CyberTwice

TechNote: 2N and CyberGate

Version: 1.0.1 ENG
Date: 28-10-2024

Configure the 2N IP Indoor View for use with 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 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'. (https://support.cybertwice.com/knowledgebase.php?article=6).

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.

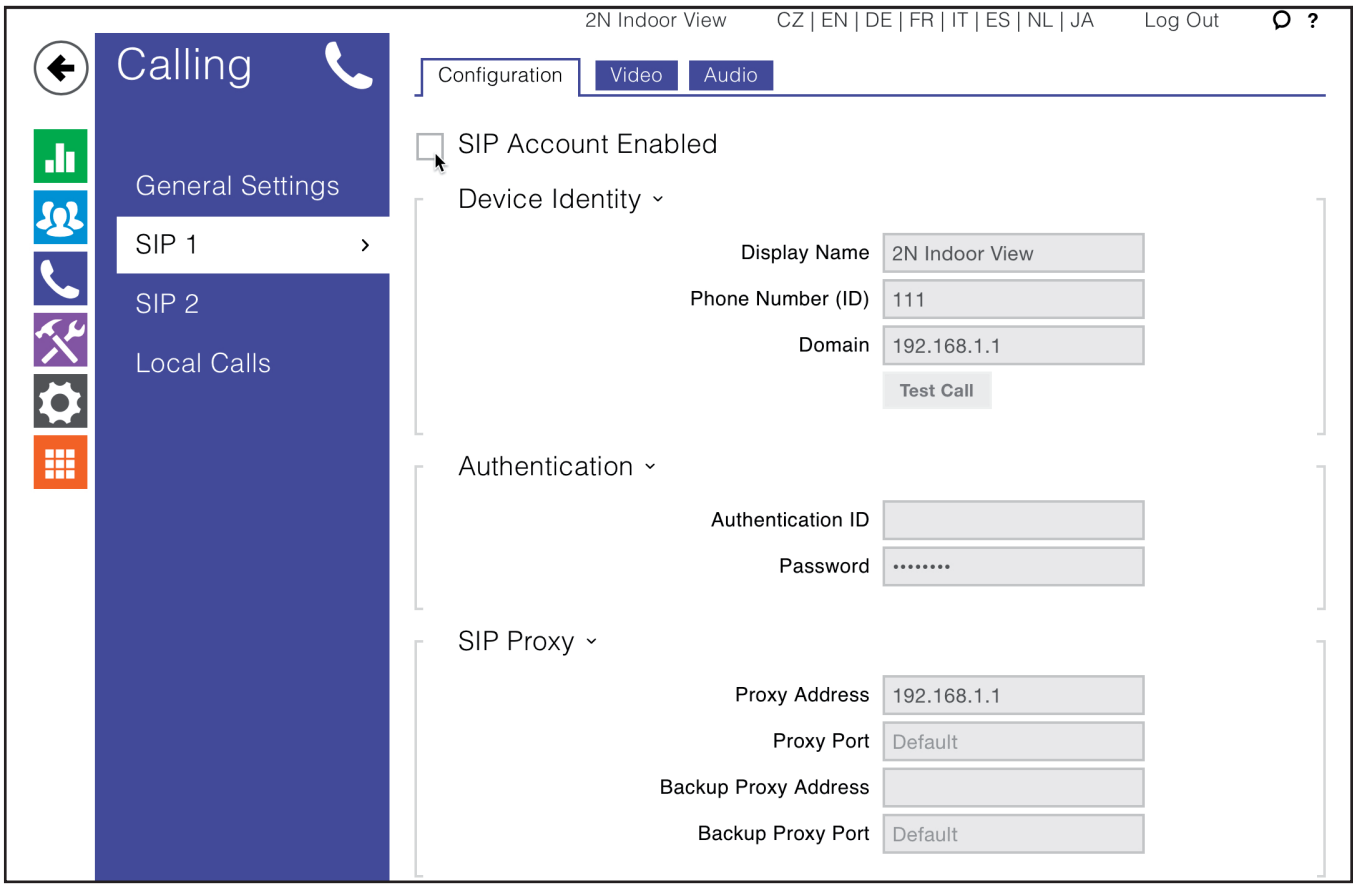
The 2N IP Indoor View is able to setup a secure connection to CyberGate using SIP TLS and SRTP.

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.

