Sample Configuration with activated innovaphone® PBX and IP-Phones

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1.Introduction:

This sample configuration has been created to support inexperienced persons to understand the administration and configuration easier. By changing of a few parameters (IP address/ISDN-Interface configuration/etc.) it is easily possible to adjust the configuration to personal requirements. This can be either done by editing the respective config text file or by adding the required changes in the Web-based configuration interface. In any case we do strongly suggest having the user manual of the respective product handy for reference! To upload the configuration files to the units, please open the Web configuration interface using your Internet browser and use the following function:

"Administration" -> "config update" to upload the config files onto the unit.

1.1 Scenario:

The shown scenario is a typical one. One IP 400 is used as a Gateway connected to a standard PBX or connected to an ISDN Trunk line and therefore enables the IP Phones/Soft Clients within the LAN a connection to the ISDN world. The IP 400 does not only act as a Gateway it has furthermore the activated innovaphone® PBX at which several IP endpoints register. This has the advantage that IP endpoints can communicate with each other within the LAN and even transport telephony supplementary services based on the H.450 standard. The configuration is already setup that the innovaphone® PBX Operator and the innovaphone® TAPI Service Provider can connect easily with the innovaphone® PBX.

1.2 Firmware Versions:

The scenario has been set up and tested with firmware version 5426.

Minimum firmware Version :

IP400	>=	5426
IP200	>=	5426
IP21	>=	5426
PBX Operator	>=	5426
TAPI Servie-Provider	>=	5426
SoftwarePhone	>=	5426

1.3 Characteristics:

Caution !! To activate the innovaphone® PBX the innovaphone test license has been used. This license allows a maximum of 8 simultaneous registrations. As in this configuration already 2 registrations have been used for internal reasons it is only possible to register another six H.323 endpoints. This restriction can be waived by replacing the test license through an official license key.

Please note that you need to have a Microsoft .net runtime installed on your workstation to be able to run the innovaphone® PBX Operator!! This can be downloaded free of charge from the Microsoft website.

In this sample we have used fictitiously MSN's which are mapped to the extensions of the innovaphone® PBX. These can be simply changed or manipulated. The necessary configurations you find in the web configuration interface:

„ISDN, tone and Http Interfaces" -> "*PPP Trunkline…*" -> "*Called party num. in*"

The IP phones have been configured with fixed IP addresses. We would like to point out that if you have an DHCP server within your network, the phones can obviously be run in DHCP Client Mode. With the firmware version 5 we have created the possibility to register phones to the innovaphone® PBX without the need to configure the phone itself.

With this sample configuration we suggest to register the phones at the innovaphone® PBX using the following steps:

- Type in an IP address into the IP 200 (see Capital 2.1).
- Wait until the registration sign at the right lower corner of the display stops flashing.
- Lift the receiver and dial the number you have planned for this handset. (configured are the following: 10 , 11 , 12)
- After this the phone does an automatic reboot and after 30 seconds it is re-registered with the correct extension in the innovaphone® PBX.
- *If you want to delete the assignment, simply go to the user tablet in the PBX configuration and delete the Hardware-ID of the respective user.*

Alternatively you can upload the enclosed configurations to each phone. That way the IP phone is statically assigned to each user.

1.4 Content of the ZipFiles "Example_PBX_with_IP400_V5.zip":

Liesmich.pdf	= explanation to "Example_PBX_with_IP400_V5.zip" (Deutsch)
Readme.txt	= Explanation to "Example_PBX_with_IP400_V5.zip" (English) (This Document)
IP400_with_PBX_example_V5.txt	= Configuration IP400
IP21_#13_PBX_example_V5.txt	= Configuration IP21 / Rufnummer 13
IP200_#10_PBX_example_V5.txt	= Configuration IP200 / Extension 10*
IP200_#11_PBX_example_V5.txt	= Configuration IP200 / Extension 11*
IP200_#12_PBX_example_V5.txt	= Configuration IP200 / Extension 12*

(* You will only need these configurations if you don't want to use the configurations method by dialling the extension on the phone itself.)

2. Setup of IP addresses:

Before you can upload the config files onto the units, these need to have unique IP addresses assigned. At this point we do only describe the simplest way. How to set up the IP addresses using DHCP, please refer to the user manuals.

2.1 innovaphone IP 200 / IP 202

- Press the green „Menu"-key above the alpha numerical keypad.
- Select the following function key at the right side of the display:
  „Configuration" -> „IP settings" -> „DHCP mode" an select „off".
- Press „IP addresses" and type in the IP address of the unit.
- Press the green „Menu"-key several times until the message „safe changes" appears. Confirm with „yes".
- After the automatic reset, please hook up the phone to your network, start the internet browser and type in the IP address of the phone. The start page of the phone will appear.
- Please check if the firmware is at least the minimum required firmware version. If not, please update the unit using the function "Firmware Update"
- Now the phones can register with the innovaphone® PBX.

