Programming instructions KochCloud (door communication over the Internet)

kochcloud.ch



Index	Page
Introduction	2
Create an account (register)	3
Login	4
Homepage / Dashboard	5
Account settings	5
- Change account password	
- Enable email notifications	
- Log out from all devices	
- Enable Two-factor-authentication	5/6
Join project	7
Clients overview	8
- Client pairing options	9
Manage (outdoor) clients	10
Manage (indoor) clients	11
Manage huntgroups	11
Manage applets	12
Project overview	13
Gateway settings	13
Manage project members	14
Check activities	15
Service	16



Introduction

KochCloud is nothing more than an IP-PBX on the Internet. The KOCH Video Cloud-Gateway AVC1 connects to only this IP-PBX via an Internet connection (provided by the customer). All functions of the Gateway and its settings are stored in the KochCloud in a socalled project.

Settings and programming, such as creating and changing call destinations or huntgroups, are made via the KochCloud web interface. Rene Koch AG can access the KochCloud project during the whole set-up phase, afterwards the company only has access if the customer authorises it, e.g. in a service case.

Once the order has been processed at Rene Koch AG and the device is ready to ship, a **Project Invitation** is automatically emailed to the customer. By accepting this invitation, the customer takes over the project as an administrator and is able to invite other users and grant them corresponding permissions.

Users can (manually) join the project through hardware authentication, even without an invitation. Refer to "Join project", page 5.

The user must first register on kochcloud.ch to be able to use either form of access.

After installing the device, the KochMobile app (iOS or Android) needs to be downloaded from the respective store and connected to the KochCloud project by QR code.

KochMobile is also available as a desktop version for Windows: <u>KochMobile Desktop Latest (kochcloud.ch)</u> oder <u>www.kochag.ch/downloads</u> > Dokumentgruppe > Software

Alternatively, third-party devices can also be integrated as long as they are compatible with TLS encryption.

Create an account (register)

To be able to manage KochCloud projects, the person responsible must register and log in first. They then can configure the customer specific settings for the project via their account. Project-settings are set and stored in KochCloud web interface and will be synchronised to the Cloud-Gateway AVC1 after.

Every change is logged in the background.



- 1. Set language, if necessary
- 2. Select Register

A valid e-mail address must be entered when registering, in order to receive a confirmation link.

The account cannot be used without this confirmation.

- 1. Enter your own e-mail address and then repeat it
- 2. Enter your first name and last name
- Enter a suitable password and then repeat it (*min.* 8 characters, 1 lowercase and 1 uppercase letter, 1 number and 1 special character +*ç%&/()
- 4. Accept the Terms of Service and Privacy Policy
- 5. Click on Register

We will send you an e-mail with the confirmation link in the next few minutes.



6. In the e-mail click on:

Confirm E-mail

Once your e-mail address has successfully been confirmed, this screen will appear and you can navigate to the Dashboard (Project overview)



Login

To edit projects, you need to log into the KochCloud using your registered e-mail and password.

When two-factor-authentication is enabled, the 2FA code check follows. (to enable, refer to "Two-factorauthentication", page 7)



Forgot password?

Simply enter your e-mail and click on Submit.

In case you forgot your account email address, please contact our customer support.

	FC	prgot p	oassw	vord?
lf you reset l	forgot your passwo nk in the next few	ord, enter your ad minutes. In case	ccount email ac	ldress and we will send you ir password and your accou
If you reset l email,	forgot your passwo nk in the next few please contact our	ord, enter your a minutes. In case customer suppo	ccount email ac you forgot you ort.	Idress and we will send you Ir password and your accou
If you reset I email, @	forgot your passwo nk in the next few please contact our E-Mail Address	ord, enter your a minutes. In case customer suppo	ccount email ac you forgot you ort.	ldress and we will send you Ir password and your accou
If you reset I email, @	forgot your passwo nk in the next few please contact our E-Mail Address	ord, enter your a minutes. In case customer suppo	ccount email ac you forgot you rt.	ldress and we will send you Ir password and your accou
If you reset l email, @	forgot your passwc nk in the next few please contact our E-Mail Address	ord, enter your ao minutes. In case customer suppo	ccount email ac you forgot you rt.	Idress and we will send you Ir password and your accou Submit >

Homepage / Dashboard

After logging in, the User will be redirected to the dashboard. This is the start page for all other project-related actions.