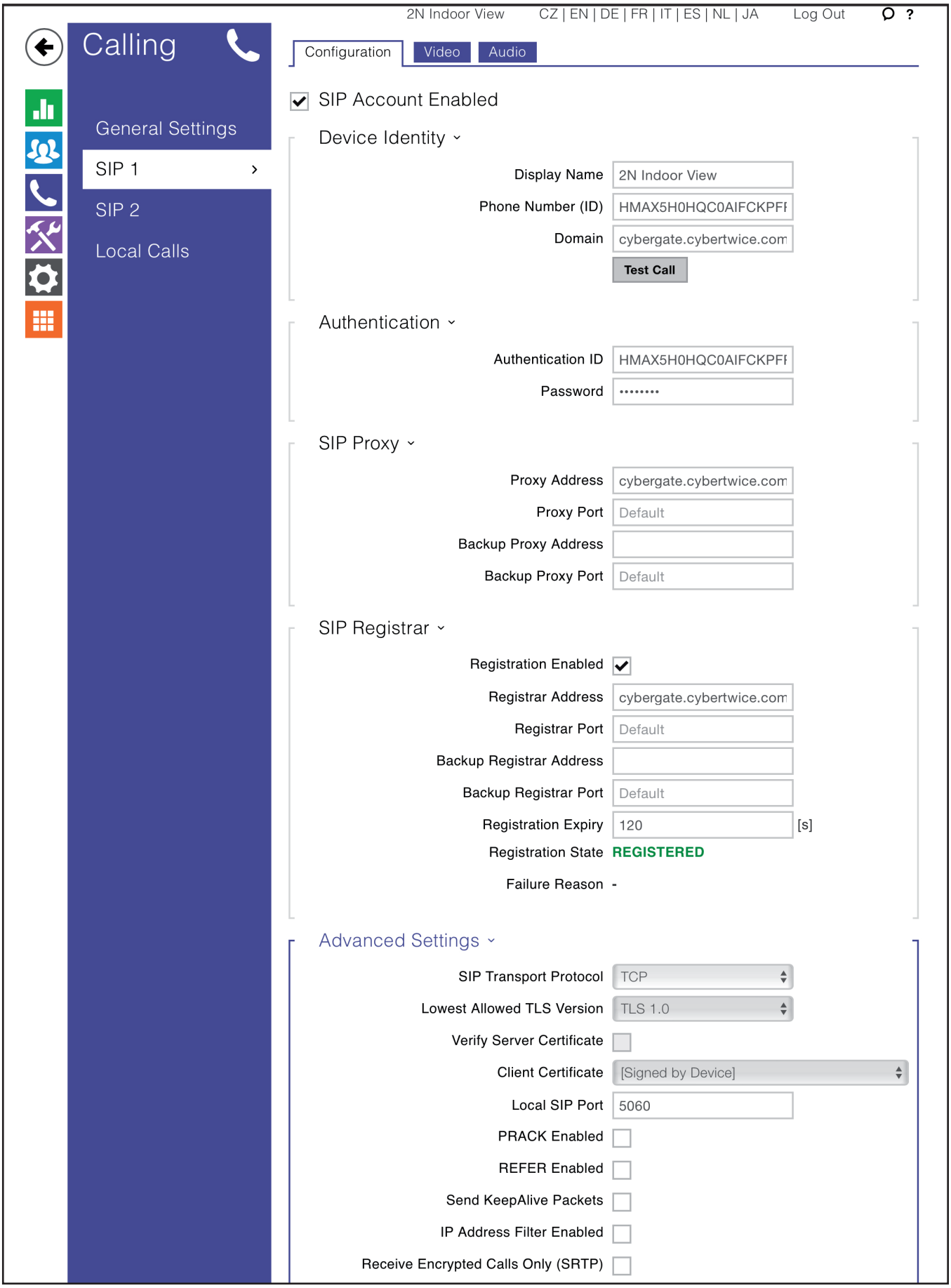
Click on the Blue 'Calling' tile and open the SIP 1 settings.



