



innovaphone
CONNECT 2022

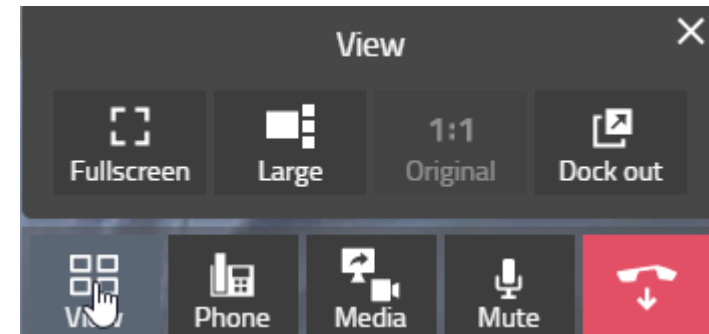
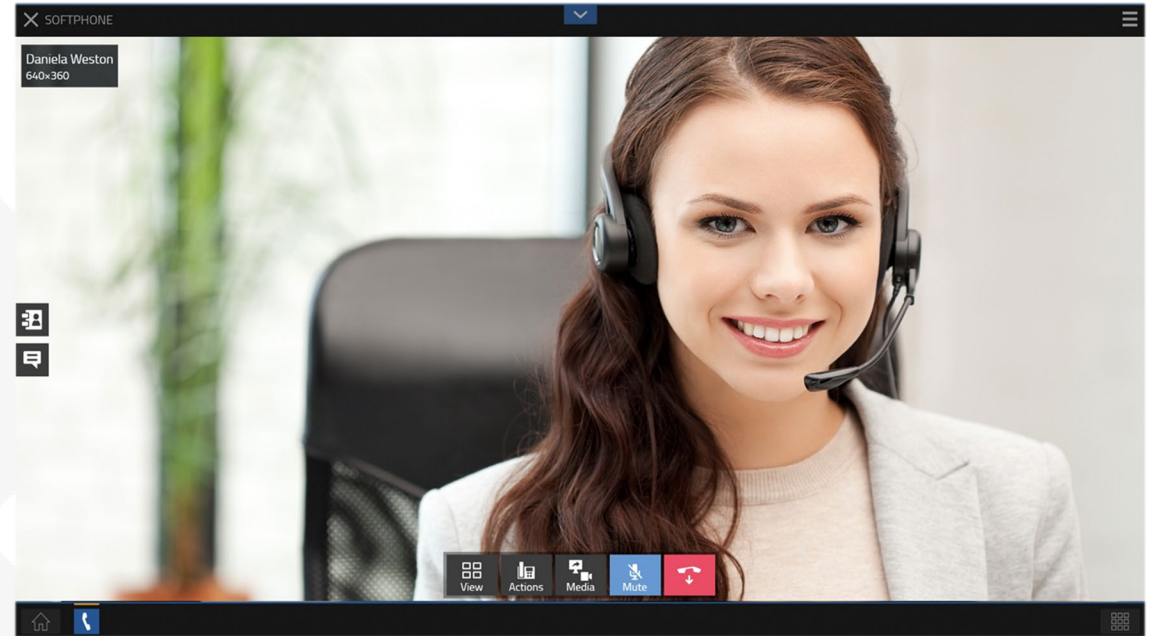


innovaphone Products & Solutions – Technical Highlights

Softphone

Softphone - What's new?

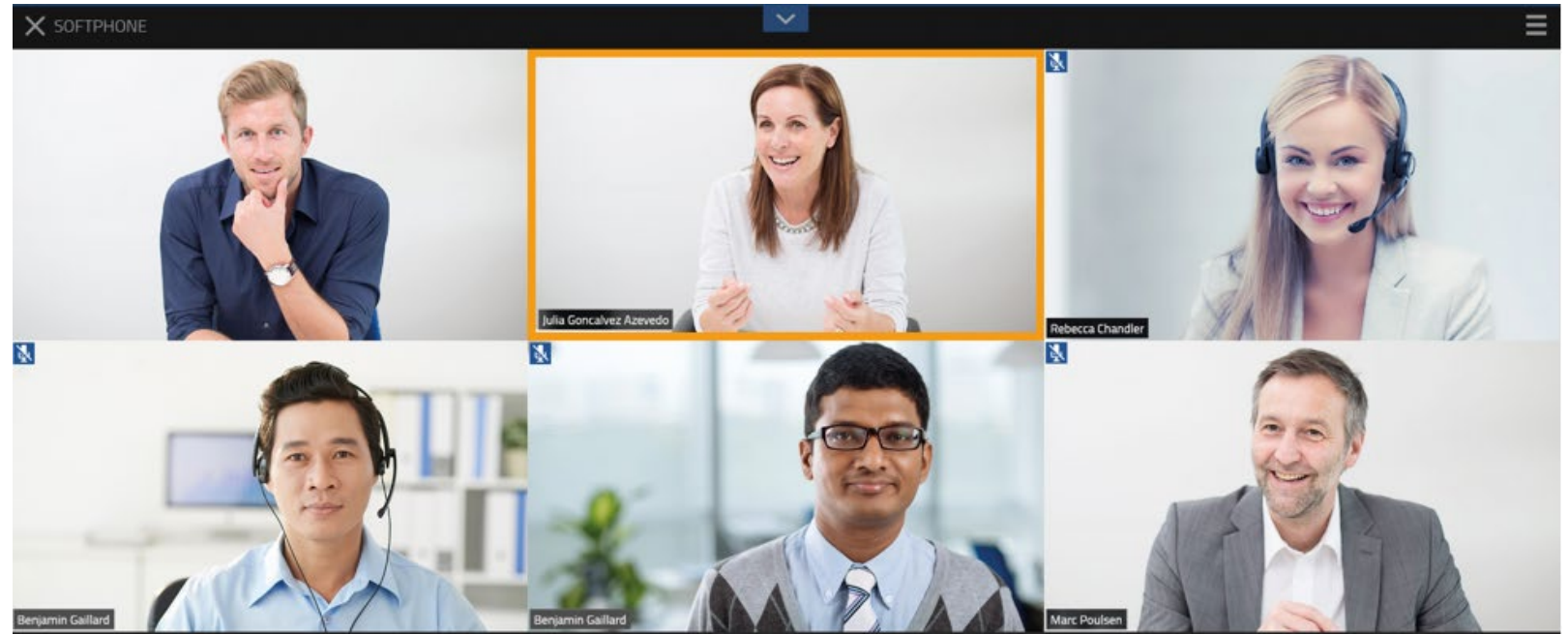
- Softphone improved development
- Native myApps launcher integration, call signaling through myApps launcher - Call remains active (audio only) when the Softphone app is closed
- New UI user interface





Softphone

- Multi video window
 - Multi video in Softphone and Phone app
 - Multi video in 3 party conference calls
 - Multi video in conference calls





Softphone

Some features are still available even when the Softphone UI is not running. There are feature variations between the native client and the browser.

Softphone UI not running:

Feature	Availability				
	Windows	iOS	Android	macOS	Browser
Audio calls only	✓	✓	✓	✓	✗
Accept / reject incoming calls (using OS notification)	✓	✓	✓	✓	✗
Disconnect calls (using OS notification)	✓	✓	✓	✓	✗
Possibility to record calls	✓	✓	✓	✓	✗

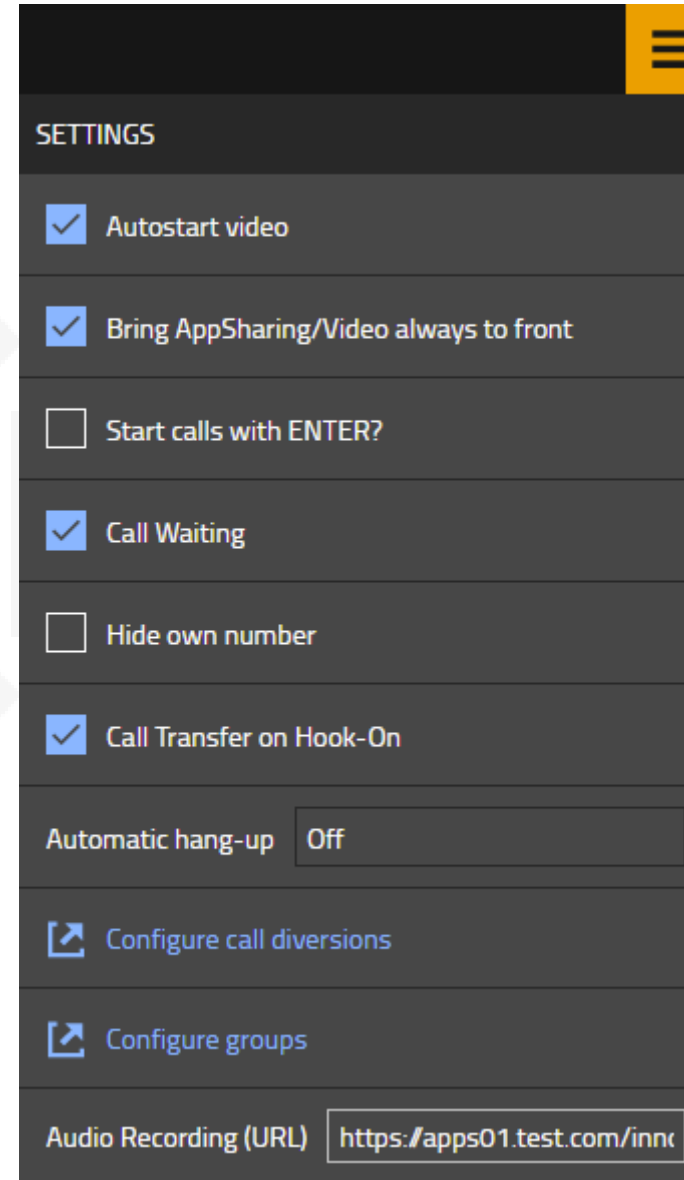
Use cases:

- Smartphones: Incoming calls (via Push) can be accepted, while the UI is still loading.
- Windows: Call is not disconnected when closing Softphone App inside myApps.



New Features in Softphone / Phone App

- Shortcut „call forwarding“ and „group settings“ in the Phone app and the Softphone app.
- Possibility in the Softphone app to set „Hide own number“ and set „Call Waiting“ option.
- Search for conference rooms via the Phone and Softphone app and directly dial into the conference room.



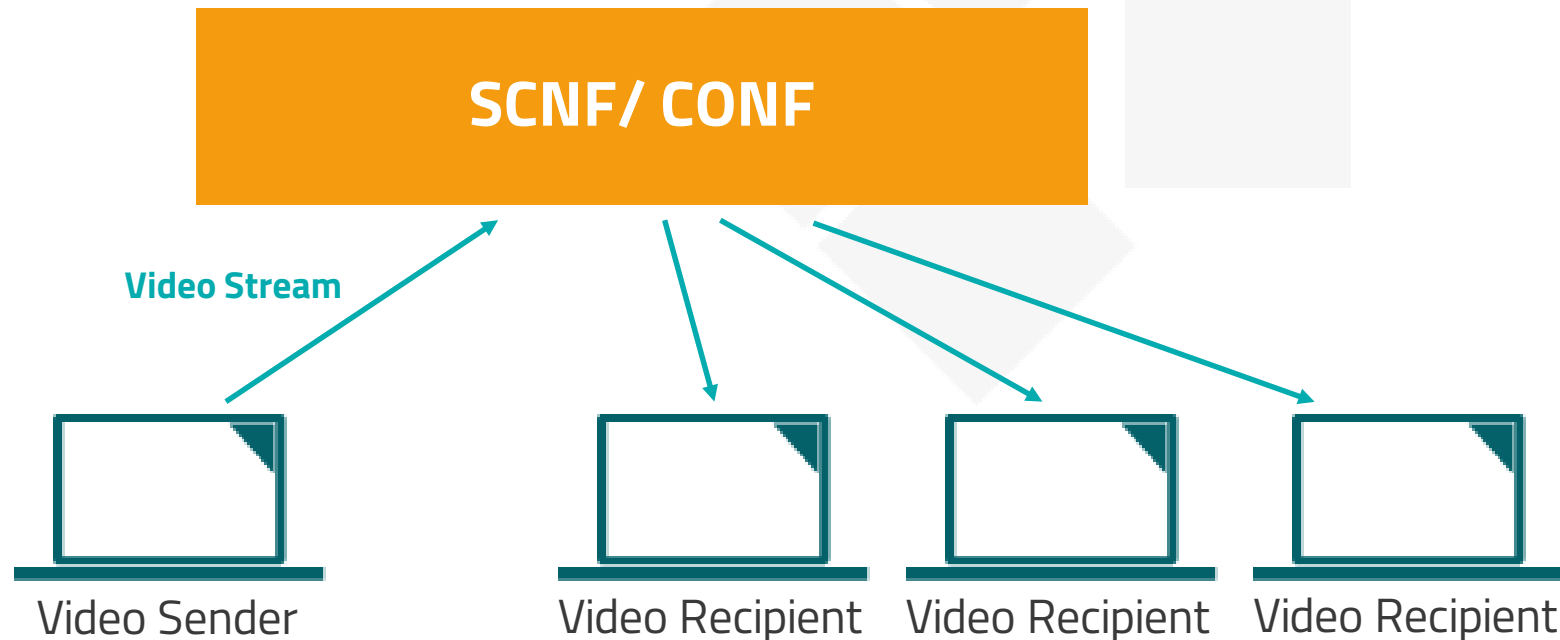


Video Conference in 13r3

- Up to 3 video-send connections with different quality / bandwidth profiles can be set up:
 - Video stream with LOW bandwidth (bandwidth < 100 kbit/s)
 - Video stream with MEDIUM bandwidth (bandwidth < 250 kbit/s)
 - Video stream with HIGH bandwidth (bandwidth < 1000 kbit/s)

