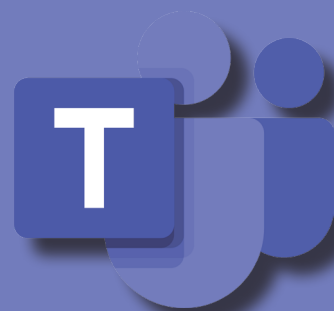




TechNote: Amphitech and CyberGate

Version: 1.0.0 ENG
Date: 31-10-2022



Configure the Amphitech Audio Video
Door Entry Phone for the CyberGate service

CyberGate

Microsoft Teams is the hub for team collaboration in Microsoft Office 365 that integrates people, content, conversations and tools your team needs. Via the CyberGate application that runs in Microsoft Azure you can now connect a Amphitech Audio Video Door Entry Phone to your Microsoft Teams environment. Microsoft Teams users can answer incoming intercom calls – with 2-way audio and live video – on the Teams desktop client, Teams desk phone or Teams Smartphone app and open the door for visitors.

CyberGate is a subscription based Software-as-a-Service (SaaS) hosted in Azure. With CyberGate there is:

no need to setup a hosting environment,
no need to download or install any software from CyberTwice or a 3rd party,
no need to install additional Virtual Machines,
no need for a Session Border Controller (SBC) or extra licenses for your existing SBC
no need for to get additional PSTN like phone numbers for your SIP intercoms.

! Note: For instructions on how to purchase and configure the CyberGate service, see our Tech Note: 'Connect a SIP Intercom to MS Teams using the CyberGate service'. (<https://support.cybertwice.com/knowledgebase.php?article=6>) !

Amphitech Audio Video Door Entry Phone

For this document we used the Amphitech IPAC 500 Audio Video Door Entry Phone (from now on named 'Amphitech') to connect to the CyberGate service (from now on named 'CyberGate'). The IPAC 100 and IP GAP will also work with CyberGate.

Follow the next steps to configure the Amphitech to connect it to CyberGate.

Connect the Amphitech

Connect the Amphitech to the network, power it on and open a webbrowser to its IP-address. Sign in with the configured or supplied username and password of the Amphitech.

When successfully signed-in, the first page shown is the Product Information page.

The screenshot displays the web interface of the Amphitech IPAC 500. The top navigation bar includes the Amphitech logo, the date and time '31 October 2022 15:42:50', the product name 'IPAC 500', and several utility icons (print, refresh, settings, search, home, user profile 'admin'). Below the navigation bar are 'Previous' and 'Next' buttons. The main content area is divided into two sections: 'SETTINGS' and 'PRODUCT INFORMATION'. The 'SETTINGS' section contains two green buttons: 'Advanced configuration' and 'Setup wizard'. The 'PRODUCT INFORMATION' section is a blue header with an information icon, containing a table of product details and a 'PEER TO PEER PARAMETERS' section.

PRODUCT INFORMATION	
Product identity	00000000
Product type	IPAC
File parameters	IPAC50021
Firmware	2.29-0.3i
WEB page version	d459e03
camera firmware version	20211109112310
MAC adress	14:2D:F5:00:99:99
Date	31 October 2022
Hour	15:42:50
Power	PoE+
Temperature CPU	68.845
Uptime	1 min

PEER TO PEER PARAMETERS

SIP address	sip:ipac500@192.168.0.2
ASM	
Connection status	●

Click on the green Setup wizard button to start the initial setup process.
 Click on the green Next button or modify your network settings first.

Amphitech 31 October 2022 15:42:57 IPAC 500 admin

Previous Next

NETWORK SETTINGS

IP address setting: Dynamic

IP-Adresse: []

Subnet mask: []

Select the mode 'IPBX'
 Click on the green Next button.

Amphitech 31 October 2022 15:42:57 IPAC 500 admin

Previous Next

SIP CONFIGURATION

Select the using mode

Mode IPBX

Provide the following information:

SIP Server	cybergate.cybertwice.com
Product name	Use the Username provided by the CyberGate Management Portal
User id	Use the Username provided by the CyberGate Management Portal
Password	Use the Password provided by the CyberGate Management Portal

Click on the green Next button.