2.2 innovaphone IP 400 / IP 3000

- Connect the unit with a standard Network cable directly with your PC.
- Switch the button „connect to" to the „**PC**" position.
- Press the Reset-button for about 5 seconds and release it. Press the Reset-button again, just once. Don't power off the unit, otherwise please repeat this procedure.
- The PC must now have received an IP address from the Network 192.168.0.0, for example 192.168.0.2.
- Start your internet browser and type in: 192.168.0.1. Afterwards the start page of the unit should appear.
- On the left side of the screen, please select „Config". A Java-Applet is opening.
- When asked for the login, please type in ***admin*** for user and based on the used product either ***ip400*** or ***ip3000*** as password.
- Open the menu „IP Interfaces -> Ethernet Interface". Type in the desired IP address on the right side of the screen and turn the DHCP mode to „**off**".
- Finally press the buttons „Save" und „Activate". You will be asked to „Reset", please do yo and wait a few seconds.
- Please check if the firmware is at least the minimum required firmware version. If not, please update the unit using the function "Firmware Update". Following this, please upload the config file as well, using the „Config Update" function.
- Bring the switch „connect to" into the „**Hub**" position and connect the unit directly with your Ethernet Switch / HUB.

2.3 innovaphone IP 21

- Connect the unit with a standard Network cable directly with your PC.
- Switch the button left of the Ethernet plug into the right position.
- Press the Reset-button for about 5 seconds and release it. Press the Reset-button again, just once. Don't power off the unit, otherwise please repeat this procedure.
- The PC must now have received an IP address from the Network 192.168.0.0, for example 192.168.0.2.
- Start your internet browser and type in: 192.168.0.1. Afterwards the start page of the unit should appear.
- On the left side of the screen, please select „Config". A Java-Applet is opening.
- When asked for the login, please type in ***admin*** for user and ***ip21*** as password.
- Open the menu „IP Interfaces -> Ethernet Interface". Type in the desired IP address on the right side of the screen and turn the DHCP mode to „**off**".
- Finally press the buttons „Save" und „Activate". You will be asked to „Reset", please do yo and wait a few seconds.
- Please check if the firmware is at least the minimum required firmware version. If not, please update the unit using the function "Firmware Update". Following this, please upload the config file as well, using the „Config Update" function.
- Switch the button left of the Ethernet plug back into it's original position.

3. What to do if something does not work

These sample configurations have been carefully produced and tested. We feel to have them made close to real life scenarios and kept them easy to personalize. Should you have questions or if some extensions do not work as expected it will be our pleasure to help you.

The easiest and fastest way is to send an email to our support team. Please use only support@innovaphone.com for your communication.

Please be precise with your description of the problem or query you might have and attach the config files of the units you suspect to be the reason to the email. If you have changed the user name or password we do need these information as well. A drawing of the scenario would be very helpful as well, because a "picture says more than thousand words…."

Saving the configs is very easy. Open the start page of the unit and click on the „*Config save (all)*". Link and the config will be saved as a text file on your Hard disk.

Please note that imprecise information and or the missing of the configuration files will only produce questions and might lead to an unnecessary delay of the solution.

4. Drawing of the Scenario „ IP400 with activated innovaphone® PBX“:

Dialing Plan:

0	OutsideLine (PPP)
10	IP200 - Sammy
11	IP200 - Michael
12	IP200 - Lisa
13	IP21 - analog
14	SoftwarePhone
20	ISDNphone
88	GroupCall
9	Operator
*****	Pickupinitate

Example Configuration:
IP400 with active innovaphone PBX, IP-Phones, ISDN-Phone, Terminaladapter, PBX Operator, TAPI Servie Provider, Softphone

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5. Necessary properties for the innovaphone® TAPI Service Provider:

During the installation the following parameters have to be typed in :

Gateway = **192.168.0.10**

Account = **admin**

Password = **ip400**

Username = **_TAPI_**

Please mark: *„ Control and monitor all users* "

If after pressing the Buttons „**Verify**" the following message appears :

the configuration has been successful and you can start installing your TAPI application.

6. Necessary properties for the innovaphone® PBX Operator:

With „File" -> „Config" you open the configuration menu.

Here you need to type in:

IP Address	=	**192.168.0.10**
Account	=	**admin**
Password	=	**ip400**
Name of Operator	=	**Sammy Davis**
Name of Waiting-Queue	=	**PBX Operator**

After pressing the „OK" button, the following screen should appear: