eshold Value	Set/Modify Thre	shold Value	Assign License
Sales Order Number 0000000053 Product Key 000000053	Audio Targets	100	1	99	1	7 🧿	]	98		0		
Date Issued 03/29/2021 Customer Name Sharon	All Included Targets	100	17	83	1	7 🧿	]	0		0		
		ense		Total	Tea In Use	ms Concurre Last Updated Available		30, 2021 6:		Threshold Value	Cat / Mo.dif.	Threshold Value
License Server								sumed	_		Set/Modify	
Sales Order Number 000000053 Product Key 000000053	Audio Concurr	ent Recordin	igs	100	0	100	6	9	0			
Date Issued 03/29/2021 Customer Name Sharon	Audio & Video Con	current Reco	ordings	100	0	100	6	0	0			0
CD-IP@il-sharonbi-lp Concurrent Calls Recordings License Usage Last Updated Sunday, May 30, 2021 6:21:02 PM												
	Lice	ense		Total	In Use	Available	Max. Con	sumed*	Notification	Threshold Value	Set/Modify	Threshold Value
CD-IP@il-sharonbi-lp	Audio Concurr	ent Recordin	igs	100	0	100	0	9	2			
Sales Order Number         000000053           Product Key         000000053           Date Issued         03/29/2021	IM Ta	argets		100	0	100	0	9	0			0
Customer Name Sharon	Video & Audio Con	current Reco	ordings	100	0	100	0	9	0			0



This screen is divided into three sections:

- The top section "Total License Target Usage" displays the total number of licenses (configured in License file) and currently consumed licenses accumulated for all integration types.
- The middle section "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.
- The lower section shows that total number and currently consumed concurrent recording licenses for other integrations (if exists).

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

#### > To assign licenses to a target:

1. Click adjacent to the license type for which you wish to assign users.

Licensed Targets						
	Used Lice	nses/Available Licens	ses: 9 / 50	0		
					Select all	UnSelect all
					<u>.</u>	<u>^</u>
First Name	•	Recording Profile Select	\$ ~	Recording license		\$
TeamsTestUser5-E5		yehuditTest				
ST-Teams17		yehuditTest				
ST-Teams14		yehuditTest				
ST-Teams13		yehuditTest				
ST-Teams12		yehuditTest				
ST-Teams11		yehuditTest				
ST-Teams102		yehuditTest				
ST-Teams101		yehuditTest				
ST-Teams100		yehuditTest				
	20 🗸	I4 <4 1 >> >I	(1 of 1)			

Figure 6-5: Licensed Targets

- **2.** From the Recording Profile drop-down list, select the Recording profile for the users that you wish to assign licenses. The users list is updated to reflect the selection.
- Select the check boxes adjacent to the users for whom you wish to assign licenses. Select
   Select all to select the entire list or UnSelect all to not select any users in the list.

The license allocation are automatically updated as shown in the figure below.

	Electise Succession	.,	
• License successfully modified			
Licensed Targets			
Us	ed Licenses/Available Li	censes: 6 / 500	
		Select all UnSelect a	all
First Name	Recording Profile     Select	Recording license	•
ST-Teams100	yehuditTest		
ST-Teams101	yehuditTest		
ST-Teams102	yehuditTest		
ST-Teams11	yehuditTest		
ST-Teams12	yehuditTest		
ST-Teams13	yehuditTest		
ST-Teams14	yehuditTest		
ST-Teams17	yehuditTest		
TeamsTestUser5-E5	yehuditTest		
	20 🗸 🖂 📶 🔛	▶ (1 of 1)	

Figure 6-6: License Successfully Modified

You can view the updated totals in the figure below. Note that 6 licenses (matching the 6 selected check boxes shown in the figure above) have been allocated out of a total of 500.

# Figure 6-7: Updated License Allocations

						l Targets Licen d Sunday, June 6,	-		
LICENSE_SERVER@		License	Total	In Use	Available	Max. Consumed*	Notification Threshold Value	Set/Modify Threshold Value	
Product Key Yeh500 Date Issued 06/02/2021 Customer Name	06/02/2021 AudioCodes-	Audio Targets	500	6	494	12 🔕	0		
	QA			Те	ame Concurre	ent Calls Pecor	dinas License I	cane	
				Te		ent Calls Record d Sunday, June 6,	2021 7:25:30 PM	-	Cot /Madifier
Sales Order Number	DSmartTAP54	License	e To	atal		d Sunday, June 6,	2021 7:25:30 PM Notif	ication	Set/Modify Threshold Value
LICENSE_SERVER@ Sales Order Number Product Key Date Issued Customer Name	9SmartTAP54	License Audio Concurre Recording	nt 5	atal	Last Update	d Sunday, June 6, ble Max Consum	2021 7:25:30 PM Notif	ication seshold	Threshold

# 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.
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 on page 43.
Set/Modify Threshold Value	Set or modify the Threshold value adjacentto each license item.

Parameter	Description
	Enables the allocation of licenses for targeted users for Microsoft Teams users only.
Allocation Licenses	



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.

# **Viewing Managed Devices**

SmartTAP 360° Live architecture comprises several services which together perform all tasks and provide all functionalities for the recorder.

Since any of the services required for an installation may not be in a single server, the initial administrator (admin) must configure the services for SmartTAP 360° Live to record calls.

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.

In a correctly setup deployment, all device types are added automatically, except for devices of type "Host". See Adding a Device Manually to the Application Server on page 42 Adding a Device Manually to the Application Server on page 42 for the procedure to add Host devices.

#### > To view managed devices:

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

Mana	ged Devices	;							
			Managed D	Host				Su	BMIT
	Status	Device Name 🗘	Location \$	Device Type 🗘 Select 💌	Up Time 🗘	Down Time	Version	Address	Remove
0	•	127.0.0.1:161		Host	14 days 20 hours 8 minutes 32 seconds	1	1	127.0.0.1	Ē
o	•	AC-MediaProxy@ST- CLUSTER-N1		Integration Specific	5 days 21 hours 24 minutes 8 seconds		4.3.0.9238	ST- CLUSTER- N1	
o	•	AC-Plugin@QALAB- POOL4-FE1		Integration Specific	33 days 14 hours 47 minutes 39 seconds		4.2.0.9161	QALAB- POOL4- FE1	
0	•	AC-Plugin@SFB19- POOL1-FE1		Integration Specific	18 days 20 hours 17 minutes 23 seconds		4.3.0.9238	SFB19- POOL1- FE1	
0	•	AC HealthMonitor@ST- CLUSTER-N1		Health Monitor	14 days 20 hours 7 minutes 40 seconds		4.3.0.9238	ST- CLUSTER- N1	
0	•	<u>CD-IP@st-cluster-n1</u>		Call Delivery-IP	4 days 22 hours 7 minutes 55 seconds		4.3.0.9220	st- cluster-n1	
0	•	<u>CS@st-cluster-n1</u>		Communication Server	5 days 23 hours 49 minutes 34 seconds		4.3.0.9240	st- cluster-n1	
o	•	<u>Media Server@st-</u> cluster-n1		Media Server	5 days 21 hours 26 minutes 22 seconds		4.3.0.9220	st- cluster-n1	
0	•	<u>RTS@st-cluster-n1</u>		Remote Transfer Service	5 days 21 hours 26 minutes 40 seconds		4.3.0.9220	st- cluster-n1	
			20 La	I         I         Image: Second seco	(1 of 1) IST 2018				

Figure 6-8: Managed Devices

Use the table below as reference.

Table 6-2: Managed Devices Field Descriptions

Field	Description
Host	Host Name or IP Address of the managed device to add. By default, the type of this device is set as 'Host'.
Port	SNMP UDP Listening Port of the managed device to add.

Field	Description
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 deviceconnections are DOWN.
	Device status is DOWN: the device stops sending heartbeat mes- sages.
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. <b>Note:</b> 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.
Device Type	Type of the device provided during registration. A manually added device has type 'Host'. In SmartTAP 360° Live, 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.

Field	Description
Address	IP address or Host name of the registered device.
Remove	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.

# **Inter-Components Communication**

SmartTAP 360° Live 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.

Mani	aged Devices								
			Managed Device	Host					SUBMIT
	Status	Device Name 🗘	Location \$	Device Type Select	Up Time 🗘	Down Time	Version	Address	Remove
0	٠	AC HealthMonitor@STTeamsQA53		Health Monitor	2 hours 53 minutes 4 seconds		5.3.0.9829	STTeamsQA53	
0	•	CALL DELIVERY LIVE@STTeamsQA53		Call Delivery-Live	2 hours 53 minutes		5.3.0.9829	STTeamsQA53	
0	٠	CS@STTeamsQA53		Communication Server	2 hours 52 minutes 53 seconds		5.3.0.9829	STTeamsQA53	
0	٠	REMOTE TRANSFER SERVICE@nt1vm000000		Remote Transfer Service	6 hours 56 minutes 7 seconds		5.3.0.9828	nt1vm000000	
0	٠	REMOTE TRANSFER SERVICE@nt1vm000001		Remote Transfer Service	6 hours 55 minutes 39 seconds		5.3.0.9828	nt1vm000001	
0	٠	REMOTE TRANSFER SERVICE@nt1vm000002		Remote Transfer Service	6 hours 54 minutes 39 seconds		5.3.0.9828	nt1vm000002	
0	٠	REMOTE TRANSFER SERVICE@nt1vm000003		Remote Transfer Service	6 hours 54 minutes 9 seconds		5.3.0.9828	nt1vm000003	
0	•	REMOTE TRANSFER SERVICE@nt1vm000004		Remote Transfer Service	6 hours 53 minutes 39 seconds		5.3.0.9828	nt1vm000004	
0	٠	TEAMS BOT@ntivm000000		Teams Bot	5 hours 20 minutes		5.3.0.9764	nt1vm000000	
0	•	TEAMS BOT@nt1vm000001		Teams Bot	6 hours 55 minutes 1 second		5.3.0.9764	nt1vm000001	
0	٠	TEAMS BOT@ntlvm000002		Teams Bot	6 hours 55 minutes 1 second		5.3.0.9764	nt1vm000002	
0	٠	TEAMS_BOT@nt1vm000003		Teams Bot	6 hours 55 minutes 1 second		5.3.0.9764	nt1vm000003	
0	٠	TEAMS_BOT@nt1vm000004		Teams Bot	6 hours 55 minutes 1 second		5.3.0.9764	nt1vm000004	
			20 🗸	updated: Wed Jan 13 16:54:47 UT	(1 of 1)				

Figure 6-9: Inter-Component Communications

# 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 in Viewing Managed Devices on page 39, 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 6-3: 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.

# **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 6-10: Alarm History

Alarm History: Alarms between	1/21/19 and 1/21/19				
From: 1/10/19	To: 1/10/19 Se	earch			
Name \$	Description 0	Source \$	Date 0	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	Managed Device AC-Plugin@SFR19-POOL1-FE1 failed to send heartbeat within specified time of 36000ms. Device Info Host: SFR19-POOL1-FE1 Type: INTEGRATIOL_SFECTIC Type: INTEGRATIOL_SFECTIC Lash heartbeat received on 2019-00-10 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 1d: 18 Host: 5FB19-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) 🖂 🤜 1	▶> ►1 10 <b>▼</b>	

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° Live 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.	

Figure 6-11: View/Modify Alarm Modifications

- 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

#### Figure 6-12: Link Up Alarm Notification

Communication Down Alarm Notification						
	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 6-4:	Viewing/Modifying the Alarm Notifications Screen
------------	--

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 337

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 6-13: View/Modify Alarm Notifications

# **Monitoring System Health**

The health of the SmartTAP 360° Live 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.

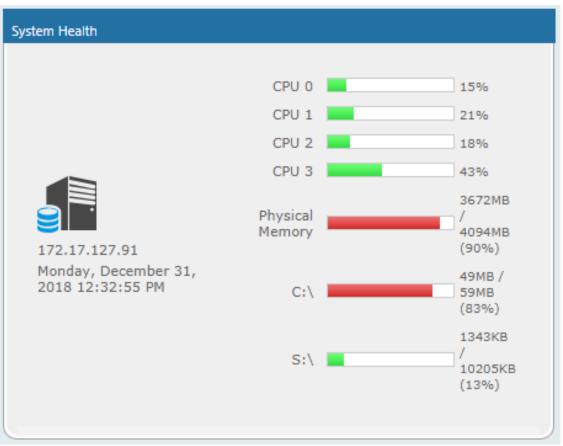
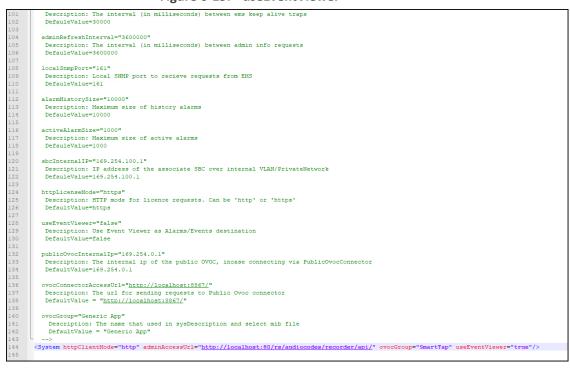


Figure 6-14: System Health

# Windows Event Log

By default alarms and events raised on SmartTAP 360° Live are sent to the OVOC server as SNMP traps (see Configuring OVOC Connection on page 101) and are not sent by default to the Windows Event Log.

- > To enable sending SmartTAP 360° Live 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.



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     Number       D     Custom Views     Level       D     Mapping     Information	r of events: 1			Actions
Custom Views     Evel     Vindows Logs	Date and Time	Source	Event ID Task Category	SmartTCalls
Image: Splare       Internet Explorer       Image: Splare       Image: Sp	12/19/2019 12:48:05 PM	SmartTCalls	1000 (1)	Open Saved Log     Create Custom View     Import Custom View     Clear Log     Filter Current Log     Filter Current Log     Find     Save All Events As
Saved Logs     Event 1000, SmartTCa	lle		×	Attach a Task To this Log
Subscriptions Event 1000, SmartTCa General Details				View
General Details				Refresh
The SmartTCalls w	as successfully initialize component.			🕐 Help
				Event 1000, SmartTCalls
				Event Properties
				Attach Task To This Event
				Save Selected Events
				Ва Сору
				Refresh
Log Name: Source: Event ID: Level: Ucer: OpCode: More information:	SmartTCalls SmartTCalls Logged: 1000 Tack Categ Information Keywords N/A Computer: <u>Event Log Online Help</u>	Classic		2 Help

### Figure 6-16: Event Viewer SmartTCalls



				Event Viewer			-	. 0
e Action View Help								
Event Viewer (Local) Scustom Views	SmartTGeneral Nu					1. v	Actions	
Windows Logs	Level	Date and Time		Source		Task Category	SmartTGeneral	
Applications and Services Logs	1 Information	12/19/2019 12		SmartTGeneral		(1)	👩 Open Saved Log	
🛃 Hardware Events	Error	12/19/2019 12		SmartTGeneral		(1)	Y Create Custom View	
🛃 Internet Explorer	Error	12/19/2019 12		SmartTGeneral		(1)	Import Custom View	
🛃 Key Management Service	Information     Error	12/19/2019 12		SmartTGeneral SmartTGeneral		(1)	the state of the s	
Lync Server	Error	12/19/2019 12		SmartTGeneral		(1)	Clear Log	
Microsoft	(i) Information	12/19/2019 12 12/19/2019 12		SmartTGeneral		(1)	Filter Current Log	
SmartTAP SmartTCalls	Information	12/19/2019 12	340003 PTVI	Smarti General	1000	()	Properties	
SmartTGeneral							Find	
Windows PowerShell							Save All Events As	
aved Logs								
ubscriptions	Event 1010, SmartTGe	ineral				×		
	General Details						View	
							Refresh	
	Text=Communica	ation Down, Source=AC_Hea	althMonitor@LAB-	SMARTTAP01, Severity=Cleared Addition within specified time of 36000mS.	allnf0=Managed Device		Help	
	Device Info:	INGLAD-SMART APUT Talled	to send heartbeat	within specified time or 50000ms.			Event 1010, SmartTGenera	al
	Id: 8, Host: LAB-SMAR	TTADO					Event Properties	
	Type: HEALTH_M	IONITOR,					Attach Task To This Event	
	Last heartbeat rec	ceived on 2019-12-19 12:48:1	1.202				Сору	
							Save Selected Events	
							Refresh	
							Help	
							i tep	
	Log Name:	SmartTGeneral						
	Source:	SmartTGeneral	Logged:	12/19/2019 12:51:35 PM				
	Source: Event ID:	SmartTGeneral 1010	Task Category:	(1)				
	Source: Event ID: Level:	SmartTGeneral 1010 Information	Task Category: Keywords:	(1) Classic				
	Source: Event ID: Level: User:	SmartTGeneral 1010	Task Category:	(1)				
	Source: Event ID: Level:	SmartTGeneral 1010 Information	Task Category: Keywords:	(1) Classic				
	Source: Event ID: Level: User: OpCode:	SmartTGeneral 1010 Information	Task Category: Keywords:	(1) Classic				

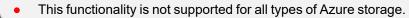
# **SCOM Integration**

The SmartTAP 360° Live 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°

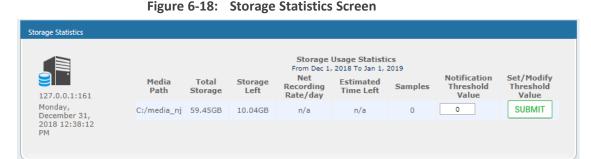
Live, the monitored events source should be configured to "SmartTAP 360° Live" with Event ID 4096. For more information, see the following link: Monitor Event Log

# **Monitoring Storage Statistics**

The SmartTAP 360° Live server estimates the number of days remaining until the recordings storage device reaches its maximum. The Storage Usage Statistics screen shows parameters used for this calculation. The calculation not only takes account of size and rate of the new recordings, but also the size and rate for which older recordings (that exceeded the retention value) are deleted. The notification threshold allows the network administrator to set up an automated notification to trigger when the number of days of storage remaining falls below the Notification Threshold Value.



For Microsoft Teams deployments, only Audio Licenses and total Audio Concurrent recording licenses are supported.



Use the table below as reference.

Table (	6-5:	Storage	<b>Statistics</b>	<b>Fields</b>
TUNIC		Storuge	Statistics	i icius

Field	Description
Media Path	Location in which the recordings are stored.
Total Storage	The total storage available for the media. Note: the drive's total storage is assumed. The storage reflects all media types (audio and video).
Storage Left	The current value of the remaining storage left for media.
Net Recording Rate / day	The net average storage space 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.

Field	Description
Notification Threshold Value	Specify the % of space consumed before an alarm is triggered. > % value consumed = send alarm. Default: 0 (never notify).
SUBMIT	Apply changes

### > To receive the 'Resource Threshold Exceeded' alarm:

- **1.** Configure the Notification Threshold value:
  - Access the Storage Usage Statistics (System tab > Monitoring Folder > Storage Statistics).
  - In the Storage Statistics screen, change 'Notification Threshold Value' to the number of days, to send notification, before the disk is full.
  - Click SUBMIT to submit changes.
- 2. Select the users who will receive the automated notification when the threshold is crossed:
  - Access the View/Modify Alarm Notifications (System tab > System Folder > Notifications menu).
  - Click on the 'I/O Error' Alarm.
  - Move the users to receive Email Notifications for this alarm from the 'Non Recipients' side to the 'Recipients'.
  - Click SUBMIT to submit changes.

# **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:
	None (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, 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).

Figure 6-19: Add Call Tag Screen

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 CANCEL

 Table 6-7:
 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	Tag Type:					
	<b>None</b> (Tag requires no user 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 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					

Field	Description
	accept user inputs like Sales-1234567QA OR Sales-9876543P2, etc.
Q	Click to view tag details.
	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.

View/Delete Call Tags						
Tag Name	Tag Description	Input Type	\$	Input Format	View	Delete
Note	Notes about the call.	TEXT			Q	Ō
Company	Company Name	TEXT			Q	Ē
Malicious Call	Malicious Call	NONE			Q	Ō
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	Ō
Test	Test	TEXT			Q	Ō
Service Request	Ticket ID Number	TEXT		'SR#'######	Q	Î
Sales Order	Sales Order Number	TEXT		'SO#'#######	Q	Ē
Bus Dev	Interop Partner	NONE			Q	Ē
File	File related to the call	TEXT			Q	Ō
Content	Notes about the call.	TEXT			ρ	Ō
Subject	Notes about the call.	TEXT			Q	Ō
Participants	Notes about the call.	TEXT			ρ	Ē
ActionItem	Notes about the call.	TEXT			Q	Ō
text	Notes about the call.	TEXT			ρ	Ō
Tittle	Notes about the call.	TEXT			ρ	Ō
Participents	Notes about the call.	TEXT			Q	Ō
Listening Reason	Reason why a user played a call	TEXT			ρ	Ō
guy	test	BOOLEAN			Q	Ô
	20 🔻 📢 🤜	1 🕨 🖬 (	1 of 1]	)		

Figure 6-20: 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 (as described inSearching for Calls on page 149)

- 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).
- 7. Click SUBMIT

	petween 6/1/18 05:21 PM and 1/1/	19 07:21 PM									
Ca	lls										
+											
	Name	Start Time			Durat	ion	Select	Direction •	Release Cause Select	▼ Tags	Med
	Johnson, Bob	Dec 31, 2018 1:59	:54 PM		00:0	1:17		OUTGOING	NORMAL	$\bigcirc$	[
	Johnson, Bob	Dec 31, 2018 1:56:	38 PM Add and Rem	ova Columna	00:0	0:29	,	OUTGOING	NORMAL		(
	Johnson, Bob	Dec 31, 2018 1:55	Tag	Date Added	Added By	Value	Private	UTGOING	NORMAL	Ø	[
	Johnson, Bob	Dec 31, 2018 1:36	ActionItem	Jan 6, 2019 2:31:52 PM	Danielle Mast	Schedule Meeting		UTGOING	NORMAL		[
	Johnson, Bob	Dec 31, 2018 1:32		14 <4 1	►> ►I (1	of 1)		UTGOING	NORMAL	$\bigcirc$	
			Tag: Select	One • Value:		Private	:	(1 of 1)			
elec	t a call		SUBMIT								
	_				_	_	_	-		_	
1									0.00		0.00
	1.0 5.0					•					◄ —
											E

Figure 6-21: Assigning a Call Tag

# **Generating and Loading HTTPS Certificates**

SmartTAP 360° Live 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° Live server
- Digitally signing audio files

SmartTAP 360° Live 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° Live components or used to manage SmartTAP 360° Live 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° Live components reside, and all computers used to manage SmartTAP 360° Live via its web interface.

# Step 1: Generate Certificate Signing Request (CSR)

To obtain a certificate, first generate a CSR (Certificate Signing Request) from the SmartTAP 360° Live 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° Live 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.

Certificate Signing Request		
CSR Alias Common Name(CN) Subject Alternative Name(SAN) Business Name / Organization Department Name / Organization Unit Town / City Province, Region, County or State Country		Add
	SUBMIT	CANCEL

Figure 6-22: Certificate Signing Request Screen

2. Use the table below as reference when defining the fields.

# Table 6-8: Certificate Signing Request Screen

Field	Description
CSR Alias	Internal name associated with the CSR request.
Common Name (CN)	Full hostname=FQDN (consists of hostname + domain name).
Subject Alternative Name (SAN)	<ul> <li>Email: Indicates the email address of the organization</li> <li>DNS: Indicates the name of the organization's DNS server</li> <li>IP_ADDRESS: Indicates the IP address of the organization</li> <li>URL: Indicates the URL of the organization's host server</li> </ul>
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.

Field	Description
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° Live.

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.

3. Click SUBMIT

; the CSR is automatically available for download from the browser.

4. Save the 'filename.csr' file and send it to the trusted authority.



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 6-23: Viewing/Modifying the Certificate List

View/Modify Certifi	icate 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, US	SA	Fri May 13 18:41:30 IDT 2016				ī
		20 🔻 🖂	≪ 1 ▷> ▷ (1	of 1	)				

Table 6-9: 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 navigate to

# **To import a certificate:**

- Open the View/Modify Certificate List page (System tab > Certificates folder > View/Modify Certificate List).
- Click the Import icon and then the Browse button
   the location of the appropriate certificate file: 'filename.cer'

Figure 6-24: 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?	Open	Save	-	Cancel	

#### To view a certificate:

1. Open the View/Modify Certificate List page (System tab > Certificates folder

> View/Modify Certificate List), click the View icon.

View/Modify Certificate List	
View Certificate	
Alias	SmartTAP
Version	3
Serial Number	9876653531940505215
Signature Algorithm	SHA256withRSA
Issuer	${\tt CN=} audiocodes.com, {\tt OU=} {\tt Compliance}, {\tt O=} {\tt AudioCodes}, {\tt L=} {\tt Somerset}, {\tt ST=} {\tt NJ}, {\tt C=} {\tt US}$
Valid From	Mon Nov 03 18:34:26 IST 2014
Valid To	Tue Nov 03 18:34:26 IST 2015
Subject	CN=audiocodes.com,OU=Compliance,O=AudioCodes,L=Somerset,ST=NJ,C=US
Subject Alternative Name	
Public Key	RSA
	30820122300d06092a864886f70d01010105000382010f0 03082010a0282010100b6dbed7734595b1d574e6f6be2aa 1cd1ff9ce641934f6a4d2308e6f1a53f27ca35d1cfacec6 a25770f4d4bbe8932774b1c4fe9b6185a9f00f9f4b3cbbc 0e263f9ce8a2e1de0c488e461435b673431059853aaa64f 90a899c571e6a19dc1bf68ba34df26a3a76f5328910f0fa a2c495ffc5504c5291aa5d0c66cda7b9ba8d1cb21c7467a 56e175865a952f947dd20cc56a3b264c5ba2521c119a711 0f20a1dd213577d8432933dc5d8134aedd467f893b0bb0f 7eb844733eeaf36cf2c5438098f5fa55114dc0192db1503

#### Figure 6-25: View Certificate

# Step 2: Load Certificates

Oncecertificates are available, load them to secure the connection between a Web browser and the SmartTAP 360° Live server and for securing digital files.

### Loading Web Browser Certificate

This section describes how to load the certificate to secure the connection between your Web browser and the SmartTAP 360° Live server.

#### > To load the Web browser certificate:

1. Open the HTTPS page (System tab > Web folder > HTTPS).

#### Figure 6-26: HTTPS Certificate

HTTPS Certificate		
Cer	tificate smartt	ap.meetinginsights.net ∨
		SUBMIT CANCEL

- 2. From the Certificate drop-down list, select the certificate that you wish to load and click SUBMIT
- **3.** Restart the SmartTAP 360° Live server.

#### **Loading Digital Files Certificate**

This section describes how to load to certificate that you wish to secure digital recording files.

#### > To load the digital files certificate:

- 1. Open the Digital Signature page (System tab > Media folder > Digital Signature).
- 2. Select the appropriate certificate from the Certificate list box.

```
3. Click SUBMIT
```

View/Modify Retention Po	olicies			
Name 🗘	Description 🗘	Evaluation Retention Rule 🗘	Days 🗘	Modify
Default	Default Retention Group	DELETE_CALLS_KEEP_EVALS	365	
British Columbia	90 Days	DELETE_CALLS_AND_EVALS	90	
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	
NCR 30 Days	NCR Support	DELETE_CALLS_AND_EVALS	30	
New Employee	test	DELETE_CALLS_AND_EVALS	7	
Keep Recordings	Don't delete recordings	KEEP_CALLS_AND_EVALS	0	
	20 🔻 📧	< 1  >>  => (1 of 1)	)	

### Figure 6-27: Digital Signature

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° Live 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.

Campos_Jose	e_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

Figure 6-28: Digital Signature Details

🔬 Campo	os_Jose_2014_0	8_21_16.30.47.wa	v Properties	X
General Signatu	Digital Signatur re list	es Security Deta	ils Previous Versi	ions
Name	of signer:	E-mail address:	Timestamp	
audioo	codes.com	Not available	Not available	
			Details	
-		ок Са	ancel Ap	ply

Digital Signature Details	5	_		x
General Advanced				
	nature Information ignature is OK.			
Signer information				_
Name:	audiocodes.com			
E-mail:	Not available			
Signing time:	Not available			
		View	Certificate	
Countersignatures				
Name of signer:	E-mail address:	Timestamp		
			<u>D</u> etails	
			(	ОК

Digital Signature Detail	s			x
	gnature Information signature is not valid.			
Signer information				
Name:	audiocodes.com			
E-mail:	Not available			
Signing time:	Not available			
		View	/ Certificate	
- Co <u>u</u> ntersignatures -				
Name of signer:	E-mail address:	Timestamp		
			<u>D</u> etails	
			0	Ж

For instructions on how to install the add-on, refer to the *SmartTAP 360° Live Installation Guide*.

# **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° Live 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.

Figure 6-29:	Call Retention Screen – Add Retention Policy	1
inguic o 25.	Can Recention Selection Add Recention Foney	

Add Retention Policy	
Retention Policy Name	
Retention Policy Description	
Call and Instant Message Retention Period (in days)	0
Evaluation Retu	ention Rules
O Delete Calls and Evaluations	
Delete Calls, Keep Evaluations	
Keep Calls and Evaluations	
	SUBMIT

#### Table 6-10: Call Retention Screen

Field	Description
Call Retention Period (in days)	The number of days before automatically deleting recordings. A value of zero (0) indicates that recordings are never deleted.
Evaluation Retention Rules	Deletion rules forrecordings with associated evaluations that exceed the Call Retention Period.
SUBMIT	Applies the changes.

The Evaluation Retention Rules determine whether recordings older than the retention period are deleted, based on whether there are evaluations associated with the recordings to delete.

#### Table 6-11: Evaluation Retention Rules

Rule	Description
Call Retention Evaluation Rules	The Retention Evaluation options set the rules for keeping and/or deleting calls used in evaluations, as well as evaluations themselves.
Delete Calls and Evaluations	Evaluations based on calls subject to retention will be deleted along with the calls.
Delete Calls, Keep Evaluations	Evaluations will be kept but calls will be deleted. Evaluation-call relationship will no longer exist.
Keep Calls and Evaluations	If an evaluation is associated with a call, both the call and the evaluation will be permanently kept.

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

- 1. Open the Call Retention screen (System tab > Retention folder > Add Policy).
- 2. Enter the policy name (i.e., Agent, Sales, etc.).
- 3. Enter a description describing the policy and to whom it applies.
- 4. Enter the value for the Call Retention Period.
- 5. Select the appropriate 'Evaluation Retention Rule' assuming Evaluation is enabled.
- 6. Click SUBMIT to submit changes.

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

- 1. Open the Call Retention screen (System tab > Retention > View / Modify Policies).
- 2. Click Modify for a specific policy and modify the necessary fields.
- **3.** Click SUBMIT to apply changes.

Figure 6-30: View / Modify Retention Screen

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	Ø
Engineering Calls	365	DELETE_CALLS_AND_EVALS	365	Ø
NCR 30 Days	NCR Support	DELETE_CALLS_AND_EVALS	30	
New Employee	test	DELETE_CALLS_AND_EVALS	7	Ø
Keep Recordings	Don't delete recordings	KEEP_CALLS_AND_EVALS	0	Ø
	20 🔻 🗔	<li>(1 of 1)</li>	)	

# **Save on Demand Call Retention**

This features 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 period of up to 10 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.

#### > To configure a time elapse for the recording of Save on Demand calls:

- 1. Open the SOD Configuration screen (System tab > Retention folder > Save on Demand).
- 2. Configure the SOD Threshold value in seconds (up to 10 minutes-600 seconds)

Figure 6-31: SOD Configuration

SOD Configuration		
SOD Wait Time	0	SUBMIT

# **Configuring System Settings**

Under 'System Settings', the administrator can configure interfaces pertaining to services or devices that are external to the system. From this folder, the administrator can configure the following:

- Digital Signature to ensure that a recording is authentic.
- SMTP interface to allow the SmartTAP 360° Live server to send outbound emails
- LDAP interface to allow SmartTAP 360° Live to use Active Directory users, groups, and security profiles
- Media storage location which may be stored on a network device
- End-user Web timeout

## **Configuring a Digital Signature**

A digital signature is a way 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.

Select the appropriate certificate to use from the dropdown list. To generate a valid certificate, seeGenerating and Loading HTTPS Certificates on page 54.

## Figure 6-32: Digital Signature

Digital Signature			
	Certificate	SmartTAP SUBMIT	

# **Configuring Email Server Settings**

SmartTAP 360° Live 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.

## ➤ To configure email:

1. Open the Email screen (System tab > Email folder > SMTP).

Figure	6-33:	Email	Configuration
--------	-------	-------	---------------

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.** Use the table below as reference.

## Table 6-12: Email Screen

Field	Description
SMTP Server	Hostname or IP address of the email server.
SMTP Port	TCP port of the email server.

Field	Description
SMTP User	Email user for authentication. By default, SmartTAP 360° Live 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 (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.
SUBMIT	Applies the changes.

- Apply changes (SmartTAP 360° Live tests the Email interface when the user clicks the SUBMIT button 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.

Email must be set up for SmartTAP 360° Live to send email notifications, new user passwords, reset passwords, email recordings, email messages, etc.

# **Configuring Media**

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.

Item	Description
Credentials	Sets the credentials to access the media recording locations. The

#### Table 6-13: Media Folder

ltem	Description
	credentials should be valid for all defined locations. See Configuring User Credentials below. See also Configuring User Credentials for Microsoft Teams Deployments on the next page.
Add Recording Location	Defines and adds a new media storage location. See Adding a Recording Location on page 77. See also Adding a Recording Location for Microsoft Teams Deployments on page 78
View/Modify Rec. Locations	Allows viewing and modifying an existing media location. SmartTAP 360° Live is shipped with a default local media storage location. A new location must be defined when media is not stored on the local drive. See Viewing and Modifying a Recording Location on page 81
Recording Format	Defines a recording format, e.g., encryption and compression. See Defining a Recording Format on page 82
Live Monitoring Location	The Live monitoring feature allows users to listen to calls in real time. See Configure Live Monitoring Location on page 83

## **Configuring User Credentials**

This section shows how to define credentials for accessing shared resources. Whenever you add or modify the location for saving recording or live monitoring files, SmartTAP 360° Live verifies whether this location is accessible to the user defined in this procedure.

- You must define credentials before adding an SMB recording location (as described in Adding a Recording Location on page 77) otherwise the attempt to add the location will fail.
  - If you are deploying with Microsoft Teams, see Configuring User Credentials for Microsoft Teams Deployments on the next page.

## > To configure user credentials:

1. Open the credentials page (System tab > Media folder > Credentials).

#### Figure 6-34: Credentials

Credentials		
Username	NULL	
Password		
Domain		
		SUBMIT

2. Use the table below as a reference when defining credentials.

# Table 6-14: Credentials

Parameter	Description
Username	Specify a Username to use for accessing shared resources.
Password	Specify a Password to use for accessing shared resources.
Domain	Specify the authentication domain used to authenticate the username and password for accessing shared resources.

3. Click SUBMIT

#### **Configuring User Credentials for Microsoft Teams Deployments**

This section describes how to configure credentials for accessing shared resources when media files are shared with a Microsoft Azure deployment implementing either a Microsoft Blob or Fileshare storage account. Whenever you add or modify the location for saving recordings, SmartTAP 360° Live verifies whether this location is accessible to the user defined in this procedure.



You must define credentials before adding an SMB recording location (as described in Adding a Recording Location for Microsoft Teams Deployments on page 78), otherwise, the attempt to add the location will fail.

#### > To configure credentials for Microsoft Teams deployments:

1. Open the credentials page (System tab > Media folder > Credentials).

#### Figure 6-35: Credentials

Credentials		
Username	NULL	
Password		
Domain		
		SUBMIT

2. Use the tables below asreferences when defining credentials.

## Table 6-15: Credentials for Accessing a Microsoft Azure SMB Fileshare Account

Parameter	Description
Username	Specify the Storage username defined for the Fileshare storage account.
Password	Specify the Storage Password defined for the Fileshare storage account.
Domain	Specify 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 "core.windows.net". This value is shown as the "EndpointSufix" in the Azure Portal.

For extracting these credentials, see Extracting User Credentials from Microsoft Azure Fileshare Account on the next page

## Table 6-16: Credentials for Accessing a Microsoft Blob Account

Parameter	Description			
Username	Specify the storage account name where the Blob container was created.			
Password	pecify the "access key" for the Blob storage account			
Domain	Specify the Azure domain used to authenticate the username and password for accessing shared resources.			

