



2N[®] Helios IP

**Feature descriptions and
practical usage**



Video codecs

HeliosIP Helios IP Showroom CZ EN

Video Codecs

Preferred video codecs

Choice 1:	H.264
Choice 2:	H.263+
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
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Advanced RTP settings

H.264 payload type (1):	0
H.264 payload type (2):	123
H.263+ payload type:	97
Polycom compatibility mode:	On

Feature description:

There are two options of supported video codecs in 2N[®] Helios IP:

- H.264
- H.263+

Usage:

It is a great selling tool for installations with an existing infrastructure and older IP phones. There is no need for the customer to buy the latest IP phones as the 2N[®] Helios IP can also communicate with older IP phones thanks to H.263+ codec support

This feature helps you to appeal to customers with a lower budget, or those who don't want to change their current IP infrastructure



Real time video streaming

PROF LICENCE

The screenshot shows the Helios IP Streaming configuration interface. The main content area is titled 'Streaming' and contains several settings sections:

- RTSP server:** RTSP server: On, Allowed IP address: [empty], Enable audio stream: Yes, Enable video stream: Yes.
- Video codec settings:** Video codec: H.264/MPEG-4 AVC, Video resolution: VGA (640x480), Frame rate: 30 fps, Video bitrate: 2048 kbps, Video packet size: 1400 B.
- JPEG video settings:** Anonymous access: Yes, Activated by call: No, JPEG frame rate: 10 fps, JPEG quality: 95.
- Quality settings:** QoS DSCP for audio: 0, QoS DSCP for video: 0.

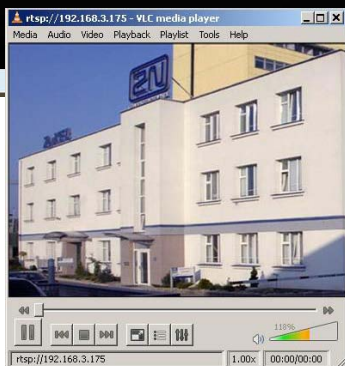
The interface also includes a left sidebar with navigation options like 'Information', 'Basic Settings', 'Advanced Settings', and 'Tools', and a 'Logout' button at the bottom left.

Feature description:

- Continual streaming of voice and video via LAN
- Any receiving device that supports RTSP – e.g. Windows Media Player, VLC Player (freeware), ...
- Ability to set the video quality – resolution, frame rate, ...
- Up to 4 different computers can watch a stream at one time independently on call
- Audio/video 24/7

Usage:

- Increased security for the property
- Ability to record video – you can have a record of people entering
- Video watching in real time
- It can serve as a substitute for a video phone





Video JPEG stream

Feature description:

- You can view static JPEG pictures from a camera via a web browser
- It is possible to enable automatic picture refresh (e.g. every second)
- It can be used by any application able to download JPEG images from 2N® Helios IP

Usage:

- It can be set up as a function operated by a button on a SNOM 820 or 870 phone (= it works for SNOM phones which don't have video over H.26X)
- As a substitution for RTSP streaming server in the basic version of HIP
- You can observe the front of your entrance from anywhere in the world. All you need is a browser and the internet connection. You don't need a phone, a program or any special equipment.

The screenshot displays the Helios IP Streaming configuration page. The left sidebar contains navigation options: Information, Basic Settings, and Advanced Settings. Under Advanced Settings, the 'Streaming' option is selected. The main content area is divided into several sections:

- RTSP server:** RTSP server: On, Allowed IP address: [text input], Enable audio stream: Yes, Enable video stream: Yes.
- Video codec settings:** Video codec: H.264/MPEG-4 AVC, Video resolution: VGA (640x480), Frame rate: 30 fps, Video bitrate: 2048 kbps, Video packet size: 1400 B.
- JPEG video settings (highlighted with a red box):** Anonymous access: Yes, Activated by call: No, JPEG frame rate: 10 fps, JPEG quality: 95.
- Quality settings:** QoS DSCP for audio: 0, QoS DSCP for video: 0.

At the bottom left, there is a 'Logout' button. At the bottom right, there are icons for a printer and a refresh button.



