

Enrollment of AudioCodes Phones and Collaboration Bars in Microsoft Endpoint Manager

1.4

@ Farhad Niat



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1. Introduction

Please find a configuration summary how AudioCodes Phones and Collaboration Bars can be enrolled and managed via Microsoft Endpoint Manager. Keep in mind that not all settings which are available can be set within Endpoint Manager and/or Azure Active Directory. Currently no other settings are applicable except the configuration example which is described in this document.

2. Understanding device sign-in



Sign-in and registration components

Sign-in and registration Flow



3. Understand sign-in flows

<u>User sign in</u>

User sign in using existing conditional access rules. May include Multi Factor authentication and/or device compliance.

Common area devices

Evaluate trusted location and/or device compliance-based controls. Target common area accounts with Azure AD groups in conditional access rules. Do not use Multi Factor Authentication where possible and avoid using device compliancebased controls with hotdesking.

Meeting rooms

Evaluate trusted location, device compliance, or device scoping filter-based controls. Target meeting room accounts with Azure AD Groups on conditional access rules. Do not use Multi Factor Authentication.

4. User sign-in conditional access (Intune Compliance)



5. Device enrollment

Android enrollment

These devices do not run Google Play Services and run Android Open-Source versions. Firmware is built and supported by Microsoft OEM partners. It is highly recommended to update devices after enrollment via Teams Admin Center or AudioCodes OVOC.



Enrollment restrictions

By default, users can only enroll up to 5 devices. If using hotdesking, this number may need to be increased. Consider any existing device type restrictions and if changes need to be made.

Corporate Device Management

Importing device serial numbers into Microsoft Endpoint Manager lets you identify them as corporate devices identifiers. Ensures that only authorized devices are used.

6. Example configuration in AudioCodes lab environment

Azure Active Directory admin	center and a second	R	Û	۲	?	R	admin@ac-germany.cus
**	Dashboard > Audiocodes Lab > Groups >						
🖾 Dashboard	New Group						×
I All services							
Avores Azure Active Directory Azure Active Directory Bests Enterprise applications	Group type * () Security Group name * () Audiocodes_Dynamic_device_Group. Group description () dynamic assignment for audiocodes endpoints dynamic assignment for audiocodes endpoints Membership type * () Dynamic Device Ves Vo Owners No owners selected Dynamic device members * ()						
	Add dynamic query						

6.1 Creation of dynamic device group in AAD

6.2 Add dynamic query for Dynamic device members



Rule syntax:



device.deviceOSType -eq "Android") -and device.deviceManufacturer -in ["Audiocodes"] -or device.deviceModel -eq "C470HD" -or device.deviceModel -eq "RXV80"-or device.deviceModel -eq "RXV81" -or device.deviceModel -eq "C448" -or device.deviceModel -eq "445HD" -or device.deviceModel -eq "C450HD" -or device.deviceModel -eq "450HD" -or device.deviceModel eq"C435HD" -or device.deviceModel -eq "C455HD"

Azure Active Directory admin	center		Q	L © ? A	admin@ac-germany.cus
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Azure Active Directory Azure Active Directory Users Enterprise applications	 Covensiew Diagnose and solve problems Manage Properties Members Covert 	Save X Discard R Got feedback? Configure Rules Validate Rules (Preview) Rule syntax Feedback? Role syntax FederacedericeGSType - eq "Android") - or device.deviceManufacturer - in ["Audiocodes"] - or device.deviceModel - eq "445HD" - or device.deviceModel - eq "45HD" - or device.deviceModel - eq "4	Vladel -eq "RXV80" -or a " -or device.deviceMode	✓ Edit device.deviceModel -eq "RXV100" -or el -eq "C43SHD"	
	Administrative units Group memberships Administratives Group memberships Licenses Licenses Azure role assignments Dynamic membership rules	Add devices to validate against this rule. Learn more + Add devices Validate Name 435_Android_7(8/2021_556 AM	Status View details	🕑 in group	😵 Not in group 🕜 Unknown
	Activity Constraints Access reviews Audit logs Builk operation results Troubleshooting + Support	AudiocodesC443HD AudiocodesC448HD AudiocodesC470HD RXV80_Android_7/22/201_355 PM	View details View details View details View details View details View details		
	New support request	C450HD_Android_7/16/2021_957 AM	View details		