For extracting these credentials, see Setting up Microsoft Azure Blob Storage Account on page 75

Figure 6-36: Microsoft Azure Storage Credentials

Credentials		
Username	stfilesharestorage	]
Password		]
Domain	Azure	)
		SUBMIT

3. Click SUBMIT

#### **Extracting User Credentials from Microsoft Azure Fileshare Account**

To use Azure Fileshare storage as a media location, the following Azure information must be extracted:

- Azure Storage Address
- Storage Domain\Username
- Storage password
- Fileshare name
- **To extract these credentials from Microsoft Azure:**
- 1. Go to Azure Portal > Storage Accounts.

#### Figure 6-37: Storage Accounts

≡ Microsoft Azure	𝒫 Search resources, service	s, and docs (G+/)			D 🖟	2 🖓
Home >						
Storage accounts ≫ AudioCodes Ltd.						
🕂 Add 🝈 Manage view 🗸 💍 Refresh 🞍 Export to CSV 😽 Open que	ry 🛛 🖉 Assign tags 📋 Delete	Seedback				
Filter by name Subscription == all Resource group == all	× Location == all × $+_{\nabla}$ Ad	ld filter				
Showing 1 to 78 of 78 records.					[	No grouping
Name 👈	Type ↑↓	Kind ↑↓	Resource group ↑↓	Location ↑↓		
Stfilesharestorage	Storage account	StorageV2	ST_DOC_SAMPLE	West Europe		

2. Double-click the relevant storage account.

## Figure 6-38: File Shares

stfilesharestorage	\$		
	$\cong$ Open in Explorer $\rightarrow$ Move $\vee$ 🕐 Refresh   📋 Delete	😳 Feedback	
<ul> <li>Overview</li> <li>Activity log</li> </ul>	Classic alerts in Azure Monitor is announced to retire in 2021, it is recommend see Continue alerting with ARM storage accounts. C <sup>2</sup>	ded that you upgrade your classic alert rules to retain alerting func	ctionality with the new alerting platform. For more information,
Tags     Diagnose and solve problems     Access Control (IAM)     Data transfer     Events     Storage Explorer (preview)		Performance/Acces Replication Account kind	ss tier : Standard/Hot : Read-access geo-redundant storage (RA-GRS) : StorageV2 (general purpose v2)
Settings   Access keys  Geo-replication  CORS  CORS  Configuration	Containers Scalable, cost-effective storage for unstructured data Learn more	MB and NFS file shares Tabular data storage	e Effectively scale apps according to traffic Learn more

3. Click File shares; the File Shares screen is displayed.

Figure 6-39: File Share Settings

م	Search resources, services, and docs (G+/)		Þ	Ģ	¢3	٢	?
stfilesharestorage   Storage account Search (Ctrl+/) «	File shares ☆						
Overview     Activity log     Tags	File share settings Active Directory: Not configured Soft delete: Disabled Share capacity: 5 TiB Search file shares by prefix (case-sensitive)				) sh	now de	eleted s
<ul> <li>Diagnose and solve problems</li> <li>Access Control (IAM)</li> <li>Data transfer</li> <li>Events</li> </ul>	Name 	Modified 10/11/2020, 1:28:27 PM	Tier Transactior	optimiz	ed		
Evens     Storage Explorer (preview)     Settings							

4. Copy the relevant File share name and click on it.

Example: Fileshare name="smarttap"

## Figure 6-40: Media Directory Name

	∠P Search resources, services, and docs (G+/)		N 🗣 🖉 🎯
Home > Storage accounts > stfilesh	restorage >		
rile share			
Search (Ctrl+/)	🖋 Connect 📅 Upload 🕂 Add directory 🖒 Refresh 📋 Delete share 🌡 Change tier 🧷 Edit quota		
a Overview	${\cal P}$ Search files by prefix		
Access Control (IAM)	Name	Туре	Size
Settings	📜 Media	Directory	
Properties			

# 5. 5. Copy the Media Directory name

Example: Media directory name="Media"

≡ Microsoft Azure	P Search resources, services, and docs (G+/)			P 🔅
Home > Storage accounts > stfileshare	storage >			
smarttap				
P Search (Ctrl+/) ≪	🖋 Connect ក Upload 🕂 Add directory 🕐 Refresh 💼 Delete share 🔒 Change tier 🖉 Edit quota			
Overview	✓ Search files by prefix		 	
Access Control (IAM)	Name	Туре		Size
Settings	Hedia Media	Directory		
Properties				
Operations				
42 Snapshots				
🔗 Backup				

The Connection script opens.

```
cmd.exe /C "cmdkey /add:`"stfilesharestorage.file.core.windows.net`"
/user:`"Azure\stfilesharestorage`"
/pass:`"RM13Fp6N8VmPZ/P1bgN+4M3Gg5CT7+ALbc6i7DUX/fbeB7tR3CFBCX71JWCQgj9xdJ
mBmX38fcAsnOEioGTaEw==`""
```

- 6. Copy the following password values:
  - Azure Storage Address=add
  - Storage Domain\Username=user
  - Storage password=pass

#### Example:

```
Azure Storage Address= stfilesharestorage.file.core.windows.net
Storage Domain\Username=Azure\ stfilesharestorage
Storage Password=
RM13Fp6N8VmPZ/P1bgN+4M3Gg5CT7+ALbc6i7DUX/fbeB7tR3CFBCX7lJWCQgj9xdJmBmX38fc
AsnOEioGTaEw==
```

#### Setting up Microsoft Azure Blob Storage Account

This procedure describes how to configure Microsoft Azure Blob Storagefor storing media recorded by the SmartTAP 360° Live BOT in the Microsoft Teams deployment.

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 (described in Viewing and Modifying a Recording Location on page 81). You cannot configure both On-Premises and Blob Storage.

#### > To configure Microsoft Blob:

- 1. Login to the Microsoft Azure portal (https://portal.azure.com/).
- 2. Open the Storage account settings page.
- 3. Create or use existing storage account.

Figure 6-41: Microsoft Blob Storage Account

😑 blobstoragelb 🖈			
Storage account			
	🕍 Open in Explorer $\  o$ Move $\ \lor$ 🖒 Refresh $\ \mid$ 📋 Delete $\ \mid$ 🙄 Feedback		
Cverview	Classic alerts in Azure Monitor is announced to retire in 2021, it is recommended that you upgra	de your classic alert rules to retain alerting functionality with the n	ew alerting platform. For more information,
Activity log	see Continue alerting with ARM storage accounts.		
Tags			
Diagnose and solve problems	Resource group (change) : testibstandard	Performance/Access tier : Standard/	Cool
Access Control (IAM)	Status : Primary: Available, Secondary: Available		iss geo-redundant storage (RA-GRS)
💕 Data transfer	Location : West Europe, North Europe	Account kind : StorageV2	(general purpose v2)
🗲 Events	Subscription (change) : SmartTAP_MI		
🕍 Storage Explorer (preview)	Subscription ID : c4b0174c-b110-43f6-9cf1-4a666f603686		
Settings	Tags (change) : Click here to add tags		
🕈 Access keys			
Geo-replication	Containers Scalable, cost-effective storage for Serverless SMB and NFS file s	ihares Tabular data storage	Effectively scale apps according to
🔇 CORS	Learn more	Learn more	traffic Learn more
a Configuration	Learn more		Learn more
A reserve			

- 4. Save the storage name for SmartTAP 360° Live settings.
- 5. Create anew container for BLOB media storage and save the name.

Figure 6-42: Create New Blob Container

			_	New container
ine	rs			Name *
	+ Container 🛆 Change access level 💍 Refresh 🛛 🛍 Delete		4	
	${\cal P}$ Search containers by prefix			Public access level ①
	Name	Last modified	Pul	Private (no anonymous access)
	bootdiagnostics-stteamspo-16806f6d-914e-44ed-ad03-2e1cc534eb65	4/23/2020, 12:35:10	Priv	Create Discard

Home > StTeamsBot > stteamsbot > sflogsimtyjmdvvcyzv2   Containers				
ontainers				\$ ×
+ Container 🔒 Change access level 🕐 Refresh 📋 🗎 Delete				
${\cal P}$ Search containers by prefix				
Name	Last modified	Public access level	Lease state	
fabriccounters-ec24bfe0-5d42-4187-88e8-1eefc7533655	4/20/2020, 7:27:01 PM	Private	Available	
fabriccrashdumps-ec24bfe0-5d42-4187-88e8-1eefc7533655	4/20/2020, 7:26:58 PM	Private	Available	
fabriclogs-ec24bfe0-5d42-4187-88e8-1eefc7533655	4/20/2020, 7:26:54 PM	Private	Available	•••
stblobstorage	4/23/2020, 9:17:36 PM	Private	Available	•••
		ontainers	ontainers   + Container   + Containers      P Search containers by prefix     Name   Last modified   Public access level     Image: A state of the state	ontainers   + Container   + Containers      Postion  Postion         Postion       Postion       Postion   Postion

6. Save the storage name and credentials.



Microsoft Azure	🔎 Search resources, services, and docs (G+/) 🗵 🤑 🛞 ? 😳 Knowe Schwart All According	
Home > Storage accounts > TeamsBotD	ev > wadme3ykofzyhzwk3 [Access keys	
wadme3ykofzyhzvw3   A Storage account	ccess keys	×
	Use access keys to authenticate your applications when making requests to this Azure storage account. Store your access keys securely - for example, using Azure Key Vault - and don't share them. We recommend regenerating your access keys regularly. You are provided two access keys so that you can maintain connections using one key while regenerating the other.	
Cverview ^	When you regenerate your access keys, you must update any Azure resources and applications that access this storage access keys. This action will not interrupt access to disks from your virtual machines. Learn more about regenerating storage access keys of	
Activity log	Storage account name	
Access control (IAM)	wednes)/kidryhrvn2	$\square$
Tags		
Diagnose and solve problems	kgr 🔾	
💕 Data transfer	Key	D
Marchine Storage Explorer (preview)		80
Settings	Connection string Defutification:Tables/AccountName+wadme3y.kdrs/thrvs/3.4ccountName+wadme3y.kdrs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/thrvs/t	D
Access keys	Destriction and on the second	<u>sa</u>
	key2 🗘	
Geo-replication	Key	_
⊗ cors	LsLc0dBm+vFxqYyh1JuDnPIOefKxSNTeizM7ZANWTrWNMKBAGB8kzmYYIZB1+pru5ksyNFu3CotjH/rr8IdSYw==	D
Configuration	Connection string	
Encryption	DefaultendpointsProtocol=httpsAccountName=wadme3ykofryhzw8AccountKay=LsLc048m+vPxqYyh1JuDr9DefKK8NTeizMYZZAVVTrWIMK8AGk8kzmYYZE1+pru5ksyNFb3CoftHr9idsYw==EndpointSuffa=core.windows.net	0
Shared access signature		
G Firewalls and virtual networks		
Advanced security		
Properties		
🔒 Locks		

## Adding a Recording Location

Media configuration identifies the type and location of the storage for the recordings. The recordings may be stored on a local disk on the SmartTAP 360° Live server (on the Call Delivery Server), or on an SMB network accessible drive, i.e., Windows shared drive for accessing files over the SMB protocol.

- Open the Add Recording Location screen (System tab > Media folder > Add Recording Location).
  - The default location cannot be modified.
    - If you are defining shared resources 'SMB Scheme", before adding a new location, ensure that you have defined user credentials for accessing the shared resources (see Configuring User Credentials on page 70) otherwise the attempt to add the location will fail.
    - If you are deploying with Microsoft Teams, see Adding a Recording Location for Microsoft Teams Deployments on the next page

Add Recording Location	
Location Name	
Description	
Scheme	file 🗸
Host	
Path	
	SUBMIT CANCEL

#### Figure 6-44: Add Recording Location

2. Use the table below as a reference when adding a recording location.

#### Table 6-17: 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: <ul> <li>Server Message Block (SMB) Shared File</li> </ul>

Parameter	Description
	File (local)
Host	The IP address or FQDN of the SMB Scheme host machine.
Path	Defines the media path pattern.



Add Recording Location	
Location Name	SMB-local
Description	smb
Scheme	smb 🗸
Host	172.17.127.30
Path	'/media_2/'yyyy'/'MM'/'dd'/'HHmmss
	SUBMIT CANCEL

- 3. Click SUBMIT
  - Its recommended to define the SMB Scheme host machine with an FQDN instead of an IP address. This prevents situations where the System administrator changes the IP address of the SmartTAP 360° Live 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° Live AS, ensure that write permissions are set for the directory to which you wish to save the media files.

#### Adding a Recording Location for Microsoft Teams Deployments

For Microsoft Teams deployments, media recordings can be saved according to the following scenarios:

Local Storage (Hybrid Model): Media files are stored locally On-premisesfor compliance and policy reasons. Media files are accessed via the Microsoft Azure Fileshare Storage account. For this mode, you must configure a local host address On-premises and configure SMB scheme.

- Remote Storage on Azure Fileshare:Media files are accessed from the Azure Fileshare storage account. For this mode you must configure a remote Host address and configure SMB scheme.
- Remote Storage on Azure Blob: Media files are accessed from the Azure Blob storage account. For this mode, you must configure a remote Host address and configure HTTPS scheme.

#### > To add a recording location:

 Open the Add Recording Location screen (System tab > Media folder > Add Recording Location).

• The default location cannot be modified.

Before adding a new location ensure that you have defined user credentials for accessing the shared resources (see Configuring User Credentials for Microsoft Teams Deployments on page 71)

Add Recording Location	
Location Name	
Description	
Scheme	file 🗸
Host	
Path	
	SUBMIT CANCEL

#### Figure 6-46: Add Recording Location

2. Use the tables below as references for configuring the Microsoft Azure recording location according to the deployment scenarios described above.

#### Table 6-18: Microsoft Azure Fileshare Recording Location

Parameter	Description
Location Name	Defines the name of the location of the Microsoft Azure Fileshare storage account.
Description	Description of the Microsoft Azure Fileshare storage account
Scheme	smb

Parameter	Description
Host	The FQDN of the SMB Scheme host machine (either <b>local</b> or <b>remote</b> host depending on the deployment scenarios described above). For example: stfilesharestorage.file.core.windows.net
Path	Defines the media path pattern. For example,'/[fileshare]/ [directory]/'yyyy'/'MM'/'dd'/'HHmmss

For extracting the above credentials, see Extracting User Credentials from Microsoft Azure Fileshare Account on page 73

Figure 6-47:	Microsoft A	zure Fileshare	Recording	Location
--------------	-------------	----------------	-----------	----------

Add Recording Location	
Location Name	SmartTAP Azure
Description	SmartTAP Azure Storage Account
Scheme	smb 🗸
Host	stfilesharestorage.file.core.windows.net
Path	'/smarttap/Media/'yyyy'/'MM'/'dd'/'HHmmss
	SUBMIT CANCEL

## Table 6-19: Microsoft Azure Blob Recording Location

Parameter	Description
Location Name	Defines the name of the Microsoft Blob storage account.
Description	Description of the Microsoft Blob storage account
Scheme	https
Container Name	The name of the container of the Microsoft Blob storage account.

For extracting the above credentials, see Setting up Microsoft Azure Blob Storage Account on page 75 3.

Figure 6-48: Microsoft Blob Recording Location

	Add Recording Location	
	Location Name	Azure Blob
	Description	Azure Blob Storage
	Scheme	https 🗸
	Host	
	Container	SmartTAPBlobStore
		SUBMIT CANCEL
	Click SUBMIT.	
/	•	ne media location in a different domain to the SmartTAP 360° re that write permissions are set for the directory to which you wish edia files.

• For configuration of Azure Fileshare storage account, refer to <u>https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal</u>

#### 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 folder > View/Modify Rec. Locations).



Figure 6-49: View/Modify Recording Locations - with Default Location Only

View/Modify Recording Locations				
Location Name	Path \$	Description \$	Modify	Remove
Default	'/C:/media_nj/'yyyy'/'MM'/'dd'/'HHmmss	Default Recording Location		

## Figure 6-50: View/Modify Recording Locations - with Additional Recording Locations

View/Modify Recording Loc	ations			
Location Name 🗘	Path \$	Description \$	Modify	Remove
Default	'/C:/media_nj/'yyyy'/'MM'/'dd'/'HHmmss	Default Recording Location		
Backup Media Storage	'/Shared/media_nj/'yyyy'/'MM'/'dd'/'HHmmss	Storage location for media recordings backups		

2. Click to open the Modify Recording Location screen.

Add Recording Location	
Location Name	SmartTAP Azure
Description	SmartTAP Azure Storage Account
Scheme	smb 🗸
Host	stfilesharestorage.file.core.windows.net
Path	'/smarttap/Media/'yyyy'/'MM'/'dd'/'HHmmss
	SUBMIT CANCEL

**3.** Use the table below as a reference when viewing/modifying recording location.

## Table 6-20: Modify 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 (smb or file). For Microsoft Blob storage: Scheme=https. "Container" field replaces "Path".
Host	The IP address or FQDN of the SMB Scheme host machine.
Path	Defines the media path pattern.

## **Defining a Recording Format**

This section shows how to define a recording format.

#### > To define a recording format:

1. Open the Media Storage Location screen (System tab > Media folder > Recording Format.

Figure 6-51:	Recording	Format
--------------	-----------	--------

Recording Format	
Audio Encoding G.711 aLaw T Encryption	
Video Encoding MP4/H.264	
SU	IBMIT

2. Use the table below as a reference when defining a recording format.

Table 6-21: Recording Format

Parameter	Description
Audio	From the drop-down list, choose one of the following:
Encoding	<b>g711Ulaw</b> (uncompressed storage)
	<b>g711Alaw</b> (uncompressed storage)
	<b>g729</b> (compressed storage)
	'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).

**3.** Click to submit changes.

## **Configure 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° Live client and can be played back by the user by clicking the Live Monitor microphone button (seeDetermining User/Device Status on page 21).

#### **To configure Live Monitoring file location:**

Open the Live Monitoring page (System tab > Media folder> Live Monitoring).

Figure 6-52: Modify Live Monitoring Location

Modify Live Monit	oring Location
Scheme	file 🗸
Host	
Path	c:/media/live
	SUBMIT CANCEL

In this page, the following can be configured:

- **Scheme:** A protocol for storing and retrieving live monitoring files. The following optionSchemes are available:
  - 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 in the Credentials page (seeConfiguring User Credentials on page 70).
    - 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 6-53: Modify Live Monitoring Location-Successfully Update

Live Monitoring location successfully updated.

Modify Live Monito	oring Location
Scheme	file 🔻
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 6-54: Modify Live Monitoring Location-Update Error

• Unable to modify live monitoring location, validation failed. Could not create directories.

Modify Live Monitoring Location

## **Configuring Single Sign-on**

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° Live 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° Live.



#### **To configure Single Sign-On:**

1. Open the Single Sign-On page (System tab > Web folder > Single Sign-On).

## Figure 6-55: 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 6-22:	<b>SSO Configuration</b>	Parameters
-------------	--------------------------	------------

Parameter	Description				
Enable SSO	Select 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° Live.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 Serverfor 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 on page 203 for other necessary steps to configure SSO.

## **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 6	-56: Session Timeout	
Session Timeout Configuration		
Session Timeout (in min.)	20	SUBMIT CANCEL

- 2. Specify the appropriate Session Timeout.
- **3.** Click **SUBMIT** to accept changes.

## **Configuring an LDAP Connection**

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° Live existing local users that match LDAP-obtained users are treated as the same unique user.

## > To add an LDAP connection:

1. Open the Add LDAP Connection screen (System > LDAP > Add LDAP Connection).

Figure 6-57: LDAP Connection Configuratio	Figure 6-57	: LDAP	Connection	Configuratio
---	-------------	--------	------------	--------------

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 🗸			
Login	Choose One 🗸			
Email	Choose One 🗸			
Alias	Choose One 🗸			
OID	Choose One 🗸			
One Level O Subtree	e			
				(+)
Base DN	Filter	Search Scope	Modify Mapping	Delete
No records found.				
•		Group Mappings		
Security Group Mappings				

**2.** Use the table as reference to the screen parameters.

Table 6-23:	LDAP	Connection	Configuratio	n 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 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 the next page.

## > 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=A-Administrator,CN=Users,DC=qalabEE,DC=local)
- ➤ To configure an LDAP connection from SmartTAP 360° Live:
- 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 below).
- 6. Click SUBMIT to apply changes; 'LDAP Provider Configuration successfully saved.' is displayed above the LDAP Configuration screen title bar.

## **Configuring SSL**

This section shows how to enable SSL encryption between SmartTAP 360° Live and AD for all LDAP transactions.

- > To enable encryption between SmartTAP 360° Live 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:

certutil -ca.cert client.crt

 Copy client.crt from the Active Directory server to the SmartTAP 360° Live server, copy from -----BEGIN CERTIFICATE----- to -----END CERTIFICATE----.

📾 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 Uerbose operation -privatekey Display password and private key data -config Machine\CAName CA and Machine name string	
CertUtil -? CertUtil -ca.cert -? CertUtil -u -? Display help text for the "ca.cert" verb 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 CERTIFICATE MIIDbzCCAlegAwIBAgIQGo4xz2d6IotAfjh/bwwxvzANBgkqhkiG9w0BAQUFADBK	
MRUWEWYKCZI miZPyLGQBGRYFbG9 jYWwxFzAUBgoJkiaJk/IsZAEZFgdxYWxhYkUF MRUwEwYKCZI miZPyLGQBGRYFbG9 jYWwxFzAUBgoJkiaJk/IsZAEZFgdxYWxhYkUF	
MDĂ×MĎAwMTĪŠWjBKMRUwEwYKCZImiZPyLGQBGRYFbG9jYWwxFzAVBgoJkiaJk/Is ZAEZFqdxYWxhYkUFMRqwFqYDVQQDEw9xYWxhYkUFLUFEREMtQ0EwqqEiMA0GCSqG	
SIb3DQEBAQUAA4IBDwAwggEKAoIBAQC2dHX0Cdu4kGZX/drEv9fV+YHVtqidiDi9 A91xeR1G8pMCn0VBUPq/+rg77zI9rMMYzvoGAw5uLImx+2oikrcY+zFpZd+gGJw2	
r46YwpUwAP5jd3bgq4kbwDpxvXmSiXfw4CDYTDOoN4Gute+38miejzWd25vPY5qs ki/ihUKqteAlip1FFfLY+zLmKR71yvLt5vXveZiJp8q8DnZWw7ARq1TtsJu1q+d3	
UbfN7/clc8a4hsUxFDTp4bTSq8Uf6cv9HSoj9QD8GtfTLqc5+We6So/JS6HtK5Fr 2TKKoTYGJD1ej1XZBjOcd0BxFfha8jyCSWCYA40SS6bJQMUUC/AtAgMBAAGjUTBP	
MAsGA1UdDwQEAwIBhjAPBgNVHRMBAf8EBTADAQH/MB0GA1UdDgQWBBRh4ofriwZM GK6kLidd8PRjsoc2nDAQBgkrBgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQUFAAOC AQEASusySykyTvZOi+9N1MOfR+QFt0RWbjaw2goWCMUxT/X11Slsx2bPHIUYujD1	
M4t9b/FJWu16FU+wpWzyjK4OLp8uIPmymoBHtw6vTXnJ3wnC9fb6eDSjL1jx6dOL rQh7XShPhNIO+zDJZ0B2ggLHUPe1I3jK3zFFi02Sj1g5wqlbA8mDdcw0pkbGqGIB	
ncSZtUDhNFug500sG1QksmDUiRoX1kZ9bWaU+f2zS8ESGeIfCEXX1BdfxGBfbEC zwUkz9MJ0/mcXCxJ0dGZ45MdLedtd0maDgZhEXytpFNeDWNOYpQJWhrdExsxYSft	
sZkBB6trtS7uptX72kk+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}_	<b>_</b>

Figure 6-58: Copy Client Certificate From Active Directory

**3.** Copy client.crt to the SmartTAP 360° Live machine. From the Java directory (C:\Program Files\Java\<jre\_version>\ on SmartTAP 360° Live) run the following:

```
\bin\keytool -import -keystore .\jre\lib\security\cacerts -file
c:\YOURPATHHERE\client.crt
```

Figure 6-59: Copy Client Certificate to SmartTAP 360° Live Machine

🖦 Administrate	or: Command Pro	mpt\bin\keyte	tool -import-keystore.\jre\lib\security\cacerts-file C:\ 📒	
Volume Ser	ial Number i	s E4B9-C2C3		
Directory	of C:\Progra	m Files (x86	6>\Java\jdk1.7.0_04	
03/26/2013	02:12 PM	<dir></dir>		
03/26/2013		<dir></dir>		
03/26/2013		<dir></dir>	bin	
04/12/2012			,409 COPYRIGHT	
03/26/2013		<dir></dir>	db	
03/26/2013		<dir></dir>	include	
03/26/2013		<dir></dir>	jre	
03/26/2013		<dir></dir>	lib	
03/26/2013			41 LICENSE	
03/26/2013		-	123 README.html	
03/26/2013			.578 register.html	
03/26/2013			.861 register_ja.html	
03/26/2013		5,	.168 register_zh_CN.html	
03/26/2013		4.00	450 release	
03/26/2013			6,640 THIRDPARTYLICENSEREADME.txt	
	8 File(s		16,270 bytes	
	7 Dir(s)	20,843,64t	6,976 bytes free	
C:\Program	Files (x86)	Java\idk1.7.	.0_04>.\bin\keytool -import -keystore .\jre	<b>\1i</b>
			Administrator\Desktop\cert.txt	
	ore password			I

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° Live 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	6-60:	LDAP	SSL	Configuration
--------	-------	------	-----	---------------

Modify LDAP Co	onfiguration			
Host	172.17.127.120	Principal	qalab\admin	Use SSL
Port	636	Password		]
				SUBMIT

# **Configuring an LDAP User**

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 96
- Security Group Mappings (Configuring Security Group Mappings on page 99



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:**

**1.** Open the User Mappings screen shown below.

<b>*</b>		User Mappings		
Base Context			Browse	
Mapping Filter			Create Filter	
First Name	Choose One	۲		
Last Name	Choose One	۲		
Login	Choose One	¥		
Email	Choose One	¥		
Alias	Choose One	T		
Username	Choose One	¥		
🖲 One Level 🔍 Subtre	e			
				$( \bullet )$

2. Use the table below as reference.

## Table 6-24: 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

- **3.** Enter the User Mappings Information in the 'User Mappings' screen (click in if necessary to expand the screen).
- 4. The default user location in Windows is displayed as follows:

OU=Ai-Logix,OU=USA,OU=AudioCodes,DC=corp,DC=AudioCodes,DC=com

5. Click **Browse** and navigate to the appropriate OU.

<pre>User Path: OU=Users,OU=Lync_Lab,DC=stlab,DC=local</pre>	<ul> <li>DC=stlab,DC=local</li> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab</li> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alexsh</li> <li>CN=alice</li> <li>CN=alice</li> <li>CN=carol</li> <li>CN=carol</li> <li>CN=or pat</li> <li>CN=user01</li> <li>CN=user01</li> <li>CN=user03</li> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=Program Data</li> </ul>	<ul> <li>DC=stlab,DC=local</li> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab</li> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alexsh</li> <li>CN=alice</li> <li>CN=bob</li> <li>CN=carol</li> <li>CN=carol</li> <li>CN=or pat</li> <li>CN=user01</li> <li>CN=user03</li> <li>CN=user03</li> <li>CN=user04</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=NTDS Quotas</li> </ul>	<ul> <li>DC=stlab,DC=local</li> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab</li> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alexsh</li> <li>CN=alexsh</li> <li>CN=alice</li> <li>CN=alice</li> <li>CN=carol</li> <li>CN=carol</li> <li>CN=or pat</li> <li>CN=user01</li> <li>CN=user02</li> <li>CN=user03</li> <li>CN=user03</li> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user06</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=Orp mata</li> <li>OU=q_agrp</li> <li>CN=System</li> <li>CN=System</li> <li>CN=Users</li> <li>DC=ForestDnsZones</li> <li>CN=configuration,DC=stlab,DC=local</li> </ul>	Browser
<ul> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab</li> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alexsh</li> <li>CN=alice</li> <li>CN=bob</li> <li>CN=carol</li> <li>CN=dan</li> <li>CN=fichmana</li> </ul>	<ul> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab <ul> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alexsh</li> <li>CN=alice</li> <li>CN=bob</li> <li>CN=carol</li> <li>CN=carol</li> <li>CN=dan</li> <li>CN=or pat</li> <li>CN=user01</li> <li>CN=user03</li> <li>CN=user03</li> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user07</li> </ul> </li> <li>CN=Managed Service Accounts</li> <li>CN=Program Data</li> </ul>	<pre>&gt; CN=Builtin &gt; CN=Computers &gt; OU=Domain Controllers &gt; CN=ForeignSecurityPrincipals &gt; CN=Infrastructure &gt; CN=LostAndFound * OU=Lync_Lab &gt; OU=TEST_LDAP * OU=Users &gt; CN=alaca &gt; CN=alaca &gt; CN=abab &gt; CN=carol &gt; CN=carol</pre>	<ul> <li>CN=Builtin</li> <li>CN=Computers</li> <li>OU=Domain Controllers</li> <li>CN=ForeignSecurityPrincipals</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> <li>OU=Lync_Lab</li> <li>OU=TEST_LDAP</li> <li>OU=Users</li> <li>CN=alace</li> <li>CN=alace</li> <li>CN=alace</li> <li>CN=or pat</li> <li>CN=or pat</li> <li>CN=user01</li> <li>CN=user03</li> <li>CN=user03</li> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=Program Data</li> <li>OU=q_grp</li> <li>CN=System</li> <li>CN=Users</li> <li>DC=ForestDnsZones</li> <li>CN=configuration,DC=stlab,DC=local</li> </ul>	er Path: OU=Users,OU=Lync_Lab,DC=stlab,DC=local
► CN=user01	<ul> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user06</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=NTDS Quotas</li> <li>CN=Program Data</li> </ul>	<ul> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user06</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=NTDS Quotas</li> <li>CN=Program Data</li> <li>OU=qa_grp</li> <li>CN=System</li> <li>CN=TPM Devices</li> <li>CN=Users</li> <li>DC=ForestDnsZones</li> <li>DC=DomainDnsZones</li> <li>CN=Configuration,DC=stlab,DC=local</li> <li>DC=DomainDnsZones,DC=stlab,DC=local</li> </ul>	<ul> <li>CN=user04</li> <li>CN=user05</li> <li>CN=user06</li> <li>CN=user07</li> <li>CN=Managed Service Accounts</li> <li>CN=NTDS Quotas</li> <li>CN=Program Data</li> <li>OU=qa_grp</li> <li>CN=System</li> <li>CN=TPM Devices</li> <li>CN=Users</li> <li>DC=ForestDnsZones</li> <li>DC=DomainDnsZones</li> <li>CN=Configuration</li> <li>CN=Configuration,DC=stlab,DC=local</li> </ul>	DC=stlab,DC=local CN=Builtin CN=Computers OU=Domain Controllers CN=ForeignSecurityPrincipals CN=Infrastructure CN=LostAndFound OU=Lync_Lab OU=Lync_Lab OU=TEST_LDAP CN=alexsh CN=alexsh CN=alice CN=bob CN=carol CN=carol CN=carol CN=carol CN=fichmana CN=or pat CN=user01
<ul> <li>CN=System</li> <li>CN=TPM Devices</li> <li>CN=Users</li> <li>DC=ForestDnsZones</li> <li>DC=DomainDnsZones</li> <li>CN=Configuration</li> <li>CN=Configuration,DC=stlab,DC=local</li> <li>CN=Schema,CN=Configuration,DC=stlab,DC=local</li> <li>DC=DomainDnsZones,DC=stlab,DC=local</li> </ul>	SUBMIT			

## Figure 6-62: LDAP Browser

**7.** 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 6-63: LDAP Filter Builder Example

Ldap Filter Builder		×
And (&) 🔻 🚍 🛨	=+	
objectClass	▼ Equal (=)	▼ user
		SUBMIT CANCEL

- **9.** Scroll through the list and select the First Name, Last Name, Login, Email and Alias user attributes:
  - If you created any SmartTAP 360° Live 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° Live User attributes added for recording purposes.
- **10.** Map SmartTAP 360° Live attributes to appropriate AD user attributes.

**11.** Click to apply changes.

Figure	6-64:	User Filtering Screen

*				User I	Mappings		
Ma	apping Filter First Name	OU=Users,OU=N (&(objectClass=us givenName sn sAMAccountNam mall Choose One			Browse Create Filter		
One Le	Username evel O Subtree	Choose One		•			( + )
Base	e DN		Filter	Search Scope No recon	ds found.	Modify	Delete
•				Group	Mappings		
•				Security G	roup Mappings		

	Figure 6-65:	User wappi	ng Configured			
*		User M	Mappings			
Base Context			Browse			
Mapping Filter			Create Filter			
First Name	Choose One	¥				
Last Name	Choose One	٣				
Login	Choose One	٣				
Email	Choose One	٣				
Alias	Choose One	٣				
Username	Choose One	٣				
🖲 One Level 🔍 Subtre	2					
						$( \pm )$
Base DN			Filter	Search Scope	Modify	Delete
OU=Users,OU=New	Jersey,OU=AUDC,DC=corp,DC=audiocod	es,DC=com	(&(objectClass=user))	ONE_LEVEL		ī

- **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						
<del></del>						
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	Ø	Ī
agenttest1			agenttest1		Ø	Ī
conf-aitest			conf-aitest	conf-aitest		Ē
Tania	Adar	Tania.Adar@audiocodes.com	Taniaa			Ē
Fnu	Alyil veedu dhruva	Dhruva.AlyilVeedu@audiocodes.com	dhruvaa			Ī
Analytics User	Analytics User		auser			Ī
Eric	Bauer	Eric.Bauer@audiocodes.com	ericb			Ī
Analytics	Broker	tania.adar@audiocodes.com	abroker			Ī
Aemon	Burke	Aemon.Burke@audiocodes.com	aemonb			Ī
Jose	Campos	Jose.Campos@audiocodes.com	josec		Ø	Ī
Gino	Carosella	Gino.Carosella@audiocodes.com	ginoc		Ø	Î
Tom	Conlon	Tom.Conlon@audiocodes.com	tconlon		Ø	Î
Sandy	Da Silva	Sandy.DaSilva@audiocodes.com	SandyD			Î
Debajyoti	Dutta	Debajyoti.Dutta@audiocodes.com	debajyotid		Ø	Ī
Oncall-1	EMEA	shlomi.pesach@audiocodes.com	shlomip			Ē
Oncall-2	EMEA	Shlomi.pesach@audiocodes.com	shlomip2			Ē
Mike	Erps	Mike.Erps@audiocodes.com	mikee			Ē
Amrita	Garg	Amrita.Garg@audiocodes.com	amritag		Ø	Ē
Gerald	Groh	Gerald.Groh@audiocodes.com	geraldg			Ē

## Figure 6-66: 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:**

1. Open LDAP Providers screen (System tab > LDAP folder > Add LDAP Config).

2. Open the Group Mappings screen (click ► if necessary to expand screen).

Figure 6-67: Group Mappings

		-					
•			Group Mappings				
	Base Context				Browse		
	Mapping Filter				Create Filter		
	Name	Choose One		•			
	Description	Choose One		¥			
	Members	Choose One		¥			
	● One Level ○ Subtre	5					
						(+)	

**3.** Use the table below as reference.

## Table 6-25: 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)
	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

- 4. Enter the Group Mappings Information in the 'Group Mappings' screen (i.e. (Groups,DC=qalabEE,DC=local)
- 5. Navigate to appropriate 'Group Path' and then click

SUBMIT

- 6. 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 6-68: Group Filter
	Ldap Filter Builder
	And (&)
6.	Click the repeat above filter steps.
7.	Click the conto 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 6-69: Group Filtering Screen

*	Group M	1appings
Base Context	OU=Lync-AnalogDevices,OU=AudioCodes,DC=corp,DC=audiocodes,DC=com	Browse
Mapping Filter	(&(objectClass=group))	Create Filter
Name	name 🔹	
Description	description	
Members	member v	
🖲 One Level 🔍 Subtre	e	
		$\odot$
·		

**10.** Click to apply changes; view the listed group in the table .

Figure 6-70: Group Mapping Configured

•		Group M	appings			
Base Context			Browse			
Mapping Filter			Create Filter			
Name	Choose One	Ŧ				
Description	Choose One	•				
Members	Choose One	Ŧ				
🖲 One Level 🔍 Subtre	e					
						(+)
						$\bigcirc$
Base DN			Filter	Search Scope	Modify	Delete
OU=Lync-AnalogDev	rices,OU=AudioCodes,DC=corp,DC=audiocodes,DC=com		(&(objectClass=group)	)) ONE_LEVEL		Ē

**11.** Select the **Group Mapping** tab pageto see the list of groups added from the Active Directory. If you only see the 'Default' group listed in the table, the group mapping is incorrect.

