

TechNote: 2N and CyberGate

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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 2N IP devices to your Microsoft Teams environment. A 2N Indoor View can set up a call with audio to Microsoft Teams users and answer incoming calls from Teams using the Teams desktop client, Teams desk phone or Teams Smartphone app.

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'. (<u>https://support.cybertwice.</u> <u>com/knowledgebase.php?article=6</u>). Introduction

2N IP Indoor View

For this document we used the 2N IP Indoor View (from now on named '2N') to connect to the CyberGate service (from now on named 'CyberGate').

Use cases:

- Call from 2N Indoor View through CyberGate to a Teams user or Multi-ring group
- Call from a Teams User through CyberGate to the 2N Indoor View

Important:

- Connection: as the 2N Indoor View is not equipped with a camera, the connection is two-way audio only
- Not supported: call from 2N IP (Video) Door Intercom through CyberGate to the 2N Indoor View, or vice versa.

The 2N IP Indoor View is able to setup a secure connection to CyberGate using SIP TLS and SRTP.

Follow the next steps to configure the 2N to connect it to CyberGate.

Connect to the 2N

Connect the 2N to the network, power it on and open a web browser to its IP-address. Sign in as 'admin' with the configured or supplied password of the 2N. After successful login the start screen will show.

2N [®] Indoor	2N Indoor View CZ	EN DE FR IT ES	NL JA Log Ou	t Q ?		
State SERIAL NUMBER 52-4713-4059 FIRMWARE 2.431.56.3		Time Profiles	Holidays			
UPTIME 1h 21m 32s SIP 1 NOT REGISTERED NUMBER 111 SIP 2 NOT REGISTERED NUMBER 111	Calling SIP 1 SIP 2 LOCAL	siP 1	Local Calls			
20		FITTP Command	Yeather		*	
Marcal FAQ	Hardware Hardware	لران Audio	Display			
Degrostics	System онсрутьзумоб	Maintenance	My2N			

2N Configuration

Click on the Blue 'Calling' tile and open the SIP 1 settings.

		2N Indoor View CZ EN D	E FR IT ES NL JA Log Out Q ?
 Image: A start of the start of	Calling 📞	Configuration Video Audio	
.lı		SIP Account Enabled	
10	General Settings	Device Identity ~	1
	SIP 1 >	Display Name	2N Indoor View
	SIP 2	Phone Number (ID)	111
X	Local Calls	Domain	192.168.1.1
Ö			Test Call
		Authentication ~	۔ [
		Authentication ID	
		Password	•••••
		SIP Proxy ~]
		Proxy Address	192.168.1.1
		Proxy Port	Default
		Backup Proxy Address	
		Backup Proxy Port	Default

Provide the following information:

Device Identity	
Display name	Use descriptive name for this account
Phone Number (ID)	Use the Username provided by the CyberGate Management Portal
Domain	cybergate.cybertwice.com
Authentication	
Authorization ID	Use the Username provided by the CyberGate Management Portal
Password	Use the Password provided by the CyberGate Management Portal
SIP Proxy	
Proxy Address	cybergate.cybertwice.com
SIP Registrar	
Registration Enabled	Enable
Registrar Address	cybergate.cybertwice.com
Advanced settings	
SIP Transport Protocol	Select TCP

Click 'Save' to register the 2N to CyberGate over TCP.