6.3 Validation of Dynamic membership rules

6.4 Creation of Conditional Access Policy in AAD

Azure Active Directory admin o	enter		Q Q	© ? & `	admin@ac-germany.cus 🧶
≪ ☑ Dashboard ☑ All services ★ FAVORITES	Dashboard > Audiocodes Lab > Security Security Azure Active Directory	> Policies … + New policy & What If C) Refresh & Got feedback?			×
Azure Active Directory Azure Active Directory Users Enterprise applications		Ø Search policies † _Y Add filters Policy Name ↑↓	State ↑↓	Creation Date ↑↓	4 out of 4 policies found Modified Date ↑↓
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	Vertual assistant (Preview) Virtual assistant (Preview) Virtual assistant (Preview) Netual assistant (Preview) Netual assistant (Preview)				

6.5 Assignment of conditional access policy to dynamic device

group



6.6 Select cloud apps



6.7 Select Device Platform



M	icrosoft Entra admin center					𝒫 Search re
*	Favorites	~ *	Home > Conditional Access Policies >			
_		_	AudioCodes_IPP_Condition	nal_Access		
•	Azure Active Directory		Conditional Access policy			
()	Overview		Delete '0' View policy information (Previe	2W)		
8	Users All users	^	Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies.	Control access based on signals from conditions like risk, device platform, location, client apps, or device state. Learn more	Control user access based on their physical location. Learn more	
	Deleted users		Name *	User risk ① 1 included	Yes No	
	User settings		AudioCodes_IPP_Conditional_Access	Sign-in risk ①	Include Exclude	
⁴ 2 ⁴	Groups	^	Assignments	1 included	Any location	
	All groups		Specific users included	Device platforms ①	Selected locations	
	Deleted groups		Cloud apps or actions ①			
	Group settings		3 apps included	All trusted locations		
Ð	Devices	^	Conditions ①	Client apps		
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	All devices		Access controls	Filter for devices ①		
	BitLocker keys		Grant ①	Not configured		
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	Multifactor authentication					
	Authentication methods					
	Password reset					
	Custom attributes					
	Risky activities					
07D		• • •	Enable policy			
2	Learn & support	^	Report-only On Off			
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6.8 Grant access to devices which are marked as compliant.

6.9 Compliance policy settings (Built-in Device Compliance Policy) in Endpoint Manager

*Prerequisites: Enabled Android device administrator



Microsoft Endpoint Manager a	Microsoft Endpoint Manager admin center							R	admin@ac-germany.cus
«	Home > Devices > Compliance policies								
1 Home	A Compliance policies	3 Compliance policies Compliance policy settings							×
Z Dashboard	205								
I All services		🖫 Save 🗙 Discard							
★ FAVORITES	🔓 Policies	These settings configure the way the comp	liance service treats devices. Each device evaluates th	nese as a "Built-in Device Compliance Policy",					
Devices	Notifications	which is reflected in device monitoring.							
Apps	I Retire Noncompliant Devices	Mark devices with no compliance policy	Compliant	Not Compliant					
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🚨 Users		Compliance status validity period (days)	30		~				
🎎 Groups		U							
🧟 Tenant administration									
🗙 Troubleshooting + support									

6.10 Creation of Compliance policy



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6.11 Overview Compliance settings



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Clipboard 15 Font 15 Alignment	S Number 15 Styles		Cells	Editing Analysis Sensitivity
A1 * : × ✓ fr Setting				
A	8	c	DE	FG
1 Setting Description		Platform Compl	oliant devices Noncompliant devices	Not evaluated devices Not applicable devices
2 Has a compliance policy assigned Default policy. Devices must have at least	one compliance policy assigned to be compliant.	All	5	0 0
3 Maximum OS version Specify the max OS version compliance re	equirement for devices. E.g. specify "7.1" in this field for Nougat	Android device administrator	5	0 0
4 Minimum OS version Specify the min OS version compliance re	quirement for devices. E.g. specify "7.1" in this field for Nougat	Android device administrator	5	0 0
5 Maximum minutes of inactivity before password is required This setting specifies the length of time w	rithout user input after which the mobile device screen is locked. Recommended value: 15 min	Android device administrator	4	0 0
6 Rooted devices Prevent rooted devices from having corp	prate access.	Android device administrator	5	0 0
7 Block USB debugging on device This setting specifies whether to prevent	the device from using the USB debugging feature.	Android device administrator	5	0 0
8 Company Portal app runtime integrity Checks that the company portal app has t	he default runtime environment installed, is properly signed, and is not in debug-mode.	Android device administrator	5	0 0
9 Is active Default policy. Device must regularly con	tact Intune to be considered compliant.	All	6	0 0
10 Enrolled user exists Default policy. The user must exist and h	ive a valid Intune license.	All	6	0 0
11				