Figure 6-71: View/Modify Group
--------------------------------

LDAP Providers			
Host	\$ Port	 Modify	Delete
aiads01	389		Ē
172.17.127.70	389	Ø	Ō

## **Configuring Security Group Mappings**

This section shows how to configure Security Group Mappings. All mapped Active Directory security groups automatically become SmartTAP 360° Live Security Profiles.

By default, new security profiles are granted no SmartTAP 360° Live permissions.

#### **To configure Security Group Mappings:**

- 1. Open the Add LDAP Config screen (System tab > LDAP folder > Add LDAP Config).
- 2. Open the Security Group Mappings screen (click ▶ if necessary to expand the screen).

Figure 6-72:	Security Gro	up Mappings
--------------	--------------	-------------

•	Security Group Mappings	
Base Context	Browse	
Mapping Filter	Create Filter	
Name	Choose One 🔻	
Description	Choose One <b>T</b>	
Members	Choose One <b>T</b>	
🖲 One Level 🔘 Subtre	e	
	$\bigcirc$	

**3.** Enter the Security Group Mappings Information in the Security Group Mappings screen. Use the table below as reference.

## Table 6-26: Security Group Mapping – Field Descriptions

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> <li>Members (LDAP Attribute that maps to the security group members.</li> </ul>

Field	Description
	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 or Shrink screen

4. 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.



	Ldap Filter Builder
	And (&) ▼       =+       =+         objectClass       ▼       Equal (=)       ▼
	SUBMIT CANCEL
6.	Click the 📑 icon to add an additional filter condition and repeat above filter steps
7.	Click the con to add a new Sub filter and repeat above filter steps

8. Click SUBMIT to apply changes.

Figure 6-74: Security Group Filtering Screen

•		Security G	roup Mappings		
Base Context			Detune		
Base context	OU=Security,DC=corp,DC=audioco	Jes, DC=com	Browse		
Mapping Filter	(&(objectClass=group))		Create Filter		
Name	name	۲			
Description	description	•			
Members	member	۲			
One Level Osubtre	e				
Base DN	Filter	Search Scope		Modify	Delete
		No recor	ds found.		

9. Click to apply changes.

Figure 6-75:	Security Gro	oup Configured
--------------	--------------	----------------

•		Security Group Mappings			
Base Context		Browse			
Mapping Filter		Create Filter			
Name	Choose One	T			
Description	Choose One	T			
Members	Choose One	¥			
🖲 One Level 🔍 Subtre	e				
					(+)
Base DN		Filter	Search Scope	Modify	Delete
OU=Security,DC=co	prp,DC=audiocodes,DC=com	(&(objectClass=group))	ONE_LEVEL		Ē

**10.** Click to easily add additional Security Group Mappings.

# **Configuring OVOC Connection**

This section describes how to setup the connection to the OVOC server. SmartTAP 360° Live is managed underOne 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° Live components and forwarded to OVOC from the SmartTAP 360° Live Application server.OVOC Agents are installed on the SmartTAP 360° Live Application server for this purpose. For more information, refer to the *SmartTAP 360° Live 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 : 10.3.180.45
Trap Port : 162
Keep Alive Port : 1161
SNMP SNMP v2 O SNMP v3
Community Read : public Community Write : private
System Info
Name : SmartTAP
Location : 133
Login URL : http://172.17.127.133/
SUBMIT CANCEL

Figure 6-76: OVOC Settings

- 2. Configure the following settings:
  - OVOC IP Address
  - Trap Port
  - Keep-alive Port
- 3. Configure the SNMPv2 community strings:
  - SNMPv2 Community Read string
  - SNMPv2 Community Write string
- 4. Configure SNMPv3 settings:
  - Security Name-Security Name of the SNMPv3 operator
  - Authentication Protocol-the SNMPv3 authentication protocol (SHA or MD5)
  - Authentication Key- the authentication password.

Ω

- Private Protocol-the SNMPv3 privacy protocol (AES 128 or DES)
- Private Key-theprivate key

The SNMPv2 and SNMPv3 settings should be identically configured on both SmartTAP 360° Live and the OVOC server.



View/Modify C	WOC settings				
Γ	OVOC Connection			_	
	IP Address :	0.0.0.0	)		
	Trap Port :	162			
	Keep Alive Port :	1161			
	SNMP				
	🔘 SNMP v2 🔘 S	NMP v3	;		
	Security Name :		v3		
	Authentication Prot	ocol :	MD5 🗸		
	Authentication Key	:	•••••		
	Private Protocol :		DES 🗸		
	Private Key :		••••••		
	-System Info				_
	Name : Smart	TAP			
	Location : 133				
Г	Access Settings				_
	Login URL : http:	//172.1	7.127.133/		
L					
				SUBMIT	CANCEL

- **5.** Configure System Information:
  - Name

- Location
- Login URL- this login is used for logging into the SmartTAP 360° Live Web interface from OVOC (Device Information Page). Enter the SmartTAP Server **Public** IP address.

#### White Listing 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 white list 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>	$\checkmark$	
Field Field Field CRL Distribution Points Subject Key Identifier SCT List Key Usage Thumbprint Friendly name 7e45a.d2284a515c133a3872	Value Client Authentication (1.3.6.1 [1]CRL Distribution Point: Distr 72260c9a17b60acb251023a4 v1, f65c942fd1773022145418 Digital Signature, Key Encipher 7e45ad2284a515c133a3872b *.meetinginsights.net b5e62e145d8da9cd0	~
[	Edit Properties Copy to File	
	0	<