Audio codecs

G.729 LICENCE

Helios IP Showroom

CZ EN

2N TELECOMMUNICATIONS

Audio Codecs

Preferred audio codecs

Choice 1: PCMU
Choice 2: PCMA
Choice 3: G.729
Choice 4: None, PCMU, PCMA, L16, G.729

Quality settings

Jitter compensation: 100ms
QoS DSCP for audio: 0

Receiving of DTMF

Receive in audio: Yes
Receive via RTP: Yes
Receive via SIP: Yes

Sending of DTMF

Send during a call: Never
Send in audio: No
Send via RTP: No
Send via SIP: No

Logout

Feature description:

There are two options of supported audio codecs in 2N® Helios IP:

- G.711
- G.729

Usage:

- Codec G.729 has a lower demand on bandwidth and it can be used where there is limited connection speed or no support for codec G.711
- Support of G.729 allows a customer to connect HIP to the operator's Centrex where G.711 is not available



User sounds

PROFI LICENCE

HelioSIP CZ EN

2N TELECOMMUNICATIONS

User sounds

User sound upload

Sound type	Current			
(1) Hangup by remote party	[default]			
(2) Busy tone	[32 KB]			
(3) Invalid input	[default]			
(4) Invalid position	[default]			
(5) Lock switch activation	[default]			
(6) Ringing	[default]			

Select file to upload: Procházet...

Logout

Feature description:

The setting of various sounds instead of the default sounds for HIP activities:

- Any sound defined by a user
- It can be music or speech in format WAW 8 or 16 bits, 8 kHz and mono, max. size is 128 kB)

Usage:

- The visitor can, for example, hear instead of the busy tone the sentence „Please try again later“.
- To customise the door communication - more personal and pleasant for visitors
- To present a good company image even at the front door



Time profiles

PROFI LICENCE*

The screenshot shows the HeliosIP Scheduler interface. The main content area is titled 'Scheduler' and contains several sections:

- General settings:** Profile name: test
- Profile activation & deactivation:** Activation code: [input field], Deactivation code: [input field], Profile current state: Active [Change]
- Profile schedule:** A table with columns for the day, an 'Active' dropdown, and 'From - To' time ranges.
- User active if...:** Radio button options for profile activation rules.

	Active	From	To
Sunday:	No	00:00	00:00
Monday:	Yes	00:00	00:00
Tuesday:	Yes	00:00	00:00
Wednesday:	No	00:00	00:00
Thursday:	Yes	00:00	00:00
Friday:	Yes	00:00	00:00
Saturday:	No	00:00	00:00

Under 'User active if...':

- Profile active only (independent)
- Profile & user active
- Profile & user not active
- Profile or user active
- Profile or user not active

Feature description:

- A time profile defines when the phone number or lock code is valid or invalid
- Any profile can be assigned to a particular lock or a contact in the phone book
- Up to 20 time profiles

Usage:

- If you want to limit the access of a particular person at a particular time
- Option of various settings for day/night, winter/summer, morning shift/night shift,...
- E.g. cleaning service has an access code which is able to open the door just between 17:00 and 21:00

*3 time profiles by default, Profi licence offers up to 20 time profiles



Time profiles – activation/deactivation

PROF LICENCE

The screenshot shows the Helios IP Scheduler interface. The main content area is titled 'Scheduler' and contains several sections:

- General settings:** Profile name: no
- Profile activation & deactivation:** Activation code: [input field], Deactivation code: [input field], Profile current state: Inactive [Change button]
- Profile schedule:** A table with columns for 'Active' (No/Yes dropdowns) and 'From - To' (time range dropdowns) for each day of the week.
- User active if...:** Radio button options: Profile active only (independent), Profile & user active, Profile & user not active, Profile or user active, Profile or user not active.

The interface also includes a navigation bar at the top with 'Helios IP Showroom', 'CZ', and 'EN' language options, and a sidebar on the left with 'Information', 'Basic Settings' (including Phone book, Scheduler, Lock 1-4), 'Advanced Settings', and 'Tools'. A 'Logout' button is visible at the bottom left.

