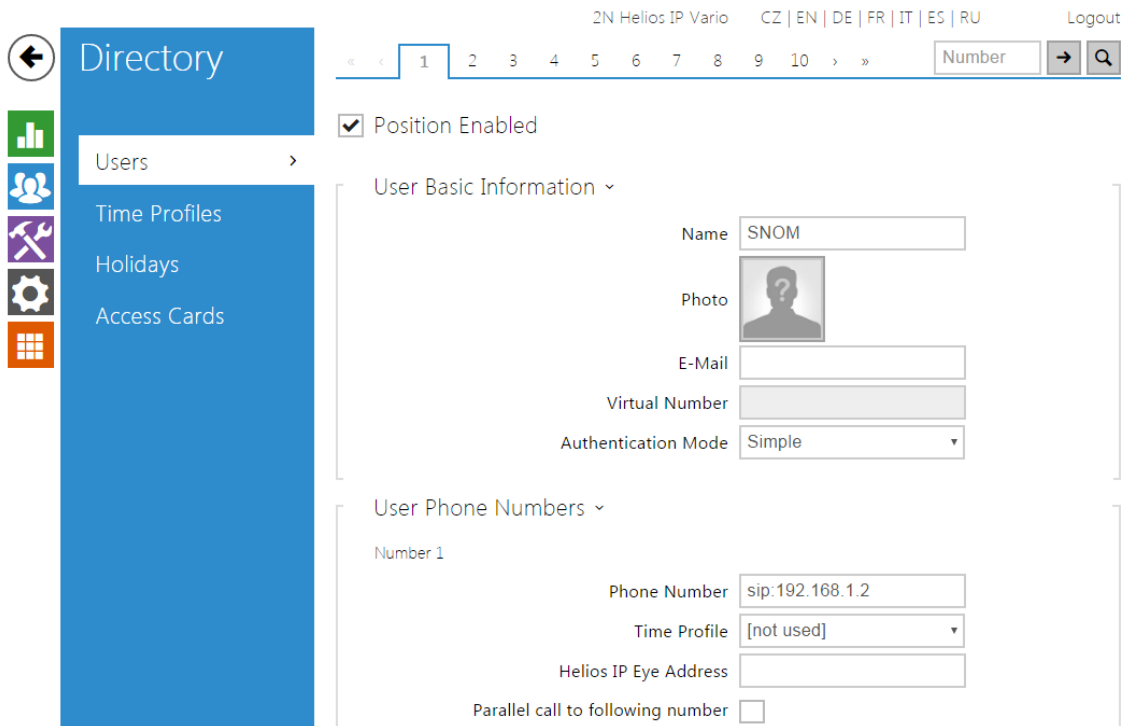


# How to configure 2N® Helios IP intercom with IP phone SNOM D765

**i** This FAQ describes how to configure direct (P2P) call between 2N® Helios IP intercoms and IP phone SNOM 760/ SNOM D765. It is also describing how to display video from 2N® Helios IP intercoms on the phone before answer by Function button. Further more it describes how to configure Function button for direct call to 2N® Helios IP and also how to set one of this buttons to send DTMF or HTTP command for switch activation of 2N® Helios IP intercoms. This FAQ was made for FW version of 2N® Helios IP intercoms 2.14.2 and higher.

## How to configure direct call on 2N® Helios IP intercom

1. In first step go to section "Directory->Users" and fill "Phone number" in format "sip:ip\_address\_of\_the\_phone) (in our case it is sip:192.168.1.2)



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« < 1 2 3 4 5 6 7 8 9 10 > » Number → 🔍


**Directory**

- Users >
- Time Profiles
- Holidays
- Access Cards

Position Enabled

User Basic Information ▾

Name: SNOM

Photo: 

E-Mail:

Virtual Number:

Authentication Mode: Simple ▾

User Phone Numbers ▾

Number 1

Phone Number: sip:192.168.1.2

Time Profile: [not used] ▾

Helios IP Eye Address:

Parallel call to following number:

2. In next step go to section "Services->Streaming->JPEG" and enable "JPEG Video Activated by Call" to enable video activation before answer.