6.12 Actions for noncompliance devices

Microsoft Endpoint Manager a	idmin center					₽ C		admin@ac-germany.cus AUDIOCODES LAB (AC-GERMAN
*	Home > Devices > Complia	nce policies > Audiocodes_/	Android_device_Compliance	_Policy >				
숚 Home	Android complia	nce policy						×
🔠 Dashboard	Android device administrator							
E All services								
★ FAVORITES	Actions for noncomplia	ance (2) Review + save						
Devices	Specify the sequence of action	ns on noncompliant devices						
Apps	Action	Schedule (days after	Message template	Additional recipients (
뤇 Endpoint security	Mark device noncompliant	Immediately						
Reports	Remotely lock the nonco	Immediately						
Lusers	Retire the noncompliant	30 days						
A Groups	~	0	7					
Tenant administration			_					
🗙 Troubleshooting + support								

6.13 Assign Compliance Policy to group

Microsoft Endpoint Manager a	idmin center	ानुः 💭 🛞 ? हर admin@ac-germany.cus 🧕
Home Dashboard	All services > Devices > Android > Audiocodes_Android_device_Compliance_Policy > Android compliance policy ···· Android device administrator	Select groups to include ×
All services FAVORITES	Assignments Review + save	P Search Audiocodes_Dynamic, Device, Group
Devices	Included groups 🔗 Add all users	Selected
Endpoint security Reports	Groups Filter (preview) Filter mode (preview) No groups selected	contesteam @M455416887.cnmicrosoft.com Digital initiative Public Relations Dioital initiative-Public Relations @M455A16887.onmicrosoft.com
Lusers	Excluded groups	Mark 8 Project Team Mark 8ProjectTeam@M365x416887.onmicrosoft.com
 Tenant administration Troubleshooting + support 	When excluding groups, you cannot mix user and device groups across include and exclude. Click here to learn more.	MF MFA_Enabled
	+ Add groups Groups	Retail@M35x416887.onmicrosoft.com
	No groups selected	Sales And Marketing Sales And Marketing @M365x416887.onmicrosoft.com
		SG sg-Engineering
		Selected Items Audiocodes_Dynamic_Device_Group Remove
	Review + save Cancel	Select

6.14 Identify devices as corporate-owned with serial number via Coporate device identifiers

Microsoft Endpoint Manager a	dmin center					Ð	پ في	§ ?	Ŕ	admin@ac-germany.cus	
«	Home > Devices > Enroll devices										
A Home	Enroll devices Corp	Enroll devices Corporate device identifiers									
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I All services		$+$ Add \vee $\hat{\blacksquare}$ Delete 💍	Refresh 🍸 Filter 📰	Columns 🛓 Export							
* FAVORITES	Windows enrollment	Search by identifier									
Devices	Apple enrollment	Identifier Type	Identifier	Details	Date Added	Stat	us			Last Contacted	
Apps	Android enrollment	No Results									
뤇 Endpoint security	Enrollment restrictions										
Reports	🖶 Corporate device identifiers										
🚨 Users	Device enrollment managers										
Sroups											
Tenant administration											
🗙 Troubleshooting + support											



Microsoft Endpoint Manager	admin center 🛛 🖓 🗘	₿?	ন্দ	admin@ac-germany.cus
 Home Dashboard All services Homotres Devices Apps Endpoint security Reports Users Groups Troubleshooting + support 	Home > Erroll devices > Add identifiers Corporate device identifiers Vou can import a list to add device identifiers and details. Select identifier type ③ Setial (Android, IOS, and macOS only) Import identifiers ③ "Company_counted.sv" Total device identifiers in .csv file: 1			×

Upload CSV file with following format. Do not name the columns.

