

3CX VoIP server version 9 - How to configure it with 2N® Helios IP?

The 2N® Helios IP can be integrated into a 3CX VoIP server version 9 which is a SIP Protocol based IP PBX. 2N® Helios IP operates as an SIP subscriber and can stream its video to the IP telephone. For full integration of the door intercom in the telecom system is no additional equipment needed.

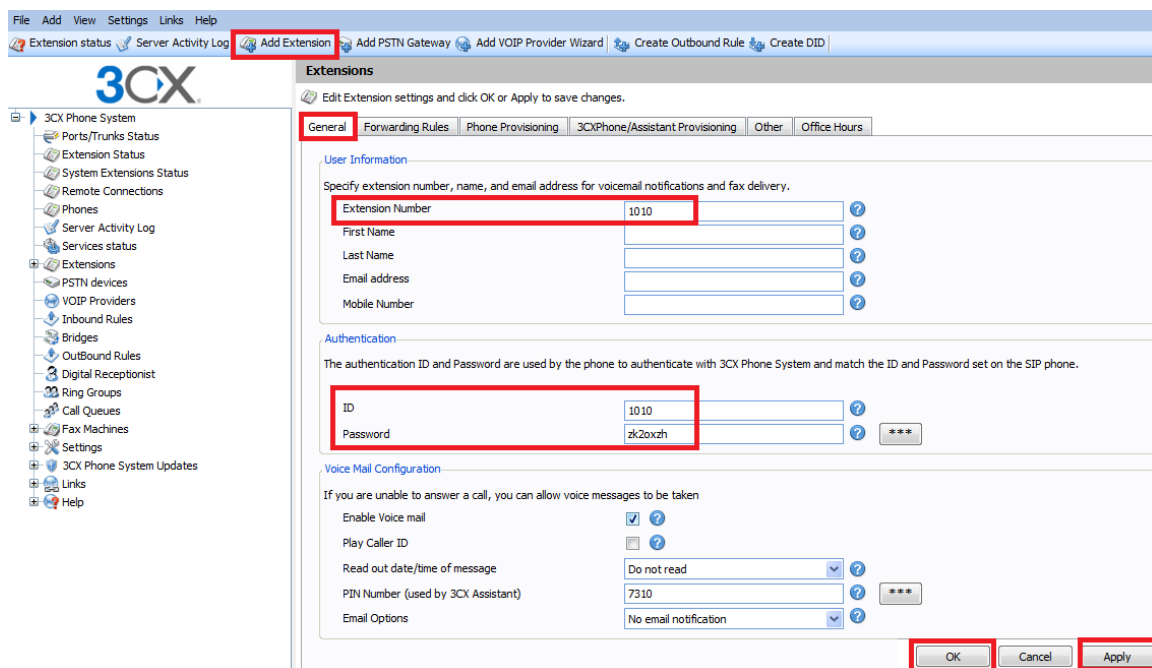
Tested versions:

- 3CX VoIP server version 9
- 3CX VoIP client version 6.0.26523.0
- 2N® Helios IP version 2.1.0.3.13
- X-lite Phone version 5

Compatibility test:

- Audio call
- Video call
- DTMF transfer

1. As a very first step configure new client in a 3CX VoIP server. Follow the steps from (Pic. 1). Go to section "Add Extension" and tab "General" over there, you need to fill "Extension Number". In the "Authentication" part fill in "ID" and "Password". You can keep the one which was automatically generated. Click "OK" or "Apply" to save changes.



The screenshot shows the 3CX VoIP server configuration interface. The 'Add Extension' dialog box is open, and the 'General' tab is selected. The 'Extension Number' field is filled with '1010'. The 'Authentication' section shows the 'ID' field filled with '1010' and the 'Password' field filled with 'zk2oxzh'. The 'Voice Mail Configuration' section shows 'Enable Voice mail' checked, 'Play Caller ID' unchecked, 'Read out date/time of message' set to 'Do not read', 'PIN Number (used by 3CX Assistant)' set to '7310', and 'Email Options' set to 'No email notification'. The 'OK', 'Cancel', and 'Apply' buttons are highlighted with red boxes.

2. From 2N® Helios IP side go to the section "Advanced Settings" and tab "SIP Settings" over there you need to fill "User ID" and "Password" which match to the "ID" and "Password" set in the 3CX side, see (Pic.2).

Information

Basic Settings

Advanced Settings

- Network
- Date and Time
- SIP Settings**
- Web Server
- Mic & Speaker
- Camera
- Keyboard
- Audio Codecs
- Video Codecs
- Streaming
- Onvif
- Auto Updates
- System log
- E-mail
- Multicast
- Automation
- Miscellaneous