3. Now you have to enable HTTP API for camera, by this you will allow the phone to download the video. Go to section "Services->HTTP API" a "Camera API" set to "Unsecure" and "None".

SERVICE	ENABLED	CONNECTION TYPE	AUTHENTICATION
System API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
Switch API	<input checked="" type="checkbox"/>	Unsecure (TCP)	None
I/O API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
Audio API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
Camera API	<input checked="" type="checkbox"/>	Unsecure (TCP)	None
Display API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
E-mail API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
Phone/Call API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest
Logging API	<input checked="" type="checkbox"/>	Secure (TLS)	Digest

4. In this step set the intercom to automatic pickup of incoming calls. Go to section "Services->Phone->Calls". Configure the section based on picture below.

Services

- Phone >
- Streaming
- Onvif
- E-Mail
- Automation
- HTTP API
- User Sounds
- Web Server

SIP 1 SIP 2 Calls Audio Video 2N Indoor Touch

Incoming Calls ▾

Automatic Pickup (SIP1)

Automatic Pickup (SIP2)

Call Activation Automatic ▾

Activation Code

Outgoing Calls ▾

Ring Time Limit 32 [s]

Call Time Limit 120 [s]

Dial Cycles Limit 3

## How to configure direct calls on IP phone SNOM 760

1. Optionally you can set static address on the phone which will be called by the intercom (we recommend to do this - of course intercom can call to address obtained from DHCP server, but there is a chance that after disconnection the phone from the network and connection again, the phone will get different IP address). You can adjust the address in section Advanced Settings->Network". Optionally also by the buttons on the phone in menu "Menu->Network->IP address".

# Advanced Settings

VERSION 8

**Operation**

- Home
- Directory

**Setup**

- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11

⚠ Some settings are not yet stored permanently. Save View Changes ?

**Network** Behavior Audio SIP/RTP QoS/Security Update

**Network:**

DHCP:  on  off ?

Options on DHCP: on 1 3 4 6 12 15 42 43 51 66 67 12 ?

Options on DHCP: off 43 120 125 ?

IP address: 192.168.0.168 ?

Netmask: 255.255.255.0 ?

Host Name:  ?

IP Gateway: 192.168.0.1 ?

**Wifi:**

AuthMode off ▾ ?

Wifi Ethernet Bridge  on  off ?


2. In section "Advanced Settings"->SIP/RTP you can check whether the port is set to standard 5060 or you can change it, if you want to use different one.

**Operation**

- Home
- Directory

**Setup**

- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12

 **Apply setting changes?** Reboot

- [Network](#)
- [Behavior](#)
- [Audio](#)
- [SIP/RTP](#)
- [QoS/Security](#)
- [Update](#)

**SIP:**

Network identity (port):	<input type="text" value="5060"/>	<a href="#">?</a>
SIP T1 (ms):	<input type="text" value="500"/>	<a href="#">?</a>
Timer Support (RFC4028):	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
SIP Session Timer (s):	<input type="text" value="0"/>	<a href="#">?</a>
SIP Dirty Host TTL (s):	<input type="text"/>	<a href="#">?</a>
SIP Max Forwards:	<input type="text" value="70"/>	<a href="#">?</a>
ENUM Suffix:	<input type="text" value="e164.arpa"/>	<a href="#">?</a>
Retry interval after failed registration (s):	<input type="text" value="300"/>	<a href="#">?</a>
Use user:phone:	<input checked="" type="radio"/> on <input type="radio"/> off	<a href="#">?</a>
Publish Presence:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
Refer-To Brackets:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
Require PRACK:	<input checked="" type="radio"/> on <input type="radio"/> off	<a href="#">?</a>

3. In section "Advanced Settings->QoS/Security" set parameter "Filter packets from registrar" to "OFF"

**Setup**

- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update

**Status**

- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace
- Memory
- Settings

**Manual**

- [Network](#)
- [Behavior](#)
- [Audio](#)
- [SIP/RTP](#)
- [QoS/Security](#)
- [Update](#)

