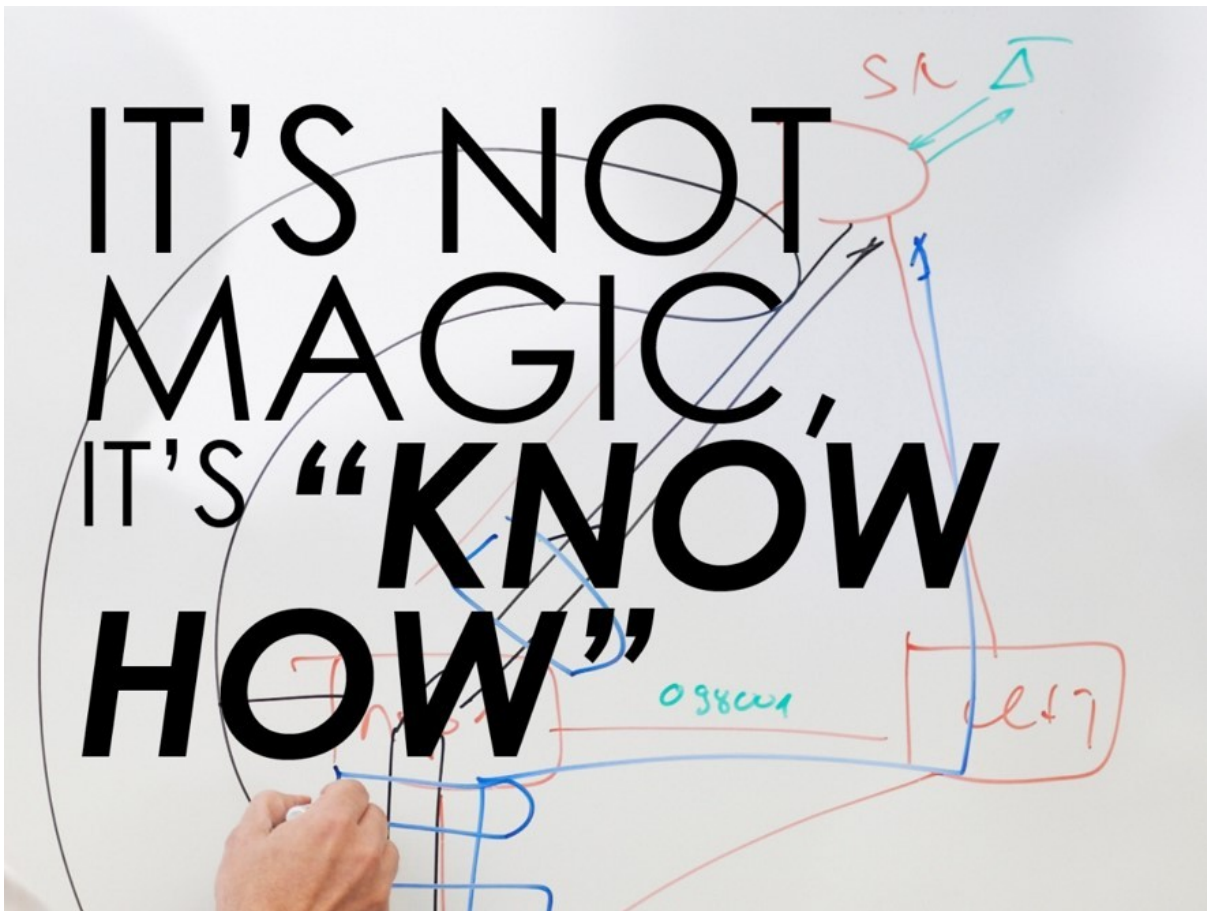# Funzioni di telefonia e vpbx

Introduzione
L'utente telefonico, l'amministratore e l'installatore del vPBX possono trovare in questa guida informazioni dettagliate in merito alle funzioni di telefonia e di vPBX.

Esecuzione di funzioni di telefonia tramite procedure *#

Application of the *#-Stimulus Procedures by the User

With the input of *#-stimulus procedures on the keyboard of its telephone, the user can activate or deactivate different features The *#-stimulus procedures are built up as followed:

```
*# <*#-CODE> (*) <PARAMETER1> * <PARAMETER2>...(#)
```

1. ***#-Procedure Start:**
    - * : Activate Feature
    - \# : Deactivate Feature
    - *# : Status Query of the Feature
2. **<*#-CODE> :**
    - Digit-Code oft he Feature
3. (*) :
    - Optional *, to separate the digit code from the parameters. Just type in the *.
4. **<PARAMETERx>:**
    - None, one or more parameter, e.g. the call forwarding number
5. * :
    - Mandatory *, to separate the parameter. Just type the * in.
6. (#) :
    - Optional #, to finish the input. Just type the # in.