Feature description:

- It enables activation or deactivation of time profiles according to the actual user requirements

Usage:

- This feature enables the quick and easy change of time preferences in 2N[®] Helios IP
- E.g. a time profile called „business hours“ is set up from 9:00 to 17:00 and all calls are transferred to mobile phones
- If there is a holiday and a user doesn't want to be disturbed by calls, he can deactivate all calls using a deactivation code



Advanced lock settings

PROF LICENCE

Helios IP Showroom

CZ EN

2N TELECOMMUNICATIONS

Lock 1

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Monostable

Switch-on duration: 3 s

Sound signalization: User sound

Display info: Door opened

Output relay: On-board switch

Synchronize with: None

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

External command

Switch-on command:

Switch-off command:

Lock codes

	Code	Access	Time profile
1:	00	Full	[not used]
2:	1234	Full	[not used]
3:		Full	[not used]
4:		Full	[not used]
5:		Full	[not used]
6:		Full	[not used]
7:		Full	[not used]
8:		Full	[not used]
9:		Full	[not used]
10:		Full	[not used]

Enable ON/OFF mode: No

Logout

Feature description:

- There is a choice of output relay for a particular lock:
 - integrated on-board relay
 - additional switch

Usage:

- Lock 1 and lock 2 may have the same output relay, but with different settings for particular codes - e.g. the relay acts as monostable for lock 1 and as bistable for lock 2



Advanced lock settings

Lock mode

PROF LICENCE

Feature description:

This is a relay control method (both for the integrated relay and an additional one)

Option of two general settings for the lock:

- monostable

The relay is switched on by the entering of a code and it automatically deactivates itself after a particular time period

- bistable

The relay is switched on by a code and it stays switched on for an unlimited time period. The „open“ status is deactivated after re-entry of the code

Usage:

- The monostable mode is used mostly for lock control
- The bistable mode can be used for permanently open doors – e.g. for an Open Day

HeliosIP Helios IP Showroom CZ EN

2N TELECOMMUNICATIONS Lock 1

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Monostable

Switch-on duration: 5 s

Sound signalization: Long beep

Display info: Door opened

Output relay: On-board switch

Synchronize with: None

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

External command

Switch-on command:

Switch-off command:

Lock codes

	Code	Access	Time profile
1:	00	Full	[not used]
2:	1234	Full	[not used]
3:		Full	[not used]
4:		Full	[not used]
5:		Full	[not used]
6:		Full	[not used]
7:		Full	[not used]
8:		Full	[not used]
9:		Full	[not used]
10:		Full	[not used]

Lock code options

Enable ON/OFF mode: No

Logout



Advanced lock settings

Locks synchronising

PROF LICENCE

Helios IP CZ EN

2N TELECOMMUNICATIONS

Lock 2

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Bistable

Switch-on duration: 5 s

Sound signalization: None

Display info: Door opened

Output relay: On-board switch

Synchronize with: Lock #1

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

External command

Switch-on command:

Switch-off command:

Lock codes

	Code	Access	Time profile
1:	147	Full	[not used]
2:		Full	[not used]
3:		Full	[not used]
4:		Full	[not used]
5:		Full	[not used]
6:		Full	[not used]
7:		Full	[not used]
8:		Full	[not used]
9:		Full	[not used]
10:		Full	[not used]

Lock code options

Enable ON/OFF mode: No

Logout

Feature description:

This feature enables synchronized/sequenced switching of more than one locks.

Usage:

A front door with 2N Helios IP leads to a hall with another locked door (without 2N Helios IP) – it is possible to set up the automatic opening of the second door after opening of the first door (with a couple of seconds delay)



Advanced lock settings

Lock activation by call

PROF LICENCE

HeliosIP CZ EN

2N TELECOMMUNICATIONS Lock 1

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Monostable

Switch-on duration: 3 s

Sound signalization: User sound

Display info: Door opened

Output relay: On-board switch

Synchronize with: None

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

External command

Switch-on command:

Switch-off command:

Lock codes

	Code	Access	Time profile
1:	00	Full	[not used]
2:	1234	Full	[not used]
3:		Full	[not used]
4:		Full	[not used]
5:		Full	[not used]
6:		Full	[not used]
7:		Full	[not used]
8:		Full	[not used]
9:		Full	[not used]
10:		Full	[not used]

Lock code options

Enable ON/OFF mode: No

Logout

Feature description:

This feature enables lock activation on the basis of an incoming or outgoing call