Account settings

 Open "Account settings" Change password Enable two-factor-authentication (see 1) Log out from all devices Enable email notifications for several a 	following page) activities*	1 ✿ ᠌ 目 (→	
ACCOUNT	5 EMAIL NOT	IFICATIONS	
Username G E-Mail Address	Beat Zehnder bzehnder@kochag.ch	Change username	
* notifications for: - login from an unknown IP	~		
- two-factor-authentication - member and applet management - client and call group management - support mode	En	able 2FA	2
Individually adjustable for each project member; selection depending on authorisation (page 13)	L	ogout	4

Two-factor-authentication (2FA)

In addition to a secure KochCloud password, it is recommended to activate the two-factor authentication. This requires a smartphone or PC with an Authenticator app (e.g. from Microsoft or Google).

- 1. Install your preferred authenticator app on your smartphone or PC
- 2. Use the shown QR-Code or Key to setup your authenticator app to show the 2FA code (TOTP)
- 3. Enter the shown 2FA code and your KochCloud password here
- 4. Confirm the activation by clicking «Activate two-factor-authentication"



Join project (hardware authentication)

It is possible to join a project by hardware authentication (e.g. for on-site support or a change of administrator) without e-mail invitation. However, in addition to physical access to the AVC1, an account on kochcloud.ch is required.

- 1. Log in to kochcloud.ch (register first if necessary)
- 2. Click on the *Join project* button in the Project-Overview (the following window will pop up)
- 3. *Enter* the 6-digit serial number of the AVC1. The serial number sticker is located on the inside of the device's top lid.
- 4. Click *Submit* Leave the dialogue window open for the next steps.
- 5. Press the white key inside the AVC1 within 10 minutes.

The AVC1 verifies the entered serial number on kochcloud.ch and a message confirming the access will appear.

6. Click on Continue to project



Further notes

If the white button was not pressed within 10 minutes, the authentication must be restarted. Reload kochcloud.ch and repeat from point 2.

Project members cannot remove themselves from a project (except KOCH employees).

Since in theory anyone can have full access to a KochCloud project by hardware authentication, the control cabinet with the AVC1 Gateway must not be accessible to unauthorised persons!



Clients overview

Clients are users of the KochCloud, usually TC:Bus outdoor intercom stations, IP cameras or devices with the KochMobile app (iOS/Android/Windows) installed. Third-party devices can also be integrated as clients. In order for them to work, they must be able to establish an encrypted SIP connection via TLS.

1. After opening a project from the Dashboard, click the *Clients* tab to see this page.

	1 CLIENTS	HUNTGROUPS	APPLETS	GATEWAY	MEMBERS	ACTIVITIES
	Outdoor Clier Eingang (kc000	3 hts 1 1 1 1 2575_c001) 200575_c		Indoor Clients	€ 9576 set up 9575 7	2 + \$ now \$ 8 ≯ 1 ▶ \$ 8 ≯ 1
L		l			C	lient QR Code
2. 3. 4. 5. 6. 7.	Client status: Reload status Add new clien Change sequ Set up & pair KochMobile a Disconnect/re	green=online / r s of the clients nt (refer to page lence of clients a client. Display app (pairing optic eset client	red=offline / g 12) / QR code an on details, se	grey=IP camera Id scan with the e next page)		6 Strikechcloud.ch/link/
0.	connection of client ID and	f third-party devi password)	ces without th	he app (requires	E-M Desk	tail Address
9. 10.	Change clien Completely d	t settings (e.g. p lelete client	profile name, a	AS address, etc.)		
				Se Client QR Code		7
				This client has already beer possible to use a single clie If you want to transfer this 'Reset' button below. Keep the currently used device w A new password will be no longer work after!	n onboarded using ent for multiple dev client to another of in mind that reset vill no longer work generated. The of Reset client	the QR-Code. It is not vices. device, you may use the tting a client means, that ! current password will