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	•	Calling 📞	Configuration Video Audio		
	.11		✓ SIP Account Enabled		
	<u></u>	General Settings	Device Identity ~]
ис		SIP 1 >	Display Name	2N Indoor View	
ırati		SIP 2	Phone Number (ID)	HMAX5H0HQC0AIFCKPFF	
nfigu	\mathbf{x}	Local Calls	Domain	cybergate.cybertwice.com	
'N Co	\mathbf{Q}			Test Call	
2			Authentication ~		1
			Authentication ID	HMAX5H0HQC0AIFCKPFF	
			Password	•••••	
			SIP Proxy ~		1
			Proxy Address	cybergate.cybertwice.com	
			Proxy Port	Default	
			Backup Proxy Address		
			Backup Proxy Port	Default	
			SIP Registrar ~]
			Registration Enabled	✓	
			Registrar Address	cybergate.cybertwice.com	
			Registrar Port	Default	
			Backup Registrar Address		
			Backup Registrar Port	Default	
			Registration Expiry	120	[s]
			Registration State	REGISTERED	
			Failure Reason	-	
			Advanced Settings ~]
			SIP Transport Protocol	TCP 🔶	
			Lowest Allowed TLS Version	TLS 1.0	
			Verify Server Certificate		
			Client Certificate	[Signed by Device]	\$
			Local SIP Port	5060	
			PRACK Enabled		
			REFER Enabled		
			Send KeepAlive Packets		
			IP Address Filter Enabled		
			Receive Encrypted Calls Only (SRTP)		

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2N Configuration

When a secure connection is required, modify the following fields:

Advanced settings	
SIP Transport Protocol	Select TLS
Lowest Allowed TLS Version	Select TLS 1.2
Receive Encrypted Calls Only (SRTP)	Enable
Encrypt Outgoing Calls (SRTP)	Enable

Click 'Save' to register the 2N to CyberGate over TLS.

I	Г	Advanced Settings ~		1	1
		SIP Transport Protocol	TLS 🗳		
		Lowest Allowed TLS Version	TLS 1.2	J	
		Verify Server Certificate			
		Client Certificate	[Signed by Device]	\$	
		Local SIP Port	5060]	
1		PRACK Enabled			
		REFER Enabled			
		Send KeepAlive Packets			
		IP Address Filter Enabled			
		Receive Encrypted Calls Only (SRTP)	✓		
		Encrypted Outgoing Calls (SRTP)	✓		
		Use MKI in SRTP Packets			
		Do Not Play Incoming Early Media			
		QoS DSCP Value	0]	
		STUN Enabled			
		STUN Server Address			
		STUN Server Port	3478		
		External IP Address]	
		Compatibility With Broadsoft Devices			
		Rotate SRV Records			
	L				1
				Save	

Navigate to the blue 'Directory' section, 'Devices'.

In this section you'll define one or more people to call.

			2N Indoor View CZ	EN DE FR IT ES NL JA	Log Out Ø ?
¢	Directory	Ð	← Back to List		
			Basic Settings ~		7
	Devices	>	Device	Name Koos Ridder	
<u>R</u>			Displaye	ed Icon Device icon	\$
S.	Time Profiles		Device	e Type SIP Phone	\$
<u> </u>	Holidays		Phone N	lumber sip:koos.ridder@cyberg	ate 🗙 🖍 🕒
X			Individual Rir	ngtone System Default	\$
\mathbf{Q}			Enable Viewing the Intercom's External C	Camera	
			Face Zooming	Button	

Provide / change the following information:

Basic Settings	
Device Name	Descriptive name for this directory entry
Phone Number	Teams user to call in the format: <i>sip:first.last@cybergate.cybertwice.com</i> *

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

koos.ridder@mycompany.com

will translate to this destination address:

sip:koos.ridder@cybergate.cybertwice.com

Click the 'Save' button to save.

			2N Indoor View CZ EN D	E FR IT ES NL JA Log Out Q ?
🗲 Di	rectory	105	← Back to List	
			Basic Settings ~	
De	evices	>	Device Name	Koos Ridder
S	me Profiles		Displayed Icon	Device icon
	ne i ronies		Device Type	SIP Phone
Ho	olidays		Phone Number	sip:koos.ridder@cybergate 🗙 🖍 📭
			Individual Ringtone	System Default
Q			Enable Viewing the Intercom's External Camera	
			Face Zooming Button	
			L	
	CuborTu	Nico		7

2N Configuration

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2N Configuration

Configuration of the 2N is done.

Press the call button on the display of the 2N to initiate a call to the configured Teams User.

If configured correctly, the Teams client will notify you of an incoming call. Answer it by clicking the phone horn.



The call will now be established.

Document History

Document Version	Date	Author	Change
1.0.0	21-05-24	KR	Initial version
1.0.1	28-10-24	KR	Updated layout

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