Tools

Logout ⓘ

User settings

Display name: 2N Helios IP

User ID: 1010

Domain: 192.168.22.90

Use auth ID: No

Auth ID: 1010

Password: ●●●●●●
zk2oxzk

Other settings

Protocol: UDP

Local SIP port: 5060

Send keepalive packets: No

Starting RTP port: 5000

RTP Timeout: 60 s

QoS DSCP for SIP: 0

IP filter for SIP: No

SIP proxy settings

Proxy address: 192.168.22.90

Proxy port: 5060

SIP registration

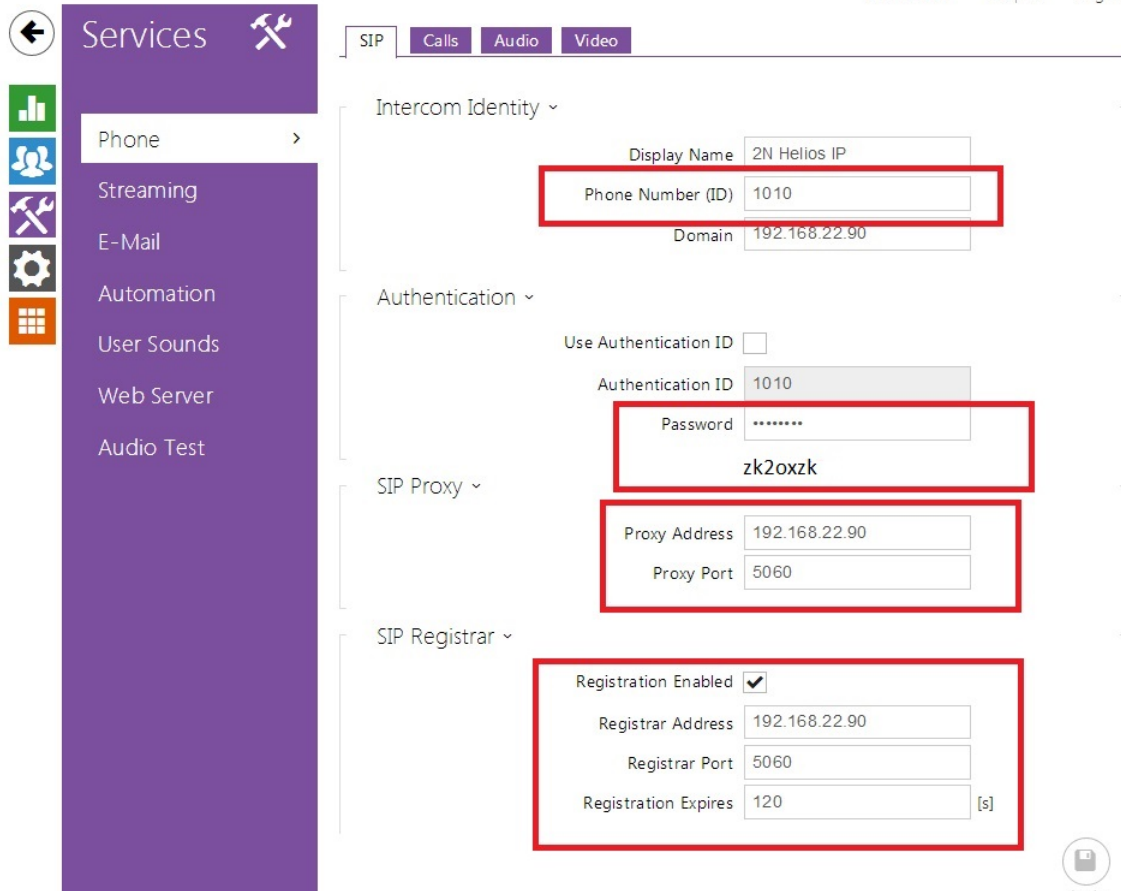
Enable registration: Yes

Registration expires: 120 s

Registrar address: 192.168.22.90

Registrar port: 5060

How to configure 2N[®] Helios IP intercom – FW version 2.6 and higher



Services

Phone

Streaming

E-Mail

Automation

User Sounds

Web Server

Audio Test

SIP Calls Audio Video

Intercom Identity

Display Name 2N Helios IP

Phone Number (ID) 1010

Domain 192.168.22.90

Authentication

Use Authentication ID

Authentication ID 1010

Password

zk2oxzk

SIP Proxy

Proxy Address 192.168.22.90

Proxy Port 5060

SIP Registrar

Registration Enabled

Registrar Address 192.168.22.90

Registrar Port 5060

Registration Expires 120 [s]

3. To enable the video go to the section "Advanced Settings", tab "Video Codecs" over there you have to allow codec H.263 on the first position and disable the rest, see (Pic. 3).

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Preferred video codecs

Choice 1: **H.263**

Choice 2: None

Choice 3: None

Choice 4: None

Video codec settings

Video resolution: CIF (352x288)

Frame rate: 15 fps

Video bitrate: 512 kbps

Video packet size: 1400 B

Quality settings

QoS DSCP for video: 0

Advanced RTP settings

H.264 payload type (1): 123

H.264 payload type (2): 124

H.263+ payload type: 98

Polycom compatibility mode: Off

How to configure 2N[®] Helios IP intercom – FW version 2.6 and higher

2N Helios IP CZ | EN Logout

Services

- Phone
- Streaming
- E-Mail
- Automation
- User Sounds
- Web Server
- Audio Test

SIP Calls Audio **Video**

Video Parameters >

Preferred Video Codecs v

Codec 1 **H.263**

Codec 2 None

Codec 3 None

Codec 4 None

Transmission Quality Settings >

Advanced SDP Settings >



4. In order to verify that you have successfully registered 2N[®] Helios IP terminal into the 3CX virtual PBX version 9, go to the section "Information" in the 2N[®] Helios IP or section "Extension Status" in the 3CX VoIP server.

For the FW version 2.6 and higher you can find this in Menu Status-Services-Phone status