11. Client pairing options

When scanning this QR-Code by Smartphone, Koch-Mobile will start and immediately pair with the client data. If the KochMobile app is missing on the scanning device, you will be redirected to the download page and the corresponding store pages (App Store /Google Play).

Further options:

- 1. Copy the QR code link as text to the clipboard.
- 2. Send complete pairing information to any email address.
- 3. Directly open up and pair KochMobile Desktop* with client data on current device. (*if already installed on this computer).

<u>KochMobile Desktop Latest (kochcloud.ch)</u> or <u>www.kochag.ch/downloads</u> >Dokumentgruppe >Software

https://kochcloud.ch/link/	• 1	
E-Mail Address	⊠ 2	2
Desktop App	모 3	 ;

Client QR Code

Create/edit (outdoor) clients

1. To add a new outdoor intercom station or IP camera, click on + next to *Outdoor Clients* in the *Clients* tab

Enter a na	me for the devic	e, e.g.	+ Create clien	t		
) IP Kamera (kce	00575_c	6 × i	💮 KochMobile 4 (kcø	00575	88 O /	F
) Eingang (kc000	0575_c001)	0 × 1	🕀 KochMobile 2 (kcø	00575 set up 1	now 🎛 🚯 🍃	۴
Outdoor Clier	nts 🗈 🖿 🥑	▼ +	Indoor Clients) C	2 +	\$
CLIENTS	HUNTGROUPS	APPLETS	GATEWAY	MEMBERS	ACTIVITI	ES

- 3. Accept or change the device ID (1–999)
- 4. Select device type (*TC:Bus outdoor intercom station* or *IP camera**)
- 5. Show outdoor client in the KochMobile app in contacts (recommended)
- 6. Enter the TC:Bus outdoor intercom station AS address (0–63)
- Use standard door opener command (sends door opener command with AS address to TC:Bus) or enter HTTP command
- 8. The H.264 video stream of the AVC1 is used for the "Video source in call".
- For "Video source at home" *MJPEG Video* or *Single Frame* can also be selected (instead of *AVC1/TC:Bus)*. *In this case*, add the path, username and password of the corresponding video stream.
- 10. For IP cameras separate to TC:Bus *MJPEG Video* or *Single Frame* can be selected as "Video source at home" and the path, username and password of the corresponding video stream can be entered.

* For IP cameras outside the TC:Bus system, select device type IP camera

💮 KochMobile 2 (kc@	90575 🛛 set up now 🔛 🚯 🤌 🧵		
🌐 KochMobile 4 (kco	90575 踪 🚯 🖌 🧃		
+ Create clien	t	×	
Client name	Entrance 12		2
Client ID	kc000444_c 12		3
Client Role	TC:Bus Outdoor Station	~	4
Show in app			5
AS Address	1		6
Door opener comman	d AVC1 / TC:Bus	~	7
Video source in call	AVC1 / TC:Bus	~	8
Video source at home	AVC1 / TC:Bus	~	9
	Discard	ave	

Client Role	IP Camera 🗸 4
B Show in app	
Video source at home	MJPEG video
Stream Path	Local HTTP Camera Stream Path
Stream Username	Basic Auth Username
Stream Password	Basic Auth Password
	Discard Save