Usage:

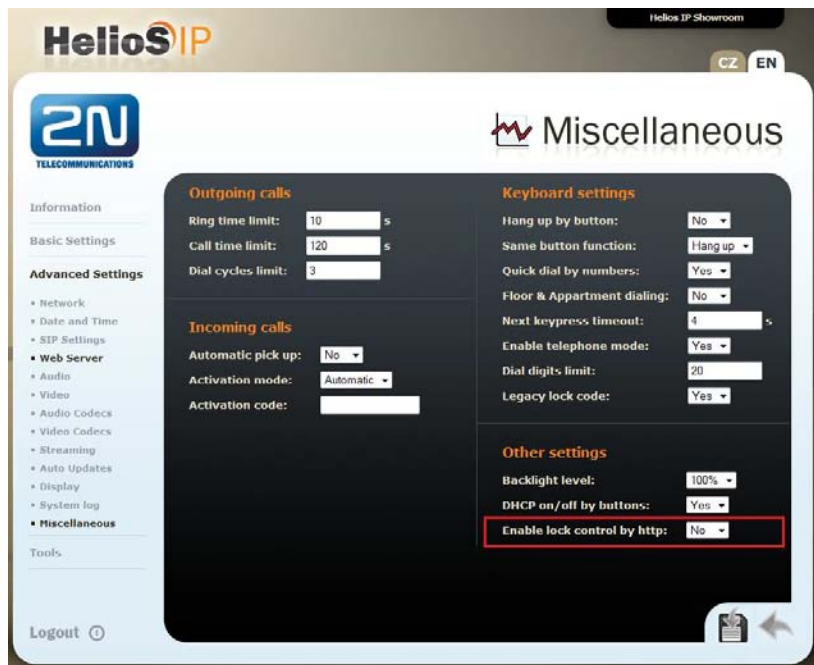
- An example of usage is the case where lights can be switched on during a call or an external surveillance system can be activated
- Another example can be the light signalisation as notification of incoming calls in large factories



Advanced lock settings

HTTP control

PROF LICENCE



Feature description:

The relay inside 2N® Helios IP can be activated/deactivated from another device by http command fully independent of incoming/outgoing calls

Usage:

In the case where 2N® Helios IP is integrated into the home automation system (= you can operate e.g. central heating, air conditioning, security or door entry from one central tablet in the house) and this feature enables the opening of the door lock from this tablet independent of incoming/outgoing calls



Advanced lock settings

IP relay

PROF LICENCE

HeliosIP Helios IP Showroom CZ EN

2N TELECOMMUNICATIONS Lock 1

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Monostable

Switch-on duration: 3 s

Sound signalization: User sound

Display info: Door opened

Output relay: On-board switch

Synchronize with: None

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

External command

Switch-on command:

Switch-off command:

Lock codes

Code	Access	Time profile
1: 00	Full <input type="text"/>	[not used] <input type="text"/>
2: 1234	Full <input type="text"/>	[not used] <input type="text"/>
3:	Full <input type="text"/>	[not used] <input type="text"/>
4:	Full <input type="text"/>	[not used] <input type="text"/>
5:	Full <input type="text"/>	[not used] <input type="text"/>
6:	Full <input type="text"/>	[not used] <input type="text"/>
7:	Full <input type="text"/>	[not used] <input type="text"/>
8:	Full <input type="text"/>	[not used] <input type="text"/>
9:	Full <input type="text"/>	[not used] <input type="text"/>
10:	Full <input type="text"/>	[not used] <input type="text"/>

Lock code options

Enable ON/OFF mode: No

Logout

Feature description:

- This feature provides the option of using another relay besides the integrated or the additional relay in 2N[®] Helios IP
- IP relay is controlled by http command that is specified in lock settings (the range of settings is the same as for the integrated or additional relays)

Usage:

- This feature is used to switch on a remote device
- It is also a safer method of lock control compared to the integrated or additional relay



Quick dial button

PROF LICENCE

Helios IP CZ EN

2N TELECOMMUNICATIONS Lock 1

Information

Basic Settings

- Phone book
- Scheduler
- Lock 1
- Lock 2
- Lock 3
- Lock 4

Advanced Settings

Tools

Logout

Lock settings

Lock enabled: Yes

Time profile: [not used]

