

Helios IP settings with Cisco Unified Communications Manager 7.1.3 (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:

SIP proxy settings

Proxy address:

Proxy port:

SIP registration

Register Helios IP: ☒

Registration expires: s

Registrar address:

Registrar port:

Other settings

Local SIP port:

Send keepalive packets: ☒

Starting RTP port:





 Video Codecs

Information

Basic Settings

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Tools

Logout ⓘ

H.264 Video codec settings

Video resolution:

Frame rate:

Video bitrate:

Video packet size: B

Advanced RTP settings

RTP payload type (1):

RTP payload type (2):

Polycorn compatibility mode: ☒

Quality settings

QoS DSCP for video:



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 ▾ Bulk ▾

End User Configuration

Save Delete Add New

Status
Status: Ready

User Information

User ID*	3736	
Password	Edit Credential
Confirm Password	
PIN	Edit Credential
Confirm PIN	
Last name*	3736	
Middle name		
First name		
Telephone Number	3736	
Mail ID		
Manager User ID		
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

Related

Save Delete Copy Reset Apply Config Add New

Status

Status: Ready

Association Information

Modify Button Items

- 1 [Line \[1\] - 3736 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: Third-party SIP Device (Advanced)
Device Protocol: SIP

Device Information

Registration	Registered with Cisco Unified Communications Manager 192.168.22.35	
IPv4 Address	192.168.22.212	
Active Load ID	Unknown	
<input checked="" type="checkbox"/> Device is Active		
Device is not trusted		
MAC Address*	<input type="text" value="0050C29BF3BB"/>	
Description	<input type="text" value="Helios IP TT"/>	
Device Pool*	<input type="text" value="Testing"/>	View Details
Common Device Configuration	<input type="text" value="< None >"/>	View Details
Phone Button Template*	<input type="text" value="Third-party SIP Device (Advanced)"/>	
Common Phone Profile*	<input type="text" value="Standard Common Phone Profile"/>	
Calling Search Space	<input type="text" value="TestTeam"/>	
AAR Calling Search Space	<input type="text" value="TestTeam"/>	
Media Resource Group List	<input type="text" value="< None >"/>	
Location*	<input type="text" value="Hub_None"/>	
AAR Group	<input type="text" value="< None >"/>	
Device Mobility Mode*	<input type="text" value="Default"/>	View Current Ds
Owner User ID	<input type="text" value="3736"/>	
Use Trusted Relay Point*	<input type="text" value="Default"/>	
Always Use Prime Line*	<input type="text" value="Default"/>	
Always Use Prime Line for Voice Message*	<input type="text" value="Default"/>	
Calling Party Transformation CSS	<input type="text" value="< None >"/>	
Geolocation	<input type="text" value="< None >"/>	
<input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS		
<input checked="" type="checkbox"/> Retry Video Call as Audio		
<input type="checkbox"/> Ignore Presentation Indicators (internal calls only)		
<input checked="" type="checkbox"/> Logged Into Hunt Group		
<input type="checkbox"/> Remote Device		

Protocol Specific Information

Presence Group*	<input type="text" value="Standard Presence group"/>
MTP Preferred Originating Codec*	<input type="text" value="711ulaw"/>
Device Security Profile*	<input type="text" value="Third-party SIP Device Advanced - Standard SIP N"/>
Rerouting Calling Search Space	<input type="text" value="TestTeam"/>
SUBSCRIBE Calling Search Space	<input type="text" value="TestTeam"/>
SIP Profile*	<input type="text" value="Standard SIP Profile"/>
Digest User	<input type="text" value="3736"/>
<input type="checkbox"/> Media Termination Point Required	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> 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 the Cisco Unified CM Administration interface. The page has a navigation bar at the top with menus for System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, and Bulk Admin. Below the navigation bar is a sub-header 'Directory Number Configuration' with action buttons: Save, Delete, Reset, Apply Config, and Add New. The main content area is divided into sections. The 'Status' section shows 'Status: Ready'. The 'Directory Number Information' section contains several input fields: 'Directory Number*' (3736), 'Route Partition' (TestTeam), 'Description' (3736), 'Alerting Name' (3736), 'ASCII Alerting Name' (3736), and 'Associated Devices' (SEP0050C29BF3BB). There are also buttons for 'Edit Device' and 'Edit Line Appearance'. At the bottom, there is a 'Dissociate Devices' section with an empty input field and up/down arrow icons.

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 the Cisco Unified CM Administration interface. The page has a navigation bar at the top with menus for System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. Below the navigation bar is a sub-header 'Find and List Phones' with a 'Related Links' section containing 'Actively Logged In Device Report'. The main content area is divided into sections. The 'Status' section shows '1 records found'. The 'Phone (1 - 1 of 1)' section shows a table with one row of data. The table has columns: Device Name(Line), Description, Device Pool, Device Protocol, Status, IP Address, Copy, and Super Copy. The data row shows: SEP0050C29BF3BB, Helios IP TT, Testing, SIP, Registered with 192.168.22.35, 192.168.22.212, Copy, and Super Copy. There are also buttons for 'Add New', 'Select All', 'Clear All', 'Delete Selected', 'Reset Selected', and 'Apply Config to Selected'.

Device Name(Line) ^	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Super Copy
SEP0050C29BF3BB	Helios IP TT	Testing	SIP	Registered with 192.168.22.35	192.168.22.212	Copy	Super Copy