**Quality of Service:**

RTP Type of Service (TOS/Diffserv):	<input type="text" value="160"/>	<a href="#">?</a>
SIP Type of Service (TOS/Diffserv):	<input type="text" value="160"/>	<a href="#">?</a>

**VLAN**

VLAN Id (0..4095):	<input type="text"/>	<a href="#">?</a>
VLAN Priority (0..7):	<input type="text"/>	<a href="#">?</a>

Un-/Tag VLAN traffic to/from specific switch ports:  on  off [?](#)

**Net Port:**

VLAN Id (0..4095):	<input type="text"/>	<a href="#">?</a>
VLAN Priority (0..7):	<input type="text"/>	<a href="#">?</a>

**PC Port:**

VLAN Id (0..4095):	<input type="text"/>	<a href="#">?</a>
VLAN Priority (0..7):	<input type="text"/>	<a href="#">?</a>

**IEEE 8021x Authentication**

User:	<input type="text"/>	<a href="#">?</a>
Password:	<input type="password" value="....."/>	<a href="#">?</a>

**Security:**

VPN:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
Ignore security advices:	<input checked="" type="radio"/> on <input type="radio"/> off	<a href="#">?</a>
Use hidden tags:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
Restrict URI queries:	<input checked="" type="radio"/> on <input type="radio"/> off	<a href="#">?</a>
Allow CSTA control:	<input checked="" type="radio"/> on <input type="radio"/> off	<a href="#">?</a>
Empty client cert:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>
Filter Packets from Registrar:	<input type="radio"/> on <input checked="" type="radio"/> off	<a href="#">?</a>

4. After you will finish the configuration, please reboot the phone, then all the changes will apply.


## Advanced Settings

### Operation

Home  
Directory

### Setup

Preferences

 **Apply setting changes?** [Reboot](#)

[Network](#)

[Behavior](#)

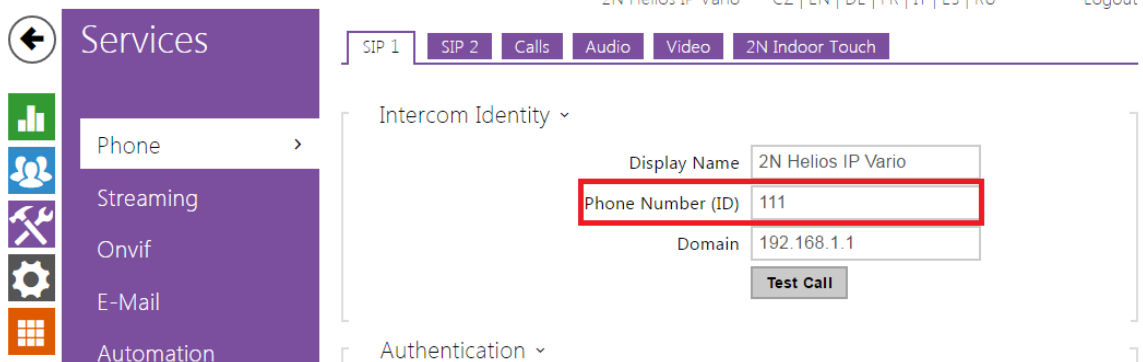
[Audio](#)

[SIP/RTP](#)

[QoS/Security](#)

## How to configure video preview on IP phone SNOM 760

1. In first step you can optionally change "Phone number (ID)" in section "Services->Phone->SIP 1". In default value is 111 and in the next step you have to fill this number in web interface of the SNOM phone.