Lock mode: Monostable

Switch-on duration: 3 s

Sound signalization: User sound

Display info: Door opened

Output relay: On-board switch

Synchronize with: None

Synchronization delay: 8 s

Activate by call: No

Quick dial button: None

Lock codes

Code	Access	Time profile
1: 00	Full	[not used]
2: 1234	Full	[not used]
3:	Full	[not used]
4:	Full	[not used]
5:	Full	[not used]
6:	Full	[not used]
7:	Full	[not used]
8:	Full	[not used]
9:	Full	[not used]
10:	Full	[not used]

External command

Switch-on command:

Switch-off command:

Lock code options

Enable ON/OFF mode: No

Feature description:

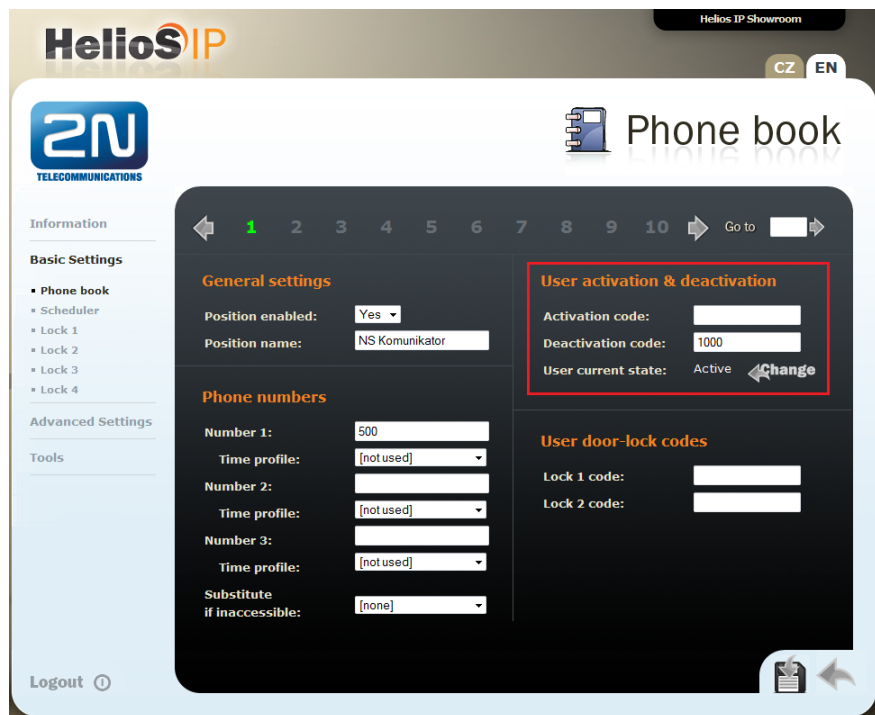
- This feature enables the user to manage the locks using quick dial buttons (the particular quick dial button is defined in a configuration tool)
- This quick dial button can be also a button on the extender

Usage:

E.g. any quick dial button can be used for activation of the lighting in the hall room – a quick dial button activates the relay for a particular time period



User activation/deactivation



Feature description:

This feature enables the activation or deactivation of a user in the phone book

Usage:

When a user leaves for holidays he/she can deactivate his/her contact in the phone book.

This means that no calls will be put through to this contact and callers will hear a busy tone (or a user message, e.g. „Please call reception“)



Phone book - substitute

PROF LICENCE

Helios IP Showroom

2N TELECOMMUNICATIONS

Phone book

Information

Basic Settings

- Phone book
- Scheduler
- Lock 1
- Lock 2
- Lock 3
- Lock 4

Advanced Settings

Tools

Logout

General settings

Position enabled: Yes

Position name: NS Komunikator

Phone numbers

Number 1: 500
Time profile: [not used]

Number 2:
Time profile: [not used]

Number 3:
Time profile: [not used]

Substitute if inaccessible: [none]

User activation & deactivation

Activation code:
Deactivation code: 1000
User current state: Active Change

User door-lock codes

Lock 1 code:
Lock 2 code:

Feature description:

This feature enables the assignment of a substitute person to the existing phone book as a 4th number to the contact