The *#-Stimulus procedure will executed during the dialing phase:

1. Pickup Earphone
2. *#-Stimulus procedure according the manual
3. Control by the acknowledging speech text, if the wished action from the feature took place (Doesn?t take place on every feature)

If possible the activation/deactivation will be acknowledged by a speech text. It?s also possible to edit or delete the settings in the AdminCenter.

Nota	For the stimulus procedures to work it must be ensured that neither the phone itself nor a possibly upstream PBX or CPE interprets or filters this *#-code!

It is possible that the provider of this VoIP system uses other *#-codes. In this case, contact your system provider for the appropriate *#-codes.

Call Forwarding

Call Forward Unconditional CFU

If activated, this call forwarding will be executed all the time!

The feature is described on page "Call forwarding" .

Service 21 & 28 Call Forward Unconditional CFU:	*#-Code:	Commento:
Activate:	*21(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.
Call forward to the VoiceMail Box:	*28	
Deactivate:	#28	
Status Query:	*#28	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forward if No Reply CFNR

If activated, this call forwarding will be carried out if the subscriber doesn?t accept the connection after 14 seconds (About three times ringing).

The feature is described on page " Call forwarding " .

Service 61 & 68 Call Forward if No Reply CFNR:	*#-Code:	Commento:
Activate:	*61(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to. The delay time cannot be configured and is approximately 14 seconds (this corresponds to 3 ring cycles).
Call forward to the VoiceMail Box:	*68	
Deactivate:	#61	
Status Query:	*#61	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forwarding if Busy CFB

If activated, this call forwarding will be carried out if the subscriber is busy.

The feature is described on page " Call forwarding " .

Service 67 & 691 Call Forwarding if Busy CFB:	*#-Code:	Commento:
Activate:	*67(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.

Call forward to the VoiceMail Box:	*691
Deactivate:	#67
Status Query:	*#67

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forward Fallback CFF

If activated, this call forwarding will be carried out when no device is registered for the telephone number.

The feature is described on page " Call forwarding " .

The following conditions activate this type of call forwarding:

◊ The Internet access doesn't work:
  DSL-, FTTH-Modem broken or not connected correctly.

◊ The local IP network isn?t working
  Local router, WiFi, Firewall etc. broken or not connected correctly.

◊ VoIPdevice isn?t working
  SIP CPE or cable modem (Docsis MGCP modem) broken or not connected correctly.

◊ The PBX or telephone isn?t working
  The PBX or telephone broken or not connected correctly.

Service 22 & 692 Call forward if not registered, Call Forward Fallback CFF:	*#-Code:	Commento:
Activate:	*22(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.
Call forward to the VoiceMail Box:	*692	
Deactivate:	#22	
Status Query:	*#22	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forking CFO

If activated, the call forking calls additionally the second telephone number.

The feature is described on page " Call forwarding " .

Service 481 Call Forking CFO:	*#-Code:	Commento:
Activate:	*481(*)<PARALLEL>	<PARALLEL> is the telephone number that the call shall forwarded additionally.
Deactivate:	#481	
Status Query:	*#481	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Delete All Active Call Forwards

Avviso	"*00" deletes all active fallback forwarding's, which were activated with a *#-stimulus procedure!

Service 00 Delete all active Call Forwards:	*#-Code:	Commento:
Activate:	*00	*00 activates the deleting of all call forwards
Status Query:	*#00	With *#00 can be checked if one or more call forwards where activated with *#-procedures

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Reject

Do not Disturb DND

If this feature is activated, the calling site is going to hear a text that the called site doesn?t want to be disturbed.

The feature is described on page "Reject Calls" .

Service 26 Do not Disturb DND:	*#-Code:	Commento:
Activate:	*26	
Deactivate:	#26	
Status Query:	*#26	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Anonymous Call Reject ACR

If this feature is activated, the calling site is going to hear a text that the called site doesn?t accept calls when the calling calls anonymously.

The feature is described on page " Reject Calls " .