AutoSave 💽 🛱 🎐 × 🤍 × 🗢 Company_owned.csv - Saved +			𝒫 Search				Farhad Niat 👹	
File Home Insert Draw	r Page Layout Formulas Data	Review View Help						삼 Share 🛛 🖓 Comments
Calibri Paste ℃ Glipboard	$ \begin{array}{c c} & & & \\ \hline \\ \hline$	Alignment	v % 9 50 90 Number 5	al Format as Cell Table - Styles - Styles	t Delete Format Cells	Sort & Find & And Briter Select & D	alyze Pata alysis Sensitivity	
A3 * : × ~ .	f _x							
A B 1 sc10327881 device details 2 ws13154975 device details 3 sc10283412 device details 4	C D E F	G H I	J K L	M N O	P Q	R S 1	r u v	W X
Microsoft Endpoint Manager a	idmin center					₽ ₽ ©	? & admir Aubios	n@ac-germany.cus
≪ ↑ Home ™ Dashboard	Home > Devices > Enroll devices	orate device identifi	ers					×
E All services		+ Add 🗸 🗊 Delete 💍 R	efresh 🍸 Filter 📰 Columns	↓ Export				
★ FAVORITES	Windows enrollment	${\mathcal P}$ Search by identifier						
Devices	Apple enrollment	Identifier Type	Identifier	Details	Date Added	Status	Last C	ontacted
Apps	Android enrollment	Serial	SC10283412	device details	7/26/21, 8:48 AM	Not Contacted	Not Aj	pplicable
Security	Enrollment restrictions	Serial	SC10327881	device details	7/26/21, 8:48 AM	Not Contacted	Not Aj	pplicable
Reports	🔚 Corporate device identifiers	Serial	WS13154975	device details	7/26/21, 8:48 AM	Not Contacted	Not Aj	pplicable
Users	Device enrollment managers							
Groups								
Tenant administration								
Troubleshooting + support								

It can take up to 6 hours after sign in until devices are shown as Enrolled.

Microsoft Endpoint Manager a	admin center	Ģ 🖉 ©	? &	admin@ac-germany.cus						
«	All services > Devices > Enroll devices									
A Home	Enroll devices Corp			×						
🖾 Dashboard										
E All services	P Search (Ctrl+) « + Add ∨ 🗊 Delete 🖒 Refresh 🏹 Filter 📰 Columns 🞍 Export									
* FAVORITES	Windows enrollment									
Devices	Apple enrollment	Identifier Type	Identifier	Details	Date Added	Status		Last Contacted		
Apps	Android enrollment	Serial	SC10283412	device details	7/23/21, 9:18 PM	Enrolled		07/23/21, 9:34 PM		
🌏 Endpoint security	Enrollment restrictions	Serial	SC10327881	device details	7/23/21, 9:18 PM	Enrolled		07/23/21, 9:39 PM		
Reports	🔚 Corporate device identifiers	Serial	WS13154975	device details	7/23/21, 9:18 PM	Enrolled		07/23/21, 9:34 PM		
🚨 Users	Device enrollment managers									
A Groups										
Tenant administration										
🗙 Troubleshooting + support										

6.15 Provisioning devices via Teams Admin Center for initial

Login in BULK

-	Microsoft Teams adm	nin cen	ter					@ ? (
		≡										
ඛ	Dashboard		IP phones					Actions				
දිරි	Teams		Control and manage Teams	+ Provision devices								
٨	Devices		type of phone you have, ma	type of phone you have, make changes to their settings, set up alert rules, and apply software updates. Learn more								
	IP phones											
	Teams Rooms		Devices summary									
	Collaboration bars		4 0	0 2								
	Teams displays		Devices Critical	Non-Urgent Offline								
	Teams panels											
٢	Locations		All phones User ph	ones Common area phones Conference phones	s Configuration profiles							
දිරි	Users											
Ē	Meetings		🖉 Edit 🔓 Assign co	nfiguration 🖉 Manage tags 😴 Update ↑ Upg	rade 📿 Restart 🛛 🗙 Remove 4 it	iems		Q 🛛 Ə Y 💿				
Ę	Messaging policies		 Display name 	Username	Device name	Health status (i)	Manufacturer	Model				
B	Teams apps		C450 HD	C450HD@ac-germany.customers.audiocodesaas.com	audiocodes-c450hd sc10327881	Offline	audiocodes	c450hd				
® 	Voice		C470 HD	C470HD@ac.germany.gustomers audiocodesaas.com	audiocodes_c470bd ws13154975	Healthy	audiocodes	c470bd				
	Policy packages		CHUID	en en e gemenjkesten e saad oodesaasten		ricanity	addiocodes					
aii ~~	Analytics & reports		C448 HD	C448HD@ac-germany.customers.audiocodesaas.com	audiocodes-c448hd sc10283412	Healthy	audiocodes	c448hd				
- 	Org-wide séttings		C435 HD	C435HD@ac-germany.customers.audiocodesaas.com	audiocodes-c435hd sc10337495	Offline	audiocodes	c435hd				
~≡	Planning											
4	Notifications & alerts											
2	Call quality dashboard											

Click + Provision devices. Download the template. Put in MAC addresses and click Upload multiple MAC addresses.