Video Conference in V13r3

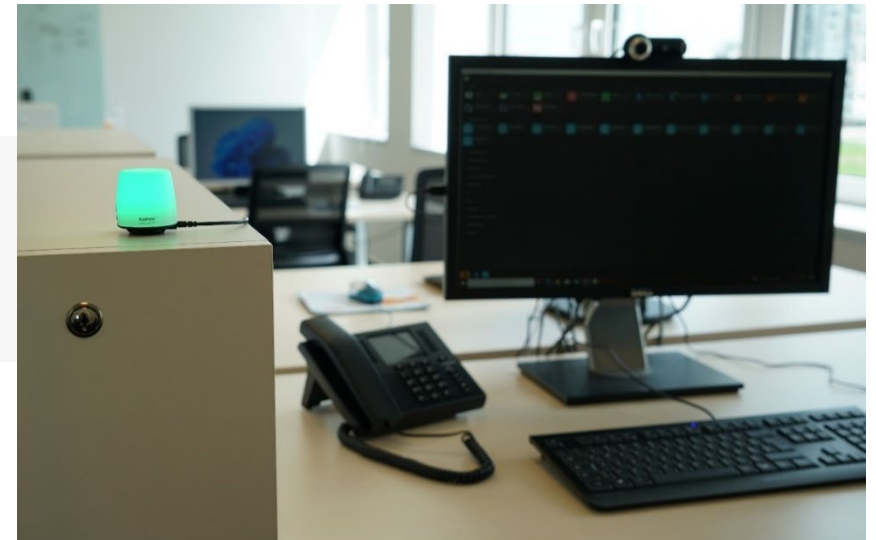
- All video streams will be transmitted to the central conference depending on the requests of the participants. The central conference will transmit these video streams upon request to the other participants.



New App - Connector for kuando®

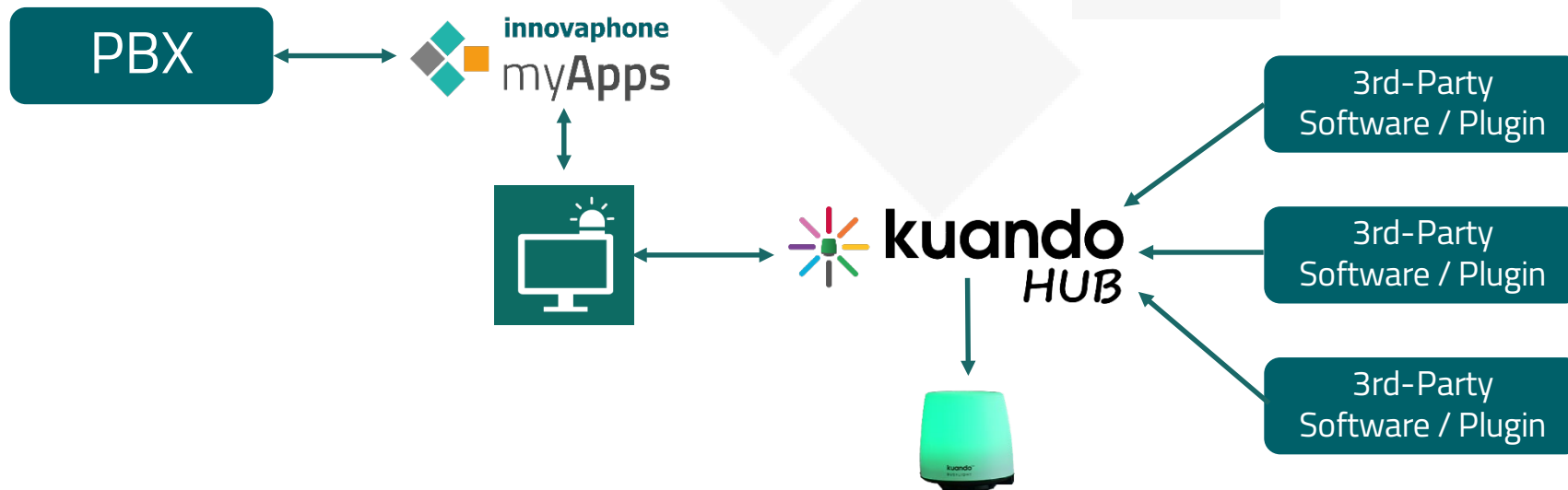
■ Presence state display via a Plenom® / kuando® USB-Busylight

- The basic aim of this app is to control a USB-busylight from the manufacturer *Plenom / kuando®* which is connected to the PC via USB.
- The telephony and presence status can be shown in different colors on the busylight.
- The busy status can also be synchronized across other applications via a software called "kuandoHUB®".