Create/edit (indoor) clients

1. To create a new indoor station (mobile device or PC), click on + next to *Indoor clients* in the *Clients* tab

CLIENTS	HUNTGROUPS	APPLETS	GATEWAY	MEMBER	ACTIVITIE	S
PROJEKT 444	1 1 ■ <i>3</i> 0575_c001)	+ ÷	Indoor Clients	C000575	₹ up now \$? 3 2	÷
IP Kamera (kce	000575_c	0 × 🖬	KochMobile 4 (k	c000575 Create clie	# 0 🗡 nt	i i i
 Enter a nan e.g. "Phone Accept or c (1–999) 	ne for the device X first name" hange the device	, e ID	* . * .	Client name Client ID	KochMobile 12 kc000444_c 12	
4. Automatica password	lly generate or m	anually ente	ra	Password	× 8kfdmazurh	
5. Select devie <i>KochMobile</i>	ce type e or <i>third-party de</i>	evice			KUCHIMUDDIR	
 Show indoc contacts (or 	or client in the Ko ptional)	chMobile ap	p in	Show in app		(
7. Save or dis	card entries				Discard	Save

Create and manage huntgroups

In the *Huntgroups* tab clients can be assigned to huntgroups. An ID and TC:Bus serial number are allocated to each group. Making a doorcall to the according TC:Bus serial number, or a SIP call to the Group ID will make all the devices in this huntgroup ring.

11/16

To create a new Huntgroup, open the *Huntgroups* tab and click the +
1. Accept or change the Huntgroup name, e.g. Call Group 1
2. Accept or change the Huntgroup ID (1–999)
3. The 6-digit TC:Bus serial number is automatically generated from the ID counter but can be changed
4. Show huntgroup in the KochMobile app in contacts (optional)
5. Select the clients that should be in the Huntgroup (click on them)
6. Save or discard entries

+ Create hun	tgro	up	×
🚢 Group name	Hunt	group 3	1
🚢 Group ID	kc000	444_g 3	- 2
TC:Bus Serial Nr.	1000	3	- 3
B Show in app			4
Clients in group	3/20		
Client 1		Client 4	
Client 2		Client 5	5
Client 3		Client 6	
		Discard	Save 6

Create and manage applets

The Video Cloud Gateway AVC1 can be used to send TC:Bus control functions (e.g. open garage door, switch on lights) and/or HTTP commands. These applets can be configured in the *Applets* tab, and can then be executed in the KochMobile app.

1. Open the Applets tab in the project

CLIENTS	HUNTGROUPS	APPLETS	GATEWAY	MEMBERS	ACTIVITIES
		2			
>_ Garden door	#241	3			
>_ Entrance lighting	#243	۲ 🖡			

- 2. Create a new applet
- 3. Edit/delete an applet
- 4. Name the applet
- 5. Choose the applet type (AVC1 or HTTP)
- 6. Select the TC:Bus command or HTTP methods
- 7. Add specific parameters depending on the command or method
- 8. Save or discard entries

+ Create applet				
Applet name	My custom applet	4		
Applet type	AVC1 Command	~ 5		
Command	Open Door	~ 6		
AS Address	Open Door	7		
	Light Control function Step Camera	8		

+ Create app	blet	×	
Applet name	My custom applet		4
Applet type	HTTP Request	~	5
Method	GET	~	6
Target	http://mysmartlock/open_door		7
	Discard	Save	8

Project Overview / Gateway Settings

The Project Overview displays the project's metadata, the gateway's online status and network settings as well as the status and the buttons for *Sync* Gateway and *Support mode*.

In the *Gateway* tab, TC:Bus parameters can be managed and the AVC1 gateway can be restarted. The codes for DTMF triggers (for third-party devices) are also selected here.