Figure 6-78: 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

```
"CertificateExpired": {
"IsOn": true,
"MibName": "acGaCompCertificateExpiredAlarm",
"ThresholdAndSeverityList": [
{
"Threshold": "30",
"Severity": 4
},
{
"Threshold": "2",
"Severity": 5
}
],
"IgnoreList": [
"245c97df7514e7cf2df8be72ae957b9e04741e85",
"7f88cd7223f3c813818c994614a89c99fa3b5247",
"18f7c1fcc3090203fd5baa2f861a754976c8dd25",
"02faf3e291435468607857694df5e45b68851868",
"a43489159a520f0d93d032ccaf37e7fe20a8b419",
"cdd4eeae6000ac7f40c3802c171e30148030c072",
"75e0abb6138512271c04f85fddde38e4b7242efe",
"be36a4562fb2ee05dbb3d32323adf445084ed656",
"dac9024f54d8f6df94935fb1732638ca6ad77c13",
"75e0abb6138512271c04f85fddde38e4b7242efe",
....
],
"WhiteList": [
"1234-5678-90abc-def1",
"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 \*\*\*\*\*\*

# **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 140
- Update an Admin User on page 144
- Reset User Password on page 145
- Modify a User Password on page 145
- Uploading an Image on page 146
- ► 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	¥	Legal Hold	OFF	
Security Profi	les			Groups		
administrator agent supervisor		*		APAC Sales APAC Suppor Default EMEA Sales EMEA Suppor NA Sales NA Support Sales Support		•
					SUBMIT	CANCEL

Figure 6-79: Adding a User

- 2. Enter the user's First Name.
- 3. Enter the user's Last Name.
- Optionally enter the user's email (SmartTAP 360° Live 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° Live is configured for LDAP, any SmartTAP 360° Live attributes mapped to AD attributes will be auto populated.

11. Click 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° Live 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.

Table 6-2	7: Adding	a User
-----------	-----------	--------

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 Profiles and then the Security profile at the top of the range and then the Security profile at the bottom of the range.</shift></crtl>
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 thebottom of the range.</shift></crtl>
<b>.</b>	Reset Password – displayed only when modifying a user.

Field	Description
	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.

# **Sending Email**

The Email screen allows the network administrator to send emails directly from the SmartTAP 360° Live 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

Figure 6-80: New Email

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>
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.

## Table 6-28: Email Field Descriptions

# **Managing Groups**

This section describes how to manage groups:

- Adding a Group below
- View and Modify Groups on page 112

## Adding a Group

This section describes how to add a new 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).

Figure 6-81: A	dd Group
----------------	----------

Add Group	
Group Name Group Description	
Show Inactive Users/Devices NonMembers	Members
Adar, Tania agenttest1 aitest, aitest Alyil veedu dhruva, Fnu Analytics User, Analytics User AutoAttendant Bauer, Eric	>> </td
Available Groups	Sub Groups
Agents-Test Analytics Company XYZ COO Default Demo Engineering ▼	>>
	SUBMIT

**2.** Use the table below as reference.

Table 6-29:	<b>Group Screen</b>	Settings
	Group Screen	Jettings

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.

Field	Description
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.
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>
SUBMIT	Apply the changes.
CANCEL	Cancel changes
Ē	Delete Group – displayed only when you modify an existing group.

- **3.** Enter the Group Name.
- 4. Enter the Group Description.
- 5. From the list of NonMembers select the users and move them to the Members side by clicking the buttons in between the NonMembers and Members windows.
- 6. (Optionally, Sub Groups for the Group just being added can be entered from the Add Group screen).
- 7. Click SUBMIT

## **View and Modify Groups**

This section describes how to view and modify groups.

## > To view/modify a Group:

1. Open the screen View/Modify Group screen as shown in the figure below.

#### Figure 6-82: View/Modify Group

- - -

	Figure 6-83:		
View/Modify Groups			
Name	Description	Modify	Delete
Default	Default group		ā
rachels			
rachels test video			
rachelsTest	testingAAD		
racheltest3			
test4			

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

In this screen you can change or delete existing groups. Use the table below as reference.

Field	Description
Name	Group name displayed. Clicking ▶ to the left of the Name expands the group to show the sub groups.
Description	Description of the group displayed
	Click to modify the group.
Ē	Click to delete the group.

#### Figure 6-84: View/Modify Groups – Field Descriptions

#### > To modify/delete a group:

- 1. In the Modify Group screen, change the Membership by moving users to/from the Members window.
- 2. Change the Sub Groups by moving Groups to/from the Sub Groups window.
- **3.** Click SUBMIT to apply changes, or click the button to delete the group.

## **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° Live resources.

Adding a Security Profile on the next page

Viewing or Modifying a Security Profile on page 116

### **Adding a Security Profile**

This section describes how to add a Security Profile.

### > To add a Security Profile:

1. Open the Add Security Profile screen (Users> Security Profile >Add Security Profile).

### Figure 6-85: Add Security Profile

Add Security Profile	
Security Profile Name	
Security Profile Description	
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 groups	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	
	SUBMIT CANCEL

2. Use the table below as reference.

### Table 6-30: Security Profile Settings

Field	Description
Security Profile Name	The name of the new security profile.
Security Profile Description	Description of the new security profile.
Call and Instant	Message 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	Select this option to allow users with this security profile to access calls

Field	Description
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.
Evaluate Calls	Select this option to allow users with this security profile to evaluate 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 160.
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.

Field	Description
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 360° Live Web interface.
SUBMIT	Apply changes.
CANCEL	Cancel changes.
Ē	Delete Security Profile – displayed only when you modify an existing profile.

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

Click

8.

## Viewing or Modifying a Security Profile

This section describes how to modify a Security Profile.

## > To view/modify Security Profiles:

1. Open the View/Modify Security Profiles screen.

View/Modify Security Profiles				
Name	Description  \$	Permissions	Modify	Delete
STQATeam	SmartTAP QA Team			
ST-load-test-dynamic-rename	ST-load-test-dynamic			
supervisor	Supervisor	Tag calls Download Media Related to a call Live Monitor Email Media Related to a call Access calls within user's groups Play Media Related to a call		Ē
agent_ROD_SOD	Agent	Tag calls ROD/SOD other users Download Media Related to a call Live Monitor Email Media Related to a call Access calls within user's groups Play Media Related to a call		Ē
ST-Teams-Users				
administrator	Administrator	Create and modify users and groups Tag calls Download Media Related to a call Access all calls Email Media Related to a call Configure system Play Media Related to a call		Ē
	20 🗸 📢 📢 1	▶> ▶1 (1 of 1)		

Figure 6-86: View/Modify Security Profiles



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.

## Figure 6-87: Modify Security Profile

Modify Security Profile	
Security Profile Name	administrator
Security Profile Description	Administrator
Call and Instant Message Permissions	
O No Call or Instant Message Access	Play Media Related to a call
Access all calls and instant messages	Download Media Related to a call
$\bigcirc$ Access calls and instant messages within user's grou	ps 🗹 Email Media Related to a call
igtarrow Access user's own calls and instant messages	Tag calls
	Live Monitor
	ROD/SOD other users
Configure system	
Create and modify users and groups	

**3.** Use the table below as reference.

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 modify the Security Profile.
	Click to delete the Security Profile.

### Table 6-31: View/Modify Security Profiles Main Screen

## **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. TheRecording 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
- Video and Screen Sharing enable if Video and Screen Sharing recording are 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:

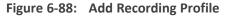
- Adding a Recording Profile on the next page
- Viewing or Modifying Recording Profiles on page 125
- Assigning Recording Profile to User or Device on page 127
- Managing Recordable Devices on page 129
- Recording Profile-Call Type Configuration Examples on page 131

## Adding a Recording Profile

This section describes how to add a recording profile.

### > To add a Recording Profile:

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



Recording Profile Name		
Recording Profile Description		
Call Recording Type None Video Desktop Sharing Pause or Resume		
Call type		
Applicable for MSFT Teams, Skype for Business and Lync A/V Recording		
All		
Internal V Incoming V Outgoing		
PSTN 🗹 Inbound 🗹 Outbound Federated 🗸 Inbound 🗸 Outbound		
Calls with Internal Conferences		
Teams Queue Calls (conference mode) * * Applicable for MSFT Teams only		
Applicable for Skype for Business 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:	
Announcements Applicable for Skype for Business and Lync A/V Recording. 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 V 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  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	
Record Announcement		
Don't Play Announcement Destination Numbers : 911		
Block Calls on Announcements Unavailablity		
Applicable for MSFT Teams only		
Recording Notification Enable on all recorded calls (default)		
-Recording Beep Tone	- Malia Deven Carrier	
Applicable for Skype for Business and Lync A/V Recording. Beep can be played on the calls which media traverse	es media Proxý Server	
Play Beep Tone		
Instant Messaging		
Applicable for MSFT Teams, Skype for Business and Lync A/V Recording		
Record Instant Messages		

- 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 playto the Calling party, the Answering party orboth 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 playto 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) on page 247

- See example configurations in Example Announcement Server Scenarios on page 252
- 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.
	Full Time: (supported for Audio, Video, Instant messages and Video and Screen Sharing) automatic recording of complete call will begin from start of call with no user action required.
	Record on Demand: (supported for audio) recording will commence from a specific point in the call that the user decides to record.
	Save on Demand: (supported for Audio, Video, and Video and Screen Sharing) recording will contain audio and/or video from the beginning

#### Table 6-32: Recording Profile

Field	Description
	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° Live Skype for Business Toolbar on page 231 Audio/Video recording can be triggered from the GUI Status page or from the Skype for Business CWE toolbar.
	For Microsoft Teams, SmartTAP can be integrated into the Microsoft Teams client as a Personal App (Refer to Step 8 Setup SmartTAP Personal App in the <i>SmartTAP 360° Live Deployment Guide</i> ).
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° Live Web interface status page or from the Skype for Business CWE toolbar.
Instant Message	AutomaticInstant Message recording for both Skype for Business recordings and Microsoft Teams recordings.
Video and Screen Sharing Recording	Recording of Video and Screen Sharing sessions is currently supported with Full time or Save on Demand recording type.
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° Live users and devices regardless of the users or devices location (intranet, internet, mobile device).



The call types described in the table below are relevant forMicrosoft Teams, Skype For Business; Audio; Video and and Screen Sharing recording.

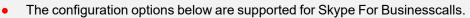
Field	Description
All	Record all calls that the recording profile user participates in as calling party. This option is enabled by default or when a new recording profile is created.
Internal (incoming, out- going)	Internal calls are calls made between the recording profile user or device and other users 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.
PSTN (inbound, out- bound)	PSTN calls are those 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.
Federated (inbound, out- bound)	Federated calls are those calls made between the recording pro- file user and federated domain users. To record Federated calls that the user receives, select the "Inbound" option. To record Federated calls that the user makes, select the "Outbound" option. This option covers calls between the user and the fed- erated conference bridges according to the selected directions.
Calls with Internal Con- ference	Record Skype for Business calls with an Internal conference bridge in the Enterprise domain.
Teams Queue Calls (conference 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.
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

	~ ~~		_
Table	6-33:	Call	Type

Field	Description
	user or device with the network mapping attributes that are associated with the response group (the Response Group URI). 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",a 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, con- tinues with the numbers. The maximum length of the numbers and the regular expression fieldis 2048 characters. This configuration is applicable to Skype for Business integrations.

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

Table 6-34:	Announcements
-------------	---------------

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- ference server is currently not supported"

Field	Description		
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 outgoing legs of the call, both call legs are recorded and two record- ing licenses are consumed for the announcement part of the call recording.		
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)		
	Disable All: Recording notifications are disabled on all calls (visual and audio notifications)		
	Disable PSTN: Recording notifications are disabled on PSTN calls (visual and audio notifications)		
	Note: 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</li> </ul>		

Field	Description
	<ul> <li>example, PSTN_Inbound.wma</li> <li>ANN and IVR files must be pre-saved to the StateMachineConfig folder on the ANN server: see 'Step 3-Configuring Announcement Server (Skype for Business)' in the SmartTAP 360° Live Installation Guide.</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 360° Live 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).

View/Modify Recording Profiles						
Name \$	Description 🗘	Call Recording Type	Video Recording	IM Recording Type	Desktop Sharing Recording	Modify
Full Time	Full Time recording profile	FULL_TIME	Enabled	FULL_TIME	Disabled	ø
IM and FT Audio	IM and full time audio recording	FULL_TIME	Disabled	FULL_TIME	Disabled	
R.O.D	Record On Demand	RECORD_ON_DEMAND	Disabled	NONE	Disabled	
Video SOD	Save on demand video and voice call recording	SAVE_ON_DEMAND	Enabled	NONE	Disabled	
S.O.D	Save on Demand	SAVE_ON_DEMAND	Disabled	NONE	Disabled	Ø
FULL_TIME_PR	Full time with Pause and Resume	FULL_TIME	Disabled	NONE	Disabled	
Sales Department	Sales Department	FULL_TIME	Enabled	NONE	Enabled	
ROD_with_IM		RECORD_ON_DEMAND	Disabled	FULL_TIME	Disabled	Ø
Video FT	Full time video and voice call recording	FULL_TIME	Enabled	FULL_TIME	Enabled	
Test		NONE	Disabled	NONE	Disabled	
IM only	IM only recordings	RECORD_ON_DEMAND	Disabled	FULL_TIME	Disabled	Ø
FT_AUDIO_DS	FT- Audio Desktop Sharing	FULL_TIME	Disabled	NONE	Enabled	
FULL_TIME_A_V_DS	Full time voice, video, desktop sharing	SAVE_ON_DEMAND	Enabled	NONE	Enabled	
	20 🔻	□ ≪ 1 ▷>	▶1 (1 of	1)		

Figure 6-89: View/Modify Recording Profiles
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2. Use the table below as reference.

## Table 6-35: View/Modify Recording Profiles – Field Descriptions

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	Recording Profile description sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Audio Recording Type	Full Time, Record on Demand or Save on Demand.
Video Recording Type	Full Time or Save on Demand.

Field	Description
IM Recording Type	Full Time or None
Video and Screen Sharing Recording	Full Time or Save on Demand
	Click to modify 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° Live. 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° Live 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.

Add Users to Recording Profiles		
No Recording Profile		Recording Profiles
Adar, Tania agenttest1		Test
aitest, aitest		<u>ــــــــــــــــــــــــــــــــــــ</u>
Alyil veedu dhruva, Fnu Analytics User, Analytics User		
AutoAttendant	>>	
Bauer, Eric		
Broker, Analytics	>	
Burke, Aemon	<	
Campos, Jose		
Carosella, Gino conf-aitest(conf-aitest)	<<	
Conlon, Tom		
Da Silva, Sandy		
DCI		<b>v</b>
Dutta, Debajyoti		
EMEA, Oncall-1		Video FT
EMEA, Oncall-2		
Erps, Mike Garg, Amrita		
Groh, Gerald	>>	
Herberger, Steven		
Honig, Menachem	>	
Hopkins, Steve	<	
Howell, Donald		
Hunter, Daryl	<<	
Ilyaev, Ina(Inai) Johnson, Johnson		
Jones, Bob		
Jones, Jones		<b>T</b>
Joseph, Liziya(Manually Added )		
Kitlaru, Yaniv		Video SOD
Kling, Brian		A
Lobby Phone Makowski, Jerry		
Marrocchi, Ulises (ulisesm)	>>	
Mast, Danielle		
Menachem Honig-USA		
Munoz, Fernando	<	
NCR	<	
NJ-Somerset-Conf-RM(NJ-Somerset-Conf-RM)		
Orta, Alejandro Osterberg, Mattias		
Perpinyal, Avi		
Phutane, Rutuja(Manually Added)		· · · · · · · · · · · · · · · · · · ·
		SUBMIT CANCEL
		CANCEL

Figure 6-90: Add Users to Recording Profiles

2. Use the table below as reference.

## Table 6-36: Add Users to Recording Profiles Screen

Field	Description
No Recording Profile	List of available Users / Devices in SmartTAP 360° Live 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.

Field	Description
<<	Remove a selected user / device from a specific recording profile.
SUBMIT	Apply changes.
CANCEL	Cancel changes.

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

### Managing Recordable Devices

This section shows how to manage recordable devices.

#### > To add a Recordable Device:

 Open the Add Recordable Device screen (Users tab > Recording Profile > Add Recordable Device).

Add Recordable Device				
Name		De	escription	
Туре	select type	• T	EL URI_3	
Tel URI			Tel URI 2	
Retention Policy	Default	Recordi	ng Profile	None •
Availab	le Groups	Ass	signed Group	)5
Default Enginee MOA C NCR COO Analytic Demo	ering ust Service	▲ >> > >> < < < <		×
				SUBMIT CANCEL

Figure 6-91: Add Recordable Device

- 2. [Use the table below as reference] Enter a Name for the device.
- **3.** Enter a Description for the device.
- 4. Select the Type from the dropdown menu.

- 5. From the list of Available Groups, select the groups and move them to the Assigned Groups by clicking the > / >> buttons.
- 6. Click Submit to apply changes.

### Table 6-37: Recordable Device – Settings Descriptions

Field	Description
Name	Name of the new recordable device.
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.
Ē	Delete Device – displayed only when you modify an existing profile.

## > To view/modify a Recordable Device:

1. Open the View/Modify Recordable Device screen as shown in the figure below.

View/Modify Recordable Devie	ces			
<b></b>				
Name	Description	Select	≎ ▼ Modify	Delete
Lobby Phone	Ext 5001	PHONE		Ō
NCR	NCR Support	OTHER		Ē
DCI	DCI Support	PHONE		Ē
AutoAttendant	Corp AutoAttendant	ACD		Ē
Menachem Honig-USA		PHONE	Ø	Ē
	20 🔻 🖪 💌	> > (1 of 1)		

Figure 6-92: View/Modify Recordable Devices

2. Use the table below as reference.

### Figure 6-93: View/Modify Recordable Devices – Field Descriptions

Field	Description
Name	Recordable device name sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Description	Recordable device description sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
Туре	Type of recordable device sorted ascending/descending by clicking header up/down arrows. If defined, the field entry displays only matching entries.
	Click to modify the Security Profile.
Ē	Click to delete the Security Profile.

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

This section describes configuration examples for different call type settings.

Record inbound PSTN calls:

Call type					
Applicable for MSFT Teams, Skype for Business and Lync A/V Recording					
Internal	Incoming	Outgoing			
PSTN	Inbound	Outbound			
Federated	Inbound	Outbound			
Calls with Internal Co	onferences				
Teams Queue Calls (d)	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: (	

## Record all PSTN Calls:

Call type			
Applicable for MSFT Teams, Skype	e for Business and Lync A/V R	Recording	
		-	
Internal	Incoming	Outgoing	
PSTN	🗹 Inbound	Outbound	
Federated	Inbound	Outbound	
Calls with Internal Co	nferences		
Teams Queue Calls (c	onference mode) *		
* Applicable for MSFT Teams or			
	,		
Applicable for Skype for Business	and Lync A/V Recording		
Referred by Response G	roup		
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	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 (c	conference mode) *		
* Applicable for MSFT Teams o			
Applicable for Skype for Business	and Lync A/V Recording		
Referred by Response G	roup		
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:**

All         Internal       Incoming       Outgoing         PSTN       Inbound       Outbound         Federated       Inbound       Outbound         Calls with Internal Conferences	Call type Applicable for MSFT Teams, Skype	e for Business and Lync A/V F	lecording		
Federated       Inbound       Outbound         Calls with Internal Conferences       Teams Queue Calls (conference mode) *         * Applicable for MSFT Teams only       Applicable for Skype for Business and Lync A/V Recording	Internal				
Teams Queue Calls (conference mode) *  * Applicable for MSFT Teams only  Applicable for Skype for Business and Lync A/V Recording	Federated	Inbound	_		
Applicable for Skype for Business and Lync A/V Recording					
	* Applicable for MSFT Teams o	nly			
	Applicable for Skype for Business	and Lync A/V Recording			
Referred by Response Group	Referred by Response G	roup			
Filter Calls User Receives :       List Type : Block v       Numbers:       Regular Expression:         Filter Calls User Makes :       List Type : Block v       Numbers:       Regular Expression:					

# Adding a Device Attribute

This section describes how to add a SmartTAP 360° Live device attribute. The table below describes the purposes of these attributes.

Attribute Purpose	Priority	Description
Trigger Recording	Critical	To designate to SmartTAP 360° Live what to use to trigger recording. (i.e., Add SIP_URI attribute and provide a value to be assigned to the device. If the device makes a SIP call, SmartTAP 360° Live will trigger a recording based on the SIP_URI). See also below.
Provide Additional device Info	Optional	Add additional information to the device account within SmartTAP 360° Live, for example, Ext, Tel URI, Mobile, etc. for information purposes only. See also Adding a General Device Attribute on the next page.

 Table 6-38:
 SmartTAP 360° Live Device Attributes

Enhance the integration by mapping SmartTAP 360° Live attributes to Active Directory attributes to auto populate device information within SmartTAP 360° Live. To map a device attribute to an Active Directory device attribute, see Configuring an LDAP Connection on page 87

Table 6-39:	User Attributes
-------------	-----------------

User Attribute	Description
Name	Unique easily identifiable name to the attribute.
Description	Brief Description of the attribute.
Network	Indicates whether attribute mapping is required. When selected, the

User Attribute	Description
Mapping	'Network Mapping Type' drop-down list is available.
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

You can add the following types of attributes:

- Adding a General Device Attribute below
- Adding a Device Attribute for Recording on the next page
- Adding a Microsoft Teams AAD User Attribute on page 136

### **Adding a General Device Attribute**

This section describes how to add a general device attribute. A general device attribute is not used for recording purposes.

#### > To add a general device attribute:

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

#### Figure 6-94: Add General Device Attribute

Add User Attribute	
Attribute Name	
Attribute Description	
Network Mapping	
	SUBMIT CANCEL

- 2. Enter the Attribute Name.
- **3.** Enter the Attribute Description.
- 4. Leave the Network Mapping option cleared.
- 5. Click SUBMIT to apply new device attribute or CANCEL to exit.

#### Adding a Device Attribute for Recording

This section describes how to add a recording device attribute.

> To add a device attribute for recording purposes:

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

Following are examples of device attributes created for recording purposes:

#### Figure 6-95: Add Device Attribute - Example 1

Add Device Attribute	
Attribute Name	SIP URI
Attribute Description	SIP URI
Network Mapping	
Network Mapping Type	SIP_URI •
	SUBMIT CANCEL

Figure 6-96: Add Device Attribute - Example 2

Add Device Attribute	
Attribute Name	Ext
Attribute Description	Extension Number
Network Mapping	
Network Mapping Type	EXTENSION •
	SUBMIT CANCEL

#### 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° Live on page 271).

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° Live user to Object ID attribute:

- 1. Open the Add Device Attribute screen (Users > User Management > Add Device 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'.

#### Figure 6-97: Add User Attribute

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.
- Associate the Object ID attribute to the relevant Microsoft Azure id attribute (see AAD User and Group Mapping on page 271).
- 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-8b3c-8(</td><td>Object ID</td><td>e-4ddc-8f4c-800adb71926db</td></tr><tr><td></td><td>TeamsUserId</td><td></td><td>Retention Policy</td><td>Default 🗸</td></tr><tr><td></td><td>Recording Profile</td><td>SOD 🗸</td><td>Legal Hold</td><td>OFF</td></tr><tr><td>Security Pro</td><td>files</td><td></td><td>Groups</td><td></td></tr><tr><td>administrator</td><td></td><td>A</td><td>Default</td><td>▲</td></tr><tr><td>agent</td><td></td><td></td><td>Sales</td><td></td></tr><tr><td>Custom supervisor</td><td></td><td></td><td>Support</td><td></td></tr><tr><td></td><td></td><td>-</td><td></td><td>-</td></tr><tr><td></td><td></td><td></td><td>SL</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></script>	

### Figure 6-98: Configure Teams User ID Attribute

# 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	– Profile	None 🗸
	Legal Hold	OFF	Recording license	
Security Profi	les		Groups	
administrator agent supervisor			Default	
		<b>*</b>		· · · · · · · · · · · · · · · · · · ·
				SUBMIT CANCEL

# Figure 6-99: Add User

# Table 6-40: 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.

Field	Description
	Click to modify the user.
	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.** Clickto 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
			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 🗸 🗔 📢 1 2 3	4 5 🕨 🕨 (1 of 5)			

# Figure 6-100: View Modify Users List

View/Modify Users					
<del>\</del>					
First Name	\$ Last Name	Email 🗘	Login ID	Modify	Delete
Initial	User (PLEASE DELETE)	notauser@nodomain.com	admin		1
Shirel			$Shirelchen. Megidish\_audiocodes. com \#EXT \# @SmartTAP.onmicrosoft.com$		Ī
ST-Teams10			ST-Teams10@smarttap.onmicrosoft.com		Ī
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		Ī
ST-Teams20			ST-Teams20@SmartTAP.onmicrosoft.com		Ē
ST-Teams21			ST-Teams21@SmartTAP.onmicrosoft.com		Ō
ST-Teams22			ST-Teams22@smarttap.onmicrosoft.com		Ō
TeamsTestUser2			TeamsTestUser2@ai-logix.net		Ī
			20 V is << 1 >> > > (1 of 1)		

# Figure 6-101: Users List Displaying Licensed Users

2. Use the table below as reference to search for a specific user to modify.

	-				
Modify User					
	First Name	user100		Last Name	SIPREC Teams
	Email	user100@fanta.local		Login ID	user100
	Alias			OID	3b47f7f8-bd88-4cd7-a9
	userName	user100		Retention Policy	Default v
	Recording Profile	Audio	•	Legal Hold	OFF
	Recording license				
Security Profiles				Groups	
administrator		^		Default	^
agent					
supervisor					
		~			
				SUBMIT	CANCEL 🔝 💼

Figure 6-102: View/Modify Users

# Table 6-41: 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.
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.

Field	Description
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.
	Click to modify the user.
Ī	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 adjacent to the user that you wish to change.
- 4. Modify the fields to change.
- 5. Click SUBMIT to apply changes.

### 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 68).

## > 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	Cogin Id     Cogin Id	SIP URI \$	TEL URI	Modify	Delete
Tania	Adar (admin)	admin			Ø	Ē
Tania	Adar (x3051)	tadar	sip:user3051@lcent4.local	tel:+17005553051;ext=3051	Ø	Ī
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				
Barbara	Warner	bwarner				
		20 🔻 🖂	1 🕨 🖬 (1 of 1)			

Figure 6-103: Modify User

- 3. Update the user information (First name, Last name, Email, Login Id).
- 4. Make sure the email is a valid email.
- 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.

#### **Reset User Password**

This section describes how to reset user passwords.

#### **To reset a user password:**



Only users who belong to profiles with 'Create and modify users and groups' privileges are allowed to reset other users' passwords. All users can reset their own passwords.

- Open the View/Modify Users screen (Users tab > Users folder > User Management > View/Modify Users).
- 2. Open the Modify User screen by clicking in the View/Modify User main screen display for the user to reset password.
- **3.** Click the **Reset Password** button.

### **Modify a User Password**

This section describes how to modify a user password.

### **To modify a user password:**

 Open the Change Password screen (Users tab > Users folder > User Management > Modify Password).

Modify Password	
Current Password	
New Password	
Confirm	
	SUBMIT

Figure 6-104: Change Password

- 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 6-105: Change Password

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

The only method to regain access to the SmartTAP 360° Live system after a password is lost is for a user with Add/Modify privileges to reset this user password.

# Uploading an Image

This section describes how to upload an image.

#### > To upload an image:

Select this option to upload your own image.

### Figure 6-106: Upload User Image

Upload User Image	
	SMARTTAP
+ Select Image	J Upload Ø Cancel

#### > To upload an image

- **1.** Click the Browse button and navigate to the appropriate folder to select the image.
- 2. Click **Upload** to load the image or click Clear to select a different image.

# **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, allsuccessfully recorded.

Calls	between 5/16/21 11:	02 AM and 5/30/21 11:02 AM							
▼ Ca	Ills								
4	]								<b>I</b>
	Name 🗘	Start Time 🗘	Duration 0	Direction O Select V	Calling Party	Called Party	Release Cause O Select V	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>v</b>
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		INCOMING	CONFERENCE	ST-Teams11			<b>Ø</b>
0	ST-Teams11	May 29, 2021 3:23:00 PM	00:02:29	INCOMING	CONFERENCE	ST-Teams11	NORMAL		0
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		
0	ST-Teams11	May 27, 2021 4:12:58 PM	00:03:13	INCOMING	CONFERENCE-ST-Teams14@smarttap.onmicrosoft.com	ST-Teams11	NORMAL		
0	ST-Teams14	May 27, 2021 4:12:48 PM	00:02:56	INCOMING	CONFERENCE-ST-Teams13@smarttap.onmicrosoft.com	ST-Teams14	NORMAL		
0	ST-Teams13	May 27, 2021 4:12:42 PM		INCOMING	CONFERENCE	ST-Teams13			<b></b>
					10 V 14 44 1 2 3 4 5 99 91 (1 Total calls: 5786	of 579)			
Selec	t a call								00:00:00   00:00:00
				0.00		1			
0.2		5.0						4 -	

# Figure 6-107: Call Search

System	Users	Status							
Calls	Calls Messages								
• Search C	▼ Search Criteria								
Custom Dates	v 1	A V							
From: PM	From: 12/31/20 8 v 57 v PM v 1/20/21 9 v 57 v								
To: PM									
_	ers 🔄 Inaci vices 🗌 Inaci								
Users/D Users/Devi Select All	evices 🔵 Gr ices:	oups							
ST-Teams1	00								
TeamsTest		14 - 142							
		(1 of 1)							
Call Parties Calling									
Called									
Answered									
Call Tags:	gs 🗌 Inacti	ve Tags							
Tag Name	Tag	Value							
Select One	~								
		Sea	arch						
• Saved Se	arches								
No records	s found.								
I (1 of 1)									

# Figure 6-108: Search Calls Navigation Screen - Calls Tab

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.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 dropdown, change the time of day.
Active Users	Users whose accounts are enabled in the SmartTAP 360° Live system.
Inactive Users	Users whose accounts have been deleted from the SmartTAP 360° Live system.
Active Devices	Devices that are not associated with users enabled in the SmartTAP 360° Live system and can be targeted for recording.
Inactive Devices	Devices that have been deleted from the SmartTAP 360° Live 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, highlight the name; multiple 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
	732* will return all calls that start with 732 *Bill will return all calls with a user participant with a name that contains the word 'Bill'.
Call Tags	Select one or more Tags and provide a value to enhance search.
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 search for calls:

- 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)

Figure 6-109: Search Criteria-Last Two Days

▼ Search Criteria								
Last Da	Last Days V 2							
From: To:	11/24/19 7 V 07 V PM V 11/26/19 7 V 07 V PM V							
🗹 Acti	Active Users Inactive Users Active Devices Inactive Devices Users/Devices O Groups							
-	Users/Devices:							
John Smith								
	shirel M							

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.

<ul> <li>Search Criteria</li> </ul>					
Custom Dates 🗸 2					
From: 11/24/19 6 v 00 v PM v To: 11/26/19 12 v 00 v PM v					
Active Users Inactive Users Active Devices Inactive Devices Users/Devices Groups Users/Devices: Select All					
John Smith					
shirel M					
14 <4 >> >1 (1 of 1)					

Figure 6-110: Calendar Search

- 4. Select the type of Users and Devices.
- 5. Select either the Users/Devices or Groups Radio button.
- 6. Selecting the User/Devices option changes the display below to show a list of Users/Devices.
- **7.** 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).
- 8. 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).
- 9. Optionally, specify a Calling, Called and/or Answered party.
- 10. 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".

Coudiocodes sma	rt <b>TA</b>	<b>P</b> 360°	<b>* ?</b>										LEASE DELETE	) 🔤 🎽	C+ Voice
ystem Users Status	Calls • Ca		24/19 06:41 PM and 11/2	06/19 06:41 PM											
Calls Messages															
Search Criteria															
st Days v 2		Name	Start Time 0	Answered	© Released	Ouration 0	Direction Select	Calling Party	Called Party	Answering Party	Recording Type	Tags	Hedia Type Select v	Media Status 0	Media Statu Reason
11/24/19 6 41 4 PH 4 11/26/19 6 41 4	0	John Smith	Nov 26, 2019 12:38:39 PM	Nov 26, 2019 12:38:40 PM	Nov 26, 2019 12:39:07 PM	00:00:28	OUTGOING	pool1usr010	shireltest3	shireltest3	FULL_TIME	0		A	No Media
PH U	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 Users Inactive Users Active Devices Inactive 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	shireltest3	shireItest3	FULL_TIME	Ø		0	None
Users/Devices O 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	pooliusr010	shireltest3	shireItest3	FULL_TIME	Ø		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	shireitest3	FULL_TIME	Ø		0	None
hn Smith irel M	0	John Smith	Nov 26, 2019 11:36:11 AM		Nov 26, 2019 11:36:29 AM	00:00:18	OUTGOING	pool1usr010	7001		FULL_TIME	Ø			None
14 44 Ho H1 (1 of 1)	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	Ø			None
l Parties: lling	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	Ø			None
lled	0	John Smith	Nov 26, 2019 11:22:39 AM	Nov 26, 2019 11:22:45 AM	Nov 26, 2019 11:23:04 AM	00:00:25	OUTGOING	pool1usr010	shireltest3	shireItest3	FULL_TIME	Ø		0	None
swered	o	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	pooliusr010	shireltest3	AnnouncementsApp- s4b-2015-site1	FULL_TIME	Ø		0	None
I Tags: Active Tags							10		2 3 🔛 🖬	(1 of 3)					
g Name Tag Value	John	Smith 11/26	i/19 12:38:39 PM					101	Calls. 20					0	0:00:00   00:00:2
Search															
Saved Searches															
	_		2.70			8.10			13.50		18.90			24.30	
	0.2		5.0					(4)	• •					- 	
		1.0						0	00						

Figure 6-111: Retrieved Calls List for Specific User

**11.** Optionally, specify a Call Tag & Value.

Figure 6-112: Call Tags

Call Tags: Active Tags	ΠI	nactive Tags	
Tag Name		Tag Value	
ActionItem	T	Schedule Meeting	
Search			

**12.** 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 6-113: Call Tags							
Call Tags: Active Tags	Inactive Tags						
Tag Name	Tag Value						
ActionItem	Insert Row Delete Row						
Search							

Call Tags: Active Tags		nactive Tags
Tag Name		Tag Value
ActionItem	•	Schedule Meeting
Company	۲	AudioCodes
Search		

13. 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'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.

acaudiocodes sma	art <b>TA</b>	<b>P</b> 360°	* 6	3										1	nitial Use	r (PLEASE DELET	E) EN 🗸	C+ Voice/
System Users Status			6/19 06:51 PM and	11/26/	19 06:51 PM													
Calls Messages	• Ca	alls																III
· Search Criteria																		
Last Days 🗸 🕹		Name	Start Time	٥	Answered	•	Released	٥	Duration 0	Direction © Select U	Calling Party	Called Party	Answering Party	Recording Type	Tags	Hedia Type Select v	Media Status 0	Media Status Reason
rom: 11/24/19 6 51 5 PM 5 11/26/19 6 51 5	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	pooliusr010	7001	7001	FULL_TIME	0		0	None
0: 11/26/19 6 U 51 U PH U										10 .	1 .	→ → (1 of 1)						
Active Users											Total calls	1						
Active Devices Inactive Devices	Sele	ct a call																00.00.00   00.00.09
Users/Devices O Groups ers/Devices: Select All																		
John Smith							Call Tags											
shirel M	1		0.90				Tag		Date Add	ed /	dded By Valu	e Private	+	6.30	- 1 -		8.10	
							Person Call		Nov 26, 21 6:49:04	19 Initial M	User (PLEASE tru DELETE)							~ 4
14 44 P> P1 (1 of 1)	0.2	-	5.0															0.4
	0.2	-0								1 -							-	0 40
II	0.2	1.0					Tag: Se	slect On		1.								λ+ ⊠ ±
Il Parties: alling	0.2	-0					Tag: Se	elect On		1.	(1 of 1)	SUBMIT						
Il Parties:	0.2	-0					Tag: 5	elect On		1.	(1 of 1)	SUBMIT						
III Parties: IIII Parties: IIIIng alled III Targs: JAtive Tags JAtive Tags Jakawa Tag Value	0.2	1.0					Tag: s	elect Or		1.	(1 of 1)	SUBMIT						
III Parties: III Parties: III and the second seco	02	-0					Tag: 5	elect Or		1.	(1 of 1)	SUBMIT						

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

**14.** 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 160.

Field	Description
-	Launches 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	The column represents Call Direction (Incoming, Outgoing). Clicking this header sorts the search results in Ascending/Descending order alternating with each click.Dropdown 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.Dropdown entry shows only the matching results.
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;.
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.
	<ul> <li>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.</li> <li>None</li> </ul>
	Indicates that the call audio has been successfully recorded.
	Indicates that the call video has been successfully recorded.

# Table 6-42: Search Calls Results

Field	Description
	Indicates that the Video and Screen Sharing has been successfully recorded.
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. 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).
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".
Display Video	Displays the video screen. When you select the button, the recorded video is replayed.
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 SFB client.
Tags	Identifies whether tag have been defined for the call as follows
	Indicates that no tags are associated with a recording
	Indicates that a tag has been associated with a recording.
Media Status	Corresponding Media Reason

Field	Description
Reason	
None	None - Indicated when there are no media files and the call was not answered i.e. Abandoned or Missed.
	None – There are no reasons.
<b>A</b>	Silent Media – Indicates when media files associated with the call are silent; the packets were received however didn't carry audio.
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.
	Deletion
	Pending Deletion

#### > 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 6-115: Add/Remove Columns from the Search Call Results Screen

Add and Remove Columns			
Available Columns	Selected Columns		
Answer Time Release Time Calling Party Called Party Answering Party Dialed Digits	<ul> <li>User/Device Start Time</li> <li>Duration</li> <li>Direction</li> <li>Release Cause</li> <li>Trigger Time</li> <li>Recording Type</li> </ul>		
	Update Cancel	//	

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.

# Table 6-43: Add and Remove Columns – Field Descriptions

# > 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.

# Table 6-44: Add and Remove Columns

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.

Field	Description				
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.				
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 releated as a result of being transferred				
Recording Type	<ul><li>Full Time</li><li>Record on Demand</li><li>Save on Demand</li></ul>				
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.				

Field	Description