Call in myApps - Connector for kuando®

- The PBX informs myApps about a call
- innovaphone myApps sends this information to the app Connector for kuando®
- The app Connector for kuando® sends this information to the HTTP interface of the kuandoHUB®
- The kuandoHUB® communicates via USB to the Busylight
- Other 3rd party applications can request the actual state and provide it for further actions and/or presence information.

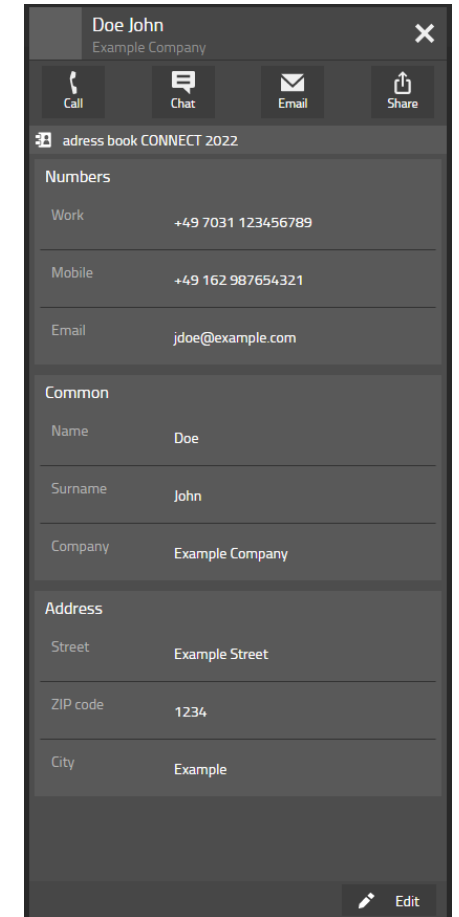
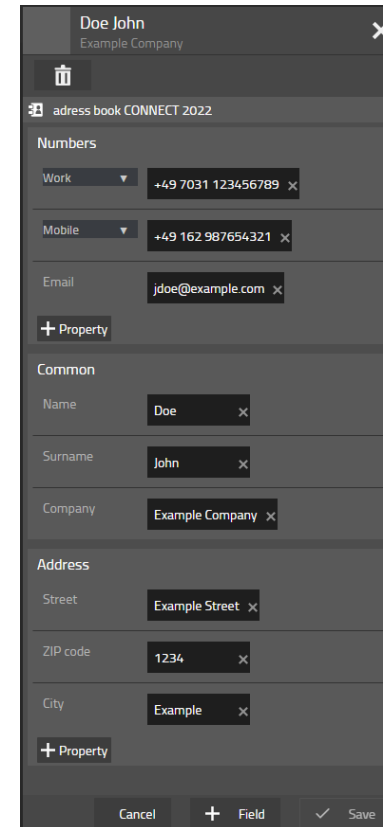
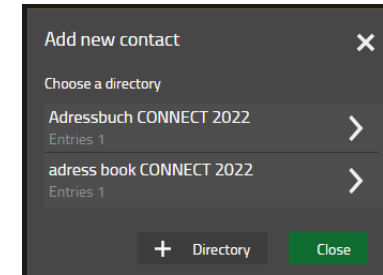




Contacts App – Extensions



- With version 13r3 of the Contacts app for users and admins, it is possible to add, edit and delete contacts from the GUI directly without using the UTF8 import file. It is also possible for users and admins to create personal address books. These can be shared with other users or groups.
- Only users/groups with sufficient rights can see these shared address books. An access control list (acl) will be used to manage these rights.
- These groups correspond to PBX groups. The Contacts app receives only active PBX group memberships.
- By default, only the creator of a personal address book is able to see the content of this address book.





Calendar Presence Mapping - Options

- Tentative exceptions organizer
- Tentative
- Out of office
- Working elsewhere
- No data

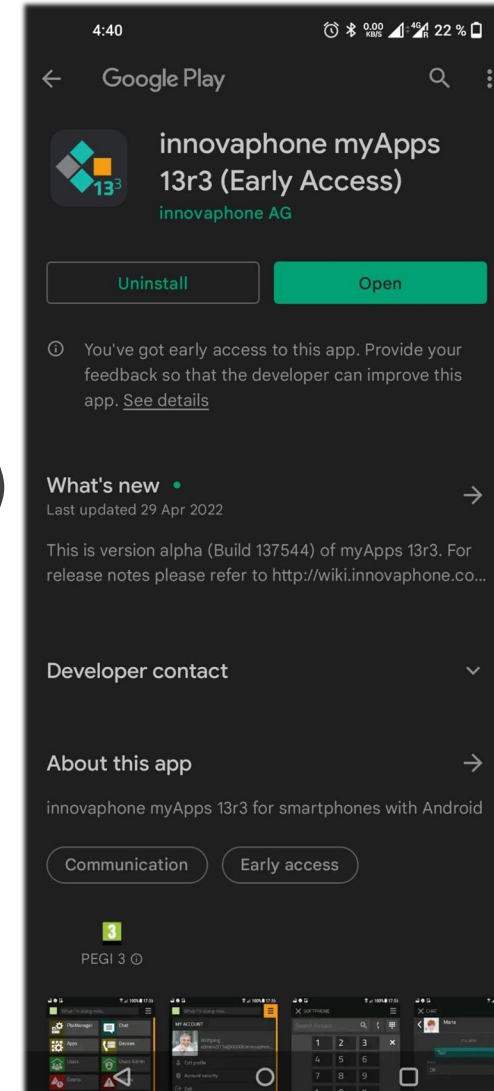
Presence mapping	
Tentative exceptions organizer*	twl@innovaphone.com
Exchange presence	PBX presence
Tentative	Ignore for presence ▼
Tentative exception*	Away ▼
Out of office	Away ▼
Working elsewhere	Away ▼
No data	Available ▼

Android: Test innovaphone myApps 13r3

- How can you try the Android app innovaphone myApps 13r3?
 - Early access via the link or QR code
 - Install this app on your Android phone
 - Then you can install innovaphone myApps 13r3 (early access)
 - And let's get started 😊



<https://play.google.com/store/apps/details?id=com.innovaphone.clientandroid13r3>



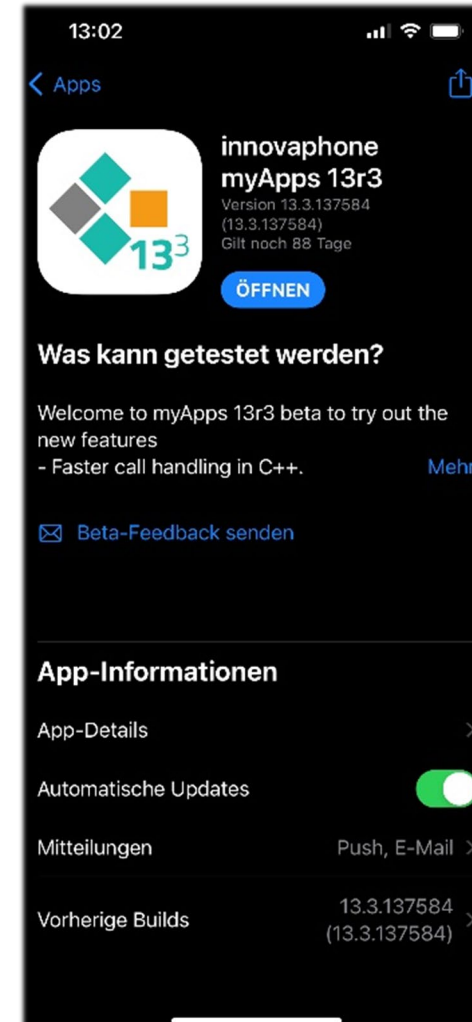


Apple: Test innovaphone myApps 13r3

- How can you try the new iPhone, iPad and iMac apps innovaphone myApps 13r3?
 - Via the link or QR Code you can download the TestFlight app
 - Install the app on your Apple device
 - Via the TestFlight app, you can install innovaphone myApps 13r3
 - And let's get started 😊



<https://testflight.apple.com/join/T8PwSgfj>





Android & Apple: Test innovaphone myApps 13r3

- What should be considered?
 - You should register at a 13r3 PBX.
 - An Google account is required for early access
 - An Apple ID is required for iOS Testflight
 - You will be informed by the TestFlight app if a new version is available.



Devices App : New Expert Configuration

- It is now possible to define a device configuration to carry out specific commands via an expert console.
- The idea: enhancing the device configuration from the Devices app.
- Syntax is the same as used in the old update server.
- To avoid config conflict, do not use commands that are used with devices configuration (eg: scfg, prot).
- The expert configuration is executed after all other device configuration types so that you can override changes. It is also performed each time you restart the endpoint.



Devices App : New Expert Configuration

Domains twl.lcl Device configuration

Define device configuration

Expert configuration

Description

Apply to all devices

Categories

You can configure a script here which corresponds to an update server script and which is executed line by line on the devices. The expert configuration will always be applied after all other configurations. Previous changes may therefore be overwritten. As with all other configurations, this script is executed on every change and after each reboot of a device.

Further information

```
config clear
config write
vars del
ireset
```





App Platform Replication

- For one primary server, you can configure multiple standby servers.
- Standby servers are read only.
- For the replication, you can only use the same system architecture (eg. Arm/Arm, x86_64/x86_64 etc.) and equal or bigger hard disks.
- App Platform image from version 110002 and up.
- The failover must be started manually. There is no automatic failover-mechanism.



What will be Replicated

- The complete database cluster
 - All databases from the app instances
 - Database of the App Platform Manager

Installierte Apps				
Name	Version	Status	Manufacturer	
App Store	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Calendar	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Contacts	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Devices	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Events	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Fax	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Files	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Messages	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Queues	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Recordings	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Reports	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Users	13r3 137578 beta1	▶ Gestartet	innovaphone AG	
Voicemail_de	13r3 137578 beta1	▶ Gestartet	innovaphone AG	

Replikation: Primär-Server ▶

Speicherverbrauch 5% ▶





Replication Configuration

- No replication
- Primary server
 - You can configure up to 8 standby servers
 - Every standby server must be known by the primary server with a unique name because it stores the data while the standby server might be offline.
 - Password for the replication

Replication setting for this AP

Primary server

! Standby servers must have the same system architecture (IPx11 and IPx11, VM and VM, IPx13 and IPx13).

Password of the replication connection

+ Add standby server

standby	AP-Sifi (standby)	✓	✎	🗑️
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Replication Configuration

- Standby server
 - Configuration of the primary server (DNS or IP) and port
 - Standby name (a standby server name must be a valid domain name)

Replication setting for this AP



Standby server

! This server will be a standby server. It must has the same system architecture as the primary server (IPx11 and IPx11, VM and VM, IPx13 and IPx13).

Primary server address

Port

Standby name

Password of the replication connection
  

Apply



New Function "App Platform Default URL"

- In the settings of the innovaphone App Platform, you now have the possibility to configure a default URL.
- If somebody wants to access the AP based on an IP or DNS name without a valid path, the visitor will be redirected to this path.

Settings				
General	Security	Alarms and events	Sntp	Registered access domains
Enable developer mode	<input checked="" type="checkbox"/>			
Disable App security	<input type="checkbox"/>			
App Store URL	<input type="text" value="https://store.innovaphone.com/beta/download/apps.json"/>			
Devices app URL	<input type="text" value="https://store.innovaphone.com/beta/download/apps.json"/>			
Devices app URL 2	<input type="text" value="wss://dns.app-platform.com/devices/sysclients"/>			
App Platform DNS name	<input type="text" value="192.168.1.100:8080"/>			
Default URL	<input type="text" value="manager/manager.htm"/>			



Users App - Service Improvements

Changes in the Profile app, Users app, Search API, Users Admin app

- Profile app: call forwarding based on offline/online mode of myApps. It will execute any configured CF when this option is activated in your Profile app.
 - Settings stored in the PBX user object.
- Users app and Search API: Improved sent number. Before, only extension was sent. Now, relative numbers are sent and can be used to directly start a call (eg: users in different nodes).
- Users Admin app: user list filter for provisioning improved, added scrollbar, better UI rendering. New flags, media relay and single reg added in the hardware ID section.
- Password Reset:
 - A phishing attack protection has been added, a random key is set and cross-checked with the DB for every password reset attempt. With key mismatch, no password change will be applied.
 - Redirection of the confirmation page managed by the app service, no local parameters are sent anymore.
 - Wrong-click protection: With the new random key mechanism, the user cannot accidentally click on the confirmation link more than once. Nothing will happen and the password will not be overwritten by accident.