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1 MAC Id	Location								
2 00-90-8f-9c-e9-95	Contonso/ Audiocodes Lab								
3 d8-c0-a6-a2-65-0d	Contonso/ Audiocodes Lab								
4 d4-d2-d6-25-f3-a9	Contonso/ Audiocodes Lab								
5									



Select devices and click on Generate verification code. This is needed for first Login. (Verification codes works for 24 hours)



6.16 Monitoring of enrolled devices in Endpoint Manager



Microsoft Endpoint Manager ad	lmin center						G Ω @	? &	admin@ac-germany.c AUDIOCODES LAB (AC <u>-GERM</u>	us 🧕
«	Home > Audiocodes_Android_device_C	ompliance_Policy								
1 Home	💼 Audiocodes_Androi	d_device_Complian	ce_Policy	Device st	atus					×
Dashboard	Device configuration profile									
E All services	₽ Search (Ctrl+/) «	≡≡ Columns 🞍 Export								
★ FAVORITES	 Overview 	 Data in this view is live. 								
Devices	Manage	Q Search								
Apps	Properties	Device	Us	er Principal Nar	ne	Deployment Status		Last status upda	te	
Endpoint security	Monitor	C450HD Android 7/16/2021 9:57 A	M C4	50HD@ac-germ	anv.customers.audiocodesaas.c	Succeeded		7/23/21. 9:21 AN	1	
Reports		RXV80 Android 7/8/2021 11:11 AM	RX	V80@ac-perma	nv.customers.audiocodesaas.com	Ø Succeeded		7/21/21 7:55 AN	1	
Lusers	Device status	C448HD Android 7/7/2021 2:26 PM	1 C4	48HD@ac-germ	anv.customers.audiocodesaas.c	Succeeded		7/23/21. 9:50 AN	1	
A Groups	Oser status	C470HD Android 7/9/2021 11:07 A	M C4	70HD@ac-germ	any.customers.audiocodesaas.c	Succeeded		7/23/21. 9:21 AN	1	
Tenant administration	Per-setting status	RXV80_Android_7/22/2021_3:55 PM	RX	V80@ac-germa	ny.customers.audiocodesaas.com	Succeeded		7/23/21, 4:35 AN	1	
X Troubleshooting + support		C435HD_Android_7/23/2021_7:03 A	M C4	35HD@ac-germ	any.customers.audiocodesaas.c	Succeeded		7/23/21, 10:33 A	м	
					,					
«	Home > Audiocodes_Android_device_C	Compliance_Policy								
A Home	Audiocodes Andro	id device Complian	ce Policy	User stat	tus					×
🔠 Dashboard	Device configuration profile		- 71							
E All services	P Search (Ctrl+/) ≪	📰 Columns 🞍 Export								
★ FAVORITES	() Overview	Data in this view is live.								
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Apps	Properties	User Principal Name	De	wices Count		Deployment Status		Last check-in		
🕵 Endpoint security	III riopenes	C449HD@ac-cermany customers at	idiocodesaas c 1	vices count		Succeeded		7/22/21 2:50 AI	4	
Reports	Monitor	C450HD@ac-germany.customers.ac	idiocodesaas.c 1			Succeeded		7/22/21 2:50 A	4	
🚨 Users	Device status	C470HD@ac-germany.customers.ac	idiocodesaas.c 1			Succeeded		7/22/21 0:06 P		
A Groups	User status	RXV80@ac-germany customers aud	lincodesaas.com 2			Succeeded		7/22/21 9:06 Pt	u u	
Tenant administration	Per-setting status	lovoogae gemany.co.tomers.aau	iocodesaus.com 2			Gaccedad		1726/21, 3.0011		
X Troubleshooting + support										
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Appr	Manage	Setting	Compliant devices	î ^↓	Conflict ↑↓	Pending	↑↓ Error	†↓ I	Not applicable	\uparrow_{\downarrow}
Endopint courity	Properties	PasswordMinutesOfInactivityB	6		0	0	0	()	
Reports	Monitor	OsMaximumVersion	6		0	0	0	()	
	Device status	SecurityBlockJailbrokenDevices	6		0	0	0	0)	
A Groups	User status	SecurityRequireCompanyPortal	6		0	0	0	0)	
Tenant administration	Per-setting status	OsMinimumVersion	6		0	0	0	()	
		SecurityDisableUsbDebugging	б		0	0	0	0)	
 roubleshooting + support 										

6.17 Monitoring of registered devices in AAD

