

Helios IP settings with Cisco Unified Communications Manager 6.0.1 (CUCM)

Helios IP settings

Advanced Settings / SIP Settings

1. **Display name** - the name to be displayed to the called party
2. **User ID** - the user ID for registration
3. **Domain** - the domain name or IP address of the CUCM
4. **Use auth ID** - set whether Helios IP should use for authorisation the authorisation ID or user ID
5. **Auth ID** - the authorisation ID to be used for authorisation if the Use authorisation ID parameter is set to Yes.
6. **Password** - the password to be used for authorisation during registration and calling
7. **Local SIP port** - set the communication port to be used for SIP signalling by Helios IP
8. **Send keepalive packets** - Set whether or not Helios IP should periodically query about the state of the called station using the SIP OPTIONS requests during a call. Use this option to detect a disconnected or defective station
9. **Initial RTP port** - set the initial port for the range of 60 RTP ports to be used for audio and video transfers
10. **Proxy address** - the IP address of the CUCM
11. **Proxy port** - the CUCM SIP signalling port
12. **Register Helios IP** - set whether Helios IP should register at the CUCM
13. **Registration expires** - Set the minimum time for Helios IP registration attempts, with CUCM should be 120s at least
14. **Registrar address** - the IP address of the CUCM
15. **Registrar port** - the CUCM SIP signalling port

Advanced Settings / Video Codecs

1. **RTP Payload type** - set the Media Format value of the Media attribute (a) in the SDP part of the INVITE message. CUCM requires one of this value to be disabled (set-up value 0). Tested values are given in the table
2. **Polycom compatibility mode** – sets compatibility of SDP messages with some Polycom and Cisco phones. With this mode on, Helios IP does not include the sendonly flag in the codec specification for video streams

Phone	RTP (1):99, RTP (2):0	RTP (1):0, RTP (2):99	RTP (1):125, RTP (2):0	RTP (1):0, RTP (2):125	RTP (1):124, RTP (2):123	Notice
7985 Tandberg		 Polycom comp. On		 Polycom comp. On		
Cisco IP Communicator						
CounterPath Bria						
Grandstream GXV-3140						It is necessary to set-up H.264 Payload Type in Codec Settings
Pangolin						
Yealink VP-2009						

Helios IP settings example



SIP Settings

- 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 ⓘ

User settings

Display name:

User ID:

Domain:

Use auth ID:

Auth ID:

Password:

Other settings

Local SIP port:

Send keepalive packets:

Starting RTP port:

SIP proxy settings

Proxy address:

Proxy port:

SIP registration

Register Helios IP:

Registration expires: s

Registrar address:

Registrar port:



Video Codecs

- Information
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H.264 Video codec settings

Video resolution:

Frame rate:

Video bitrate:

Video packet size: B

Quality settings

QoS DSCP for video:

Advanced RTP settings

RTP payload type (1):

RTP payload type (2):

Polycorn compatibility mode:

Cisco Unified Communications Manager settings

Add New End User

User Management / End User / Add New

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾ Bul

End User Configuration

Save Delete Add New

Status
Status: Ready

User Information

User ID*	3636	
Password	••••	Edit Credential
Confirm Password	••••	
PIN	••••	Edit Credential
Confirm PIN	••••	
Last name*	3636	
Middle name		
First name		
Telephone Number	3636	
Mail ID		
Manager User ID	3636	
Department		
User Locale	< None >	
Associated PC		
Digest Credentials	••••	
Confirm Digest Credentials	••••	

Add New Phone

Device / Phone / Add New, choose type Third-party SIP Device (Advanced)

1. **MAC Address** - MAC address of Helios IP. This address could be found on Helios IP package or on the Information page of the administration web server
2. **Description** - phone description
3. **Device pool** - choose pool of devices with the same settings, like codecs
4. **Phone Button Template** - choose Third-party SIP Device (Advanced) or equivalent
5. **Common Phone Profile** - Standard Common Phone Profile
6. **Location** - choose profile, which determines reserved bandwidth for given device etc. Default setting is Hub None
7. **Calling Search Space** - determines address space for Helios IP number
8. **Owner User ID** - assigns Helios IP to the user
9. **Device Security Profile** - choice of profile with security - for Helios IP Third-party SIP Device Advanced should be chosen - Standard SIP Non-Secure Profile. In this profile registration port is set (default 5060).
10. **SIP Profile** - Standard SIP Profile (or equivalent)
11. **Digest User** - choice of a user, whose User ID and password will be set in Helios IP for SIP authentication at CUCM