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 assigned 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.

# **Saving Search Queries**

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

selecting the in the bottom right-hand corner of the screen. 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.

# Figure 6-116: Save Search Query

Save Search Query		
	Name Last Two Days	
		Submit Cancel

<ul> <li>Saved Searches</li> </ul>	
·	
calling 1 10	X
calling 1 26	×
calling 2 26	X
LAST day calling 1 26 9 columns	×
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	X
I4 ≪4 ▶> ▶I (1 of	1)

#### **Deleting Calls and Instant Messages**

SmartTAP 360° Live 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 113).

- This feature is enabled through the SmartTAP 360° Live Call Deletion license (SW/SMTP/CALLDEL)
  - If a user in on Legal Hold, their Calls and Instant Messaging cannot be deleted (seeManaging Users on page 106)
  - 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 149).
- 2. Select the button adjacent to each call that you wish to delete. The button becomes red



Only the filtered and selected recordings are deleted.

# Figure 6-117: Delete Calls

Image: Smith, John         Dec 31, 2019 9:38:41 AM         00:00:17         OUTCOING         NORMAL           Image: Smith, John         Dec 31, 2019 0:54:19 AM         00:00:15         INCOMING         NORMAL	
Image: Start Time         Duration         Direction         Release Cause         O           Image: Start Time         Image: Start Tima         Image: Start Time         Image: Star	
Image:	·
Image: Smith, John         Dec 31, 2019 10:54:19 AM         00:00:15         INCOMING         NORMAL	Media Type Select V
Image: Smith, John         Dec 31, 2019 11:20:50 AM         00:00:00         INCOMING         MISSED	
Image: Smith, John         Dec 31, 2019 11:28:00 AM         00:09:07         OUTGOING         NORMAL	
Image: Smith, John         Dec 31, 2019 12:26:36 PM         00:00:11         OUTGOING         NORMAL	
Image: Smith, John         Dec 31, 2019 9:38:42 AM         00:00:15         OUTGOING         NORMAL	
Image: Smith, John         Dec 31, 2019 10:54:20 AM         D0:00:14         INCOMING         NORMAL	
Image: Smith, John         Dec 31, 2019 11:21:00 AM         D0:00:16         INCOMING         NORMAL	
Image: Smith, John         Dec 31, 2019 12:09:04 PM         00:00:12         INCOMING         NORMAL	
Image: Smith, John         Dec 31, 2019 9:38:57 AM         00:00:15         OUTGOING         NORMAL	
10 V 4 4 1 2 3 4 5 V H (1 of 5) Total calls: 43	

3. Click , a confirmation dialog is displayed:

#### Figure 6-118: Delete Calls Confirmation

Delete Calls		
Total 11 calls records retention cycle.	are selected for deletion. These calls will be proce	ssed in the next
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 6-119: 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 6-120: Deleting Instant Messages

Instan	t Messages between !	9/1/19 12:2	3 AM and 1/1/20 02:23 AM				
Ē	]						
	User \$		First Message Time	٥	Last Message Time 🗘	Messaging Parties	Chat Type 🗘 Select 🗸
0	Smith, John	1	Dec 31, 2019 12:11:39 PM		Dec 31, 2019 12:13:57 PM	Taylor, Bob; Smith, John	CHAT
0	Taylor, Bob	1	Dec 31, 2019 12:11:39 PM		Dec 31, 2019 12:13:57 PM	Taylor, Bob; Smith, John	CHAT
			100 🗸	1 [	I → ►I (1 of 1	.)	

# **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° Live 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

#### Figure 6-121: Audio Player Screen

	t, Brad 5/28/17 7:02:45 AM ADY		_		00:00:00   00:00:30
	a dia anti-	nie fangensterel at fangen fangens ondersteren.			der bestellte fil bes findes bestel stattes bestellt
	3.00	8.99	14.98	20.97	28.98
0.2	5.0 1.0		<ul><li>(4) (b)</li></ul>		<b>⊣</b> ————————————————————————————————————

Field	Description
	Call details for the selected call
	Volume control
internationale de la constant de la	Status and other information (see more information below).
$\triangleright$	Playback the entire recording or a selected segment.
(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 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. Configure Export File Columns  Available Columns  Selected Columns  Released  Triggered  Duration  Calling Party Direction  Export Tags  Export Tags
	Email audio call information. When this option is selected, the Email Audio dialog opens. See Sending Email on page 109
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 149
Ł	Download call information to your PC. When this option is selected, the Download Media dialog opens. See Downloading Call Recordings on page 174

# Table 6-45: Player Screen Overview

### 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 Calls on page 149to 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 entry that you wish to listen.

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.



#### Figure 6-122: 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 6-123: 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 6-126: 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 i.e. 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
  - TheTarget 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\download
  - In case, media is stored in Azure Blob, media files are downloaded to server and then processed

# 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 inSearching for Calls on page 149 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.

System Users Status			/16/20 09:08 AM and 7/16/20	10608 AM									
Calls Messages	< -a	ills											
		Î											
Search Criteria	÷ 🗠												
ustom Dates 💙 1		۵	Name	٥	Start Time	٥	Duration	٥	Direction 0 Select v	Release Cause	•	Media Type SHARING	~
om: 7/16/20 9 V 08 V AM V ; 7/16/20 10 V 08 V AM V	0	Đ											
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 O 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			
IT-Teams10	0	ē	ST-Teams37		Jul 16, 2020 9:50:56 AM		00:02:08		INCOMING	NORMAL			
iT-Teams12	0	1	ST-Teams33		Jul 16, 2020 9:50:55 AM		00:02:09		INCOMING	NORMAL		<b></b>	
iT-Teams13 iT-Teams14	0	ē	ST-Teams11		Jul 16, 2020 9:32:56 AM		00:02:08		INCOMING	NORMAL			
T-Teams17	0	1	ST-Teams13		Jul 16, 2020 9:32:56 AM		00:02:08		INCOMING	NORMAL		<b></b> _	
T-Teams18 T-Teams19	0	6	ST-Teams14		Jul 16, 2020 9:32:55 AM		00:02:10		INCOMING	NORMAL		<b></b>	
iT-Teams20							10 🗙 🕫 🖬 1	2 +	+ + (1 of 2)				
T-Teams21							Total	calls: 18					

Figure 6-127: Media Type-Video and Screen Sharing with Teams

s between 7/1/18 03:02 PM and 1/22 Calls	/19 05:02 PM					
Name	Start Time	Duration	Direction Select	Release Cause	Tags	Media Type SHARING
Mast, Danielle	Dec 26, 2018 11:25:47 AM	00:00:13	INCOMING	NORMAL	<b>I</b>	
Kling, Brian	Nov 21, 2018 4:13:29 PM	00:07:24	INCOMING	NORMAL	0	
Kling, Brian	Nov 21, 2018 4:11:55 PM	00:01:25	OUTGOING	NORMAL	Ø	
Kling, Brian	Nov 13, 2018 5:01:44 PM	00:14:08	OUTGOING	NORMAL	0	
Kling, Brian	Nov 13, 2018 4:57:32 PM	00:03:48	INCOMING	NORMAL	$\bigcirc$	
Adar, Tania	Sep 26, 2018 3:31:53 PM	00:01:50	INCOMING	NORMAL	Ø	
Dutta, Debajyoti	Sep 25, 2018 6:23:26 PM	00:06:31	INCOMING	NORMAL	Ø	
Adar, Tania	Sep 24, 2018 9:52:35 PM	00:03:52	OUTGOING	NORMAL	0	
Adar, Tania	Sep 24, 2018 9:37:51 PM	00:03:24	OUTGOING	NORMAL	$\bigcirc$	
Adar, Tania	Sep 24, 2018 9:32:46 PM	00:04:06	OUTGOING	NORMAL	$\bigcirc$	
		10 V is a 1	2 📂 🖬 (1 of 2) alls: 11			
lect a call						00:00:00   00:0
0.000			DO	0.00		0.00

### Figure 6-128: Media Type-Video and Screen Sharing with Skype for Business

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

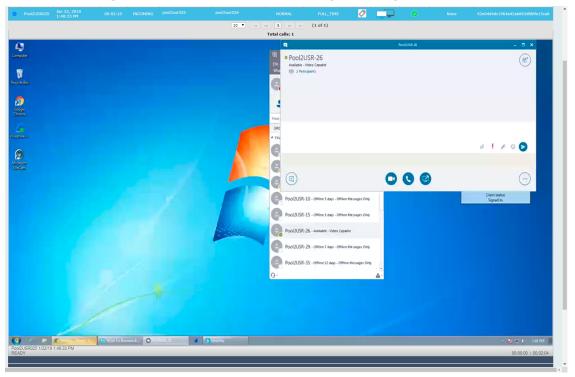


Figure 6-129: Video and Screen Sharing Recording

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

Computer	🕲 Skype for Business Basic 🗕 🗆 🗙	
	File Meet Now Iools Help	
8	What's happening today?	bounSky 🗆 🖲 🖾
	Posi2USR-26 - 🗆 🗙	File Help 2015
Pool2USR-26	(8*)	1 Pool1USR007
Available - Video Capable	(a) (a)	2 PoolUSR026
Google 855 2 Participants	Q	3 Pool2USR026
0		4 Pool2USR025
Without	8°	5 Pool3USR010
In Carlos		6 Pool3USR026
Ð		7 user10_stlab
Minister	and a second	8 user30_stlab
a long das session with duration greater than min. from pool 2 us	r 25 to user 26 pool 2	9 C8Pro3
	0 ! 8 © 🔊	
You're sharing your screen. Stop Sharing	×	Client status: Signed In
	POOLZUSK-ZO - Available - Video Capable	
	Pool2USR-29 - Offine 7 days - Offine Messages Only	
	Pool2USR-35 - Offline 12 days - Offline Messages Only	
	Q: A:	
		Pool2USR025 1/22/19 1:48:33 PM
🚱 🧟 🛤 🗑 Meeting - Player - G 🚱 Stype for Business B 🔘 Pool2USA-26 🖉 🕼 bounSky		- 🔯 😥 🚯 148 PM
Pool/2USR025 1/22/19 1:48:33 PM PLAYING		00:00:40   00:02:02
		00.00.40 1 00.02.02
12.19 30.56	00.04 85.31	100.00
0.2 5.0	() (I) ()	(ib) (inter-
4.8		

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 tothe start point of the selection. You must then click

thebutton to playback the selected segment.

# **Time Line View**

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

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

**1.** Follow the instructions described inSearching for Calls on page 149Searching for Calls on page 149 to search for calls.

ᆃ									i 🔳 🕨
Name	٥	Start Time \$	Duration	¢ Se	Direction	•	Release Cause	\$	Media Type
D John Smith		Dec 2, 2019 2:19:50 PM	00:00:10		OUTGOING	loonad	NORMAL	Louised	
D 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		
D 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		
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		
John Smith		Dec 2, 2019 2:18:04 PM	00:00:11		OUTGOING		NORMAL		
			10 🗸 🕫 🕫 1 2	3 4	5 😥 ы (1 of 19)				
			Tota	l calls: 1	82				
elect a call									00:00:00   00:0
	.00	0.00		0.00			0.00		0.00
		· · · · · ·							
1.0	5.0		•		$ \mathbf{\bullet} $				H

#### Figure 6-130: Calls List

2. Select the Timeline view icon. A screen similar to the following is displayed:

#### Figure 6-131: Select User in Timeline View

Calls between 11/25/19 05:33 PM and 12/2/19	9 05:33 PM					
User/Device						
John Smith						
		5 🗸	1 et et 1 P> PI (1	of 1)		
			Total users: 1			
▼ Selected Calls						
₹						
User/Device	Start Time	Duration	Direction	Release Cause	Media Type	Remove
			Please choose calls from timeline			
			Load			
Select a call						00:00:00   00:00:10
						00.00.00 1 00.00.10
1.00	3.00		5.00	7.00		9.00
			0			
0.2 5.0			۵ (۲)			ii iii
						🚺 Q+ 🖂 🗄

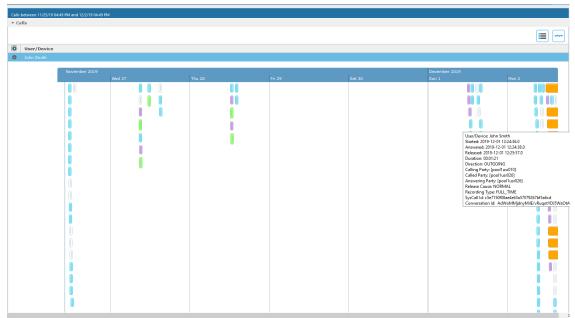
**3.** Select the arrow adjacent to the User/Device whose timeline you wish to view. The Calls List is displayed:





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



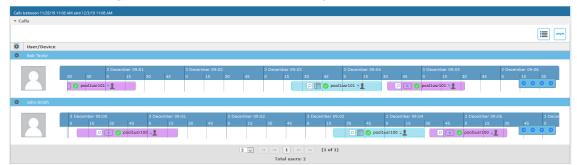


5. Zoom in on a specific day to view the details using either the mouse roller or the navigation buttons that are highlighted below.

#### Figure 6-134: Zoom In

Ca	lls between 11/25/19	05:33 PM and 12/2/19 05:33 PM												
*	Calls													
														i <b>=</b>
0	User/Device													
C														
	2	Wednesday 27 Novemb 08:36	08:37	08:38	08:40		08:42	08:43	08:44	08:45 pool1usr026	08:46	08:47	08:48	08:49
					5 🗸		1	1 of 1)						
						Т	otal 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.



#### Figure 6-135: 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

#### Table 6-46: Call Events Description

Media Type	Description
pool2usr	Represents an Audio call.

Media Type	Description
P 🕨 🗸 pool2ı	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.

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	$\mathbb{C})$	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	<b>\$</b>	Indicates an incoming call.
	<b>\$</b>	Indicates an outgoing call.

Table 6-47: Call Icons

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

Figure 6-136: Load Media Player

	0		,			
User/Device						
Bob Taylor						
2	3 December 09:03 3 December 09:04 3 Dece 30 45 0 15 30 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 30 45 0	ember 09:06 15 30 45	3 December 09:07 3 D 0 15 30 45 0	December 09:08 15 30 45	3 December 09:09 0 15 30 0 0 0 0
John Smith						
2	3 December 09:01 3 December 09:02 30 40 50 0 10 20 30 40 50	3 December 09:03 0 10 20 30 44	3 December 09:0 50 0 10 2 poollusr100 =	4 3 December 10 30 40 50 0 10	20 30 40 50	3 December 09:06 0 10 20 0 0 0 0
		5 🗸 🖂 📢 1	l 🕨 🕨 (1 of 1)			
		Total	users: 2			
Selected Calls						
2						
User/Device	Start Time	Duration	Direction	Release Cause	Media Type	Remove
Bob Taylor						
		L	oad			
Select a call						00:00   00:00
	0.00		0.00	0.00		0.00
2	8.0	•	••			¥0
						🖬 Q+ 💌 🛛

The selected files are loaded to the Media Player.

Figure 6-137: Loading Files to Media Player

User/Device					
Bob Taylor					
2	3 December 09:03 3 December 09:04 3 Dece 30 45 0 15 30 45 0 0 10 10 10 10 10 10 10 10 10 10 10 10 10	amber 09:05 3 December 09:06 15 30 45 0 15 30 ar101 - 1	3 December 09:07 45 0 15 30 45	3 December 09:08 0 15 30 45	3 December 09:09 0 15 30 0 0 0 0
John Smith					
2	3 December 09:01 3 December 09:02 30 40 50 0 10 20 30 40 50	3 December 09:03 3 0 10 20 30 40 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 20 30 40 50 0	scember 09:05 10 20 30 40 50	3 December 09:06 0 10 20
		5 🗸 🖂 📢 1 🔛 🖬	(1 of 1)		
Display Video		Total users			
Selected Calls					
User/Device	Start Time	Duration Direc	tion Release Cause	Media Type	Remove
Bob Taylor	Dec 3, 2019 9:03:21 AM	00:01:07 OUTG	DING NORMAL		
		Load			
b Taylor 12/3/19 9:03:21 / DADING	4M				00:00:00   00:01
6.	10 18.30	30.60	42.70		.90
		••••••••••••••••••••••••••••••••••••••	4270		

Figure 6-138: Files Ready to Play

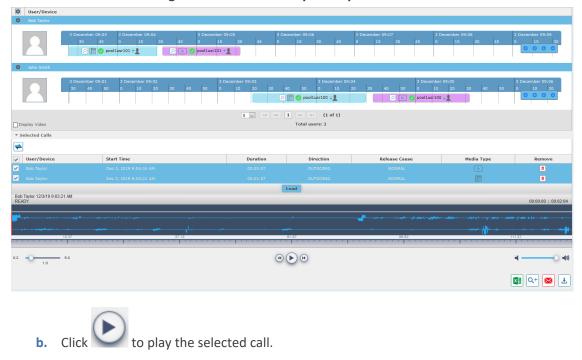


Figure 6-139: Play Call

User/Device						
Bob Taylor						
30		15 30 45 0	ember 09:06 15 30 45	3 December 09:07 3 0 15 30 45 0	December 09:08 15 30 45	3 December 09:09 0 15 30 0 0 0 0
John Smith						
3 Dece	mber 09:01 3 December 09:02 40 50 0 10 20 30 40 54		3 December 09 50 0 10	:04 3 Decemb 20 30 40 50 0 11	20 30 40 50	3 December 09:06 0 10 20 0 0 0 0
		5 🗸 🖂 🖂 1	. >> >1 (1 of 1)			
Display Video			Total users: 2			
<ul> <li>Selected Calls</li> </ul>						
≠						
✓ User/Device	Start Time	Duration	Direction	Release Cause	Media Type	Remove
<ul> <li>Bob Taylor</li> </ul>						۵
Bob Taylor	Dec 3, 2019 9:03:21 AM	00:01:07	OUTGOING	NORMAL		
		L	oad			
Bob Taylor 12/3/19 9:03:21 AM PLAYING						00:00:06 + 00:02:
•••••••••••••••••				- All and a second s		
12.37	37.12		1.87	88.82		111.37
0.2		()	(I) (e)			н
						💶 Q+ 💌 🛃

## **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 on page 149 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	Duration
Johnson, Bob		Dec 31, 2018 1:56:38 PM	00:00:29
Duration Calls Audio Segments Video Segments			
□ Video □ Sha ● Basic ○ Adva	_		
File Format			
WAVE			
О МРЗ			
○ WEBM			
			SUBMIT CANCEL

#### Figure 6-140: Basic Audio Download

Calls between 12/1/18 09:38 AM and 1/2/19 11:38 AM					
Download Media				×	
Agent Johnson, Bob		Started Dec 31, 2018 1:55:48 PM	Durat 00:00:		
Duration Calls Audio Segments	00:00:28 1 2				
🔘 Basic 🖲 Adva	nced				
<ul> <li>File Format</li> <li>WAVE</li> <li>MP3</li> <li>WEBM</li> </ul>					
<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>	1	Audio Mixing <ul> <li>Mono</li> <li>Multi-Track</li> <li>Stereo</li> </ul>			
			SUBMIT	CANCEL	

#### Figure 6-141: Advanced Audio Download

## **Downloading a Video Call**

This section describes how to download a video call.

### > To download a video call:

- **1.** Follow the instructions in Searching for Calls on page 149 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.

Calls between 12/1/18 09	Calls between 12/1/18 09:38 AM and 1/2/19 11:38 AM				
Download Media				×	
Agent		Started	Durat	tion	
Johnson, Bob		Dec 31, 2018 1:56:38 PM	00:00:	29	
Duration Calls Audio Segments Video Segments	00:00:29 1 2 2				
<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 6-142: Basic Video Download

Calls between 12/1/18 09	9:38 AM and 1/	/2/19 11:38 AM		
Download Media				$\mathbf{X}$
Agent Johnson, Bob		<b>Started</b> Dec 31, 2018 1:56:38 PM	Durat 00:00:	
Duration Calls Audio Segments Video Segments	00:00:29 1 2 2			
🗌 Video 📄 Sha 🔘 Basic 🖲 Adva				
● 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 <ul> <li>Mono</li> <li>Multi-Track</li> <li>Stereo</li> </ul>		
			SUBMIT	CANCEL

## Figure 6-143: Advanced Video Download

## Downloading a 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 inSearching for Calls on page 149 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			
Kling, Brian	Nov 13, 2018 5:01:44 PM	00:14:	08		
Duration	00:14:08				
Calls	1				
Sharing Segments	1				
🗆 Video 🗹 Sharii	ng				
🖲 Basic 🔘 Advanc	ed				
File Format					
WAVE					
🔍 мрз					
WEBM					
		SUBMIT	CANCEL		

## Figure 6-144: 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 Sign	Add a Digital Signature to download call. SeeConfiguring a Digital Signature on page 67 for	Advanced
	more details. This feature is only supported for Audio downloads.	
Audio Encoding	Option to select the encoding of the downloaded file:	Advanced
	ALAW	
	MPEG1L3	
	Opus	
	PCM_Signed	
	ULAW	
Video Encoding	VP8	Advanced

Field	D	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.

# **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' (see Searching for Calls on page 149 to find the call to email.
- 2. Select the call entry to email and then click the email button ; the Email screen opens.

## Figure 6-145: Email Screen

Calls between 12/1/18	12:01 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 6-48: 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.

Field	Description
Attachments	List of attachments included with this email message. Clicking the X next 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 the Evaluation Feature**

The Evaluation tab accesses all functions related to the SmartTAP 360° Live 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					
<b>_</b>	- New Form					
D	ame: escription: Add					
	Name (click to change) 🗘	Status	Finalized Date ᅌ	Modify	View/Copy	Delete
	Agent Scoring	FINAL	Apr 24, 2018		Q	
*	Agent Scoring Draft	DRAFT	N/A		Q	Ē
*	Agentscoring 002	DRAFT	N/A	Ø	Q	Ō
	Customer Service	FINAL	Nov 17, 2014		Q	
*	<u>guy yest</u>	DRAFT	N/A	Ø	Q	Ō
	Sales	DRAFT	N/A		Q	Ē
	test	FINAL	Sep 7, 2017		Q	
	(1 of 1)	I	« <b>1</b> » H	10 🔻		

Figure 6-146: Evaluation Forms – New Form Subscreen

Use the table below as reference.

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

#### Table 6-49: Evaluation Forms – New Form Subscreen

This section includes the following procedures:

- Adding a New Evaluation Form below
- Viewing and Copying an Evaluation Form on page 186
- Adding a New Section [Evaluation Forms] on page 187
- Adding Questions and Answers to an Evaluation Form on page 188
- Finalizing Forms on page 191

## 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 Scorir	Agent Scoring				
D	escription:	Agent Scorir	Agent Scoring Evaluation form				
(	Change Cancel						
	Name (click to change) 💲	Status	Finalized Date 🗘	Modify	View/Copy	Delete	
	Agent Scoring	FINAL	Apr 24, 2018		Q		
*	Agent Scoring Draft	DRAFT	N/A		Q	Ō	
*	Agentscoring 002	DRAFT	N/A		Q	Ī	
	Customer Service	FINAL	Nov 17, 2014		Q		
*	<u>guy yest</u>	DRAFT	N/A	Ø	Q	Ē	
	Sales	DRAFT	N/A		ρ	Ē	
	test	FINAL	Sep 7, 2017		Q		
	(1 of :	1) 14	≪ 1 ⊳ ⊧	10 🔻			

## Figure 6-147: Evaluation Forms

## Table 6-50: 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	(date) (Date when the form was finalized)			
	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.

## Figure 6-148: View/Copy Evaluation

- Section Greeting			
Q: a: Yes a: No	1 pt. 0 pt.		
Q: a: Yes a: No	1 pt. 0 pt.		
The agent identified themselves to the custo <b>Q:</b> <i>a:</i> Yes <i>a:</i> No	omer 1 pt. 0 pt.		
The agent stated that the call is being recor <b>Q:</b> <i>a:</i> Yes <i>a:</i> No	ded 1 pt. 0 pt.		
- Section Account Verification			
The agent verified account       a: Yes       a: No	1 pt. 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 6-149: Sections of Evaluation Form – New Section Sub-screen

Sections of Evaluation Form: Agentscoring 002						
- New Se Name: Description Add Section	ection					
	Name (click to change)	Max. Points	Weight	Modify	Delete	Move
	Greeting	4	80%	Ø		up <u>down</u>
	<u>Account</u> <u>Verification</u>	1	20%			<u>up down</u>
*	<u>djgztd</u>	0	0%			<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.
- 4. 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 6-51: 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 6-150: Sections of Evaluation Form – New Questions Sub-screen

Questions of Evaluation Fo	orm: Agentscorin	g 002 Section	: Greeting		
- New Question	]				
Question: Description: Add Question					
	Ques (click chan	k to	Add Answer	Delete	Move
Q		the		Ē	up <u>down</u>
Q	2:	ed their			<u>up down</u>
Q		<u>es to</u>		Ē	<u>up down</u>
Q		at the ing		Ē	<u>up</u> down
			Back		

## Table 6-52: 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 on the row listing the Form to change, to open it.
- 3. Click on the row listing the Section to change, to open it.
- 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 6-53: 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 on the row listing the Form to change, to open it.

- 3. Click on the row listing the Section to change, to open it.
- 4. Click on the row listing the Question to launch the Answer screen.

Figure 6-151: Sections of Evaluation Form - New Answer Sub-screen

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

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 6-152: Form Subscreen

Sections of Evaluation Form: Agent Scoring Draft						
- New Section						
Description: Add Section						
	Name (click to change)	Max. Points	Weight	Modify	Delete	Move
	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 6-54: Select Evaluation Form Screen

#### Figure 6-153: Call Search/Selection Evaluation Form

Calls between 1/2/19 0	3:01 PM and 1/2/19 05:01 PM				
		- Selection Criteria			
From: To:	1/2/19 3 V 01 V PM V 1/2/19 5 V 01 V PM V	Users: Johnson, Bob Johnson, Johnson Jones, Bob Jones, Jones Joseph, Liziya(Manually Added ) Kitlaru, Yaniv Kiling, Brian Makowski, Jerry Marrocchi, Ulises (ulisesm) Mast, Danielle			
		Search			
+					
User 🗘	Started           Started         Duration         Image: Started         Image: Started <th image:="" start<="" td=""><td>Direction         Call         Release Cause         Media Type         Evalu           Select         ▼         Select         ▼         Evalu</td></th>	<td>Direction         Call         Release Cause         Media Type         Evalu           Select         ▼         Select         ▼         Evalu</td>	Direction         Call         Release Cause         Media Type         Evalu           Select         ▼         Select         ▼         Evalu		
No records found.					
	20	▼ I4 <4			

#### Table 6-55: Call Search/Evaluation Form – Field Descriptions

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

Field	Description
	pop up showing one month at a time. Use the dropdown to change the time of day.
Users	Users whose account is enabled in SmartTAP 360° Live.
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 dropdown 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	<ul> <li>The Media Type of the call. One of the following values:</li> <li>Audio</li> <li>Video</li> <li>Video and Screen Sharing</li> <li>None</li> </ul>
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.

Field	Description
Continue	Continue previously started Evaluation.
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:

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

Figure 6-154: Select Evaluation Form

Select Evaluation Form		
Name 🗘	Description	Select
Customer Service	Evaluate service team, quality of answers, responsiveness and ability to resolve customer issue even when customer may be hostile	Select
test		Select
Agent Scoring	Agent Scoring Evaluation form	Select
	(1 of 1) (4 (4 1 (>> (+) 10 ()	

### Figure 6-155: Evaluation Form User Selection

Calls between 1/6/19 01:51 PM and 1/6/19 03:51 PM							
	- Selection Criteria						
	Users: [Ilyaev, Ina(Inai)						
	Johnson, Bob						
	Johnson, Johnson Jones, Bob						
From: 1/6/19 1 V 51 V PM V	Jones, Jones Joseph, Liziya(Manually Added )						
To: 1/6/19 3 ¥ 51 ¥ PM ¥	Kitlaru, Yaniv						
	Kling, Brian Makowski, Jerry						
	Marrocchi, Ulises (ulisesm)						
	Search						
User $\diamond$ Started $\diamond$ Duration $\diamond$	Direction         Release Cause         Media Type         Evaluation           Select         ▼         Select         ▼         Evaluation	Jate					
	No records found.						
20 V II II II (1 of 1)							

- 2. Select the user to evaluate, select a search date rangeand 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.

				Select	ion Criteria			
	From:	6/1 1/6			EMEA, Oncall-2 Erps, Mike Garg, Amrita Groh, Gerald Herberger, Steve Honig, Menacher			
					Hopkins, Steve Howell, Donald Hunter, Daryl Ilyaev, Ina(Inai)	Search		
	User	\$	Started \$	Duration 🗘	Direction 🗘 Select 🔻		Media Type Select V	Evaluate
)	Johnson,	Bob	Dec 31, 2018 1:32:49 PM	00:00:31	OUTGOING	NORMAL		New
	Johnson,	Bob	Dec 31, 2018 1:36:04 PM	00:00:17	OUTGOING	NORMAL		New
	Johnson,	Bob	Dec 31, 2018 1:55:48 PM	00:00:28	OUTGOING	NORMAL		New
	Johnson,	Bob	Dec 31, 2018 1:56:38 PM	00:00:29	OUTGOING	NORMAL		New
		Bob	Dec 31, 2018 1:59:54 PM	00:01:17	OUTGOING	NORMAL		New
	Johnson,							

Figure 6-156: Select Call to Evaluate

4. Click

on the row of the call to evaluate.



Perform Evaluation : Customer Service				
ohnson, Bob 2018-12-31 13:36:04.0 READY				00:00:00   00:00:12
EADY				00:00:00   00:00:12
	3.72	8.19		11:15
	1			
1.0 5.0		(() () () () () () () () () () () () ()		
Evaluee: Johnson, Bob				Total Evaluation Score: 0 out of 100 (0%)
Section: Introduction	Section: Introduction Sco	re: 0 out of 40 (0%)		
Questions	Answers	Score	Notes	
Did the agent use the expected opening greeting?	Choose One	0 out of 10		
Did the agent verify and update customer information?	Choose One	0 out of 10		
How attentive was the agent with listening to the customer?	Choose One	0 out of 20		
Section: Problem Identification	Section: Problem	Identification Score: 0 out of 30 (0%)		
Questions	Answers	Score	Notes	
How well did the agent communicate at an understandable rate and sound positive?	Choose One	0 out of 10		
How well did the agent seem to empathize with the customer?	Choose One	0 out of 10		
How 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 3	30 (0%)		
Questions	Answers	Score	Notes	
Did the agent review the call and get customer's approval of resolution?	Choose One	0 out of 10		
Did the agent ask if there was anything else they could help them with?	Choose One	0 out of 10		
Did agent thank the customer for their business?	Choose One 🔻	0 out of 10		
	2	Save as Draft Save as Final		

Table 6-56: Perform E	Evaluation Screen
-----------------------	-------------------

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.
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	Dropdown 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 Save as Final 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 6-158: 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 6-57: 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 dropdown 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 dropdown 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 dropdown 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 dropdown entry shows only the matching results.			
Date		cking this header sorts the search results in ler alternating with each click.		
	View         Click to view evaluation; the View           Evaluation screen opens.         Evaluation screen opens.			
	Continue Click to continue evaluation; the Perform Evaluation screen opens.			
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	*
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.

ſ	Export		
	×	<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 6-159: Average Score Report

Average score report. Form: Customer Service for period between 1/1/2015 and 5/23/2016							
- Report Filter	· ]						
Customer Service V Create Report					*		
Name \$	Evaluations	Introduction 🗘	Problem Identification 🗘	Closing 🗘	Total 🗘		
Da Silva, Sandy	1	35	27	30	92		
Export Data • Aver • All	age						

## Table 6-58: 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° Live; can be changed by the user.						
То:	Search before this call date(s). Automatically populated by SmartTAP 360° Live; can be changed by the user.						
List of users	List of evaluees. Automatically populated by SmartTAP 360° Live; 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.						

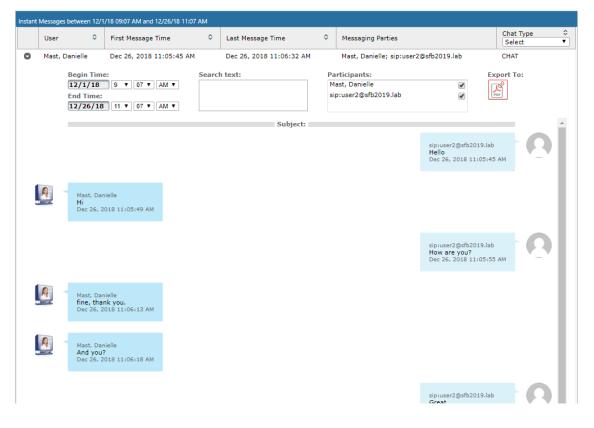
# **Managing Instant Messages**

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		Instan	t Messages	betwee	n 6/1/18 02:55 PM and 1/2/19 04:	55 PM					
Calls	Messages	Evaluation	<		User	٥	First Message Time	٥	Last Message Time 🗘	>	Messaging Parties	Chat Type Select	\$ •
Erom: 6/1	/10 2 -		-	0	Adar, Ta	ania	Nov 21, 2018 8:28:48 PM		Nov 21, 2018 8:32:38 PM		sip:debajyoti.dutta@audiocodes.com; Adar, Tania	CHAT	
From: 6/1/18 2 V 55 V PM V To: 1/2/19 4 V 55 V PM V				0	Adar, Ta	ania	Nov 21, 2018 7:59:02 PM		Nov 21, 2018 8:05:41 PM		Adar, Tania; sip:alejandro.orta@audiocodes.com	CHAT	
	ers 🗌 Inactive	Users							10 🔻 🛤 📢 🚺		▶> ▶1 (1 of 1)		
Users	Groups												
Users:													
Adar, Tania													
agenttest1													
aitest, aites	t												
Alyil veedu	dhruva, Fnu												
	ser, Analytics (	Jser											
Bauer, Eric													
Broker, Ana	lytics												
Burke, Aem	on												
Campos, Jo	se												
Carosella, G	Sino												
	ia (a )	<b>FI</b>											
Text:													
Search													

## Figure 6-160: Managing Instant Messages





Syster	n	Users	Status				
Calls	М	essages		<			
From:         1/20/21         9         27         PM         >           To:         1/20/21         11         27         PM         >							
Active	Users	Inactive	Users				
Usen	s O G	roups					
Users:							
Select	All						
ST-Tean	ns100						
ST-Tean	ns30						
ST-Tean	ns31						
ST-Tean	ns32						
TeamsT	estUser	2					
TeamsT	estUser	5-E5					
User (PLEASE DELETE), Initial							
14		►> E	(1 of 1)				
Text:							
Search							

Table 6-59: 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° Live application.
Inactive Users	Users whose account has been deleted from the SmartTAP 360° Live 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.

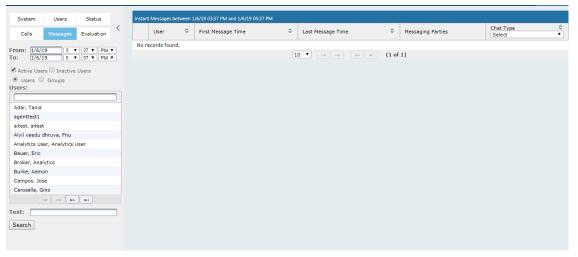
## **Searching for Messages**

This section shows how to search for messages.

#### > To search for messages:

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

Figure 6-162: 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° Live'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 http://dev.mysql.com/doc/refman/5.6/en/fulltext-boolean.html
- 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 on the previous page).

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 each other, measured in words.	"word1 word2 word3" @8'Search for matching messages where word1, word2 and word3 are separated by a distance of 8

## Table 6-61: Operators Supported by MySQL Boolean Full-Text Search

Operator	Description	Example
		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.
11	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° Live, 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 6 User ≎	5/1/18 03:37 PM and 1/6/19 05:37 PM First Message Time 🗘	1 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 V (1 of 1)								

#### Figure 6-163: Search Messages Results-Person-to-Person Chat

### Figure 6-164: Search Messages Results-Group Chat

Instant	Instant Messages between 6/1/18 03:37 PM and 1/6/19 05:37 PM									
	User	\$	First Message Time 🗘	Last Message Time 🗘	Messaging Parties	Chat Type 🗘 GROUPCHAT 🔻				
0	Mast, Dan	ielle	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 V 14 <4 1 >>> >> (1 of 1)									

The search result fields are described in the table below.

Table 6-62: Search Messages Results

Field	Description
User	User name. Clicking this header sorts the search results 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. Clicking this header sorts the search results in Ascending/Descending order alternating with each click.
Messaging Parties	The column represents messaging parties, parties which sent or received the conversation messages.
Chat Type	<ul> <li>The following chat types can be chosen:</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 on page 203).

Instan	t Message	s between 6/	1/18 03:37 PM and 1/6/19 05:37 P	м						
	User	\$	First Message Time	≎ Last I	Message Time	٥	Messaging Parties		Chat Type CHAT	\$ •
0	Adar, Tania Nov 21, 2018 7:59:02 PM		Nov 2	lov 21, 2018 8:05:41 PM sip:alejandro.orta@audiocodes.com; Adar, Tania				CHAT		
		Begin Tin 6/1/18 End Time 1/6/19	3 ▼ 37 ▼ PM ▼	Search tex	et:		Participants: sip:alejandro.orta©auo Adar, Tania		ort To:	
		Adar, Ta Hello Al Nov 21,								•
		Adar, Ta Hello Al Nov 21,								L
								sip:alejandro.orta@audiocodes.co <b>Hi Tania</b> Nov 21, 2018 8:00:16 PM	m	
		#12345	please approve the transact	ion						ł
								sip:alejandro.orta@audiocodes.co Let me check Nov 21, 2018 8:01:03 PM	om 2	
								sip:alejandro.orta@audiocodes.cc yes the transaction is approve Nov 21, 2018 8:01:45 PM	d C	
		Adar, Ta Great!	<sup>inia</sup> Thank you							•
0	Adar, T	ania	Nov 21, 2018 8:28:48 PM	Nov 2	1, 2018 8:32:38 PM	4	sip:debajyoti.dutta@audio	ocodes.com; Adar, Tania	CHAT	
0	Mast, [	Danielle	Dec 26, 2018 11:05:45 AM	Dec 2	6, 2018 1:34:40 PM	4	sip:user2@sfb2019.lab; M	last, Danielle	CHAT	
				50	▼     ≪	1 🕞	▶ (1 of 1)			

# Figure 6-165: Search Messages Results-Person to Person Chat

Instan	t Message	s between 6	5/1/18 03:37 PM and 1/6/19 05:37 P	м				
	User	٥	First Message Time 🗘	Last Message Time 🗘	Messagir	ng Parties		Chat Type
0	Mast, [	Danielle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2	2@sfb2019.lab; Mast, Danielle; sip:u	ıser3@sfb2019.lab	GROUPCHAT
		Begin Ti 6/1/18 End Tim 1/6/19	3 ▼ 37 ▼ PM ▼ e: 5 ▼ 37 ▼ PM ▼	Search text:		Participants: sip:user2@sfb2019.lab Mast, Danielle sip:user3@sfb2019.lab	Export	: To:
		Confere [sip:user	nce Ids: 2@sfb2019.lab;gruu;opaque=a	pp:conf:chat:id:14W62Z79]				
							sip:user2@sfb2019.lał <b>Hello</b> Dec 26, 2018 2:04:48	
	A. Sarra	Hi	Danielle , 2018 2:04:56 PM					
							sip:user3@sfb2019.lal Hello Dec 26, 2018 2:05:08	
							sip:user2@sfb2019.lał How are you? Dec 26, 2018 2:05:26	
!	A	Good	Danielle , 2018 2:05:42 PM					
							sip:user3@sfb2019.lat Great Dec 26, 2018 2:06:40	
				50 🔻 🗔	1 >>	▶ (1 of 1)		

### Figure 6-166: Group Chat Recording

Instant	User	veen 6 ≎	/1/18 04:14 PM and 1/6/19 06:14 PM	M Last Message Time ♀	Messaging Parties			Chat Type	\$
	User	×	First Message Time V	Last Message Time V	Messaging Parties	,		Select	•
0	Adar, Tania		Nov 21, 2018 7:59:02 PM	Nov 21, 2018 8:05:41 PM	sip:alejandro.orta	@audiocodes.com; Ada	ar, Tania	CHAT	
0	Adar, Tania		Nov 21, 2018 8:28:48 PM	Nov 21, 2018 8:32:38 PM	sip:debajyoti.dutta	a@audiocodes.com; Ad	lar, Tania	CHAT	
0	Mast, Danie	lle	Dec 26, 2018 11:05:45 AM	Dec 26, 2018 1:34:40 PM	sip:user2@sfb201	9.lab; Mast, Danielle		CHAT	
	6/ End	in Ti 1/18 Tim 5/19	4 ▼ 14 ▼ PM ▼	Search text:	Particip sip:user Mast, D	r2@sfb2019.lab	Export C	t To:	•
Į	Same /	and yo	Danielle 9 <b>007</b> , 2018 11:06:18 AM				sip:user2@sfb2019.lab <b>Great</b> Dec 26, 2018 11:06:25 AM	Ņ	•
Į	SAMPLAP	lave a	Danielle nice day , 2018 11:06:32 AM						l
						sip:user2@sfb2019.la File: SMARTTA Size: 6150 KB Status: sent Dec 26, 2018 12:24:2	P_Administrator_Guide.pdf	2	l
Į	Same La	hank	Danielle <b>you</b> , 2018 12;28;13 PM						l
							sip:user2@sfb2019.lab You are welcome Dec 26, 2018 12:28:40 PM	<b>Q</b>	Ŧ
0	Mast, Danie	lle	Dec 26, 2018 2:04:48 PM	Dec 26, 2018 2:06:40 PM	sip:user2@sfb201	9.lab; Mast, Danielle; s	sip:user3@sfb2019.lab	GROUPCHAT	
-				10 🔻 🗔 🤜					

### Figure 6-167: 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° Live displays a collection of messages in one conversation based on the time and participants.

### **Specific Considerations for Microsoft Teams Instant Messages**

SmartTAP utilizes Microsoft Graph Teams Export API for recording Microsoft Teams Chat messages. Before you can view Instant Messages, the following Microsoft Teams prerequisites and licenses must be installed:

#### Prerequisites to access Teams Export APIs



Microsoft Beta API, as well as the feature itself are not yet supported for production applications.

#### Features:

- When Editing a chat message, the new message content will be replaced with the original one, and "This message has been edited" will be displayed on top of it.
- When Deleting a chat message, the content of the message will still be displayed, and "This message has been deleted" will be displayed on top of it.
- Clicking 'Undo' on deleted message will be considered as Edited.
- HTML based messages, such as Formatted\Tables\Links are not supported,only the content will be 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)



#### Figure 6-168: Channel Messages

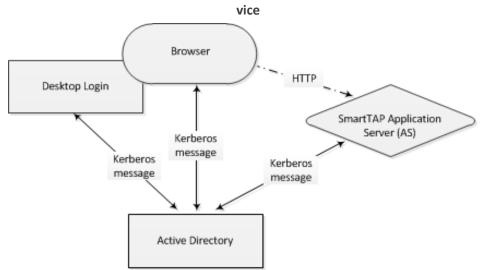
Figure 6-169: Instant Message Display Microsoft Teams

	User	٥	First Message Time	0	Last Message Time	¢	Messaging Parties		Chat Type Select	• •
0	Test	Begin Ti 12/20/20 End Tim 12/20/20	0 12 V 10 V PM V et	Search teo	Dec 20, 2020 2:08:29 PM rt:	Participants: Test ST-Teams100	Test; ST-Teams100	2	CHAT Export To:	
(	0	Attach Name Conte my.sh logx_ Files/a Name Conte my.sh logx_ Conte my.sh	n sending you files. iments: : ettach1.txt ntUri: https://amarttap- arepoint.com/personal/teams net/Documents/Nicrosoft Tea ittach1.txt : ettach3.txt ntUri: https://amarttap- arepoint.com/personal/teams net/Documents/Nicrosoft Tea ittach3.txt : attach2.txt ntUri: https://amarttap- arepoint.com/personal/teams aret/Documents/Nicrosoft Tea sttach2.txt . 2020 20:06:29 PM	ms Chat testuser2_ai- ms Chat testuser2_ai-						

# 7 Single Sign-On for SmartTAP 360° Live

This chapter describes the Single Sign-On functionality for SmartTAP 360° Live. 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 360° Live 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° Live 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 360° Live Web interface and for quick access toto different SmartTAP 360° Live pages.





- 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° Live server.
  - SSO was successfully tested with both Client Users and the SmartTAP 360° Live 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° Live 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° Live database. If they were not manually added, then LDAP must be configured so that SmartTAP 360° Live can validate the user and find the user's Roles/Permissions (see Configuring SSL on page 89

#### 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° Live 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° Live 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° Live server. Must be in the form {machine name}.{domain}. Example: SmartTAP 360° Live.myDomain.local. If a CNAME alias is used to map an unfriendly machine name to a friendlier one such as SmartTAP 360° Live, 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° Live.myDomain.local@MYDOMAIN.LOCAL

Table	7-1:	Terms

# 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}	_
nort domain}	
ealm}	
ostname}	
dc}	
rincipal}	

#### Validate the Hostname to be Used for the Principal Name

A CNAME alias for the SmartTAP 360° Live 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° Live and Wireshark run in order to see what hostname the Client machine will use 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° Live 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° Live does not need this file to be exported. The Client obtains an encrypted version of the keytab and sends it to SmartTAP 360° Live 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° Live 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° Live – 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 ? 🗙
testUser testUser Properties       ? ×         Published Certificates       Member Of       Password Replication       Dial-in       Object         Security       Environment       Sessions         Remote control       Remote Desktop Services Profile         Personal Virual Desktop       COM+       UNIX Attributes       Attribute Editor         General       Address       Account       Profile       Telephones       Organization         User logon name:       @myDomain.local       ▼         User logon name (pre-Windows 2000):       MYDOMAIN1       testUser         Logon Hours       Log On To	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           Attributes:
Account <u>options:</u> User must change password at next logon User cannot change password Password never expires Store password using reversible encryption  Account expires  Never End of: Wednesday, November 26, 2014 ▼	sn testUser userAccountControl 0x10200 = (NORMAL_ACCOUNT   DONT_ userPrincipalName testUser@myDomain.local uSNChanged 320002 uSNCreated 319996 whenChanged 10/27/2014 10:17:25 AM Eastern Daylight 1 whenCreated 10/27/2014 10:17:25 AM Eastern Daylight 1 €dt
OK Cancel Apply Help	OK Cancel Apply Help

#### Figure 7-2: Before Running the ktpass Command

testUser testUser Properties ? 🗙	testUser testUser Properties
Published Certificates       Member Of       Password Replication       Dial-in       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: Im	Published Certificates       Member Of       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:       Attribute       Value       •         Attribute       Value       •       •         objectSid       S-1-5-21-2092303587-4016032574-4140064       •         pimmaryGroupID       513 = (GROUP_RID_USERS)       •       •         pwdLastSet       10/27/2014 10:33:28 AM Eastern Daylight 1       •         servicePrincipalName       HTTP/smarttap.myDomain.local       •       •         userAccountControl       0x10200 = (NORMAL_ACCOUNT   DONT_       •       •         u
OK Cancel Apply Help	OK Cancel Apply Help

Figure 7-3: 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° Live Application Server to use for authenticating clients login attempts. The SSO User is only to be used within SmartTAP 360° Live and should not be used to log into any machine on the domain, including the SmartTAP 360° Live 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}.

New Object - User	×
Create in: myDomain.local/Users	
Password:	
Confirm password:	
User must change password at next logon	
✓ User cannot change password	
Pass <u>w</u> ord never expires	
Account is disabled	
< <u>B</u> ack <u>N</u> ext > Ca	ncel

Figure 7-4: Create a New Domain User

#### 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° Live 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° Live.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 {username}.
Key created.
```

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° Live server, logging out is unnecessary.

The command parser sometimes gets invalid characters when copy/pasting the command. If you see the error **unknown option 'Oprinc'**. 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° Live 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° Live 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.

# Single Sign-On Client Browser Settings

After enabling SSO on SmartTAP 360° Live, 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 on the next page
- Enabling Firefox Browser with IWA on page 222

#### Enabling Chrome Browser with IWA on page 223

### **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				?	×
General	Security	Privacy	Content	Connections	Programs	Advar	nced
Select a	a zone to v	view or cha	ange securi	ity settings.	_		- 1
	2	1	•	/ (	$\mathbf{O}$		
Inte	ernet	.ocal intra	net Trust		stricted sites		
	Local ir	ntranet			City		
			websites t	hat are	Site	:5	
2	found or	n your intr	anet.				
Secur	ity <u>l</u> evel fo	or this zone	2				
		tom					
		ustom sett To change	-	gs, click Custon	n level.		
				ided settings, o		level.	
	Enable Pr	otected M	lode (requi	res restarting I	nternet Exp	lorer)	
			Cus	tom level	<u>D</u> efault	level	
				<u>R</u> eset all zone	s to default	level	
			Oł	Ca	ancel	Арр	bly

Figure 7-5: Internet Properties

2. Click Local intranet > Sites.

Figure	7-6:	Sites
--------	------	-------

🍖 Local intranet		×
٢	Use the settings below to define which websites are included in the local intranet zone.	
<ul> <li>Automatically detect intranet network</li> <li>Include all local (intranet) sites not listed in other zones</li> <li>Include all sites that bypass the proxy server</li> <li>Include all network paths (UNCs)</li> </ul>		
<u>What a</u>	re intranet settings? Advanced OK Cancel	

3. Click Advanced -> Enter the tenant specific URL for the SmartTAP portal into the Websites text box.

Figure 7-7: Tenant URL

🍖 Local intranet	×	
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.		
Add this website to the zone:		
	<u>A</u> dd	
Websites:		
https://autologon.microsoftazuread-sso.com	<u>R</u> emove	
https://device.login.microsoftonline.com		
https://enterpriseregistration.windows.net		
https://login.microsoftonline.com		
Require server verification (https:) for all sites in this zone		
	Close	

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 7-	8: Proceed with Caution
•	Proceed with Caution
<u>4</u>	Floceed with Caution
	Changing advanced configuration preferences can impact Firefox performance or security.           Image: Warm me when I attempt to access these preferences
	Accept the Risk and Continue

Drace and with Courtiers

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 7-9: 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 7-10: Network.Negotiate-Auth

Q network.negotiate-auth		
network.negotiate-auth.allow-non-fqdn	false	4
network.negotiate-authallow-proxies	true	⇒
network.negotiate-auth.delegation-uris		1
network.negotiate-auth.gsslib		1
network.negotiate-auth.trusted-uris		1
network.negotiate-authusing-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 7-11: Add SmartTAP 360° Live 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.loca	×
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 225

### **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://settings	£2 <b>Ξ</b>
Chrome	Settings	Search settings
History	Sign in	
Extensions	Sign in to Google Chrome with your Go	ade Account to save your personalized browser features

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 7-13: Google Chrome Browser Settings – Show advanced settings

Make Google Chrome the default browser Google Chrome is not currently your default browser.
how advanced settings

 Locate the 'Network' setting and click the button Change proxy settings under the Connections tab

Figure 7-14: Google Chrome Browser Settings – Change proxy settings

Page zoom:	100% 👻
Network	
Google Chrome	is using your computer's system proxy settings to connect to the network.
Change proxy	settings

- (Security tab > Local Intranet zone > Sites... > Advanced... > add the SmartTAP 360° Live FQDN to the local Intranet zone.
- 5. Close all Google Chrome windows and restart; SSO takes place.

#### Figure 7-15: Google Chrome Browser Settings – Adding a Web Site to the Zone

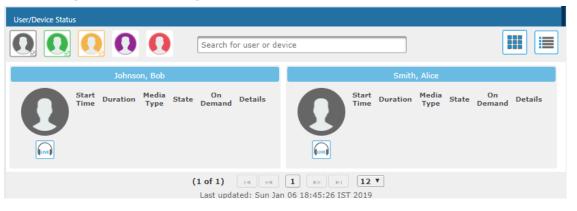
Internet Options 🔹 🔀	Local intranet 🔹 💽 🔀
Genera Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings.	Use the settings below to define which Web sites are included in the Local Intranet zone. Include all local (intranet) sites not listed in 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. Security level for this zone Custom Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level.	Advanced OK Cancel Local intranet  Vou 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 OK Cancel Apply	Add Web sites: Remove
	Require server verification (https:) for all sites in this zone

# **Testing Single Sign-On**

After logging into the domain computer and configuring the browser to trust the SmartTAP 360° Live server as described in previous sections, you can browse to the SmartTAP 360° Live Web server, preferably via the SmartTAP 360° Live 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 7-16: Browsing to the SmartTAP 360° Live Web Server

If an error page is displayed, or if the normal login form for SmartTAP 360° Live is displayed, SSO has malfunctioned – seeTroubleshooting 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° Live 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° Live 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° Live via SSO. The form login page of SmartTAP 360° Live must be accessed in order to log in as this user.

It is recommended that a domain user be given valid SmartTAP 360° Live permissions to make system changes so that the default SmartTAP 360° Live 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° Live 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 360° Live 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° Live 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 360° Live 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° Live 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° Live 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° Live 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° Live 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° Live.xml file for the SmartTAP 360° Live 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° Live 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

 Table 7-2:
 HTTP Error Codes

Error Code	Description
	access. Another cause is if SmartTAP 360° Live cannot determine the User Roles/Permissions for this user. Make sure the user performing SSO is part of the domain and that SmartTAP 360° Live can find this loginId through LDAP or in its own database. Make sure LDAP is configured correctly and can communicate with Active Directory.

#### SmartTAP 360° Live 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° Live server though instances occur in which the Firefox browser does not attempt to authenticate even when the SmartTAP 360° Live 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° Live.

- 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° Live GUI.
  - Validate whether the user's password was changed or not seeVerify the User Credentials.
  - To resolve the error, reset the SSO user's password, re-enter this same password into the SmartTAP 360° Live 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° Live 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° Live. 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° Live from a Firefox browser, with trusted site configured.

#### Troubleshooting with More Detailed SmartTAP 360° Live 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° Live logging.

The loggers can be configured through the SmartTAP 360° Live 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° Live.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° Live. 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° Live 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° Live 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° Live server as a trusted server.
- e. Attempt SSO again.

# 8 SmartTAP 360° Live Skype for Business Toolbar

The SmartTAP 360° Live 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° Live 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 8-1: SmartTAP 360° Live: Save On Demand (SOD)

Figure 8-2:

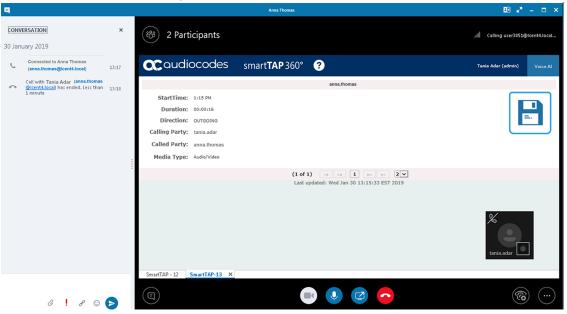
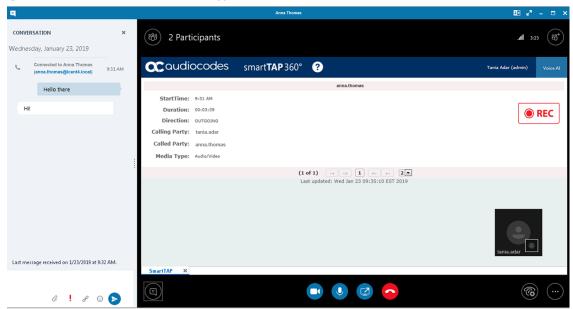


Figure 8-3: Record on Demand (ROD)

9		Anna Thomas	19 e <sup>n</sup> - C ×
CONVERSATION ×	(19) 2 Participants		. <b>11</b> 3:23 (80*)
Connected to Anna Thomas (anna.thomas@lcent4.local) 9:31 AM	<b>OC</b> audiocodes sn	nart <b>TAP</b> 360° ?	Tania Adar (admin) Voice Al
Hello there		anna.thomas	
HR	StartTime: 9:31 AM Duration: 00:03:39 Direction: 00:03:09 Calling Party: annia.dar Called Party: annia.thomas Media Type: Audio/Video		() REC
		(1 of 1) I << 1 >> > 2 .	
		Last updated: Wed Jan 23 09:35:10 EST 2019	tania adar
Last message received on 1/23/2019 at 9:32 AM.	SmartTAP ×		
C ! S 😳 🖻		• • • •	<b>@</b>

#### Figure 8-4: SmartTAP 360° Live Skype for Business CWE Toolbar (Pause / Resume)



# 9 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° Live 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° Live UI. Administrators must enter their credentials to access the application. Security credentials assigned by SmartTAP 360° Live determine which users will be 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° Live URL to be used to access the SmartTAP 360° Live UI
  - Enter the username (same as that used to access the SmartTAP 360° Live UI)
  - Enter the password

💀 Media Exporte	er	The second se	
<b>Audio</b>	Codes		
	SmartTap Server URL:	http://smarttap	
	User:	admin	
	Password:		
	Log In		

Figure 9-1: Credentials

3. Enter the Search Criteria.

1edia Exporter			
SMARTTAP	Media Exp	orter Tool	
rom:2015-09-15 🔲 🔻	08 • 47 •		
o: 2015-09-15	11 • 47 •		
Call Direction: ALL	-		
ile Format: MP3	-		
Dutput Location: 2\Temp\			
Users/Devices 🥥 (	Groups		
	nactive Users nactive Devices		
abce trasc Assaf Rosen Avi Perpinyal Brian Kling			
chard Johnston Dave Rogers Debajyoti Dutta Donald Howell erry Makowski			
phannes Weiss	-		
<ul> <li>Meta Data</li> <li>Meta Data &amp; Media</li> </ul>			
Create zip archive by def	fault		
Search	Clear		

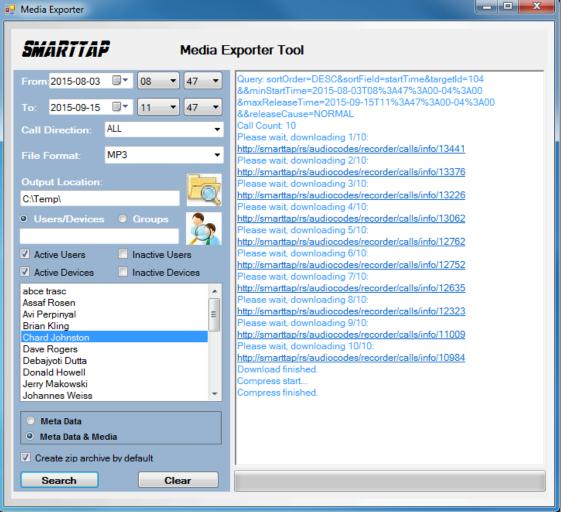
Figure 9-2: Enter the Search Criteria

- The following search criteria definitions are identical to those of the SmartTAP 360° Live 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	Exporter 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 Would you like to down</li> </ul>	query is 10. load the Meta Data and Media for these calls?
abce trasc Assaf Rosen Avi Perpinyal Brian Kling	Yes No
Chard Johnston Dave Rogers Debajyoti Dutta Donald Howell Jerry Makowski Johannes Weiss	
<ul> <li>Meta Data</li> <li>Meta Data &amp; Media</li> </ul>	
Create zip archive by default	
Search Clear	

Figure 9-3: 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 9-5: **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	0.04.10							
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.

Downloading

Figure 9-4:

		· · · · ·				• X	<u> </u>
🚱 🔵 🗢 📕 🕨 Computer 🕨 Local Disk (C:) 🕨 Ter	np 🕨			<b>•</b> 4	Search Ter	np	Q
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp							
Organize 🔻 😭 Open 🛛 Include in library 🔻	Share with 🔻 🛛 Burn 🛛 New folder						
🕌 Local Disk (C:)	Name	Date modified	Туре	Size			
Line Chard	퉬 admin_20150915_120952	9/15/2015 12:23 PM	File folder				
🎍 Intel	admin_20150915_120952.zip	9/15/2015 12:23 PM	Compressed (zipp	32,681 KB			
MSOCache							
🌗 PerfLogs							
🍌 Program Files							
Program Files (x86)							
🍌 ProgramData							
SmartTAP							
🍌 Temp							
Amin 20150015 120052							
admin_20150915_120952 Date modified File folder	9/15/2015 12:23 PM						
1 item selected				j	📮 Computer		

Figure 9-6: Output Location

Folder Name: User Name of User that downloaded calls + Date + Time.

Computer → Local Disk (C:) → Temp → admin\_20150915\_120952 → ✓ 4 Search admin\_20... <u>File Edit View T</u>ools <u>H</u>elp Organize 

Include in library 

Share with 

Burn New folder Chard ~ Name Date modified Size Type 퉬 Intel 🔲 🌗 media 9/15/2015 12:23 PM File folder 鷆 media alls.html 7 KB 9/15/2015 12:23 PM HTML Document 🎒 MSOCache 9/15/2015 12:10 PM XSL File calls.spreadsheet.xsl 11 KB 퉬 PerfLogs alls.xml 9/15/2015 12:23 PM XML File 18 KB 퉬 Program Files alls.xsl 9/15/2015 12:10 PM XSL File 11 KB 퉬 Program Files (x86) calls\_excel.xml 9/15/2015 12:23 PM XML File 12 KB 퉬 ProgramData date.date.template.xsl 2/11/2015 5:47 PM XSL File 4 KB SmartTAP date.difference.template.xsl 2/19/2015 1:59 PM XSL File 16 KB 퉬 Temp date.time.template.xsl 1/9/2015 3:50 PM XSL File 4 KB 🍌 admin\_20150915\_120952 admin 20150015 120052 vin 9 items 9 items j Computer

Figure 9-7: Contents of Folder

Calls.html: Call Manifest

Calls.xml: Call Meta Data exported from SmartTAP 360° Live loaded with Calls.html

Calls\_excel.xml: Open file in Excel. Once in, Excel can be used to generate statistics and reports.

# **10** API Integration

The SmartTAP 360° Live API is a RESTful Web Services API that provides complete access to and control over the SmartTAP 360° Live 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

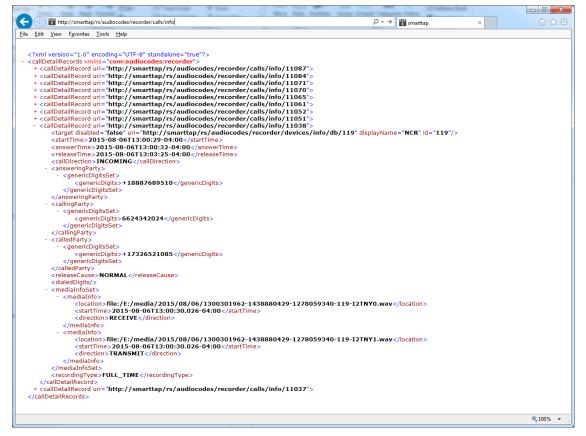
Change 'URL' to the IP address or the name of your SmartTAP 360° Live product.

http://SmartTAP 360° Live/rs/audiocodes/recorder- path to SmartTAP 360° Live

/calls - SmartTAP 360° Live Rest API resource

/info – Returns a collection of call detail records based on search criteria parameters

Figure 10-1: API Integration



To learn more about the SmartTAP 360° Live REST API, see the HTML documentation included with the SmartTAP 360° Live software distribution.

# **11** 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 AudioCodes tools 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° Live server as a part of the SmartTAP 360° Live installation, under the AudioCodes tools 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 244

# **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.

	Figur	e 11-1: General C	onfiguration		
	Gene	ral		REST Api	
N	Veb Se	ervice		SMTP	
Configura Monday Tuesday Wednesday Thursday Friday Saturday Sunday	^	Report Time		-: 0	
		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:

AudioCodes\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 on page 68 Default: Disabled.
- **DelayReportInSec:** Provides delay time before starting and generating reports. Default -0 not enabled (seconds)

AudioCodes \Tools\HealthMonitor\ConfigDelayReportInSec>0</DelayReportInS ec>

 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)

```
AudioCodes
\Tools\HealthMonitor\Config<FileAccessRetryIntervalSec>1</Fil
eAccessRetryIntervalSec>
```

 FileAccessRetryCount: Enables the setting of the number of retries to access Blob\SMB locations. Default-3

```
AudioCodes
\Tools\HealthMonitor\Config<FileAccessRetryCount>3</FileAcces
sRetryCount>
```

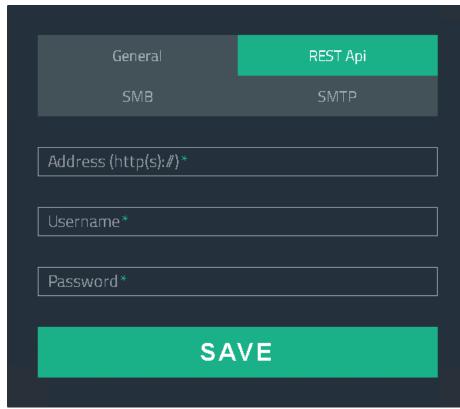
ReportLocaton: Enables the storage of reports in a custom location. Default is [HM LOCATION]\Reports.

```
AudioCodes
\Tools\HealthMonitor\Config<ReportLocation>Reports\</ReportLo
cation>
```

# **REST API Configuration**

This section describes the REST API configuration for the Recording Health Monitor.