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Services

- Phone
- Streaming
- Onvif
- E-Mail
- Automation

SIP 1 SIP 2 Calls Audio Video 2N Indoor Touch

Intercom Identity

Display Name 2N Helios IP Vario

Phone Number (ID) 111

Domain 192.168.1.1

Test Call

Authentication

2. In next step open the web interface of the SNOM phone and go to section "Operation->Directory" and to field "Number" fill the number from the first step (in this case 111). To field "Action-Url" fill "http://ip\_addr\_ess\_helios/enu/snom820-video.xml"

- Operation**
- Home
- Directory
- Setup**
- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update
- Status**

**Directory**

Name:	Number:	Contact Type:	Outgoing Identity:	Edit	Delete
111	111	None	Active		

**Add or Edit Entry:**

Number:

Number Type:

Contact Type:

Outgoing Identity:

Group:

Title:

Organization:

Email:

Note:

Photo:

Action-Url:

Nickname:

First Name:

Family Name:

Birthday:

Favorite:

## How to display video from 2N® Helios IP intercom on IP phone SNOM 760 via function button

- Go to section "Setup->Function keys". Choose a button, which you want to use, and for "Type" choose "Action URL". To field "Number" fill URL "http://ip\_address\_helios/enu/snom820-video.xml". Field "Short text" can be optionally used for buttons function description.

- Setup**
- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update
- Status**
- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace

**Key Settings:**

On this page you can specify the settings for programmable keys on your snom phone. Use **Context** to specify the identity context for that key e.g. this identity will be used to subscribe for a particular extension. **Type** will select the actual functionality of a particular key. In the last argument field **Number**, the actual telephone number, sip url, dtmf sequence, action url or key type can be stored. Please refer to your phone manual for more details.

Context	Type	Number	Short Text	
Active	Line			P1
Active	Line			P2
Active	Line			P3
Active	Line			P4
Active	Line			P5
Active	Line			P6
Active	Line			P7
Active	Line			P8
Active	Line			P9
Active	Line			P10
Active	Line			P11
Active	Line			P12
Active	Line			P13
Active	Line			P14
Active	Line			P15
Active	Action URL	http://192.168.0.160/enu/sr	Video intercom	P16

## How to configure direct call from IP phone SNOM 760 to

## 2N® Helios IP intercom

1. Stay in section for Function keys configuration, pick a button and choose "Speed dial" and fill "SIP:ip\_address\_of\_intercom".

Active	Line			P12
Active	Action URL			P13
Active	DTMF			P14
Active	Speed Dial	sip:192.168.0.160	Call to intercom	P15
Active	Action URL	http://192.168.0.160/enu/sr	Video from intercom	P16

## How to configure switch activation on 2N® Helios IP intercom from IP phone SNOM 760 via DTMF

1. Still in the same section choose "DTMF" and fill desired code (in this example it is 00).

Active	Line			P12
Active	Action URL			P13
Active	DTMF	00		P14
Active	Speed Dial	sip:192.168.0.160	Call to intercom	P15
Active	Action URL	http://192.168.0.160/enu/sr	Video from intercom	P16

## How to configure switch activation on 2N® Helios IP intercom from IP phone SNOM 760 via HTTP command

1. Still in the same section choose "Action URL" and fill URL "http://ip\_address\_of\_intercom/api/switch/ctrl?switch=1&action=trigger"

Active	Line			P12
Active	Action URL	http://192.168.0.160/enu/lo		P13
Active	DTMF	00		P14
Active	Speed Dial	sip:192.168.0.160	Call to intercom	P15
Active	Action URL	http://192.168.0.160/enu/sr	Video from intercom	P16

2. In second step you have to disable security for switch API. Go to section "Services->HTTP API" and set "Switch API" to "Unsecured" and "None".

Services

- Phone
- Streaming
- Onvif
- E-Mail
- Automation
- HTTP API** >
- User Sounds
- Web Server
- Audio Test
- SNMP

Services Account 1 Account 2 Account 3 Account 4 Account 5

HTTP API Services ▾

SERVICE	ENABLED	CONNECTION TYPE	AUTHENTICATION
System API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
Switch API	<input checked="" type="checkbox"/>	Unsecure (TCP) ▾	None ▾
I/O API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
Audio API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
Camera API	<input checked="" type="checkbox"/>	Unsecure (TCP) ▾	None ▾
Display API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
E-mail API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
Phone/Call API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾
Logging API	<input checked="" type="checkbox"/>	Secure (TLS) ▾	Digest ▾