

# Helios IP – Peer to Peer calling settings

This guide describes basic steps to configure Peer to Peer communication between HeliosIP and IP telephone Grandstream. All names and IP addresses are only for this example, please change these information according to your names and IP plan.

## Wiring

Connect IP Helios into IP network. Into the same network connect IP telephone Grandstream.

## HeliosIP settings

You need to specify IP address and subnet mask for your HeliosIP.



The screenshot displays the HeliosIP web interface for network configuration. The page features a dark header with the HeliosIP logo and language options (CZ, EN). A sidebar on the left contains a navigation menu with categories: Information, Basic Settings, and Advanced Settings. Under Advanced Settings, the 'Network' option is expanded. The main content area is titled 'Network' and is divided into two sections: 'DHCP settings' and 'Static settings'. In the DHCP settings, 'DHCP client enabled' is set to 'No'. The Static settings section includes input fields for 'Static IP address' (192.168.3.165), 'Network mask' (255.255.252.0), 'Default gateway', 'Primary DNS', and 'Secondary DNS'. A 'Logout' button is located in the bottom left corner, and a document icon with a back arrow is in the bottom right corner.

Select a contact which is mapped for one touch call (for example for button #1 on your HeliosIP). You need to modify Phone number for this contact according to your peer telephone. In the following picture is 192.168.3.166 IP address of IP telephone.

The screenshot displays the HeliosIP web interface. At the top left is the HeliosIP logo, and at the top right are language selection buttons for 'CZ' and 'EN'. The main header area contains the '2N TELECOMMUNICATIONS' logo and the title 'Phone book'. A navigation breadcrumb shows a list of contacts from 111 to 120, with '115' highlighted in green. Below this is a 'Go to' search field. The main content area is divided into four sections:

- General settings:** Includes 'Position enabled:' (Yes), 'Position name:' (Mr. Smith).
- Phone numbers:** Includes 'Number 1:' (sip:x@192.168.3.166), 'Time profile:' ([not used]), 'Number 2:', 'Time profile:' ([not used]), 'Number 3:', 'Time profile:' ([not used]), and 'Substitute if inaccessible:' ([none]).
- User activation & deactivation:** Includes 'Activation code:', 'Deactivation code:', and 'User current state:' (Active) with a 'Change' button.
- User door-lock codes:** Includes 'Lock 1 code:' and 'Lock 2 code:'.

A 'Logout' button is located in the bottom left corner of the interface.

Set up SIP settings according to next picture. IP addresses should match your network plan.

The screenshot shows the HeliosIP SIP Settings web interface. The page has a dark header with the HeliosIP logo and language selectors for CZ and EN. A sidebar on the left contains the 2N Telecommunications logo and a navigation menu with sections for Information, Basic Settings, and Advanced Settings. The main content area is titled 'SIP Settings' and is divided into three sections: User settings, SIP proxy settings, and SIP registration. Each section contains several input fields and dropdown menus.

**HeliosIP** CZ EN

**2N TELECOMMUNICATIONS**

### SIP Settings

**User settings**

Display name:

User ID:

Domain:

Use auth ID:  No

Auth ID:

Password:

**Other settings**

Local SIP port:

**SIP proxy settings**

Proxy address:

Proxy port:

**SIP registration**

Register Helios IP:  No

Registration expires:  s

Registrar address:

Registrar port:

Logout ⓘ

In the setting of Video codecs you need to specify RTP payload type. Number "0" means there is no payload type (2).

The screenshot displays the HeliosIP web interface for configuring video codecs. The page title is "Video Codecs" and the user is logged in as "HeliosIP". The interface is in English (EN) and Czech (CZ).

**2N TELECOMMUNICATIONS**

**Information**

- Basic Settings
- Advanced Settings**
  - Network
  - Date and Time
  - SIP Settings
  - Web server
  - Audio
  - Video
  - Audio Codecs
  - Video Codecs**
  - Streaming
  - Auto Updates
  - Display
  - System log
  - Miscellaneous
- Tools

**Logout** ⓘ

**H.264 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**

- RTP payload type (1): 99
- RTP payload type (2): 0

## IP telephone settings (Groundstream)

In these settings do not forget leave the **Use Random Port** checkbox empty.