Figure 11-2: REST API Configuration



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. See "Health Monitor with HTTPS" in the SmartTAP 360° Live Installation Manual.

# **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 11-3: 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 - gatuser11
       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 - gatuser12
       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
```

Display name	Recording profile	Number of answered calls	Warnings	Errors
qaTuser12	FULL_TIME	2	0	2
qaTuser15	FULL_TIME	0	0	0
qaTuser14	FULL_TIME	0	0	0
qaTuser11	FULL_TIME	0	0	0
qaTuser10	FULL_TIME	0	0	0

# Figure 11-5: 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 11-6: Email Format:

	Wed 08/11/17 9:47 AM
	health.monitor@audiocodes.com
	SmartTAP Recording Monitoring Report [warnings=0 errors=2]
То	<mark>—</mark>
record 2 KB	ing_report_2017 recording_summary_re 632 bytes I KB

November 08, 2017 09:47:21 AM (GMT+2) Received from: <u>http://172.17.127.133</u>

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

SmartTAP 360° Live 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° Liveredirects 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 118 and Announcement Server - Example Configurations). For installing and setting up the Announcement server,

- SmartTAP 360° Live 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 below
- IVR on the next page
- Example Announcement Server Scenarios on page 252
- Announcement Server Configuration Parameters on page 254
- Announcement Server Example Configurations

# Simple Announcement

SmartTAP 360° Live 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 12-1: Sound Recorder

Nound Recorde	r	X
• Start Recording	0:00:00	2 -

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° Live\AN\Config\StateMachineConfig



Ensure that you save the file in WMA format.

🏭 l 🕞 🕕 = l	AN	l i		_ 🗆 X
File Home Shar	re View			~ (
🔄 🔄 🕶 🕇 📕 «	Program Files 🕨 AudioCodes 🕨 SmartTAP 🕨	∙AN v ¢	, Search AN	<i>م</i>
🔆 Favorites	Name	Date modified	Туре	Size
🛄 Desktop	퉬 Config	9/3/2015 3:16 PM	File folder	
鷆 Downloads	Install_Logs	9/3/2015 3:16 PM	File folder	
📃 Recent places	🐌 License	9/3/2015 3:16 PM	File folder	
🌗 AN	\mu log	9/8/2015 4:49 PM	File folder	
	🐌 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 12-2:	Announcement Server
--------------	---------------------

# **IVR**

SmartTAP 360° Live 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 the next page)
- Enable Consent to record calls (see Consent to Record Calls on page 250)

For details on configuring IVR files, see Section 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 118).

# **Configuring IVR Script Files**

The IVR files are located as follows:

- The prompt media files are located under ...\Program Files\AudioCodes\SmartTAP 360° Live\AN\Languages. USA English media files are under en-us folder.
- The IVR state machines are located under Program Files\AudioCodes\SmartTAP 360° Live\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 118).

The IVR sample state machines are located under Program Files\AudioCodes\SmartTAP 360° Live\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 :

0 1	•
"\$type": "AnnouncementsCore.AnnTree.AnnStateMachine, AnnouncementsCore",	{     "\$type": "AnnouncementsCore.AnnTree.AnnMenuNode, AnnouncementsCore",     "PromptName": "ivr.wma",
DefaultLanguage": "en-us",	"AcceptDtmf": (
AnnNodes": [	"\$type": "AnnouncementsCore.AnnTreeModel.DtmfAndOutput, AnnouncementsCore",
	"Dtmf": "1", "NextId": "3"
"\$tvpe": "AnnouncementsCore.AnnTree.AnnLanguageNode, AnnouncementsCore",	"NERLIG"; "3"
"PromptName": "chooseLanguage.wma",	"DeclineDtmf": {
"Languages": [	"\$type": "AnnouncementsCore.AnnTreeModel.DtmfAndOutput, AnnouncementsCore",
Jonguages . L	"Dtmf": "0", "NextId": "4"
	"Nextid": "4"
"\$type": "AnnouncementsCore.AnnTreeModel.LanguageDtmf, AnnouncementsCore",	"ToneHandlerConfig": {
"Dtmf": "1",	"\$type": "AnnouncementsCore.AnnTreeModel.ToneHandlerConfig, AnnouncementsCore
"Language": "en-us",	"MaxAttempts": 3,
"NextId": "2"	"WaitTimeDtmfSec": 5,
) r	"StartRecognizeAfterPromptDtmf": false ),
(	"Id": "2",
"\$type": "AnnouncementsCore.AnnTreeModel.LanguageDtmf, AnnouncementsCore",	"NextId": "3",
"Dtmf": "2",	"ErrorNextId": "5",
"Language": "ru-ru",	"IsFirst": false
"NextId": "2"	
	"     "Stype": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",
	"PromptName": "AcceptResultPrompt.wma",
1,	"Id": "3",
"ToneHandlerConfig": {	"NextId": null,
"\$type": "AnnouncementsCore.AnnTreeModel.ToneHandlerConfig, AnnouncementsCore",	"ErrorNextId": null, "IsFirst": false
"MaxAttempts": 5,	
"WaitTimeDtmfSec": 5,	
"StartRecognizeAfterPromptDtmf": false	"\$type": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",
	"PromptName": "DeclineResultPrompt.wma",
"Id": "1",	"Id": "4", "NextId": null.
"NextId": "2",	"ErrorNexLid": null.
"ErrorNextId": "5",	"IsFirst": false
"IsFirst": true	
},	<pre>{     "Stype": "AnnouncementsCore.AnnTree.AnnPlayPromptNode, AnnouncementsCore",</pre>
17	"Stype": "Announcementscore.Anniree.AnnirayPromptNode, Announcementscore", "PromptName": "errorPrompt.wma",
	"Id": "5",
	"NextId": null,
	"ErrorNextId": null,
	"IsFirst": false

Figure 12-3: Example IVR Script File

# **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

2. 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, this files 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° Live\AN\Repo to the Program Files\AudioCodes\SmartTAP 360° Live\AN\StateMachineConfig folder.

# **Consent to Record Calls**

SmartTAP 360° Live 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° Live, by default, disable call consent.

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

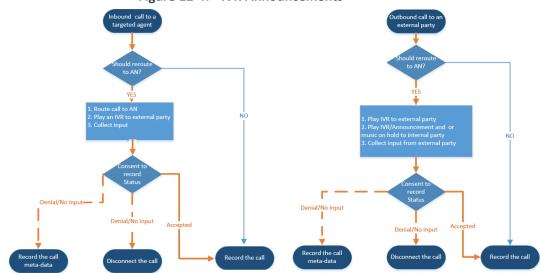


Figure 12-4: IVR Announcements

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

User/Device \$	Started \$	Duration 🗘	Direction 🗘 Select 🔻	Release Cause 🗘 🗘
adar, tania(tania adar)	Jun 2, 2016 2:38:14 PM	00:00:07	INCOMING	NORMAL
Answer Time: Jun 2, 2016 2:38:17 PI Release Time: Jun 2, 2016 2:38:21 P Calling Party Digits: 7326522182 Consent Accepted Called Party Digits: 3041 Answering Party Digits: user3041 Recording Type: FULL_TIME Trigger Time: Expires: Jun 2, 2017				
adar, tania(tania adar)	Jun 2, 2016 2:38:03 PM	00:00:14	INCOMING	NORMAL
Answer Time: Jun 2, 2016 2:38:03 PI Release Time: Jun 2, 2016 2:38:17 P Calling Party Digits: 7326522182 Consent Accepted Called Party Digits: 3041 Answering Party Digits: announcementsapp Recording Type: FULL_TIME Trigger Time: Expires: Jun 2, 2017	M			

Figure 12-5: Consent Accepted



	User/Device	\$	Started	٥	Duration 🗘	Direction Select	÷	Release Cause Select 🔹	\$
Ξ	adar, tania(tania adar)		Jun 2, 2016 2:41:57 PM		00:00:08	INCOMING	3	NORMAL	
		016 2:42:05 P 5522182 sent Declined - 1 3041							
⊟	adar, tania(tania adar)		Jun 2, 2016 2:41:46 PM		00:00:15	INCOMING	G	NORMAL	
	Digits: Con Called Party Digits: 304 Answering Party	016 2:42:01 P 5522182 sent Declined							

Search calls based on the consent as shown below:

Figure 12-7: Call Parties

System	Users	Status
Calls	Evaluation	0
	0/2016 8 ¥ 0/2016 10 ¥	05 ¥ AM ¥ 05 ¥ AM ¥
Active Dev	rs 📃 Inactiv rices 🗌 Inactiv vices 🔵 Gro	e Devices
Users/Devic		ups
Adar, Tania Admin, Local Campos, Jos		^
Carosella, Gi		
Conlon, Tom Da Silva, Sar	ndv	
DCI	ia)	
Dougher, Mic		
Dutta, Debajy		
Herberger, St	even	•
Call Parties:		
Calling	t Declined*	
Called	e Decimed	
Canca		
Answered		
Call Tags:		
Active Tag	s 🛛 🗆 Inactiv	e Tags
Tag Name	Tag V	alue
Select One	•	
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.

Call type —							
Applicable for MSFT Teams, Skype for Business and Lync A/V Recording							
Internal		Incoming	Outgo	-			
PSTN		Inbound	<ul> <li>Outbo</li> </ul>				
Federated	<b>~</b>	Inbound	Outbo	und			
Calls with Internal Conferences							
Teams Queue Calls (conference mode) *							
* Applicable fo	for MSFT Teams only						
Applicable for Sk	kype for Business and	Lync A/V Reco	rding				
Referred b	by Response Grou	р					
Filter Calls Us	ser Receives :	List Type : Bl	ock 🗙 Numbers:			Regular Expression:	
Filter Calls Us	er Makes :	List Type : Bl	ock 🗸 Numbers:			Regular Expression:	
Announcement							
Applicable for Sk	kype for Business and	Lync A/V Reco	rding. Announcement Server	r 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	IVR 🗸	Play to calling party	PSTN_Inbound_IVR		Play to answering party	File name
	🗹 Outbound	ANN 🗸	Play to calling party	File name	<	Play to answering party	PSTN_Outbound.wmf
			<b>—</b> • • • • • • •	Fed Inbound IVR.json		Play to answering party	File name
Federated	🗹 Inbound	IVR 🗸	Play to calling party	red_inbound_rerk.json		ridy to unonering purcy	
Federated	✓ Inbound ✓ Outbound	ANN ¥	<ul> <li>Play to calling party</li> <li>Play to calling party</li> </ul>		<ul> <li>Image: Construction</li> <li>Image: Construction&lt;</li></ul>	Play to answering party	Federated_Outbound.w
	Vutbound	$\equiv$			<		
	_	$\equiv$					
Record An	Vutbound	ANN 🗸	Play to calling party		2		
Record An Don't Play Ann	Outbound	ANN 🗸	Play to calling party				

# **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 andfor Inbound Federated calls. Likewise, an IVR file is configured to play to the Answering party for Inbound PSTN calls.

Call								
Recording Type Full Time								
✓ Video								
🗹 Desktop S	Sharing							
Pause or	Resume							
- Call type	FT Teams, Skype fo	or Business and	I vnc A/V Rec	ording				
	in the second party party party		,					
Internal		Incoming		Outgoin				
PSTN		Inbound		Outbou	-			
Federated		Inbound		Outbou				
_	th Internal Conf			0 00000				
	Queue Calls (con		le) *					
* Applicable fo	or MSFT Teams only							
	ype for Business an y Response Grou							
Filter Calls Use	er Receives :	List Type : E	llock 🗸	Numbers:			Regular Expression:	
Filter Calls Use	er Makes :	List Type : E	llock 🗸	Numbers:			Regular Expression:	
Announcement	-							
Announcement Applicable for Sk		d Lync A/V Rec	ording. Annou	ncement Server is	s required to be installed			
Call type								
Internal	🗹 Incoming	ANN 🗸	🗹 Play to	calling party	ANN_Incoming.wma		Play to answering party	File name
	Outgoing	ANN 🗸	Play to	calling party	File name		Play to answering party	File name
PSTN	🗹 Inbound	IVR 🗸	Play to	calling party	File name	<b>~</b>	Play to answering party	PSTN_IVR_Outbound
	Outbound	ANN 🗸	Play to	calling party	File name		Play to answering party	File name
Federated	🗹 Inbound	IVR 🗸	🗹 Play to	calling party	ANN_Federated.wma		Play to answering party	File name
	Outbound	ANN 🗸	Play to	calling party	File name	<b>V</b>	Play to answering party	File name
Record An	Record Announcement							
Don't Play Ann	ouncement Dest	ination Num	bers : 911					
Block Calls	on Announcem	ents Unavail	ablity					

# **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 "".

Table 12-1: System.config File

Parameter	Description
bufferSize	Defines buffer size of transferring data between calls. The default value is "60".
supervised Transfer Header Name	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".
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".

Parameter	Description
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 " music-default.wma".
ivrResultParamName	Defines the parameter name that will be added in the referred-By header. The default value is "X- AnnlvrResult".
ivrCleanerSec	Clean stale calls IVR container every period of time in seconds. The default value is 1800.
impersonateInCall	<ul> <li>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.</li> <li>Possible values:</li> <li>True</li> <li>False (default)</li> </ul>
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.

Parameter	Description
	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>
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

Description
transfer. Mobile clients (S4B) and voice mail don't support Attended Transfers. Default Value: "ucwa"
<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>
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"
A regular expression (case insensitive). The 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"
<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 360° Live Installation Guide.

# 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	<ol> <li>A calls B, B answers: announcement is played.</li> <li>B places A on hold and calls C, C answers: no announcement is played.</li> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play).</li> </ol>
Supervised/blind transfer	В	<ol> <li>A calls B, B answers: announcement is played</li> <li>B places A on hold and calls C, C answers: announcement is played</li> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play)</li> </ol>
Supervised/blind transfer	С	<ol> <li>A calls B, B answers: no announcement is played.</li> <li>B places A on hold and calls C, C answers: announcement is played.</li> <li>A is connected to C: announcement is played.</li> </ol>
Supervised/blind transfer	A + B	<ol> <li>A calls B, B answers: announcement played</li> <li>B places A on hold and calls C, C answers: announcement played</li> <li>A is connected to C: no announcement is played (set AllowMultipleAnnSameUser to true to play)</li> </ol>
Supervised/blind transfer	A + C	<ol> <li>A calls B, B answers: announcement is played</li> <li>B places A on hold and calls C, C answers: announcement is played</li> <li>A connected to C: no announcement (set AllowMultipleAnnSameUser to true to play)</li> </ol>
Supervised/blind transfer	B + C	<ol> <li>A calls B, B answers: announcement is played</li> <li>B places A on hold and calls C, C answers: announcement is played</li> <li>A connected to C: no announcement is played (set</li> </ol>

Table 12-2:	Call Transfer	Scenarios
-------------	---------------	-----------

Call Scenario	Targeted Users	Flow and expected results from Announcement Server*	
		AllowMultipleAnnSameUser to true to play)	
Supervised transfer	A + B + C	1. A calls B, B answers: announcement is played	
		<ol> <li>B places A on hold and calls C, C answers: announcement is played</li> </ol>	
		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 12-3: 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° Live 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.

# **13** Microsoft Azure Active Directory

This section describes how to setup Microsoft Azure Active Directory users and authentication:

- Azure Active Directory User Mapping below
- Azure Active Directory User Authentication on page 300

# **Azure Active Directory User Mapping**

SmartTAP 360° Live Version 5.1 and later allows mapping of an Organizations' (Tenant) users from Microsoft Azure Active Directory (AAD). SmartTAP 360° Live uses the Client Credential Flow to authenticate itself and access hosted resources such as Users and Groups from Azure Active Directory.



Refer to <u>https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-oauth2-</u> client-creds-grant-flow.

The user mapping process involves the following steps:

- Step 1: Register an daemon client application in Azure Active Directory on behalf of SmartTAP 360° Live (see Step 1 Application Registration in Microsoft Azure below).
- Step 2: Configure API permission for this app in AAD (see Step 2 Configure API Permissions on page 265)
- Step 3: Configure Certificates & Secrets for this app in AAD (see Step 3 Configure Certificates & Secrets on page 308)
- Step 4: Configure this client application in SmartTAP 360° Live (see Step 4 Configure Azure Active Directory Client in SmartTAP 360° Live on page 270
- Step 5: Add new User Mappings in SmartTAP 360° Live (see Step 5 Add Azure Active Directory Mapping in SmartTAP 360° Live on page 271)

# Step 1 Application Registration in Microsoft Azure

This step describes how to register an Application in Microsoft Azure.

### Do the following:

1. Login to the Microsoft Azure portal (https://portal.azure.com/).

P R Azure services .  $\rightarrow$ +SQL 鄲 9 Azure Active SQL databases Azure More services Create a Virtual Storage App Services Azure Cosmos Storage resource Directory machines accounts explorer Database fo.. DB

#### Figure 13-1: Azure Services

2. Click Azure Active Directory.

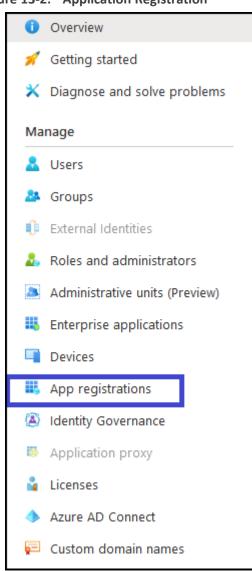


Figure 13-2: Application Registration

3. In the Navigation pane, select Manage > App Registration.



4. Click + New Registration. The Register an application page is displayed.

Register an ap	oplication
* Name	
The user-facing display n	ame for this application (this can be changed later).
AADAppClient	✓
Supported account ty	ypes
Who can use this applica	ation or access this API?
<ul> <li>Accounts in this orga</li> </ul>	anizational directory only (AudioCodes Ltd. only - Single tenant)
Accounts in any orga	anizational directory (Any Azure AD directory - Multitenant)
Accounts in any orga	anizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Help me choose	
Redirect URI (optiona	al)
	ation response to this URI after successfully authenticating the user. Providing this now is optional and it can be e is required for most authentication scenarios.
Web	✓ e.g. https://myapp.com/auth
By proceeding, you agree	e to the Microsoft Platform Policies 🗗
Register	
9	

- 5. Enter the following details:
  - Name: enter a name for the client application
  - Supported account types: select the radio button for "Accounts in this organizational directory only (AudioCodes Ltd. only Single tenant)"
  - Redirect URI (optional): no action required.
- 6. Click Register to confirm registration.

Upon successful registration, the following details are displayed.

🔣 AADAppClient 🖉		
ר א βearch (Ctrl+/) ≪	🔋 Delete 🔀 Endpoints	
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 UR
×	Object ID : ddb394e6-1adf-4978-a550-1304196300c3	Managed application in I : AADAppClient
Manage	*	
🧮 Branding		
Authentication	Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Le	gacy)? Learn more
📍 Certificates & secrets		
Token configuration	Call APIs	Documentation
->- API permissions		Microsoft identity platform
🙆 Expose an API		Authentication scenarios Authentication libraries
Owners		Code samples Microsoft Graph
Roles and administrators (Previe		Glossary Help and Support
Manifest	Build more powerful apps with rich user and business data from Microsoft services and your own company's data	
Support + Troubleshooting	sources.	
Troubleshooting	View API permissions	

Figure 13-5: AADAppClient

 Copy the value of Application (client) ID and Directory (tenant) ID for Client Configuration in SmartTAP 360° Live (Step 4 Configure Azure Active Directory Client in SmartTAP 360° Live on page 270).

# **Step 2 Configure API Permissions**

This step describes the configuration of API permissions.

## > Do the following:

1. Open the API Permissions screen (Manage > API permissions).

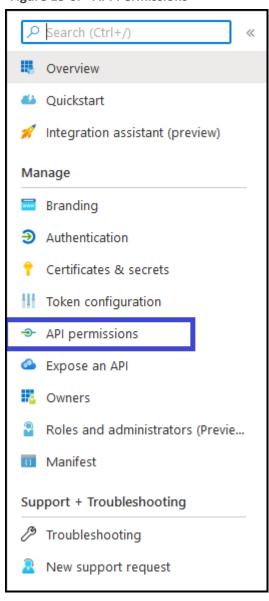
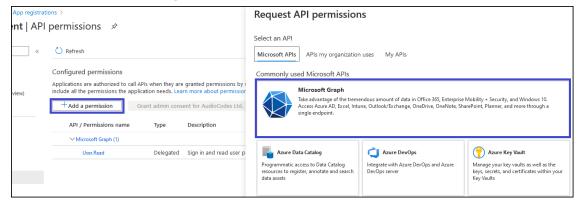


Figure 13-6: API Permissions

Figure 13-7: Add a Permission



- 2. On right side panel, click + Add a permission button and select "Microsoft Graph" link.
- 3. In the Request API permissions section, click the Application permissions link.



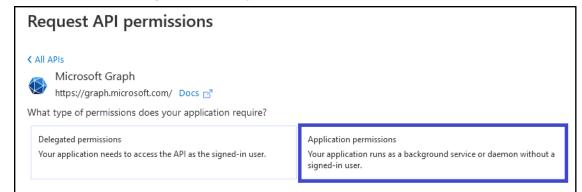


Figure 13-9: API Permissions

Request API permissions	
< All APIs	
> Files	
> Group	
✓ GroupMember (1)	
GroupMember.Read.All ① Read all group memberships	Yes
GroupMember.ReadWrite.All ③ Read and write all group memberships	Yes
> IdentityProvider	

- 4. Under "Select permissions" list, check the following permissions:
  - Group Members Permissions:
    - Select GroupMember.Read.All checkbox
  - User Permissions:
    - Select User.Read.All checkbox
  - ClickAdd permissions.
- 5. Under the "Configure permission" section, some of the permission require Admin Consent to be available for use (highlighted in the screen below). Contact the administrator to grant these permissions.

## Figure 13-10: Configured Permissions

Tou are editing permission(s) to	your application,	users will have to consent even if they've alree	ady done so previously.		
Configured permissions					
	cation needs. Le	e granted permissions by users/admins as arn more about permissions and consent or myorganization	part of the consent process. The list	of configured permissions sho	uld
API / Permissions name	Туре	Description	Admin consent req	Status	
✓Microsoft Graph (3)					•••
∽Microsoft Graph (3) GroupMember.Read.All	Application	Read all group memberships	Yes	A Not granted for myorga	
	Application Delegated	Read all group memberships Sign in and read user profile	Yes	Not granted for myorga	

6. Once Admin Consent is granted, the permissions are displayed as follows:

Figure	13-11:	Configured	Permissions
--------	--------	------------	-------------

Successfully granted admin const	sent for the requ	ested permissions.			
Configured permissions					
		re granted permissions by users/admins as arn more about permissions and consent	part of the consent process. The list	t of configured permissions sho	uld
+ Add a permission 🗸 Grant :	admin consent f	for myorganization			
+ Add a permission 🗸 Grant API / Permissions name	admin consent f	for myorganization Description	Admin consent req	Status	
et (M).			Admin consent req	Status	
API / Permissions name			Admin consent req Yes	Status Granted for myorganiza	
API / Permissions name ~ Microsoft Graph (3)	Туре	Description		-	

# **Step 3 Configure Certificates & Secrets for Azure AD Mapping**

This section describes how to configure certificates and secrets for Azure AD mapping.

## ➤ Do the following:

1. In the Navigation pane, select Manage > Certificates & secrets.

#### Figure 13-12: Certificates and Secrets

AADAppClient   Cer	rtificates & secrets 👒		
Search (Ctrl+/)     «      Overview		s to identify themselves to the authentication service v e recommend using a certificate (instead of a client s	vhen receiving tokens at a web addressable location (using an HTTPS ecret) as a credential.
<ul> <li>Quickstart</li> <li>Integration assistant (preview)</li> </ul>	Certificates Certificates can be used as secrets to prov	e the application's identity when requesting a token. A	Also can be referred to as public keys.
Manage	↑ Upload certificate		
Branding	Thumbprint	Start date	Expires
Authentication	No certificates have been added for this ap	oplication.	
📍 Certificates & secrets			
III Token configuration			
API permissions	Client secrets		
Expose an API	A secret string that the application uses to	prove its identity when requesting a token. Also can b	pe referred to as application password.
n Owners	+ New client secret		
Roles and administrators (Previe	Description	Expires	Value
🔟 Manifest	No client secrets have been created for this	s application.	
Support + Troubleshooting			
Troubleshooting			
New support request			

2. Click <sup>+</sup> New client secret.

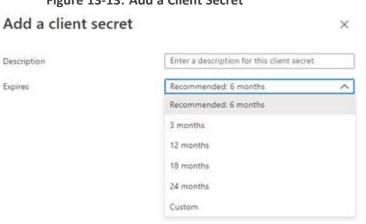


Figure 13-13: Add a Client Secret



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 13-14: New Client Secret

Client secrets			
A secret string that the application uses to prove its identity when request	ting a token. Also car	t 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 İ

 Copy the Value of the client secret for further configuration in SmartTAP 360° Live (see Step 4 Configure Azure Active Directory Client in SmartTAP 360° Live on the next page).

# Step 4 Configure Azure Active Directory Client in SmartTAP 360° Live

To configure the client application in SmartTAP 360° Live, ensure that you all the required details from AAD Configuration including:

- Application (Client) ID
- Directory (Tenant) ID
- Client Secret
- > Do the following:
- 1. Login to the SmartTAP 360° Live Web with Administrator role.
- 2. Open the Add AAD Configuration screen (System > AAD > Add AAD Configuration).

System	Users	Status	
Calls	Messages		<
MONITORI	MONITORING		
ALARMS			$\sim$
CALL TAGO	SING		$\sim$
CERTIFICA	TES		$\sim$
RETENTION	V		$\sim$
EMAIL			$\sim$
MEDIA			$\sim$
WEB			$\sim$
LDAP			$\sim$
AAD			~
	configuration y AAD Config		

## Figure 13-15: AAD Tab

Figure 13-16: Add Active Directory Configuration

Active Directory Config	uration successfully saved.			
Modify Active Directory Configu	lodify Active Directory Configuration			
Name	ST AAD Config			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c			
Application (Client) ID	c3ccba42-16ef-4b28-bf82-dcba37b91			
Client Secret				
		SUBMIT		

- 3. Enter the name of the Active Directory configuration.
- 4. Enter the Directory (Tenant) ID and the Application (Client) ID.
- 5. Enter the Client Secret.
- 6. Click SUBMIT .A success message is displayed at the top of the screen "Active Directory Configuration successfully saved."

## Step 5 Add Azure Active Directory Mapping in SmartTAP 360° Live

This section describes how to map Azure Active Directory objects to SmartTAP entities:

- Define AAD User Mapping Profile and map to one or more member groups. All users belonging to the mapped groups inherit the mapped profile (see AAD User and Group Mapping below). Once the AAD group is mapped, it is added to the SmartTAP Groups table.
- Define AAD Security Mapping Profile and map to one or more member groups. All users belonging to the mapped groups inherit the mapping profile (see AAD Security Profile Mapping on page 277). Once the AAD Security Profile is mapped, it is added to the SmartTAP Security Profiles table.
- Define AAD Recording Mapping Profile and map to one or more member groups. All users belonging to the mapped groups inherit the mapping profile (see AAD Recording Profile Mapping on page 284). Once the Recording Profile is mapped, it is added to the SmartTAP Recording Profiles table.
- Define AAD Retention Mapping Profile and map to one or more member groups. All users belonging to the mapped groups inherit the mapped profile (see AAD Retention Profile Mapping. Once the Retention Profile is mapped, it is added to the SmartTAP Retention Policies table (seeAAD Retention Policy Mapping on page 293).
  - 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 User and Group Mapping

SmartTAP 360° Live 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° Live 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 136 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 136).
- 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	TES		$\sim$
RETENTION	N		$\sim$
EMAIL			$\sim$
MEDIA			$\sim$
WEB			$\sim$
LDAP			$\sim$
AAD			^
	onfiguration y AAD Config		

Figure 13-17: Add Active Directory Configuration

## Figure 13-18: Active Directory Providers

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		

3. Select the provider entry that you configured in Step 4 Configure Azure Active Directory

Client in SmartTAP 360° Live on page 270 and then click

Modify Active Directory Configura	tion			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	5c		
Application (Client) ID	00c65e7a-2064-443f-bb24-0de6702	25		
Client Secret				
			SUBMIT	
•	User Ma	ppings		
Mapping Name	omarAAD			
Member Groups	ST_Test_Group, 2E5_users		Select Groups	
First Name	givenName	$\checkmark$		
Last Name	surname	$\sim$		
Login	userPrincipalName	~		
Email	mail	$\sim$		
Alias	surname	~		
OID	id	~		
🔿 One Level 💿 Subtr	ee			
Add Groups				
			CANCEL	
Mapping Name	Member Groups	Search Scope	Modify Mapping Delete	
omarAAD	ST_Test_Group, 2E5_users	SUB_TREE		
•	Security Profi	ile Mappings		
•	Recording Prof	file Mappings		
•	Retention I	Mappings		

Figure 13-19: 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).

The OID attribute is mandatory for Microsoft Teams calls, however different user mapping IDs can be used for other integrations.

5. Select one of the following:

5. Select the One Level to map the users fromto the highest Active Directory object level. Select Subtree to map the users fromto 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.
- 7. Click SUBMIT

Figure 13-20: Select Member Groups

Select Member Groups		
Searched Groups		
~ ^		
Selected Groups		
ST_Test_Group [845e4dd8-78aa-49cd-bd44-fbeb622ce809]		
ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]		
SmartTapAgents [070ecda5-dbd2-4ef4-9c67-9b64e881422f]		
	CANCEL	SUBMIT

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.



Select Member Groups	
Searched Groups	st
ST-load-test-dynamic [5e7ce8d2-412a-4886-8	
st-compliance-michal [cbc58572-7d1f-409f-bc7 st-load [d45d9937-86fc-432a-90dc-35bdb948e	and the second
st-test-subgroup [e04846ea-1f3c-4808-9a61-5	en Second in
~ ^	
Selected Groups	
ST_Test_Group [845e4dd8-78aa-49cd-bd44-fb	eb622ce809]
ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133	3]
SmartTapAgents [070ecda5-dbd2-4ef4-9c67-9	b64e881422f]
	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".

Click to add this mapping to SmartTAP 360° Live.

## Figure 13-22: Member Groups

•		User N	lappings		
	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			
	Mapping Name	Member Groups		Modify Mapping	Delete
		No record	s found.		

Successful user mapping is displayed under the User Mapping table.

Figure 13-23	Mapping	Successfully	/ Added
--------------	---------	--------------	---------

<ul> <li>Mapping successfully a</li> </ul>	dded.				
Modify Active Directory Configu	ation				
Name	ST AAD Config				
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fc	185c			
Application (Client) ID	c3ccba42-16ef-4b28-bf82-dcba3	7b91			
Client Secret					
					SUBMIT
•			User Mappings		
Mapping Name					
Member Groups			Select Groups		
First Name	Choose One	$\checkmark$			
Last Name		~			
Login		~			
Email		~			
Alias		~			
Object ID	Choose One	~			
					Đ
Mapping Name	Member	Groups		Modify Mapping	Delete
ST AAD Users	ST_Test_	Group, SmartTapAgents			

All mapped users are displayed in the Users > View/Modify Users page (see View and Modify Users on page 140).

Figure 13-24: 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		

When the "Add Groups" check box is selected, Mapped Groups can be viewed in the Groups page (see View and Modify Groups on page 112).

## Figure 13-25: Mapped Groups

View/Modify Groups			
Name	Description	Modify	Delete
Default	Default group		Ō
rachels			
rachels test video			
rachelsTest	testingAAD		
racheltest3			
test4			

## **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 271 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:

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

Figure 13-26: 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		Ō

2. Select the provider entry that you configured in Step 4 Configure Azure Active Directory

Client in SmartTAP 360° Live on page 270 and then click

Modify Active Directory Configura	tion		
Name	OmarAAD_mapping		
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	5c	
Application (Client) ID	00c65e7a-2064-443f-bb24-0de670	25	
Client Secret			
			SUBMIT
-	User Ma	ppings	
Manning Name			
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	~	
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 13-27: Modify Active Directory Configuration

3. Select the Security Profile Mapping tab.

Add Active Directory Configuration					
Name		]			
Directory (Tenant) ID		]			
Application (Client) ID ad	lmin				
		]			
		]			
					SUBMIT
•		User Mappings			
▼ Security Profile Mappings					
Mapping Name			]		
Member Groups			Select Groups	]	
One Level O Subtree					
					( + )
Mapping Name	Member Groups	Search Scope		Modify Mapping	Delete
No records found.					
Recording Profile Mappings					
Retention Mappings					

Figure 13-28: Active Directory Security Profile Mapping

- 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 13-29: Select 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> </ul>	a-1868886c024e]
✓ STQATeam [29f34319-2230-4871-9020-d68	83d8a1ef2a] v
Selected Groups	
	CANCEL

Use the arrow buttons to assign the relevant groups.

Figure 13-30: Select Member Groups

Select Member Groups	
Searched Groups st	
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-fbel</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-a3421</li> <li>st-compliance-michal [cbc58572-7d1f-409f-bc7d</li> <li>st-subgroup1-test-rename [14a05d00-7b09-412</li> <li>st-subgroup1-test-f8-042a-c</li> </ul>	fd701f9] d-525a9718e299] 21-a9f4-b4d2f26b79b3]
Selected Groups	
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]</li> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98da-18</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-412a-</li> <li>STQATeam [29f34319-2230-4871-9020-d683d8</li> </ul>	68886c024e] 4886-80f3-49314e2beb60]
	CANCEL SUBMIT



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 13-31: Remove Member Group	Asssignment
-----------------------------------	-------------

Select Member Groups	
Searched Groups st	
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]</li> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-fbeb622ce809]</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-a3421fd701f9]</li> <li>st-compliance-michal [cbc58572-7d1f-409f-bc7d-525a9718]</li> </ul>	3e299]
Selected Groups	
<ul> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98da-1868886c024</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-412a-4886-80f3-</li> <li>STQATeam [29f34319-2230-4871-9020-d683d8a1ef2a]</li> </ul>	-
C	ANCELSUBMIT

7. Click SUBMIT to apply changes.



Modify Active Directory Configuration				
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd1	.85c]		
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67	025t		
Client Secret				
				SUBMIT
•	U	ser Mappings		
*	Securit	y Profile Mappings		
Mapping Name			]	
Member Groups S	T-Teams-Users, ST-load-test-dynamio-re	name, STQATeam	Select Groups	
One Level O Subtree	e			
				( )
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
No records found.				
•	Recording Profile Mappings			
Retention Mappings				

8. Click to add this mapping to SmartTAP 360° Live.

The new Security Profile is displayed:

• Mapping successfully added.				
Modify Active Directory Configuration				
Name Omar	AAD_mapping			
Directory (Tenant) ID ad410	l6c3-67f0-47cc-9de3-e07fd185c:			
Application (Client) ID 00c65	5e7a-2064-443f-bb24-0de67025t			
Client Secret				
			[	SUBMIT
•	User Mappings			
*	Security Profile Mappings			
Mapping Name				
Member Groups		Select Groups	]	
One Level O Subtree				
$( \bigcirc )$				
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
SmartTAP Development Apps	ST-Teams-Users, ST-load-test-dynamic-rename, STQATeam	ONE_LEVEL		Ē
<b>&gt;</b>	Recording Profile Mappings			
Retention Mappings				

## Figure 13-33: Security Profile Successfully Added



By default, the security profiles are mapped with all permissions disabled (see figure "Default Security Profile" below); to configure permissions, see Managing Security Profiles on page 113. The figure "View New Security Profile" below shows an example of a new mapping for group "ST-Teams-Users".

## Figure 13-34: 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	Email Media Related to a call
$\bigcirc$ Access user's own calls and instant messages	Tag calls
	Live Monitor
	ROD/SOD other users
Configure system	
Create and modify users and groups	



View/Modify Security Profiles	View/Modify Security Profiles					
Name \$	Description \$	Permissions	Modify	Delete		
supervisor	Supervisor	Tag calls Play Media Related to a call Download Media Related to a call Access calls within user's groups Live Monitor Email Media Related to a call				
ST-load-test-dynamic-rename	ST-load-test-dynamic					
administrator	Administrator	Tag calls Configure system Play Media Related to a call Create and modify users and groups Access all calls Download Media Related to a call Email Media Related to a call				
agent	Agent	Tag calls Play Media Related to a call Download Media Related to a call Access user's own calls Email Media Related to a call				
ST-Teams-Users						
STQATeam	SmartTAP QA Team					
20 🔪 🖂 < 1 🕨 🖂 (1 of 1)						

## **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 271 and therefore 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 33).

## > To configure recording profile mapping:

1. Open the View/Modify AAD Config page (System tab> AAD folder> Add AAD Config).

#### Figure 13-36: 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 Step 4 Configure Azure Active Directory

Client in SmartTAP 360° Live on page 270 and then click

	0		, 0		
Modify Active	Modify Active Directory Configuration				
	Name	OmarAAD_mapping			
Directory	/ (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	5c		
Applicatio	on (Client) ID	00c65e7a-2064-443f-bb24-0de6702	25		
	Client Secret				
				SUBMIT	
+		User Ma	ppings		
	Mapping Name	omarAAD			
M	lember Groups	ST_Test_Group, 2E5_users		Select Groups	
	First Name	givenName	~		
	Last Name	surname	~		
	Login	userPrincipalName	~		
	Email	mail	~		
	Alias	surname	~		
	OID	id	~		
_	e Level 💿 Subtre	e			
Add	d Groups				
				CANCEL	
N	lapping Name	Member Groups	Search Scope	Modify Mapping Delete	
0 0	omarAAD	ST_Test_Group, 2E5_users	SUB_TREE		
$\rightarrow$		Security Profi	le Mappings		
•		Recording Prof	ile Mappings		
•	Retention Mappings				

Figure 13-37: Modify Active Directory Configuration

3. Select the Recording Profile Mappings tab.

OmarAAD_mapping			
ad41d6c3-67f0-47cc-9de3-e07fd185c1c7			
00c65e7a-2064-443f-bb24-0de67025bd72			
			SUBMIT
	User Mappings		
	Security Profile Mappings		
	Recording Profile Mappings		
Select Groups			
e			
			(+)
Member Groups	Search Scope	Modify Mapping	Delete
rachelsTest	SUB_TREE		Ē
> Retention Mappings			
	00c65e7a-2064-443f-bb24-0de67025bd72	OmarAAD_mapping         ad41d6c3-67f0-47cc-9de3-e07fd185c1c7         00c65e7a-2064-443f-bb24-0de67025bd72	OmarAAD_mapping         add1d6c3-67f0-47cc-9de3-e07fd185c1c7         00c65e7a-2064-443f-bb24-0de67025bd72

Figure 13-38: 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 13-39: Select 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 [5e7ce8d2-44886-80f3-49314e2beb60]</li> </ul>	¦a-1868886c024e]
STQATeam [29f34319-2230-4871-9020-d6	83d8a1ef2a] v
	CANCEL SUBMIT

Use the arrow buttons to assign the relevant groups.

Figure 13-40: Select Member Groups

Select Member Groups	
Searched Groups st	
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-fbel</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-a3421</li> <li>st-compliance-michal [cbc58572-7d1f-409f-bc7d</li> <li>st-subgroup1-test-rename [14a05d00-7b09-412</li> <li>st-subgroup1-test-f8-042a-c</li> </ul>	fd701f9] d-525a9718e299] 21-a9f4-b4d2f26b79b3]
Selected Groups	
<ul> <li>ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b133]</li> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98da-18</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-412a-</li> <li>STQATeam [29f34319-2230-4871-9020-d683d8</li> </ul>	68886c024e] 4886-80f3-49314e2beb60]
	CANCEL SUBMIT



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-958b17b6]</li> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd4]</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-a]</li> <li>st-compliance-michal [cbc58572-7d1f-409]</li> <li>st-compliance-michal [cbc58572-7d1f-409]</li> </ul>	44-fbeb622ce809] a3421fd701f9] f-bc7d-525a9718e299]
Selected Groups	
<ul> <li>ST-Teams-Users [9e870e1f-0c70-48d7-984]</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-444]</li> <li>STQATeam [29f34319-2230-4871-9020-d64]</li> </ul>	- 412a-4886-80f3-49314e2beb60]
	CANCEL SUBMIT

7. Click SUBMIT to apply changes.



Modify Active Directory Configuratio	n			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd1	85c		
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67			
Client Secret				
shellt beeret				
				SUBMIT
÷	Us	er Mappings		
- F	Security	y Profile Mappings		
*	Recordin	ıg Profile Mappings		
Mapping Name				
Member Groups	ST-Teams-Users, ST-load-test-dynamio-rer	name, STQATeam	Select Groups	
One Level O Subt	ree			
				( + )
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
	No re	cords found.		
÷	Rete	ntion Mappings		

8. Click to add this mapping to SmartTAP 360° Live.

The new Recording Profile is displayed:

				0		8			
• Мар	Mapping successfully added.								
Modify	Acti	ive Directory Configurati	on						
		Name	OmarAAD_mappir	ng					
Dire	ect	ory (Tenant) ID	ad41d6c3-67f0-47	cc-9de3-e07fd185c1c7					
Appl	lica	tion (Client) ID	00c65e7a-2064-44	3f-bb24-0de67025bd72					
		Client Secret							
									SUBMIT
•					User M	appings			
•					Security Pro	file Mappings			
•					Recording Pro	ofile Mappings			
		Mapping Name				1			
		Member Groups				Select Groups			
	_	One Level ∩ Subtre				Colour Croups			
(	•	one Level O Subtre	e						
									( + )
		Mapping Name		Member Groups			Search Scope	Modify Mapping	Delete
C	>	Test Recordings		ST, ST-Teams-Users, ST-load	d-test-dynamic-rename		ONE_LEVEL		<b></b>
C	•	test video		test4			SUB_TREE		<b>a</b>
C	>	testaudio		rachelsTest			SUB_TREE		Ē
C	>	bbb		racheltest3			ONE_LEVEL		Ē
C	>	Emergency Respons	e Center	ST-Teams-Users, ST-load-te	st-dynamic-rename, ST(	QATeam	ONE_LEVEL		Ē
C	)	Call Center Recordin	igs	ST-Teams-Users, ST-load-te	st-dynamic-rename, ST	QATeam	ONE_LEVEL		

Figure	13-43:	New	Recording	Profile
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By default, the newly created recording profiles are mapped with all options disabled as shown in figure "Default Recording Profile" below; to configure the profile see Viewing or Modifying Recording Profiles on page 125. The figure "View New Recording Profile" shows an example mapping for "ST-Teams-Users" group. Figure 13-44: Default Recording Profile

	None		~			
Recording Type	INDIE		<b>•</b>			
Desktop Sh	haring					
Pause or Re						
- Call type-						
	T Teams, Skype for	r Business and	1 Lync A/V Recording			
Internal		Incoming	Outgo	ing		
PSTN		Inbound	Outbo			
Federated	_	Inbound	Outbo			
Calls with	h Internal Confe	rences				
	ueue Calls (conf MSFT Teams only	erence mod	ie) =			
Applicable for	man'r reams only					
Applicable for Skyr	pe for Business and	I Lync A/V Rec	cording			
_						
Referred by	Response Grou	Р				
Filter Calls User	- <b>D</b> i	List Type :	Allow   Numbers:		Regular Expression:	
Filter Calls User	r Makes :	List Type : A	Allow V Numbers:		Regular Expression:	
- Announcements		Lune A/V Dec	ording Appouncement Conv	s is required to be installed		
Applicable for Skyp		I Lync A/V Rec	cording. Announcement Serve	r is required to be installed		
Applicable for Skyp	pe for Business and					[ <b>T</b> <sup>*</sup> ]
Applicable for Skyp	pe for Business and	ANN 🗸	Play to calling party	/ File name	Play to answering party	File name
Applicable for Skyp Call type Internal	pe for Business and Incoming Outgoing	ANN 🗸	<ul> <li>Play to calling party</li> <li>Play to calling party</li> </ul>	/ File name / File name	Play to answering party	File name
Applicable for Skyp Call type Internal PSTN	pe for Business and Incoming Outgoing Inbound	ANN V ANN V ANN V	<ul> <li>Play to calling party</li> <li>Play to calling party</li> <li>Play to calling party</li> </ul>	File name File name File name	<ul> <li>Play to answering party</li> <li>Play to answering party</li> </ul>	File name File name
Applicable for Skyp Call type Internal PSTN	pe for Business and Incoming Outgoing Inbound Outbound	ANN V ANN V ANN V	<ul> <li>Play to calling parts</li> </ul>	File name File name File name File name	<ul> <li>Play to answering party</li> <li>Play to answering party</li> <li>Play to answering party</li> </ul>	File name File name File name
Applicable for Skyp Call type Internal PSTN Federated	pe for Business and Incoming Outgoing Inbound Outbound Inbound	ANN V ANN V ANN V ANN V	Play to calling parts Play to calling parts	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated	pe for Business and Incoming Outgoing Inbound Outbound	ANN V ANN V ANN V	<ul> <li>Play to calling parts</li> </ul>	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> <li>Play to answering party</li> <li>Play to answering party</li> </ul>	File name File name File name
Applicable for Skyp Call type Internal PSTN Federated	pe for Business and Incoming Outgoing Inbound Outbound Inbound Outbound	ANN V ANN V ANN V ANN V	Play to calling parts Play to calling parts	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated	pe for Business and Incoming Outgoing Inbound Outbound Inbound Outbound ouncement	ANN V ANN V ANN V ANN V ANN V	<ul> <li>Play to calling part;</li> </ul>	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated Don't Play Anno	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement Desti	ANN V ANN V ANN V ANN V ANN V	Play to calling party Play to calling party	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement Desti	ANN V ANN V ANN V ANN V ANN V	Play to calling party Play to calling party	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated Don't Play Anno	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement Desti	ANN V ANN V ANN V ANN V ANN V	Play to calling party Play to calling party	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated Record Anno Don't Play Anno Block Calls of	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement buncement Desti on Announceme	ANN V ANN V ANN V ANN V ANN V	Play to calling party Play to calling party	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated On't Play Anno Block Calls of Recording Beep	pe for Business and Incoming Outgoing Inbound Outbound Outbound ouncement ouncement Desti on Announceme	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling parts bers : 911	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyf Call type Internal PSTN Federated Record Anno Don't Play Anno Block Calls of Recording Beep Applicable for Skyf	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement buncement Desti on Announceme Tone pe for Business and	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling parts bers : 911	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated On't Play Anno Block Calls of Recording Beep	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound ouncement buncement Desti on Announceme Tone pe for Business and	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling parts bers : 911	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyr Call type Internal PSTN Federated On't Play Anno Block Calls of Applicable for Skyr Play Beep	pe for Business and Discoming Dutgoing Dutgoing Dutbound Dutbound Outbound Outbound Outbound Outbound Outbound Outcement Duncement Desti Don Tone Tone Tone Tone Tone Tone Tone To	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling parts bers : 911	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated On't Play Anno Block Calls of Recording Beep Applicable for Skyp Play Beep	pe for Business and Incoming Outgoing Inbound Outbound Outbound Outbound Outbound ouncement bouncement Desti Tone Tone ng	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling parts bers : 911	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name
Applicable for Skyp Call type Internal PSTN Federated On't Play Anno Block Calls of Recording Beep Applicable for Skyp Play Beep	pe for Business and Discoming Dutgoing Dutgoing Dutgoing Dutbound Dutbound Outbound Outbound Outbound Outbound Outbound Douncement Douncement Douncement Done Tone Tone Tone Tame Tame Tame Tame Tame Tame Tame Tam	ANN V ANN V ANN V ANN V ANN V ANN V	Play to calling party cording. Beep can be played o	File name File name File name File name File name File name	<ul> <li>Play to answering party</li> </ul>	File name File name File name File name

View/Modify Recording Profiles	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)				

#### Figure 13-45: View New Recording Profile

## **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 271 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 the group 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 13-46: 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 Step 4 Configure Azure Active Directory

Client in SmartTAP 360° Live on page 270 and then click

Figure 13-47: Modify Active Directory Configuration

Modify Active Directory Configura	ition			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd18	50		
Directory (Tenant) 1D	au4100C3-0/10-4/CC-90e3-e0/1018	50		
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	~		
Email	mail	~		
Alias	surname	~		
OID	id	~		
One Level  Subt	ree			
Add Groups				
			CANCEL SUBMIT	
Mapping Name	Member Groups	Search Scope	Modify Mapping Delete	
omarAAD	ST_Test_Group, 2E5_users	SUB_TREE		
•	Security Prof	ile Mappings		
- F	Recording Pro	file Mappings		
- F	Retention	Mappings		

3. Select the Retention Mappings tab.

Add Active Directory Configuration				
Name				
Directory (Tenant) ID				
Application (Client) ID	admin			
Client Secret	••••			
				SUBMIT
•	Us	er Mappings		
•	Security	Profile Mappings		
•		g Profile Mappings		
•	Reter	ntion Mappings		
Mapping Name				
Member Groups		Select Group	s	
One Level O Subtree	e			
				<b>(</b>
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
	No re	cords 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 13-49: Select Mer	nber Groups	
--------------------------	-------------	--

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> </ul>	a-1868886c024e] 12a-
✓ STQATeam [29f34319-2230-4871-9020-d6	83d8a1ef2a] 🗸 🗸
~ ^	
Selected Groups	

7. Use the arrow buttons to assign the relevant groups.

Figure 13-50: Select Member Groups

Select Member Groups	
Searched Groups	st
<ul> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd44-</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-a3-</li> <li>st-compliance-michal [cbc58572-7d1f-409f-b</li> <li>st-subgroup1-test-rename [14a05d00-7b09-</li> <li>st-subgroup1-test-rename [14a05d00-7b09-</li> </ul>	421fd701f9] bc7d-525a9718e299] -4121-a9f4-b4d2f26b79b3]
Selected Groups	
ST [104b2b0c-d1a7-46b2-a6ca-958b17b6b1         ST-Teams-Users [9e870e1f-0c70-48d7-98da         ST-load-test-dynamic-rename [5e7ce8d2-41         STQATeam [29f34319-2230-4871-9020-d68.	- -1868886c024e] .2a-4886-80f3-49314e2beb60]
	CANCEL SUBMIT



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-958b17b6</li> <li>ST_Test_Group [845e4dd8-78aa-49cd-bd4</li> <li>STloadUsers [380fac00-b5ed-41ae-b180-</li> <li>st-compliance-michal [cbc58572-7d1f-409</li> <li>st-compliance-test content [144-05 doo 7b4</li> </ul>	44-fbeb622ce809] a3421fd701f9] 9f-bc7d-525a9718e299]
Selected Groups	
<ul> <li>ST-Teams-Users [9e870e1f-0c70-48d7-98</li> <li>ST-load-test-dynamic-rename [5e7ce8d2-</li> <li>STQATeam [29f34319-2230-4871-9020-d</li> </ul>	- 412a-4886-80f3-49314e2beb60]
	CANCEL SUBMIT

8. Click SUBMIT to apply changes.

Figure 13-52: Assigned Member Groups

Modify Active Directory Configuration	1			
Name	OmarAAD_mapping			
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd1	85c]		
Application (Client) ID	00c65e7a-2064-443f-bb24-0de67	025ł		
Client Secret				
				SUBMIT
÷	Us	er Mappings		
•	Security	Profile Mappings		
•	Recordin	g Profile Mappings		
-	Rete	ntion Mappings		
Mapping Name			]	
Member Groups	ST-Teams-Users, ST-load-test-dynamio-ren	ame, STQATeam	Select Groups	
● One Level ○ Subtr	ee			
				<b>(</b>
Mapping Name	Member Groups	Search Scope	Modify Mapping	Delete
	No re	cords found.		

9. Click to add this mapping to SmartTAP 360° Live.

The new Retention Mappings Profile is displayed:

## Figure 13-53: Retention Mappings Profile Successfully Added

Figure 13-54:
---------------

<ul> <li>Mapping successfully ac</li> </ul>	lded.						
Modify Active Directory Configurati	on						
Name	OmarAAD	_mapping					
Directory (Tenant) ID	ad41d6c3	-67f0-47cc-9de3-e07fd185c1c7					
Application (Client) ID	00c65e7a	-2064-443f-bb24-0de67025bd72					
Client Secret							
							SUBMIT
÷			User Map	opings			
•			Security Profil	e Mappings			
→			Recording Prof	ile Mappings			
•			Retention N	lappings			
Mapping Name Member Groups One Level O Subtra				Select Groups			
							( + )
Mapping Name		Member Groups			Search Scope	Modify Mapping	Delete
Central Call Center		ST, ST-Teams-Users, ST-load-test-o	dynamic-rename		ONE_LEVEL		Ē

You can view the new profile in the View/Modify Retention Mappings Profiles page (see Configuring Call Retention on page 64

By default, the newly created retention policy is set to 0 (no calls are retained) as shown in figure "Default Retention Policy"; to configure the retention policy, see Configuring Call Retention on page 64. The Figure "View New Retention Mappings Profile" below shows an example of a new mapping for ST-Teams-Users group.

The default Retention Policy is displayed in the figure below.

Figure 1	L3-55:	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

#### Figure 13-56: View New Retention Mappings Profile

View/Modify Retention Policies			
Name 🗘	Description 🗘	Days 🗘	Modify
Default	Default Retention Group	0	
STQATeam	STQATeam	0	
ST-Teams-Users	ST-Teams-Users	0	
ST-load-test-dynamic-rename	ST-load-test-dynamic-rename	0	
		1 of 1)	

## **Azure Active Directory User Authentication**

For SmartTAP 360° Live version 5.1 and later users are mapped from Organizations' (Tenant) Azure Active Directory (AAD) and authenticate (login) with SmartTAP 360° Live Web using their Microsoft login credentials. SmartTAP 360° Live uses the OpenID Connect Authorization Code Flow) to authenticate users with Microsoft Identity Platform.



Refer to https://openid.net/specs/openid-connect-core-1\_0.html#CodeFlowSteps

Azure Active Directory user authentication involves the following steps:

- Step 1: Register an web application (client) in Azure Active Directory on behalf of SmartTAP 360° Live (see Step 1 Register App in Azure Active Directory below).
- Step 2: Check the API permission for this app in AAD (see Step 2 Check API Permissions on page 303)
- Step 3: Configure Certificates & Secrets for this application in AAD (see Step 3 Configure Certificates & Secrets on page 308)
- Step 4: Configure this client in SmartTAP 360° Live Web as OpenID Connect (OIDC) authentication client, also known as Relying Party (see Step 4 Configure OpenID Connect OIDC Client on page 309).
- Step 5: Assign Security Profile to Azure Active Directory user in SmartTAP 360° Live (see Step 5 Assign Security Profile to Azure Active Directory user in SmartTAP 360° Live on page 311)

## Step 1 Register App in Azure Active Directory

This step describes how to register the App in Azure Active Directory.

## > To register app in ADD:

- 1. Login to Azure portal (https://portal.azure.com/)
- 2. Access Azure Active Directory Service.

		Fig	gure 13-5	7: Azure	Services					
ρs	earch resources, se	ervices, and docs (	G+/)					D Q	_⊈ @ ?	6
zure servic	es									
+	٩			3.0	۲	SQL	Ŧ	۵	$\rightarrow$	
Create a resource	Azure Active Directory	Virtual machines	Storage accounts	Storage explorer	App Services	SQL databases	Azure Database fo	Azure Cosmos DB	More services	

3. In the Navigation pane, click "App Registration" link.

# Overview Getting started 2 X Diagnose and solve problems Manage 者 Users Groups -8 External Identities Roles and administrators Administrative units (Preview) Enterprise applications Devices App registrations Identity Governance Application proxy Licenses Ň. Azure AD Connect 됟 Custom domain names

Figure 13-58: App Registrations

4. On Right side panel client "New Registration".

## Figure 13-59: New Registrations

+ New registration	🕀 Endpoints	🤌 Troubleshooting	💙 Got feedback?

## Figure 13-60: Register an Application

Register an application
* Name
The user-facing display name for this application (this can be changed later).
OIDCAuthClient ~
Supported account types
Who can use this application or access this API?
<ul> <li>Accounts in this organizational directory only (AudioCodes Ltd. only - Single tenant)</li> </ul>
O Accounts in any organizational directory (Any Azure AD directory - Multitenant)
O Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Help me choose
Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.
Web V http://localhost/smarttap/status/target_status.jsf <
By proceeding, you agree to the Microsoft Platform Policies 🖂
Register

- 5. Enter the following details:
  - Name: Enter a name for the client application
  - Supported account types: select the radio button for "Accounts in this organizational directory only (AudioCodes Ltd. only Single tenant)"
  - Redirect URI (optional):
    - If only HTTP is configured in SmartTAP 360° Live enter <u>http://<SmartTAP</u> FQDN>/SmartTAP/status/target\_status.jsf
    - If HTTPS is configured in SmartTAP 360° Live enter <u>https://<SmartTAP</u> FQDN>/SmartTAP 360° Live/status/target\_status.jsf
- 6. Click **Register** to confirm registration.

On successful registration the following details will be displayed.

Home > AudioCodes Ltd.   App registrati	ions >		
🔣 OIDCAuthClient 🖉			
₽ search (Ctrl+/) «	💼 Delete 🔁 Endpoints		
🗮 Overview	Display name : OIDCAuthClient	Supported account types	: My organization only
🗳 Quickstart	Application (client) ID : dc8f153a-98b8-44ea-8cfd-17e2de1b382a	Redirect URIs	: 1 web, 0 spa, 0 public client
🚀 Integration assistant (preview)	Directory (tenant) ID : ad41d6c3-67f0-47cc-9de3-e07fd185c1c7	Application ID URI	: Add an Application ID URI
Manage	Object ID : 9939ba2d-fe96-4c8b-8637-bedad4b77512	Managed application in I.	: OIDCAuthClient
<ul> <li>Branding</li> <li>Authentication</li> </ul>	() Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (L	egacy)? Learn more	
📍 Certificates & secrets			
III Token configuration	Call APIs	Documentation	
API permissions		Microsoft identity platform	
🙆 Expose an API		Authentication scenarios Authentication libraries	
Owners		Code samples Microsoft Graph	
Roles and administrators (Previe		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		

## Figure 13-61: OIDCAuthClient

 Copy the value of Application (client) ID and Directory (tenant) ID for later configuration in the SmartTAP 360° Live Web(see Step 4 Configure OpenID Connect OIDC Client on page 309).

## **Step 2 Check API Permissions**

This step describes how to check API permissions.

- > To check API permissions:
- 1. Open the API Permissions screen (Manage > API permissions).



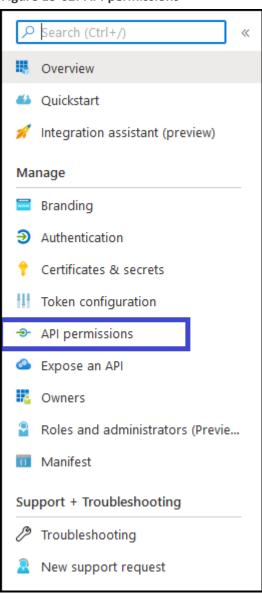


Figure 13-63: Configured Permissions

🖒 Refresh				
			sers/admins as part of the consent process. The list of configured permissions should	
include all the permissions the app + Add a permission	plication needs. <u>Lear</u> Grant admin conse		s and consent	
API / Permissions name	Туре	Description	Admin consent req Status	
∽Microsoft Graph (1)				•••
User.Read	Delegated	Sign in and read user pro	ofile -	•••

🕐 Refresh				
Configured permissions				
Applications are authorized to call include all the permissions the appl			ers/admins as part of the consent process. The list of configured permissions should and consent	
+Add a permission	Grant admin conse	ent for AudioCodes Ltd.		
API / Permissions name	Туре	Description	Admin consent req Status	
∽ Microsoft Graph (1)				•••
User.Read	Delegated	Sign in and read user pro	ile -	•••

- 2. Verify that the 'User.Read' permission is displayed.
- 3. Verify that allow user consent for apps is marked-Go to Azure Ad -> Enterprise applications

Figure 13-64: Enterprise Applications

AudioCodes Ltd.   C     Azure Active Directory     «		ireate a tenant 🛛 What's new 💀 Preview features	∽ Got feedback?
Overview		reate a tenant	V GOT REGDACK:
🚀 Getting started			
Preview 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		
Users     Groups	Tenant information	😚 Azure AD Connect	
External Identities	Your role	Status	
Roles and administrators	Global administrator and 7 other roles	Enabled	
Administrative units	More info	Last sync	
III Enterprise applications	Azure AD Premium P1	Less than 1 hour ago	
Devices	Tenant ID		
App registrations	ad41d6c3-67f0-47cc-9de3-e07fd 🗈		
Identity Governance	Primary domain ai-logix.net		
Application proxy	er regnanes.		
Licenses	fine inc		
Azure AD Connect	Sign-ins 2,000		
🐖 Custom domain names	1.500		
Ø Mobility (MDM and MAM)	500		
Password reset	November	Nov 8	
Company branding	<sup>sgn in</sup> 123		
🛞 User settings	123		
Properties	Craste		

4. Go to Consent and Permissions.

	Figure 13-6	5: Consent and Permission	ns	
Enterprise application	ons   All applications			
« Dverview	+ New application   III Columns   E Preview feature	es 🛛 🛇 Got feedback?		
0 Overview	O Try out the new Enterprise Apps search preview! Click to enable	e the preview. $\rightarrow$		
X Diagnose and solve problems	AzureAdConnectIdGraph		7a4ea29e-096a-4c5a-b301-3740fae47743	1930aa07-74b1-4770-abca-9eb7e2ce5348
Manage	<ul> <li>AzureAuthilana</li> </ul>		ad342dc3-7e34-44e2-a468-47b7ccade03e	ab79199e-435b-4da3-9618-1ed129ab7eb7
	<ul> <li>AzureAuthilanaLocalHost</li> </ul>		bc603dc0-c523-4a6b-940b-169697b9c3c8	41c7b241-3687-4723-a34e-f11fdfbee6ec
All applications	CallDelivery-Live		8b62feb0-170d-487d-8e96-1c95ea687515	f8fadc60-dc6c-422e-a66d-2eccdfb6067f
Application proxy	Daniel-Sharon-AAD-Test		318ed755-dedd-4010-b96c-2e13c331fa5b	2170f67f-53d4-4003-a593-07bbac037b07
Oser settings	Daniel-Sharon-Authentication-Test		333de45d-bc10-4000-8649-a273556f93cb	b6ac4882-daa3-4b6a-a504-73f1c85995e8
Collections	DebAzADAppClient		0a6a09dc-46f5-4d89-92dd-7954e2ab1e32	ea58c3a6-733b-4273-97ad-7205fe9b43c7
Security	G Graph explorer	https://developer.microsoft.com/en-us/graph/graph-explorer	e90b0c51-1fd6-4ca4-8e10-836cb1c4711b	de8bc8b5-d9f9-48b1-a8ad-b748da725064
Conditional Access	Graph Explorer	https://localhost:44328	61a915ed-1eef-4064-b19c-647b4be94e91	d3ce4cf8-6810-442d-b42e-375e14710095
Consent and permissions	👌 IlanaClientApiDev		b8837204-4b3e-407c-8425-0c79617c4f7d	bd1fa56e-7337-4575-a54c-fa4ff8f3b457
Activity	👩 IlanaDaemonMiAppSpeach		53bd2687-9593-4814-9f2e-a0e9702dae07	bc04a491-3b19-41ff-a09b-1e4628b79df7
Sign-ins	o IlanaDevMI		77895cd3-c939-4a63-81de-44d44795a0c6	3d9da9c4-fb0d-48ce-89d8-8eba769a1110
🖬 Usage & insights (Preview)	o IlanaJSClientDev		4dd20839-faf7-4fb9-aaa5-ec0ed7120961	b7df812a-83a7-4ace-ac14-be7ac1bb1b53
<ul> <li>Audit logs</li> </ul>	o IlanaServerApiDev	https://online.meetinginsights.audiocodes.com/ui/login-page.php	04a5a2ec-1922-4ca0-afb3-7eb0a0100edb	d1ed9374-89cb-48d3-ae7d-e82638aa5995
Provisioning logs (Preview)	👌 IlanaWebApp		4c29d5fc-0803-41e5-99e8-c7223fa1bd8c	ca597d54-b00b-447c-b736-c7c14e820e8c
Access reviews	<ul> <li>IntegrationMI</li> </ul>		1b17805d-9ccb-49fd-b3f8-0e4ae7372e31	f558ff52-ef4c-41dc-b8a3-46f52f0fb559
<ul> <li>Admin consent requests (Preview)</li> </ul>	MeetingInsightsAAD		422f516e-d086-479c-bb08-fbcd92c174cc	b1e28a67-68aa-42b1-aa82-5ae3831c09df
roubleshooting + Support	MeetingInsightsBot		ac6e0546-f552-436e-ac64-abcb8b3f9686	20e605e5-a54c-4905-ae49-370c6c8f19b0
Virtual assistant (Preview)	MeetingInsightsWebApp		6ba10234-5ae4-4e9e-ad45-f4de98a24098	1df242d3-c285-429e-84aa-60569aac3a29
New support request	MIAUDCWebApp		2fd31ea4-37c8-4217-a1ee-a4a3552865ff	79faff8b-06d2-494c-8604-54203b54d621
	<ul> <li>mibotpse</li> </ul>		d128d65a-126d-44b8-9bcf-500c4956016b	f7d3aeb5-e65b-461c-b076-4c5f2cb07090
	MillotegrationBEServerApi		4 1200038-1200-4408-901-500049500100	024f92s1-20s6-4022-004b-06b956a62295

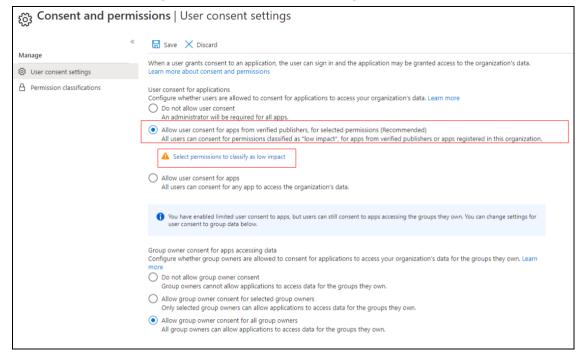
5. Go to User Consent settings , by default the third option (Allow user consent for apps) is chosen, and it's the one used by SmartTap by default.

## Figure 13-66: User Consent Settings

	Save X Discard
Manage 쫈 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.
	Allow user consent for apps     All users can consent for any app to access the organization's data.
	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.

The second option is also supported with the following configuration:

## Figure 13-67: User Consent Settings



- 6. Save and then "Select permissions to classify as "low impact".
  - Figure 13-68: Permission Classifications

Consent and permi	ssions   Permissior	n classifications				
«	+ Add permissions					
Manage						
🔅 User consent settings	Classify permissions					
A Permission classifications	Choose which permissions are	Choose which permissions are classified as "low risk". Learn more				
	API used	Permissions	Description			
		The following permissions are the most risk access. Get started managing cons these delegated permissions with only User.Read - sign in and read user p				

7. Check the openid-sign users in option and Yes, add selected permissions.

	~	+ Add permissions						
Manage								
User consent settings		Classify permissions						
Permission classifications		Choose which permissions ar	hoose which permissions are classified as "low risk". Learn more					
		API used	Permissions	Description				
			The following permissions are the r risk access. Get started managing o these delegated permissions with o User.Read - sign in and read u	user profile ess to data that users have given it access to file				
			Yes, add selected permissions	No, I'll add permissions				

## Figure 13-69: Add Permissions--Openid

## **Step 3 Configure Certificates & Secrets**

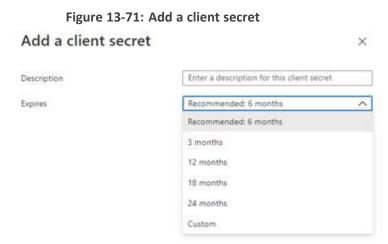
## > Do the following:

 In the Navigation pane, open the Certificates & Secrets page (Manage > Certificate & Secrets).

AADAppClient   Cer	tificates & secrets 🛛 🖈		
Search (Ctrl+/) «		to identify themselves to the authentication service w recommend using a certificate (instead of a client s	vhen receiving tokens at a web addressable location (using an HTTPS ecret) as a credential.
userview Overview			
🗳 Quickstart	Certificates		
🚀 Integration assistant (preview)	Certificates can be used as secrets to prove t	the application's identity when requesting a token. A	lso can be referred to as public keys.
Manage	↑ Upload certificate		
🔤 Branding	Thumbprint	Start date	Expires
Authentication	No certificates have been added for this app	lication.	
📍 Certificates & secrets			
III Token configuration			
<ul> <li>API permissions</li> </ul>	Client secrets		
🗠 Expose an API	A secret string that the application uses to pr	rove its identity when requesting a token. Also can b	e referred to as application password.
• Owners	+ New client secret		
Roles and administrators (Previe	Description	Expires	Value
III Manifest	No client secrets have been created for this a	application.	
Support + Troubleshooting			
Troubleshooting			
New support request			

## Figure 13-70: Certificates & Secrets

2. Click + New client secret link.



3. Enter a "Description", select "Expires" timeand 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 13-72: Client Secret

Client secrets			
A secret string that the application uses to prove its identity when reques	sting a token. Also ca	n 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 360° Live Web (see Step 4 Configure Azure Active Directory Client in SmartTAP 360° Live on page 270).

## Step 4 Configure OpenID Connect OIDC Client

To configure the OIDC Client in SmartTAP 360° Live, first collect all the required details from Web Application Registration in AAD. This includes the following:

- Application (Client) ID
- Directory (Tenant) ID
- Client Secret
- Redirect URI

#### Do the following:

- 1. Login to the SmartTAP 360° Live Web with a user that has "sysAdmin" role.
- 2. Open the OAuth Client Config screen (System > WEB > OAuth Client Config).

Figure 13-73: OpenID Connec	t
-----------------------------	---

System	Users	Status	
Calls	Messages		<
MONITORI	NG		$\sim$
ALARMS			$\sim$
CALL TAGO	ING		$\sim$
CERTIFICA	TES		$\sim$
RETENTION	4		$\sim$
EMAIL			$\sim$
MEDIA			$\sim$
WEB			$\sim$
HTTPS			
Session Tin	neout		
Single Sign	On		
OpenID Co	nnect		
LDAP			$\sim$
AAD			$\sim$

Figure 13-74: OpenID Connect Client Configuration

Modify OpenID Connect Client Con	
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7
Application (Client) ID	dc8f153a-98b8-44ea-8cfd-17e2de1b382a
Client Secret	•••••
Redirect URI	p://localhost/smarttap/status/target_status.jsf
	Modify OIDC Client Configuration
	You are about to change the OIDC dient configuration parameters. This will affect Azure Active Directory user login. Do you wish to continue?

3. Enter the details and then click

SUBMIT

**4.** A confirmation message is displayed that the OIDC client configuration has been successfully saved to SmartTAP 360° Live.

Figure 13-75: OID Client Configuration Parameters Successfully Set

• OIDC client configuration pa	rameters successfully set.
Add/Modify OpenID Connect Client Con	figuration
—Add/Modify OpenID Connect (OI	DC) Client Configuration
Directory (Tenant) ID	ad41d6c3-67f0-47cc-9de3-e07fd185c1c7
Application (Client) ID	dc8f153a-98b8-44ea-8cfd-17e2de1b382a
Client Secret	
Redirect URI	http://localhost/smarttap/status/target_status
	SUBMIT

## Step 5 Assign Security Profile to Azure Active Directory user in SmartTAP 360° Live

This step describes how to assign a user to "agent" security profile in SmartTAP 360° Live.

- > To assign a security profile:
- 1. Login to SmartTAP 360° Live with a user that has "userAdmin" permissionns.
- 2. Open the View/Modify Users page (Users tab > User Management > View/Modify Users).

Figure 13-76: View/Modify Users

View/Modify Users						
<b></b>						
First Name \$	Last Name 🗘	Email \$	Login ID 🗘	Alias \$	Modify	Delete
Deb	Dutta		debajyotid@smarttap.onmicrosoft.com			
		20 🗸 🗔 🛪 🚺	) >>> >= (1 of 1)			

**3.** Assign "agent" security profile and then click **SUBMIT**. A confirmation message is displayed:

• User successf	fully updated.			
Modify User				
	First Name	Deb	Last Name	Dutta
	Email		Login ID	debajyotid@smarttap.on
	Alias		Retention Policy	Default ~
	Recording Profile	None ~	Legal Hold	OFF
Security Profiles	5		Groups	
administrator agent supervisor			Default TEST_G_1	

Figure 13-77: User Successfully Updated

- 4. Login to SmartTAP 360° Live using Microsoft Login Credentials.
  - On the SmartTAP 360° Live login page, click **Sign In With Microsoft 365**.

Figure 13-78: Microsoft Sign in

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

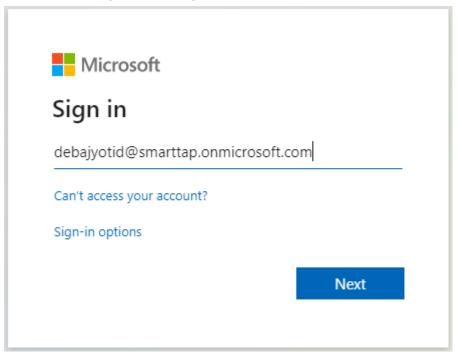
The user is redirected to Microsoft MFC Login page:



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

• Enter the Microsoft credentials

## Figure 13-80: Sign In



• Allow permission to the client app to use user authentication data.

## Figure 13-81: Permissions Requested

Microsoft		
debajyotid@smartta	p.onmicrosoft.cc	m
Permissions	requested	
OIDCAuthClient ai-logix.net		
This application is r	not published b	y Microsoft.
This app would like t	to:	
✓ Maintain access to	data you have give	en it access to
✓ View your basic pressure of the second	ofile	
Accepting these permission your data as specified in t statement. You can chang https://myapps.microsoft	their terms of service Je these permissions	and privacy
	Cancel	Accept

The user is re-directed to SmartTAP 360° Live URI configured in AAD (see Step 1 Register App in Azure Active Directory on page 300 i.e. <u>http://localhost/SmartTAP 360° Live/status/target\_status.jsf</u>

## Figure 13-82: User Device Status

$\leftrightarrow \rightarrow c$	loc	alhost/smai	rttap/statu	us/target_status.jsf	f?code=0/	AQABAAIAA	$\label{eq:constraint} AAGV_bv21oQQ4ROqh0\_1-tAhUpx-AwU-KZNKrxvqwowDvEtdkdNXmX1kFlxXXOIRar-0eFpOnb2qryDsgOpmhCqKB_x_CFgQHrTT96n608D$	☆	1 1	*	0
<b>C</b> au	dioco	des	smai	rt <b>TAP</b> 360°	Â	?	Deb Dutta	EN Y	) (	⋺	Voice.AI
Users	Status	Calls		User/Device Status							
Messages			<								
				No records found.							
							(1 of 1) id <d b=""> bi 12 ¥</d>				
							Last updated: Sun Jul 05 00:53:26 EDT 2020				

5. An Azure Active Directory user logs off from SmartTAP 360° Live Web.

## Figure 13-83: Logout

$\leftrightarrow$ $\rightarrow$ C	loca	alhost/smar	rttap/stati	us/target_status.jsf	?code=OA	QABAAIAA	AAGV_bv21oQQ4ROqh0_1-tAhUpx-AwU-KZNKrxvqwowDvEtdkdNXmX1kFixXXOIRar-0eFpOnb2qryDsgOpmhCqK8_x_CFgQHrTT96n608D	☆	4	÷	Θ
<b>C</b> au	dioco	des	sma	rt <b>TAP</b> 360°	Â	?	Deb Dutta	EN 🗸		G	Voice.4
Users	Status	Calls		User/Device Status							
Messages			<								
				No records found.							
							(1 of 1) 14 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4				
							Last updated: Sun Jul 05 00:53:26 EDT 2020				

6. User is prompted to select the Microsoft account that needs to be signed out.

### Figure 13-84: Pick an Account



7. When the account is selected, the user is redirected to the SmartTAP 360° Live log off page.

Figure 13-85: SmartTAP 360° Live LogOff Page



# 14 Integrate SmartTAP Personal App in Teams

SmartTAP for Teams can be added as a Personal App in Microsoft Teams with the main tab/page that includes On-demand buttons and an additional tab for access to the full application. This section describes how to configure the Azure Registration for this app and for the SSO login to SmartTAP Teams personal app from the Teams App client.

- 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.

This procedure includes the following procedures:



To perform the procedures below you must have Global administrator role in Azure.

- 1. Create and Register the SmartTAP Personal App below
- 2. Set Microsoft API Permissions for Personal App on page 320
- 3. Configure Connection with SmartTAP Server on page 325
- 4. Configure and Upload Manifest on page 325

## Create and Register the SmartTAP Personal App

This procedure describes how to create and register the SmartTAP Personal App.

- > To configure SmartTAP Teams app for SSO and Teams client:
- 1. Go to Azure portal > Azure Active Directory > App Registrations
- 2. Select the registration app that was created for open ID connect or create a new App registration.

	Microsoft Azure	ñ.	${\cal P}$ Search resources, services, and docs (G+/)	
Home	e >			
0	AudioCodes Ltd.   C Azure Active Directory			
0 0	x verview	🐵 Switch tenant 📋 Delete tenant 🕂 C	Create a tenant 🛛 🗹 What's new 📗 💀 Previ	ew features 🛛 🛇 Got feedback?
-	Setting started			
PI	review hub	Azure Active Directory can help you enable	remote work for your employees and partners. Learn	i more
× D	Diagnose and solve problems	AudioCodes Ltd.		
Mana	ige			
<b>&amp;</b> U	Jsers	₽ Search your tenant		
🎎 G	Groups	Tenant information	Azure AD Connect	
🕕 Đ	xternal Identities	Your role	Status	
<b>2</b> , R	toles and administrators	Directory readers and 4 other roles	Enabled	
<b>A</b>	dministrative units	License	Last sync	
IIS EI	nterprise applications	Azure AD Premium P1	Less than 1 hour ago	
D 📮	Devices	Tenant ID		
Ш, А	pp registrations	ad41d6c3-67f0-47cc-9de3-e07fd		
(A) Ic	dentity Governance	Primary domain ai-logix.net		
<b>15</b> A	application proxy	Registric - Contracto		
🔒 Li	icenses	Sign-ins		
▲ A	zure AD Connect			
ĢП с	Custom domain names			
¢Ν	Nobility (MDM and MAM)			Only global administrators, security adm

Figure 14-1: Register SmartTAP Personal App

Figure 14-2: Re	sister an application
-----------------	-----------------------

	Ltd. >	
Register an a	pplicatio	on
* Name		
The user-facing display i	name for this ar	pplication (this can be changed later).
ST-Teams-app		· · · · · · · · · · · · · · · · · · ·
Supported account	types	
Who can use this applica	ation or access '	this API?
Accounts in this org	janizational dire	ectory only (AudioCodes Ltd. only - Single tenant)
Accounts in any org	janizational dire	ectory (Any Azure AD directory - Multitenant)
Accounts in any org	anizational dire	ectory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Personal Microsoft	accounts only	
Help me choose		
Redirect URI (optior		
Contect on (option		e to this URI after successfully authenticating the user. Providing this now is optional and it can be
		or most authentication scenarios.
		e.q. https://myapp.com/auth

- **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.

Search (Ctrl+/) «	🛇 Got feedback?						
Overview Quickstart		Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.					
Integration assistant	Certificates						
nage	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		
Token configuration	No certificates have been added for t	this application.					
API permissions							
Expose an API							
App roles   Preview	Client secrets						
Owners	A secret string that the application us	ses to prove its identity when rea	questing a token. Also can	be referred to as applicat	ion password.		
Roles and administrators   Preview	12 C						
Manifest	+ New client secret						
port + Troubleshooting	Description	Expires	Value		ID		
		12/17/2022	~\$B***********		c6fd6640-bc85-4e96-a1da-872bfaf3b086	0 1	

### Figure 14-3: Certificates & secrets

## 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.

Figure	14-4:	Expose	an API
--------	-------	--------	--------

Home > AudioCodes Ltd. >	
ST-Teams-app 🖈	
	📋 Delete 🜐 Endpoints 💀 Preview features
Uverview Overview	🚯 Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →
😃 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
Owners Council of the second administrators   Preview	
Manifest	

<ul> <li>Overview</li> <li>Application ID URI Oset</li> <li>Quickstart</li> <li>Scopes defined by this API</li> <li>Manage</li> <li>Define custom scopes to restrict access to data and functionality protected by the API. An application that requires access to parts of this</li> </ul>	
Quickstart     Quickstart     Integration assistant     Scopes defined by this API     Define custom scopes to restrict access to data and functionality protected by the API. An application that requires access to parts of this	
Manage 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.	
Branding 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 app	lication
Authentication type. Go to App roles.	
↑ Certificates & secrets     + Add a scope	
Token configuration Scopes Who can consent display User consent display a State	
API permissions No scopes have been defined	
G Expose an API	
App roles   Preview	
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	
Roles and administrators   Preview this APL	
III Manifest	
+ Add a client application	
Client Id     Scopes	
Image: New support request         No client applications have been authorized	

Figure 14-5: Expose an API

- 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



Add a scope	×
Scope name * (i)	
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.	$\checkmark$
Admin consent description * ①	
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 (i)	
Allows Teams to call this apps Web APIs with the same rights as the user.	
State ① 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 14-7: Client ID
```