Define codes for one or both of the internal relay switches (in this example 1111 for relay 1, 2222 for relay 2).

Click on the green Next button.

Review the settings.
Click on the red Apply button to apply the settings.

Amphitech 31 October 2022 15:42:57 IPAC 500 admin

← Previous Next

VALIDATION

Network setting:

IP address setting: dynamic

IP-Adresse:

Subnet mask:

Configuration SIP

Mode IPBX:

Product name: RW3Y4OAU5NFM60ANGNDF

User id: RW3Y4OAU5NFM60ANGNDF

Identity SIP: sip:RW3Y4OAU5NFM60ANGNDF@cybergate.cybertwice.com

Contacts list

Door opener codes relay 1 and 2:

Code relay	Code	Activation	Type
Code relay 1	1111	Activation	distant
Code relay 2	2222	Activation	distant

click on the button to apply the changes to the device

APPLY

Navigate to the menu Basic Parameters - Contacts list.

Amphitech 31 October 2022 15:34:25 IPAC 500 admin

BASIC PARAMETERS

- Contacts list
- Remote control
- Relays common codes
- Time zones
- Phone settings
- Inputs
- Audio settings
- Speech announcement

CONTACTS

CONTACTS LIST

Show 20 entries Search:

Index	Name	First name	User ID	Priority	Time zone		
001	koos	Ridder	sip:koos.ridder@cybergate.cybertwice.com	Yes	Non		

Showing 1 to 1 of 1 entries

Previous 1 Next

VALIDATE **APPLY**

Add a user by clicking on the blue user+ button.

Provide the following information:

Name & First name	The name of the contact
User ID	Teams user name without the domain *

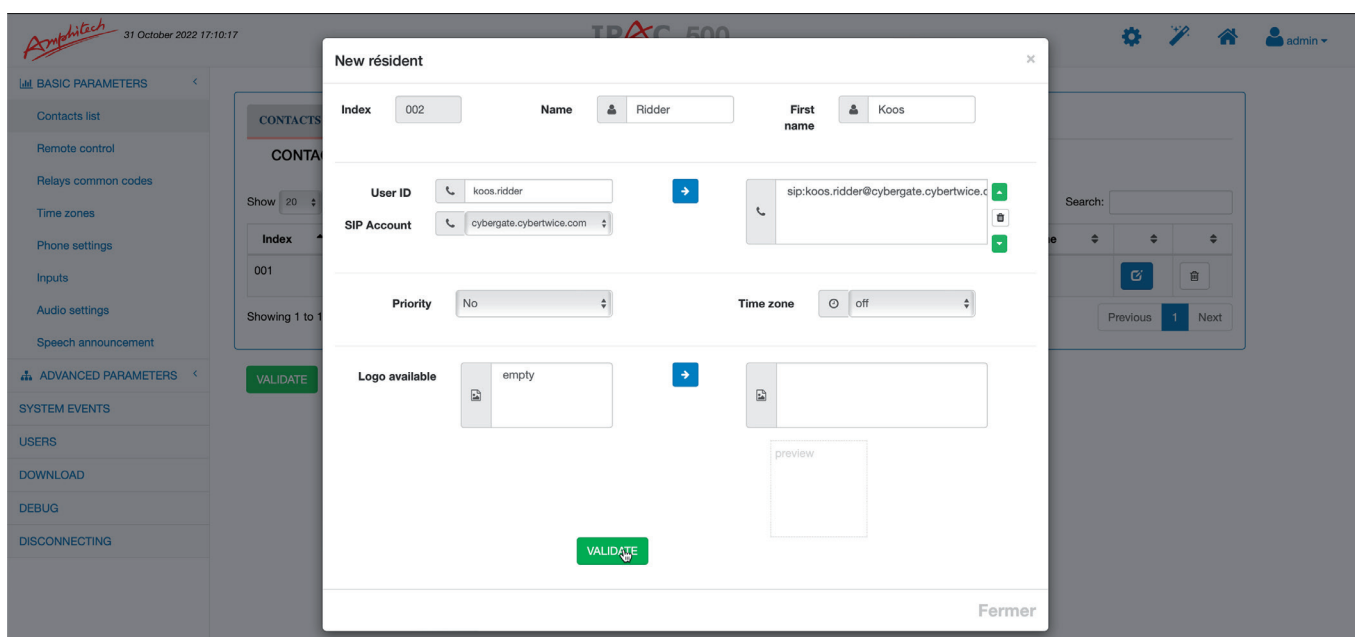
* For example, the user 'Koos Ridder, with the Teams name:

koos.ridder@mycompany.com

will translate to this destination address:

koos.ridder

Click on the blue right-arrow to add the user and click on the green Validate button.



Navigate to the menu Advanced Parameters - Network.

Change the following information:

SIP protocol and ports	
SIP protocol and ports	Change to SIP TCP

Click on the green Validate button.

The screenshot shows the IPAC 500 web interface. The top navigation bar includes the Amphitech logo, the device name 'IPAC 500', and user information 'admin'. The left sidebar shows 'ADVANCED PARAMETERS' expanded to 'Network'. The main content area is titled 'NETWORK PARAMETERS' and has several tabs: NETWORK SETTING, DNS, VLAN, MEDIA ENCRYPTION, AUDIO / VIDEO PORTS, NAT, and SIP PROTOCOL AND PORTS. The 'SIP PROTOCOL AND PORTS' tab is active, showing a dropdown menu set to 'SIP TCP' and a text input field containing '5060'. Below the form is a green 'VALIDATE' button.

Navigate to the menu Advanced Parameters - Audio codes.

Select the following codecs and make sure the sorting is correct:

- G722
- Opus
- PCMU
- PCMA

Click on the green Validate button followed by the red Apply button.

The screenshot shows the IPAC 500 web interface. The top navigation bar includes the Amphitech logo, the date and time '31 October 2022 15:35:42', the device name 'IPAC 500', and user information 'admin'. The left sidebar shows 'ADVANCED PARAMETERS' expanded to 'Audio codecs'. The main content area is titled 'AUDIO CODECS' and has several tabs: AUDIO CODECS SELECT, DTMF Transport, CISCO COMPATIBILITY, and BANDWIDTH CONTROL. The 'AUDIO CODECS SELECT' tab is active, showing two columns: 'Available' and 'Selected'. The 'Available' column lists codecs: AAL2-G726-40, AAL2-G726-32, AAL2-G726-24, AAL2-G726-16, G726-40, G726-32, G726-24, speex32k. The 'Selected' column lists: G722, opus, PCMU, PCMA. Below the form are a green 'VALIDATE' button and a red 'APPLY' button.

Click on the blue Home symbol (in the top right of the page) to show the Product Information. The IPBX Parameters should show the status of the SIP account with a green dot, indication that the registration was successful.

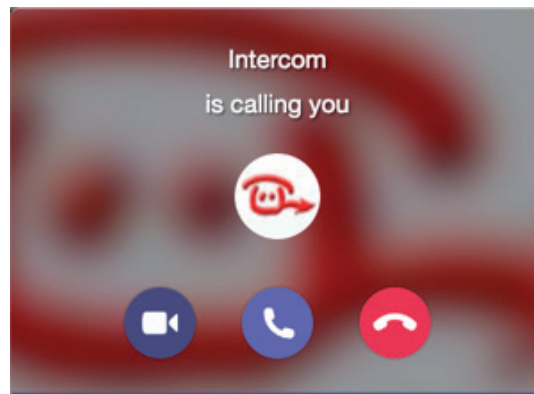
The screenshot shows the Amphitech IPAC 500 web interface. At the top, there is a header with the Amphitech logo, the date and time '31 October 2022 15:41:09', the model 'IPAC 500', and a navigation bar with icons for document, error, settings, edit, home, and user 'admin'. Below the header, there are navigation buttons for '< Previous' and 'Next >'. The main content area is divided into two sections: 'SETTINGS' and 'PRODUCT INFORMATIONS'. The 'SETTINGS' section has two green buttons: 'Advanced configuration' and 'Setup wizard'. The 'PRODUCT INFORMATIONS' section is split into two columns. The left column contains a table of system details, and the right column contains configuration parameters.