Users Admin App - Service Improvements

Users Admin App



USERSADMIN

Benutzer Unbestätigte Benutzer Telefone registrieren

Benutzer

Benutzername	Vorname	Nachname	E-Mail	ID	Nebenstelle	Template	Node	PBX-Name
jbi			jbidal	Jérémie Bidal	48	Config Admin	root	sifi

Benutzername: jbi Vorname: Nachname: ID: Jérémie Bidal

Executive/Secretary: Vor LDAP verstecken: Template: Config Admin

Anzeigename: E-Mail: Nebenstelle: Node: root PBX-Name: sifi

Geräte

Hardware Id	Name	App	PBX Pwd	No IP Filter	TLS only	No Mobility	Reverse Proxy	Single Reg.	Media Relay
SwPh_jbi_5e624b9b	Softphone	softphone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	IP102 HO	phone	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Navigation: Anfang Unten Hinzufügen Duplizieren Bearbeiten Bestätigen Löschen CSV XML Profilbild





Profile App - Service Improvements

Profile App



Call diversions

i Please select a call diversion and enter a phone number or a SIP URI. Use the switch to turn any call diversion on or off. An external telephone number must begin with 0.

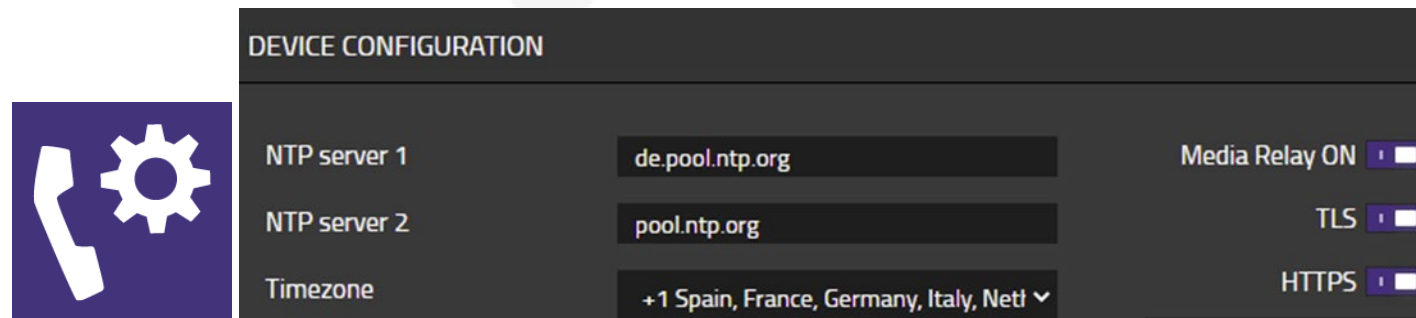
Call forwarding when offline on myApps

Depends on the Presence status



Improvements for the Provisioning App for Yealink

- If a device is deleted from the Provisioning App for Yealink:
 - The MAC address will be deleted from the PBX User Objects HW ID
 - The device will be deleted in the Devices app
- Configuring access data for the web UI of the Yealink device:
 - In the menu of the Provisioning App for Yealink, it is now possible to configure a username and password





TLS 1.3 Support

- New TLS version implemented, including 2 new ciphers suite
 - TLS_AES_128_GCM_SHA256
 - TLS_AES_256_GCM_SHA384
- Merged in all TLS profiles
- New security feature “disable renegotiation”, renegotiation could be used by attackers to cause CPU load on servers
- TLS 1.3 does not currently support DTLS since there is no RFC implementation yet

Version	TLS (normal)	TLS (fast)	TLS (high security)	TLS (strict)	TLS (experimental)	DTLS
1.3	✓	✓	✓	✓	✓	✗
1.2	✓	✓	✓	✓	✓	✓
1.1	✓	✓	✗	✗	✗	N/A
1.0	✓	✓	✗	✗	✗	✗





Install “DTLS-SDES” is the New Default for SRTP

- For the new installations, the installer will now configure by default the most secured SRTP key exchange (DTLS-SDES) combination.
- This is set in the Devices configuration and can be changed or switched back to SDES-DTLS any time



Reverse Proxy “More information for blacklist events”

- The affected service and host will now be shown in the event
- This makes it easier to assign an event to a specific host or service

Time	Type	Code	Severity	Remote Source	Description
02.06.2022-09:15:09	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 64.237.188 HTTP/-
02.06.2022-08:48:40	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 34.1206 HTTP/-
02.06.2022-07:38:29	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 64.237.188 HTTP/-
02.06.2022-07:00:09	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 184.195 HTTP/-
02.06.2022-06:38:58	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 64.237.188 HTTP/-
02.06.2022-05:57:54	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 192.3.210 HTTP/-
02.06.2022-04:24:24	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 64.237.188 HTTP/-
02.06.2022-03:21:49	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 34.233 HTTP/-
02.06.2022-01:41:14	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 64.237.188 HTTP/-
02.06.2022-01:39:42	Error	0x00230001	Major	REVERSE-PROXY	Automatic Blacklist 20.245 SIP/-



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