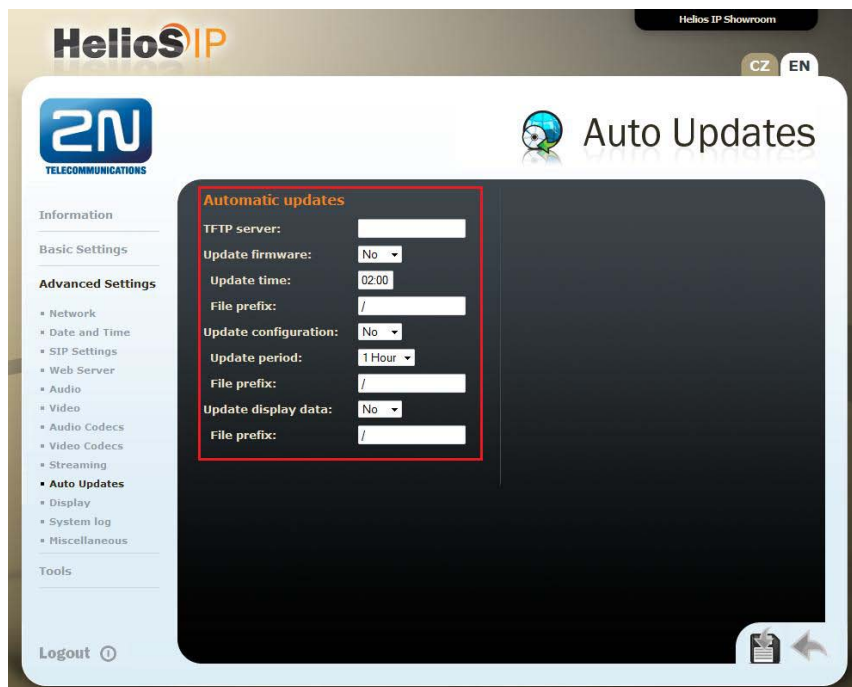
Usage:

- When the user is not available after dialling all three set phone numbers, a call will be transferred to the substitute person from the phone book, and all 3 phone numbers set under this contact will be dialled
- This means that the substitute is not a phone number but a position in the phone book (e.g. co-worker, secretary, ...)



TFTP server

PROF LICENCE



Feature description:

- This feature enables the automatic update of firmware and configuration from a TFTP server
- It provides substantial time savings for the IT department, or estate manager where many units have to be administered

Usage:

All 2N[®] Helios IP units can download the configuration and new firmware from one place in the case of extensive installations – there is no need to upgrade all units one by one



Network trace

Helios IP Showroom

CZ EN

Network trace

Packet capturing status

Capturing state:	Stopped
Buffer size:	4096 KB
Buffer utilization:	0 KB
Packets captured:	0
Download pcap file:	hiptrace.pcap

Capturing start/stop control

START Start capturing packets

Logout ⓘ

Feature description:

This feature enables the communication to be traced from the web menu of 2N[®] Helios IP directly to the 2N[®] Helios IP unit

Usage:

This feature assists the quick detection of trouble in communication and configuration of 2N[®] Helios IP



	91371x1(CK) 2N® Helios IP Basic	91371x0(CK) 2N® Helios IP Professional
Number of users Maximum number of users – phone directory capacity.	54	999
Number of time profiles Maximum number of time profiles.	3	20
Electric lock codes Maximum number of global codes and user codes for electric lock activation.	2 global, No user codes	10 global, User codes available
Telephone mode Enables 2N® Helios IP to behave as an ordinary telephone – enables the phone number to be dialled from the keypad.	YES	YES
RTSP server Built-in RTSP server for audio and video streaming independently of phone calls.	NO	YES
SIP video Supports video calls.	YES	YES
Activation codes Supports codes for activation and deactivation of users and time profiles.	NO	YES
Substitute function Enables to enter a substitute for a user that will be dialled in case the user is unreachable or inactive.	NO	YES
TFTP client Automatic configuration and firmware upgrade from TFTP server.	NO	YES
Extended lock control Extended settings for built-in and additional switches.	NO	YES
User sounds Enables recording of user sounds to replace standard status signalling sounds.	NO	YES