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

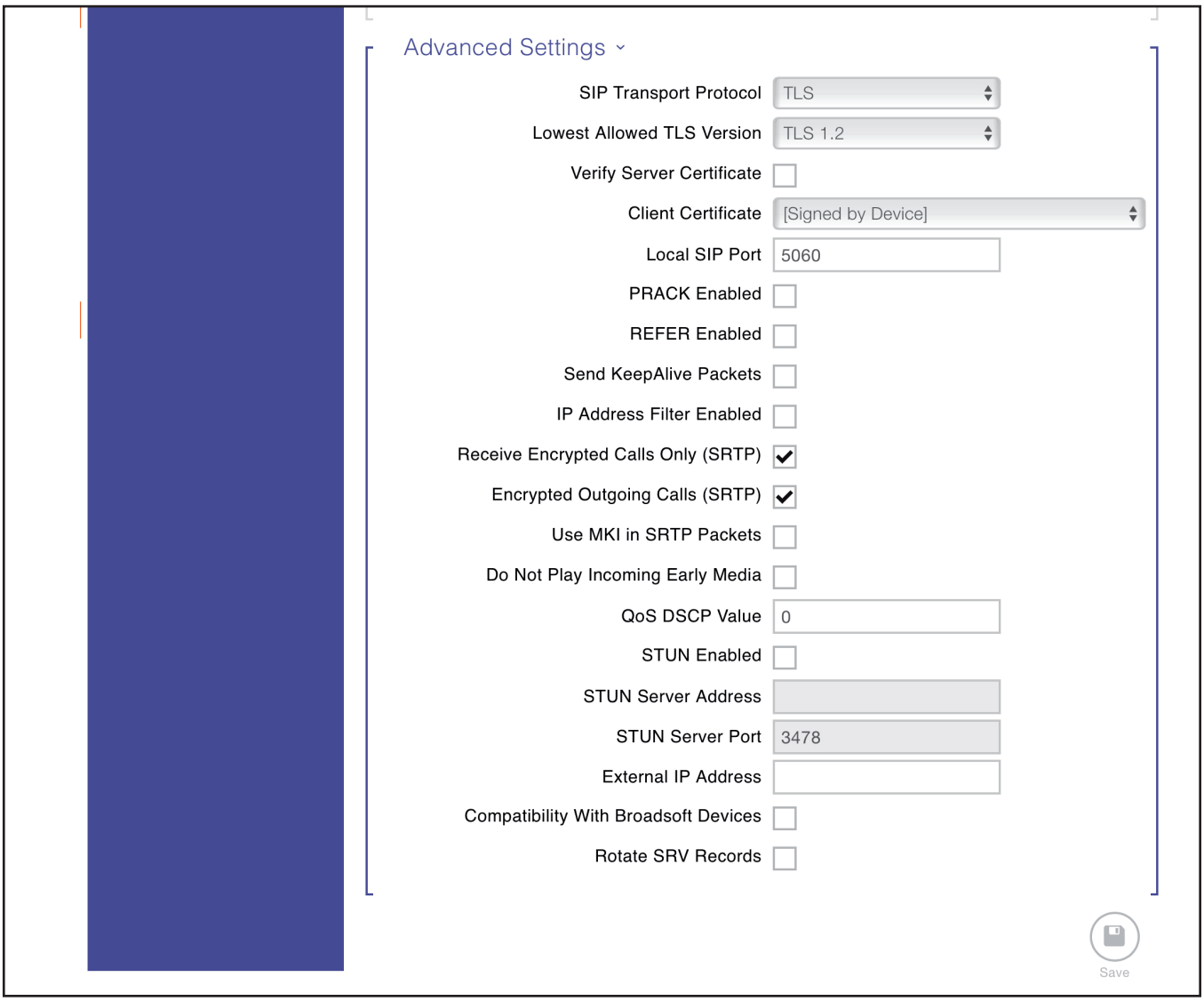
Click 'Save' to register the 2N to CyberGate over TCP.


2N Indoor View
CZ | EN | DE | FR | IT | ES | NL | JA
Log Out
Calling
General Settings
SIP 1
SIP 2
Local Calls
Configuration
Video
Audio
SIP Account Enabled
Device Identity
Display Name
2N Indoor View
Phone Number (ID)
HMAX5H0HQC0AIFCKPFI
Domain
cybergate.cybertwice.com
Test Call
Authentication
Authentication ID
HMAX5H0HQC0AIFCKPFI
Password
SIP Proxy
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)

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

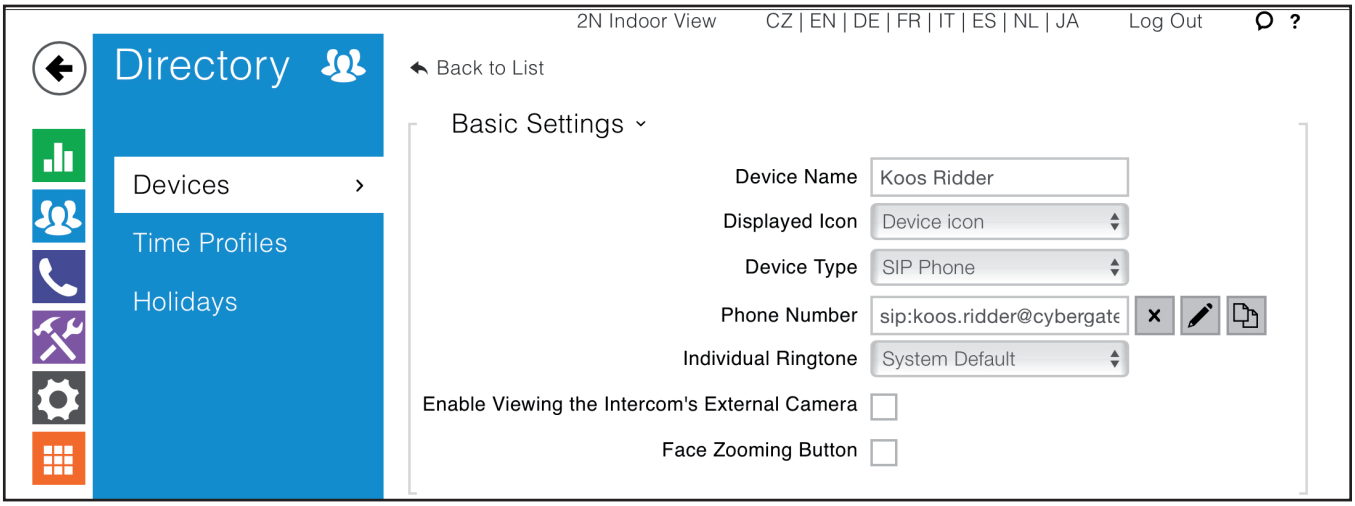
Advanced settings	
SIP Transport Protocol	Select TLS
Lowest Allowed TLS Version	Select TLS 1.2
Receive Encrypted Calls Only (SRTP)	Enable
Encrypt Outgoing Calls (SRTP)	Enable