		USERNAME	\$ 53 目 (→
Project Overview 1 # Project nr. Imarketing, Seestrasse 241, Au ZH	#575 Gateway 000000 MAC Addres KochCloud M Software Ver	AVC1 is 50:E0:C7:0E:FB:E1 ocal) 192.168.0.37 ision 1.2.6-5	Sync Gateway 4 Enable Support-Mode 5
CLIENTS HUNTGROUPS AP	PLETS GAT	EWAY MEMBERS	5 ACTIVITIES
AVC1 / TC:Bus 7 Image: Talking Time 56 Image: Talking Time after door opener 3 Image: Talking time after door opener 3 Image: Always send long door opener 1 Image: Always send long door opener	DTMF 8 DTMF Q DTMF Ha DTMF Lig Save	pen Door ang Up ght8	

- 1. Project name
- 2. Metadata of the open project
- 3. Status and network data of the project gateway
- 4. Button *Sync Gateway;* to sync modified project data with the gateway
- 5. Button *Support mode*. Support mode is automatically deactivated 5 days after confirmation of the project invitation. After that, only the customer can reactivate support mode if online support from KOCH is required at a later date.
- 6. Button Gateway restart
- 7. Parameter TC:Bus
- 8. Parameter DTMF (only for third-party devices)

Manage project members

Right after the project has been approved, the owner of the e-mail address confirmed when the project was **created** is the only member of the project and has all the permissions.

They can now invite other project members via the *Members* tab and assign them specific permissions or transfer the entire project management.

The users invited will receive a link via e-mail, which they can use to join the project. They are prompted to create their own KochCloud account first, if they do not have one yet.

End-Users of the KochCloud Service do not need access to the project.

CLIENTS HUNTGROUPS APPLETS	GATEWAY MEMBERS ACTIVITIES				
Invites 2 + There are no pending invites for this projects. Invites can be sent out to any e-mail address and allow a user to join this project either with an existing Koch Cloud account or by creating a new Koch Cloud account. After an invite has been redeemed, the user will be listed in the member's list below.	Members User1@company.com User2@company.com User3@company.com User3@company.com User3@company.com				
 Invite a new member Edit/delete an active member Enter an e-mail address for the invite Enable permissions 	 By inviting other users to this project, they will gain access to viewing and potentially modifying this project and its assets based on the permissions set below. Invites can be sent out to any E-Mail address, users without a KochCloud account, will be prompted to create a new account when redeeeming your invitation. Please note that the permission to manage project members gives a user access to remove any other user (including you) from the project, only allow this for users you really trust. 				
6. Save or discard entries (Save sends the invite)	 Can access project Can manage project members Can manage SIP clients Can manage SIP huntgroups Can manage applets 				
	Discard Save 6				

1. Open the *Members* tab in the project.

Check activities

All manipulations to the project are logged in the *Activities* tab. You can see who did what and when, if required.

		KOCHAGTE	est 🌣	▲ 🗉 (+		
Project Overview Marketing, Seestrasse 241, Au ZH		# Project nr.i≡ VG-Nr.Project tier		#575 000000 KochCloud M		
 Gateway MAC Address IP Address (local) Software Version 	AVC1 50:E0:C7:0E:FB:E1 192.168.0.37 1.2.6-5	Sync GatewaDisable Supp	iy oort-Mode			
CLIENTS HUNTGROUPS	APPLETS	GATEWAY	MEMBERS	ACTIVITIES		
MANAGEMENT CLIENTS CALLS	5					
15. Oct 2024 - 13:51 René Ko	och AG enabled remote su	upport for Marketing, S	Geestrasse 241, A	u ZH		
15. Oct 2024 - 13:51 René Koch AG disabled remote support for Marketing, Seestrasse 241, Au ZH						
15. Oct 2024 - 13:50 René Koch AG enabled remote support for Marketing, Seestrasse 241, Au ZH						
15. Oct 2024 - 09:53 KochAGTest disabled remote support for Marketing, Seestrasse 241, Au ZH						

Service

For answers to frequently asked questions go to FAQ at www.kochag.ch >> (only available in German and French) For direct support, please contact our technical customer support



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KO(H sehen hören sprechen

voir entendre parler

Subject to technical changes