Phone Configuration

Save Delete Copy Reset Add New

Status

Status: Ready

Association Information

[Modify Button Items](#)

- 1 [Line \[1\] - 3636 in TestTeam](#)
- 2 [Line \[2\] - Add a new DN](#)
- 3 [Line \[3\] - Add a new DN](#)
- 4 [Line \[4\] - Add a new DN](#)
- 5 [Line \[5\] - Add a new DN](#)
- 6 [Line \[6\] - Add a new DN](#)
- 7 [Line \[7\] - Add a new DN](#)
- 8 [Line \[8\] - Add a new DN](#)

Phone Type

Product Type: TypeModel.MODEL_THIRD_PARTY_SIP_DEVICE_ADVANCED
Device Protocol: TypeDeviceProtocol.DEVICE_PROTOCOL_SIP

Device Information

Registration Registered with Cisco Unified Communications Manager 192.168.22.37
IP Address 192.168.22.212
MAC Address* 0050C29BF3BB
Description Helios IP TT
Device Pool* Default [View Details](#)
Common Device Configuration < None > [View Details](#)
Phone Button Template* Third-party SIP Device (Advanced)
Common Phone Profile* Standard Common Phone Profile
Calling Search Space TestTeam
AAR Calling Search Space TestTeam
Media Resource Group List < None >
Location* Hub_None
AAR Group < None >
Device Mobility Mode* TypeStatus.STATUS_DEFAULT [View Current D](#)
Owner User ID 3636
 Retry Video Call as Audio
 Ignore Presentation Indicators (internal calls only)
 Logged Into Hunt Group
 Remote Device

Protocol Specific Information

Presence Group* Standard Presence group
MTP Preferred Originating Codec* TypeSIPCodec.C_711_ULAW
Device Security Profile* Third-party SIP Device Advanced - Standard SIP N
Rerouting Calling Search Space TestTeam
SUBSCRIBE Calling Search Space TestTeam
SIP Profile* Standard SIP Profile
Digest User 3636
 Media Termination Point Required
 Unattended Port
 Require DTMF Reception

Helios IP telephone number settings

Is configured in a window with Helios IP device - Directory Number for Line [1].

The screenshot shows the 'Directory Number Configuration' page in Cisco Unified CM Administration. The page title is 'Cisco Unified CM Administration For Cisco Unified Communications Solutions'. The navigation menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, and Bulk Administration. The main content area has a toolbar with Save, Delete, Reset, and Add New buttons. Below the toolbar is a 'Status' section showing 'Status: Ready'. The 'Directory Number Information' section contains the following fields: Directory Number* (3636), Route Partition (TestTeam), Description (3636), Alerting Name (3636), ASCII Alerting Name (3636), Associated Devices (SEP0050C29BF3BB), and Dissociate Devices. There are 'Edit Device' and 'Edit Line Appearance' buttons next to the Associated Devices field.

Registration Status check

In menu Device / Phone, after phone search, information about Helios IP registration will be shown.

The screenshot shows the 'Find and List Phones' page in Cisco Unified CM Administration. The page title is 'Cisco Unified CM Administration For Cisco Unified Communications Solutions'. The navigation menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area has a toolbar with Add New, Select All, Clear All, Delete Selected, and Reset Selected buttons. Below the toolbar is a 'Status' section showing '1 records found'. The 'Phone (1 - 1 of 1)' section has a search bar with 'Device Name' selected, 'begins with' dropdown, and 'SEP0050C' entered. The search results are displayed in a table with the following columns: Device Name (Line), Description, Device Pool, Device Protocol, Status, IP Address, Copy, and Super Copy. The table contains one row with the following data: Device Name (Line) is SEP0050C29BF3BB, Description is Helios IP TT, Device Pool is Default, Device Protocol is SIP, Status is Registered with 192.168.22.37, IP Address is 192.168.22.212, Copy is a document icon, and Super Copy is a plus icon. There are also 'Add New', 'Select All', 'Clear All', 'Delete Selected', and 'Reset Selected' buttons at the bottom of the table.

Device Name (Line)	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Super Copy
SEP0050C29BF3BB	Helios IP TT	Default	SIP	Registered with 192.168.22.37	192.168.22.212		