Click ‘Save’ to register the 2N to CyberGate over TLS.



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

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



Provide / change the following information:

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

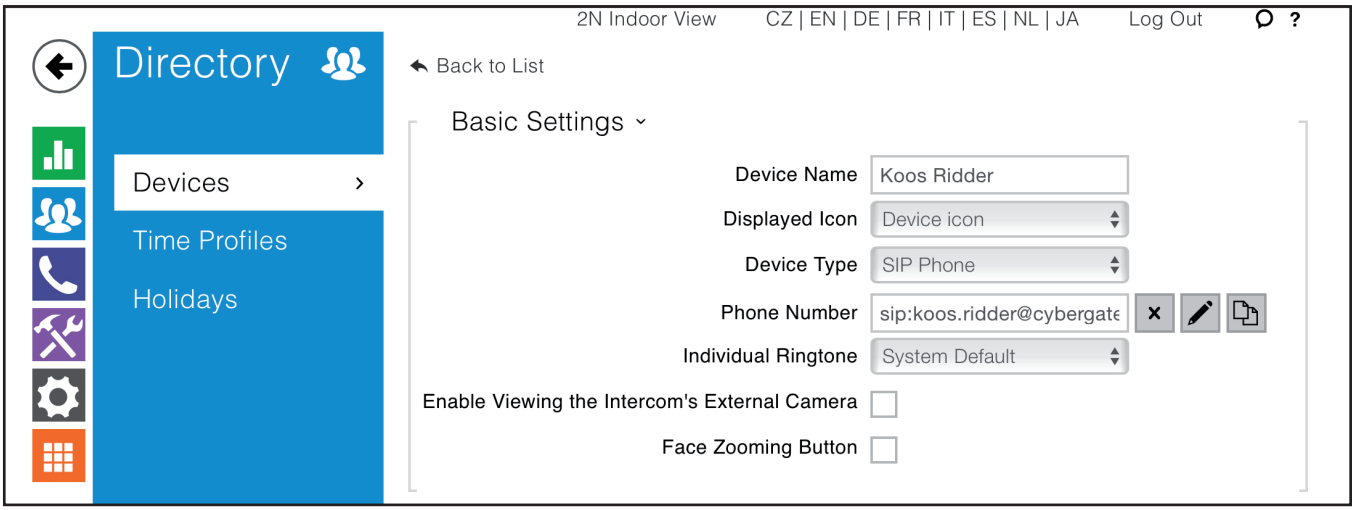
* For example, the user 'Koos Ridder', with the Teams name:

koos.ridder@mycompany.com

will translate to this destination address:

sip:*koos.ridder@cybergate.cybertwice.com*

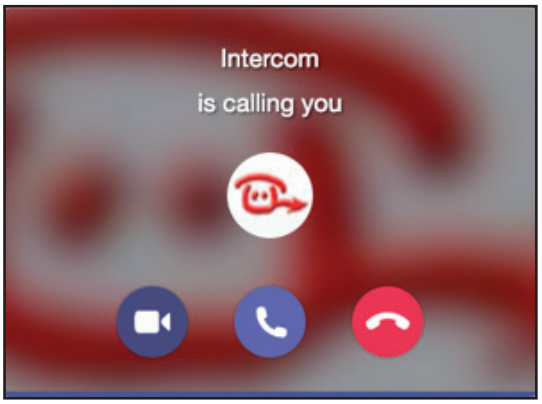
Click the 'Save' button to save.



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