The screenshot displays the 'GXV3140 Multimedia Phone Administration Interface' for a Groundstream device. The interface includes a top navigation bar with 'Status', 'Account 1', 'Account 2', 'Account 3', 'Advanced Settings' (highlighted), and 'Maintenance'. A language dropdown is set to 'English', and 'Reboot' and 'Exit' buttons are visible. On the left, a sidebar menu lists 'Advanced Settings', 'General Settings' (selected), 'Call Features', 'Ring Tone', 'Video Settings', and 'Application Settings'. The main content area is titled 'General Settings' and contains the following fields:

- Local RTP Port: 5004
- Use Random Port:  Yes
- Keep-alive Interval (s): 20
- STUN Server: stun.ipvideotalk.com
- Use NAT IP: [Empty field]
- SSL Certificate: [Large empty text area]
- SSL Private Key: [Large empty text area]
- SSL Private Key Password: [Masked password field]

At the bottom of the settings panel are 'Save' and 'Cancel' buttons. On the right side, a 'Pop-up Tips' box explains that tooltips appear when the mouse is dragged over configuration parameters to provide more detailed descriptions.

In the next picture you can find SIP settings for Grandstream. Set **Local SIP Port** to 5060.

The screenshot displays the Grandstream GXV3140 Multimedia Phone Administration Interface. At the top, there is a header with the Grandstream logo, the title "GXV3140 Multimedia Phone Administration Interface", a language dropdown set to "English", and "Reboot | Exit" links. Below the header is a navigation bar with tabs for "Status", "Account 1", "Account 2" (selected), "Account 3", "Advanced Settings", and "Maintenance".

On the left side, there is a sidebar menu for "Account 2" with options: "General Settings", "Network Settings", "SIP Settings" (highlighted), "Codec Settings", and "Call Settings".

The main content area is titled "SIP Settings" and contains the following configuration options:

- SIP Registration :  Yes
- Unregister On Reboot :  Yes
- Register Expiration (m) :
- Wait Time Retry Registration (s) :
- Local SIP Port :
- SUBSCRIBE for MWI :  Yes
- Session Expiration (s) :
- Min-SE (s) :
- UAC Specify Refresher :
- UAS Specify Refresher :
- Force INVITE :  Yes
- Caller Request Timer :  Yes
- Callee Request Timer :  Yes
- Force Timer :  Yes
- SIP Transport :
- Symmetric RTP :  Yes
- Support SIP Instance ID :  Yes

On the right side, there is a "Pop-up Tips" box with the text: "This parameter represents the minimum session expiration (in seconds). The default value is 90 seconds."

In General Settings you need to specify IP address of SIP server. This is IP address of the peer partner.

The screenshot displays the Grandstream GXV3140 Multimedia Phone Administration Interface. The top navigation bar includes 'Status', 'Account 1', 'Account 2' (highlighted), 'Account 3', 'Advanced Settings', and 'Maintenance'. A language dropdown is set to 'English', and 'Reboot | Exit' options are visible. On the left, a sidebar menu for 'Account 2' lists 'General Settings' (selected), 'Network Settings', 'SIP Settings', 'Codec Settings', and 'Call Settings'. The main content area is titled 'General Settings' and contains the following configuration fields:

Account Active :	<input checked="" type="checkbox"/> Yes
Account Name :	<input type="text" value="gs"/>
SIP Server :	<input type="text" value="192.168.3.165"/>
SIP User ID :	<input type="text" value="100"/>
Authenticate ID :	<input type="text" value="100"/>
Authenticate Password :	<input type="password" value="..."/>
Voice Mail UserID :	<input type="text"/>
Name :	<input type="text" value="100"/>
User ID is phone number :	<input checked="" type="checkbox"/> Yes

At the bottom of the settings panel are 'Save' and 'Cancel' buttons. To the right, a 'Pop-up Tips' box states: 'Tooltips appear as you drag your mouse over configuration parameters to provide a more detailed description of them.'