1fec8e78-bce4-4aaf-ab1b-5451cc387264	~
Authorized scopes ①	
api://stteams-certdemo.meetinginsights.net/05c4cbde-0cf4-4	4144-88c5-81aa3c86d49c
Client ID ①	
Client ID () 1fec8e78-bce4-4aaf-ab1b-5451cc387264	~
	~

- 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

	🕐 Refresh 🛛 🛇 Got feedback	1			
Overview	A You are editing permission(s) to	your application, u	sers will have to consent even if they've already done so previ	ously.	
Quickstart					
Integration assistant	Configured permissions				
lanage	Applications are authorized to call AF all the permissions the application ne		granted permissions by users/admins as part of the cons	ent process. The list of configured permiss	ions should include
Branding	an the pennissions the application ne	eus, Learn more a	about permissions and consent		
-	$+$ Add a permission $\checkmark$ Grant a	admin consent for	AudioCodes Ltd.		
Authentication	API / Permissions name	Туре	Description	Admin consent req Status	
Certificates & secrets	✓ Microsoft Graph (5)				
Token configuration	email	Delegated	View users' email address	<i>a</i>	
<ul> <li>API permissions</li> </ul>	offline_access	Delegated	Maintain access to data you have given it access to	2	
	openid	Delegated	Sign users in		
Expose an API					
App roles   Preview	profile	Delegated	View users' basic profile		
App roles   Preview Owners	profile User:Read	Delegated Delegated	View users' basic profile Sign in and read user profile		
App roles   Preview Owners Roles and administrators   Preview					
App roles   Preview Owners		Delegated	Sign in and read user profile		

### Figure 14-8: 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**.

∋ ST-Teams-app   Au	thentication 🖈	
	🗟 Save 🔀 Discard   🛇 Got feedback?	
uverview 0verview	+ Add a platform	
🍊 Quickstart		
💉 Integration assistant	∧ Web Quickstart Docsg <sup>a</sup>	Ū
Manage	Redirect URIs	
Branding	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. Also referred to a reply URIs. Learn more about Redirect URIs and their restrictions r?	15
Authentication	reply ones, cean more about redirect ons and their resultations	
📍 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	Û
<ul> <li>Expose an API</li> </ul>	https://stteams-certdemo.meetinginsights.net/smarttap/sso_end_auth.jsf	Û
App roles   Preview	Add URI	
R Owners		
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.	
	Select the tokens you would like to be issued by the authorization endpoint:	
	Access tokens (used for implicit flows)	
	ID tokens (used for implicit and hybrid flows)	

- **12.** Set a redirect URI:
  - Select Add a platform

SUBMIT

- Select web
- 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

## **Configure Connection with SmartTAP Server**

This section describes how to configure the OpenID Connect (OIDC) Client Configuration.

### To configure the OpenID Connect OIDC Client:

 In the SmartTap Web interface, under System, select 'OpenID Connect' and set your App details. For more information, see Step 4 Configure OpenID Connect OIDC Client on page 309

I/Modify OpenID Connect (OIDC) Clien	Configuration		
Add/Modify OpenID Connect (OI	C) Client Con	figuration ——	 
Directory (Tenant) ID			
Application (Client) ID			
Client Secret			
Redirect URI	[		

## **Configure and Upload Manifest**

This section describes how to configure and upload the Manifest.

### **To configure and upload the Manifest:**

- 1. Update the Manifest template with the customer details. The Manifest template is located at the following path: AUDIOCODES\Tools\Teams\manifest.json
- The following information must be added to the Tab application Manifest for each customer:
  - Under staticTabs:
    - i. Replace the <customer\_FQDN> with the actual FQDN. For example, "contentUrl": "https://<customer\_fqdn>/smarttap/status/call\_status.jsf", should be "contentUrl": "https://smarttapteamspoc.bot.ai-logix.net/smarttap/status/call\_ status.jsf"

Where <customer\_FQDN> is the FQDN of the SmartTAP server

- Under webApplicationInfo:
  - i. Replace <app\_id> with the Application (client) ID. For example, 05c4cbde-0cf4-4144-88c5-81aa3c86d49c
  - ii. Replace the <customer\_FQDN> where <customer\_FQDN> is the FQDN of the SmartTAP server.
- 3. When the updates to the Manifest template have been completed, zip the three files manifest.json, outline.png, and color.png to a single zip file to give to the customer. The customer should then upload them to their App store using the following: https://admin.teams.microsoft.com/dashboard
  - a. In the Navigation pane, select **Teams apps > Manage apps.**

### Figure 14-11: Manage apps

	Wheresore rearris auth	in center		
		≡		
Â	Dashboard		Dashboard	
දීලී	Teams	~	Sashbourd	
٨	Devices	~	Microsoft Teams upgrade	User search
$\odot$	Locations	$\sim$	Your Teams upgrade status is available.	Search by display or username
පී	Users		We are bringing the capabilities of Skype for Business Online into Microsoft Teams to deliver a single hub for teamwork with built-in, fully-integrated voice and video. You can refresh your Teams	
Ē	Meetings	~	upgrade status below.	<ol> <li>Recent searches will show up here.</li> </ol>
Ę	Messaging policies			
œ	Teams apps		Refresh status	View users →
	Manage apps			VIEW GARTA -
	Permission policies		Activity log	Teams user activity
	Setup policies		Activity tog	LAST 7 DAYS LAST 30 DAYS LAST 90 DAYS
	Customize store			7.5M
6	Voice	~	<ol> <li>No activity in the past 30 days.</li> </ol>	5M 2,672,812
	Policy packages			0 Dec 28 Dec 29 Dec 30 Dec 31 Jan 1 Jan 2
<i>.</i>	Analytics & reports	$\sim$		Chat messages Meetings Organized Meetings participated A 1/3
	Org-wide settings	~	View details →	≥ 1/3 ♥ View details →
	Planning	~		
Ø	Call quality dashboard 🖸		Organization information	Learn more
			Feb 20. 2019	Upgrade to Microsoft Teams Chat, teams, and channels

**b.** Click **Upload** and choose the zip file you created.

#### Figure 14-12: Upload Manifest

::: Microsoft Team:	s admin cente								<b>@</b> ?
	=								
Dashboard		Manage apps						Ora.wie	de app settings
ຊຶ່ງຈີ Teams	~	When you are managing apps for your o						organi	se upp seconds
& Devices	~	organization's app store. You can then u specific users. Learn more	se app permission and app setu	p policies to configure what app	s will be available for				
Cocations	~								
දිරි Users		Pending approval							
Meetings	~	0 0							
Messaging policies			custom apps						
Teams apps	^								
Manage apps Permission polic		+ Upload 🗸 Allow ⊘ Block	දරී Add to team   852 item	ns				Q. Search by name	٥
Setup policies	105	V Name 1	Certification ①						
Customize store		Name 1	Certification U	Publisher 15Five, Inc.	Publishing status 🕕	Status ③ Allowed	Custom app	Permissions (i)	Categories Human resou
⑦ Voice	~	-			-				
Policy packages		<b>∠</b> 365-QA		Advantive		Allowed	No		Training & tut
	~	*345 projects		365Apps		Allowed	No	View details	Communication
Org-wide settings	~	7 7Geese		7Geese		Allowed	No		Communicati
≾≣ Planning	~	Abibot Supplynet		Netlogistik		Allowed	No	View details	Communicati
Call quality dashboa	ard 🖸	<ul> <li>Accessibility Bot</li> </ul>		Future Worx	-	Allowed	No		Productivity, 1
		A Achievers	-	Achievers	~	Allowed	No	-	Human resou

**Example of 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"
1
}
],
"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>"
}
}
```

## **15 Enable Users with Compliance Recordings**

This procedure describes how to enable users with Compliance Recordings using PowerShell scripts on the local machinethat need to run with permissions on the required Teams environment. This step includes the following procedures:

- Prerequisite Join Calls in Teams Tenant
- Create Compliance Recording Policy

## **Prerequisite - Join Calls in Teams Tenant**

This procedure describes how to provide SmartTAP 360° with permissions to join calls in your Teams' tenant. The procedure should be performed by your Office 365 Administrator.

### **To join calls in your Teams tenant:**

- 1. Paste the following URL in your browser with parameters shown below: https://login.microsoftonline.com/common/adminconsent?
  - client\_id=XXXX

Where XXXX is the SmartTAP 360° Bot app ID from BOT service that was created in Step 2-1 Configure Service Channel which can be extracted from Manage > BoT Service. This is required to authenticate your Azure subscription.

- &state=12345
- &redirect\_uri=https://login.microsoftonline.com/common/oauth2/nativeclient
  - 'nativeclient' is the SmartTAP 360° Bot app ID from BOT service that was created and which can be extracted from the Manage > BoT Service page. This is required to authenticate your Azure subscription.
- &scope=
- https://graph.microsoft.com/Calls.AccessMedia.All
- https://graph.microsoft.com/Calls.JoinGroupCall.All

The Authentication Settings are displayed and the connection is authenticated.

sfbTeamsBotChannel   Sett Bot Channels Registration	sfbTeamsBotChannel   Settings Bot Channels Registration					
	☐ Save X Discard					
Overview	Upload custom icon					
Activity log	30K max, png only Display name * ①					
Access control (IAM) Tags	sfbTeamsBotChannel					
Bot management	Bot handle ① sfbTeamsBotChannel					
Test in Web Chat	Description ①					
nalytics						
Channels						
<ul> <li>Speech priming</li> </ul>						
• Bot Service pricing	Configuration Messaging endpoint					
Support + troubleshooting	https URL					
R New support request	Enable Streaming Endpoint					
	Microsoft App ID (Manage) ① 53210052-c601-4d74-bfdc-cc3863e9b375					
	Analytics					
	Application Insights Instrumentation key ① 1921024f-7141-4743-b9e4-5ce18c5e3976					
	Application Insights API key ①					
	Application Insights Application ID ①					
	c65f42e0-4e73-4ddc-830f-48c1a8657bfc					
	OAuth Connection Settings No settings defined					
	Add Setting					

### Figure 15-1: BOT Channel Settings

## **Create Compliance Recording Policy**

This procedure describes how to create a Compliance Recording Policy:

- 1. Create Application Instance
- 2. Create New Compliance Recording Policy
- 3. Set Compliance Recording Policy
- 4. Grant Policy to a Recorded User

### **Create Application Instance**

This procedure describes how to create an Application Instance on the local machine. This action can be performed by 'Admin' user.

### **To create an Application instance:**

 Download Skype for Business module to be able to record Teams users with SmartTAP 360°. The Microsoft Teams Administrator must create a Compliance Recording Policy for SmartTAP 360° and assign it to the recorded users. Refer to the following link:

<u>https://docs.microsoft.com/en-us/skypeforbusiness/set-up-your-computer-for-windows-</u> powershell/download-and-install-the-skype-for-business-online-connector

2. Create a new session with the relevant Teams tenant:

```
PS ::\> Import-Module
SkypeOnlineConnector
PS ::\> $sfbSession = New-
CsOnlineSession
PS ::\> Import-PSSession $sfbSession
```

Refer to: <u>https://docs.microsoft.com/en-us/office365/enterprise/powershell/manage-skype-for-business-online-with-office-365-powershell</u>

3. Enter the following commands:

```
PS .:\> New-CsOnlineApplicationInstance -UserPrincipalName <User Principal
Name> -DisplayName<displayName> -ApplicationId <SmartTAPBOTID>
```

Where:

- <UserPrincipalName>: AD BOT entity Create new Organizational user with onmicrosoft.com domain that is assigned to the BOT.
- <SmartTAPBOTID> -Application ID that was created during the creation of the BOT Service channel (see Step 2-1 Configure Service Channel). This value can extracted from the Settings screen (see example figure below).
- <displayName>: Free text Description field

Output similar to the following is displayed:

```
RunspaceId: 15eea8f7-970e-4061-893e-3573cb5e973b
ObjectId: fd13dab0-dd31-4b58-86d6-122fa07e250f
TenantId: ad41d6c3-67f0-47cc-9de3-e07fd185c1c7
UserPrincipalName :
STTeamsbotstandartlb2@smarttap.onmicrosoft.com
ApplicationId: ff6fc00a-fc73-4062-b99f-55ff0e09b779
DisplayName: STTeamsbotstandartlb2
```

PhoneNumber:			
	PhoneNumber:		

Iome > StTeamsBot > stteamsBot > StTeamsBot   Settings					
StTeamsBot   Settings Bot Channels Registration					
	🗟 Save 🗙 Discard				
Overview	Uplead custom icon         Image: Constraint of the second se				
Activity log	Display name * 🕐				
Access control (IAM)	STReamsBot				
Tags	Bot handle 💿				
Bot management	STeamsBot				
Test in Web Chat	Description O				
🖬 Analytics					
Channels					
Settings					
👃 Speech priming	Configuration				
Bot Service pricing	Messaging endpoint https://www.internet.org/actional/acti				
Support + troubleshooting	Enable Streaming Endpoint				
Rew support request	Microsoft App ID (Manage)				
	STL23506-1664 494: 936b-2c035bed34b				
	Analytics				
	Application Insights Instrumentation key 🕥				
	De20465d-1c39-42b8-ab7e-46e6e44aa2d4				
	Application Insights API key 💿				
	Application Insights Application ID 🕕				
	177d50a7-07db-4cf4-a2c9-1e5cc4b6799e				
	OAuth Connection Settings				
	No settings defined				
	Add Setting				

Figure 15-2: Create Application Instance

4. Enter the following command:

PS .:\> Sync-CsOnlineApplicationInstance -ObjectId
<ObjectID>

Where <ObjectID> is the ObjectID that was generated from the above command. Note this value for procedure in Step 4-3-2 Set Compliance Recording Policy.

### **Create New Compliance Recording Policy**

This procedure describes how to create a new Compliance Recording Policy.

### > To create a new compliance recording policy:

**1.** Enter the following commands:

```
PS ..\> New-CsTeamsComplianceRecordingPolicy -Tenant <TenantID> -Enabled $true
-Description <free text> <ComplianceRecordingBot_PolicyName>
```

 <TenantID>:Azure tenant ID of customer's Microsoft Azure subscription (Microsoft App ID)

- <ComplianceRecordingBot\_PolicyName>: User-defined name of the Compliance Recording Policy
- Example:

```
New-CsTeamsComplianceRecordingPolicy -Tenant ad41d6c3-67f0-47cc-9de3-
e07fd185c1c7 -Enabled $true -Description "Test policy created by admin"
smarttap5v3stln2
```

2. After 30-60 seconds, the policy should be displayed. Enter the following command to verify that your policy was added correctly:

PS ..\> Get-CsTeamsComplianceRecordingPolicy <ComplianceRecordingBot\_
PolicyName>



For more information, refer to: Create New Compliance Recording Policy

### **Set Compliance Recording Policy**

This procedure describes how to set the Compliance Recording policy.

#### To set the Compliance Recording Policy:

**1.** Enter the following commands:

```
PS ::\> Set-CsTeamsComplianceRecordingPolicy -Tenant <TenantID> - Identity
<ComplianceRecordingBot_PolicyName> -ComplianceRecordingApplications ` @(New-
CsTeamsComplianceRecordingApplication -Tenant <TenantID> - Parent
ComplianceRecordingBot -Id <ObjectID>) -<policy-based recording application
behavior> $true/false
```

- <TenantID>: Azure tenant ID of customer's Microsoft Azure subscription (Microsoft App ID)
- <ComplianceRecordingBot\_PolicyName>: User-defined name of the Compliance Recording Policy that was defined in Step 4-3-1 Create New Compliance Recording Policy
- **<ObjectID>:** Object ID that was generated in Step 4-2 Create Application Instance
- <policy-based recording application behavior>: \$true/false

Where <policy-based recording application behavior> is one of the following:

- RequiredBeforeCallEstablishment (default: false): Indicates whether the policybased recording application must be in the call before the call is allowed to establish. If this is set to True, the call will be cancelled if the policy-based recording application fails to join the call. If this is set to False, call establishment will proceed normally if the policy-based recording application fails to join the call.
- RequiredBeforeMeetingJoin (default: false): Indicates whether the policy-based recording application must be in the meeting before the user is allowed to join the meeting. If this is set to True, the user will not be allowed to join the meeting if the policy-based recording application fails to join the meeting. The meeting will still continue for users who are in the meeting. If this is set to False, the user will be allowed to join the meeting even if the policy-based recording application fails to join the policy-based recording application fails to join the meeting. If this is set to False, the user will be allowed to join the meeting even if the policy-based recording application fails to join the meeting.
- RequiredDuringCall (default: false): Indicates whether the policy-based recording application must be in the call while the call is active. If this is set to True, the call will be cancelled if the policy-based recording application leaves the call or is dropped from the call. If this is set to False, call establishment will proceed normally if the policy-based recording application leaves the call or is dropped from the call.
- RequiredDuringMeeting (default: false): Indicates whether the policy-based recording application must be in the meeting while the user is in the meeting. If this is set to True, the user will be ejected from the meeting if the policy-based recording application leaves the meeting or is dropped from the meeting. The meeting will still continue for users who are in the meeting. If this is set to False, the user will not be ejected from the meeting if the policy-based recording application leaves the meeting if the policy-based recording application for users who are in the meeting. If this is set to False, the user will not be ejected from the meeting if the policy-based recording application leaves the meeting or is dropped from the meeting.
- Priority: Determines the order in which the policy-based recording applications are displayed in the output of the Get-CsTeamsComplianceRecordingPolicy cmdlet.
- ConcurrentInvitationCount: Determines the number of invites to send out to the application instance of the policy-based recording application.
- Example:

```
Set-CsTeamsComplianceRecordingPolicy -Tenant ad41d6c3-67f0-47cc-9de3-
e07fd185c1c7 -Identity smarttap5v3stln2 -ComplianceRecordingApplications `@
(New-CsTeamsComplianceRecordingApplication -Tenant ad41d6c3-67f0-47cc-9de3-
e07fd185c1c7 -Parent smarttap5v3stln2 -id 0535d120-cded-4305-a6ef-3e2dbb77c12e)
```

 Set application behavior to False to avoid disconnection of the calls if Bot fails to join:

Set-CsTeamsComplianceRecordingApplication -Identity 'Tag:smarttap5v3stln/ID' RequiredBeforeCallEstablishment \$false -RequiredDuringCall \$false RequiredBeforeMeetingJoin \$false -RequiredDuringMeeting \$false

2. After 30-60 seconds, the policy should be displayed. Enter the following command to verify that your policy was updated correctly:

```
PS .:\> Get-CsTeamsComplianceRecordingPolicy <ComplianceRecordingBot_
PolicyName>
```

```
<u>^</u>
```

For more information, refer to Set Compliance Recording Application

### Grant the Policy to a Recorded User

This procedure describes how to grant policies to a single recorded user and to grant policies to a Security Group containing multiple users.

### **To grant policies to a single recorded user:**

Enter the following commands:

```
PS .:\> Grant-CsTeamsComplianceRecordingPolicy -Identity <Identity> -PolicyName
ComplianceRecordingBot -Tenant <TenantID>
```

Where:

- Identity: UPN of recording-targeted user
- <TenantID>:Azure tenant ID of customer's Microsoft Azure subscription (Microsoft App ID)

For more information, refer to <u>https://docs.microsoft.com/en-us/powershell/module/skype/grant-csteamscompliancerecordingpolicy?view=skype-ps</u>

### > To apply policies to a Security Group:

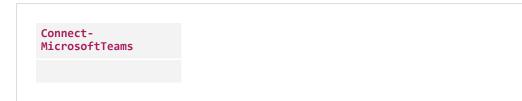
**1.** Install the following modules before applying the policy:

```
Install-Module -Name
MicrosoftTeams
```

Or

Update-Module MicrosoftTeams

2. Connect to the module:



3. Retrieve Active Directory users:



4. Assign the policy to a Security group as shown in the example below:

```
New-CsGroupPolicyAssignment -GroupId cbc58572-7d1f-409f-bc7d-525a9718e299 -
PolicyType TeamsComplianceRecordingPolicy -PolicyName "STTeamsbotstandartlb2"-
Rank 1
```



Refer to the following link: <u>https://docs.microsoft.com/en-us/microsoftteams/assign-policies</u>

# 16 SmartTAP 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	acVAManEnvRestartEvent					
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.2						
Alarm Source	SmartTapAS_ <fqdn></fqdn>	SmartTapAS_ <fqdn></fqdn>					
Alarm Title	Component Restart	Component Restart					
Alarm Type	Other						
Probable Cause	Other						
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 ;	Component <smarttap as="" fqdn=""> restarted</smarttap>	-				

Alarm Field	Description		
	AudioCodesMPSvc; HPXMedia		
	RemoteTransferService; AcProcDump		
	CallDeliverySR; CallDelivery;CallDeliveryLD;		
	CallDeliveryAES; SmartTapMonitoringSvc		

## **Event – Component Resource Failed**

Alarm Field		Description				
Description	<ul> <li>This event is raised in the following circumstances:</li> <li>The allocation of resources for recording licenses has been exceeded</li> <li>Media Server management has failed</li> </ul>					
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> Licenses: imLicQuotaExceeded videoLicQuotaExceeded userLicQuotaExceeded mediaFwdLicQuotaExceeded licUnavailable Media Server Resource Failure: Hmp - channelResourceFailure Hmp createFileFailed Hmp trsTransferFailed Hmp trsTransferFailed</resource></resource></fqdn>	e> is one of the follow	ving:			
	✓ Hmp writeFileFailed					
Alarm Title	Component Resource Error					
Alarm Type Probable Cause Additional	Other Other					
Info						
Alarm Severity	Condition (related resource indicated in parenthesis)	<text></text>	Corrective Action			
Major	The quota for the number of users targeted for Instant Messaging has been exceeded (imLicQuotaExceeded).	IM target quota exceeded	Reduce the number of users/devices targeted for Instant Messaging recording or purchase additiona licenses.			
Major	The quota for the number of users targeted for video has been exceeded (videoLicQuotaExceeded).	video target quota exceeded	Reduce the number of users/devices targeted for video recording or purchase additional licenses.			
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).	-	-			

Alarm Field		Description				
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 Server 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 Server has read/write permissions on the local disk.			

# Alarm - Component Resource Threshold Exceeded

Alarm Field			Descr	ription			
Description		when one of the SmartTAP co applies for the following re		nt resources listed below has reached its pre-defined			
	-	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 configuration in the SmartTAP Web interface Storage Statistics screen.						
SNMP Alarm	acVaResourceThresh	oldAlarm					
SNMP OID	1.3.6.1.4.1.5003.9.40	0.3.2.0.11					
Alarm Source	SmartTAP Licen						
Alarm Title	Alarm - Component F	Alarm - Component Resource Threshold Exceeded					
Alarm Type	Other						
Probable Cause	Other						
Additional Info	-						
Alarm Severity	Condition	<text></text>		Corrective Action			
Critical/Major/Warning	The media storage location threshold has been reached.	Media Storage threshold	•	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.			
			•	Add additional storage capacity to the file server to support additional media files (recordings). The file server is external to SmartTAP.			
	License threshold exceeded	licThresholdExceeded		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.			
				Purchase additional recording licenses			
Cleared	When counter returns below the threshold level.	-	-				

## **Alarm – Connection Failure**

Alarm Field		Description		
Description	This alarm is raised in the following circumstance	s:		
	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>			
	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	Communication Down Details: Managed Device		
	SmartTAP component and SmartTAP Application server is down	<smarttapcomponent>@<hostnamefqdn> failed to send heartbeat within specified time</hostnamefqdn></smarttapcomponent>		
		of <xxms>.Device Infold:</xxms>		
		<smarttapinternalid>HostNameType: COM_ SERVERDisplay Name: <hostname>Last</hostname></smarttapinternalid>		
		heartbeat received on <yyyy-mm-dd> <hh:mm></hh:mm></yyyy-mm-dd>		
	Connection from CallDelivery to	Communication Down Details: Call Delivery at		
	lyncPlugInServerConnDown	<hostnamefqdn> lost connection to FE Plug-</hostnamefqdn>		
		using TCP		
	Connection from CallDelivery to lyncPlugInSWConnDown	Communication Down Details: Call Delivery at <hostnamefqdn> lost connection to</hostnamefqdn>		
		SmartWorks Plug-using TCP		
	Connection from CallDelivery to	Communication Down Details: Call Delivery at		
	communication server	<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</hostnamefqdn>		
		delivery using TCP		
	Connection between Media Proxy and Calldelivery	Communication Down Details: Call Delivery at <hostnamefqdn> lost connection to AC-Medi-</hostnamefqdn>		
		aProxy using TCP		
	Connection from lync Plugin to Media Proxy	Communication Down Details: AC-Plugin at		
		<hostnamefqdn> lost connection to AC-Medi- aProxy using TCP</hostnamefqdn>		

Alarm Field		Description
		<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 -

## **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 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 SmartTAP</li> <li>Check Azure Blob accessibility and health</li> </ul>	
	ComplianceRecordedButNotAssignedToRecProfile (209)	User is targeted but has no recording profile in ST	Assign Recording Profile to user under Compliance Recording 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	Check faulty CDR file	

Alarm Field	Description		
		code <statuscode>, file <path></path></statuscode>	

## 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> Corrective Action</text>				
Critical	Raised when the certificate will expire in less than two days     Certificate will expire in <days< th="">     Verify which certificate is about to ex- and renew it.</days<>				
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 – 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 – 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	.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>•</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	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_	

## 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.	-	-	

# **Event – Configuration Error**

Alarm Field	d 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 an retention policy.			
	A user is mapped to two or more Recording Profile groups via AAD mapping any recording profile.	g. In this case, the user is n	ot be assigned to	
	Problems with Azure Storage account configuration			
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 un is the user na</un></n>	me)		
Additional Information	User xxx will not be recorded. A user can not be assigned to two or more A/ profiles in SmartTAP. Please make sure the user is assigned to one AAD group		-	
	User xxx is not assigned to a mapped retention policy and will be assigned to the default retention policy. A user can be assigned to two or more AAD groups that are mapped to retention policies in SmartTAP. Please make sure the assigned to one AAD group that is mapped only when mapping retention policies.			
Alarm Type	Other			
Probable Cause	Other			
Alarm Severity	Condition	Text	Corrective Actio	
Major	A user cannot be assigned to multiple AAD groups for Recording Profiles.	Failed to assign a Recording Profile to a user	Check AAD Configuration	
Major	A user cannot be assigned to multiple AAD groups for Retention Policies.	Failed to assign a Retention Policy 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	Metadata Container does not exist in Storage Account	Container <containername> was not found in <storagename> Storage.</storagename></containername>	Check Storage Account Configuration	
Major	Metadata Container is Immutable and cannot be used.	Container <containername> in Storage <storagename> is Immutable and cannot be used.</storagename></containername>	Check Storage Account Configuration	

## **Recording Resource Failure**

Alarm Field	Description
Description	This alarm is raised when the recording resource is not available
SNMP Alarm	acVaRecordingResourceFailureAlarm
SNMP OID	1.3.6.1.4.1.5003.9.40.3.2.0.15
Alarm Title	Recording Resource Failure
Alarm Source	botNodeName@botclusterFQDN

Alarm Field	Description			
	botCluster@botclusterFQDN			
Alarm Type	Other			
Probable Cause	Other			
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.	Teams Bot cluster - no recording resource available Alarm.	Increase cluster size imme- diately.	
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.	Teams Bot node - no recording resource available Alarm.	Monitor the sys- tem if more than 60% per- cent of the nodes are over- loaded, con- sider increasing cluster size.	
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.		

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