PRODUCT INFORMATIONS	
Product identity	000000000
Product type	IPAC
File parameters	IPAC50021
Firmware	2.29-0.3i
WEB page version	d459e03
camera firmware version	20211109112310
MAC adress	14:2D:F5:00:99:99
Date	31 October 2022
Hour	15:41:09
Power	PoE+
Temperature CPU	71.065
Uptime	5:11

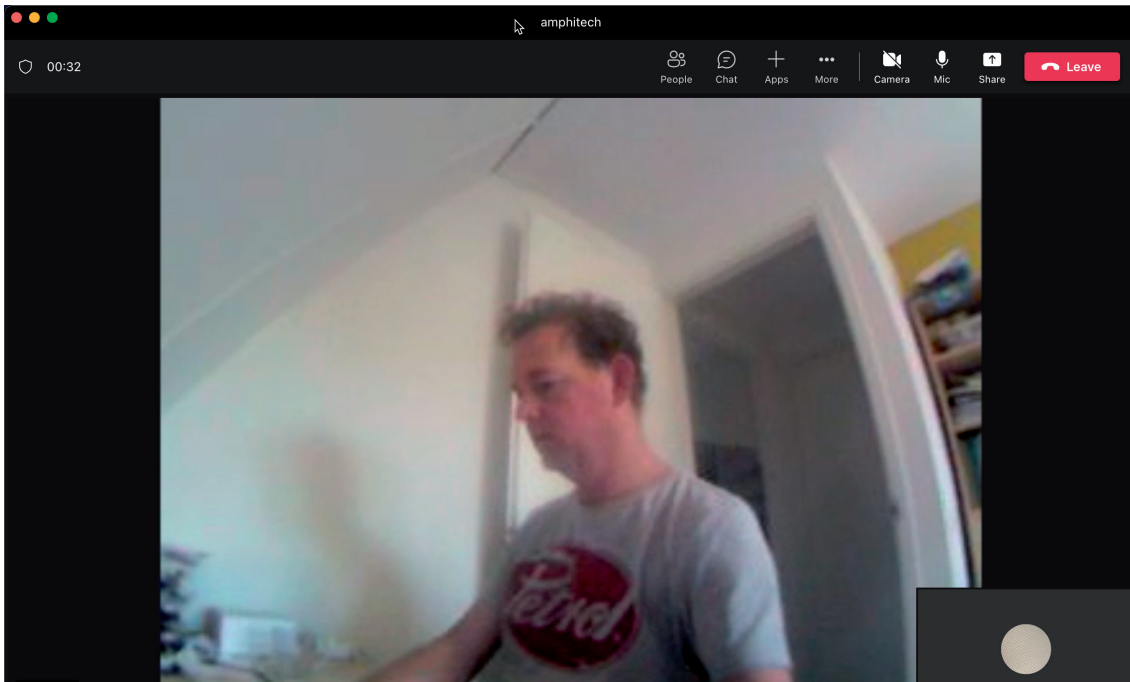
IPBX PARAMETERS	
SIP Account 1	sip:RW3Y40AU5NFM60ANGNDF@cybergate.cybertwice.com:5060
PEER TO PEER PARAMETERS	
SIP address	
ASM	
Connection status	

Configuration of the Amphitech is now finished.

Select the user to call on the Amphitech and click the call button. This will initiate a call to the configured Teams user.



The call will be established and video will be displayed within ± 3 seconds.



To open the door from the Teams call, click on the three dots (...) in the call screen and select the 'Keypad'.

Use the configured code to trigger the relay in the Amphitech and open the door (1111# or 2222#).

Document History

Document Version	Date	Author	Change
1.0.0	31-10-2022	KR	Initial version