Service 99 Anonymous Call Reject ACR:	*#-Code:	Commento:
Activate:	*99	
Deactivate:	#99	
Status Query:	*#99	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Show or Hide the Own Telephone Number

Show or Hide the Own Telephone Number One Time

Service 31 Show or hide own number for the next call.:	*#-Code:	Commento:
Own number is going to e suppressed for the next call (CLIR):	*31(*)<TARGETNUMBER>	This action won?t be linked with a speech text.
own number will be shown (CLIP):	#31(*)<TARGETNUMBER>	This action won?t be linked with a speech text

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Show or Hide the Own Telephone Number Always

Service 32 Suppress own number permanently:	*#-Code:	Commento:
Activate:	*32	
Deactivate:	#32	
Status Query:	*#32	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Telephone Conference

Predetermined Conference

A predetermined conference is initiated by service 71. The activation starts with *71 and is followed by the number (except the own number) of each participant. A predetermined conference can host up to 8 participants.

Example of a conference activation:

```
*71*0123456789*23456*0041234567890
```

The feature is described on page "Konferenzen" .

Service 71 Predetermined Conference:	*#-Code:	Commento:
Setup predetermined conference:	*71*<NUMBER_1>*<NUMBER_2>*<NUMBER_3>*<NUMBER_4>*<NUMBER_5>*<NUMBER_6>*<NUMBER_7>	This action won?t be linked with a speech text
3 party conference setup:	*71*<NUMBER_1>*<NUMBER_2>	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Connect to the Conference Portal

Nota	This feature only works, if a conference portal is available on the VOIP System.

The feature is described on page "Conferences" .

Service 72 Conference Portal:	*#-Code:	Commento:
Connection setup to the conference portal:	*72	Follow the given instructions after connected.

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Pick Up

With the feature ?Call pick up? the subscriber can accept a call which is not ringing on his telephone.

Nota	This feature doesn?t work with all VOIP Devices.

Service 76 Call pick up:	*#-Code:	Commento:
Call pick up:	*76(*)<NUMBER>(#)	<NUMBER> is the telephone number of the telephone that rings

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Query of Connection Information

Query the Last Accepted Incoming Call and Call Back

Service 12 & 16 Calling up the last call arrived:	*#-Code:	Commento:
The number of the last incoming call:	*16	It doesn?t matter if the call was accepted or not
Callback to the number of the last incoming call:	*12	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Query the Last Executed Outgoing Call and Call Back

Service 11 & 15 Query of the last connected call:	*#-Code:	Commento:

Query of the last dialed number:	*15	It doesn?t matter if the call was accepted or not.

Query the Telephone Number of this Telephone Line

Service 14 Query the number of this connection:	*#-Code:	Commento:
Query the number of this connection:	*14	

Switch Out of Call Distributions

If a subscriber is configured as a destination in a call distribution, he can suspend the distribution temporarily.

Example:

A supporter with the vPBX internal number ?30? doesn?t want answer support calls temporarily. The supporter is member of the vPBX intern Support Distribution ?11?.

The supporter dials from his telephone ?30?:

```
*4911
```

Service 49 Turn on or off call distribution:	*#-Code:	Commento:
Temporarily turn off this number in the call distribution:	*49(*)<NUMBER_DIST>	<NUMBER_DIST>: Telephone number of the dist. group
Turn on this number in the call distribution:	#49(*)<NUMBER_DIST>	
Temporarily turn off this number in **all** distribution groups:	*49	
Turn on this number in **all** distribution groups:	#49	

Call the Own VoiceMail Box

Service 86 Direct call to the personal VoiceMail Box:	*#-Code:	Commento:
Connect from the telephone directly to the personal VoiceMail Box:	*86	Follow the given instructions after connected

Recording of Announcements

Own speech texts can be recorded via the own telephone. These texts can be used later for own call distributions

The feature is described on page " Language portal for announcements and caller interactions IVR" .

Service 88 Record a personal announcement:	*#-Code:	Commento:
Connects from the own telephone directly to the speech portal for recording of the announcement.:	*88(*)<ANNOUNCEMENT_ID>	Follow the given instructions after connected <ANNOUNCEMENT_ID> is shown in the AdminCenter, see site "Speech portal for announcements and caller interactions IVR" .

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

vPBX Call Distribution Normal/Day/Weekend

These *#-codes change the behavior of the "Call distribution" of a vPBX"

Service 980 Call distribution normal/night/weekend:	*#-Code:	Commento:
Activate the ?Normal? call distribution:	*980	Activated weekend call distributions are deactivated prematurely.
Activate the ?Night? call distribution:	*981	
Activate the ?Weekend? call distribution:	*982	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Login / Logout aus CTI Routing

Nota	An external CTI controller must be available for this *#-code to be available.

Service 27 Login/Logout of the telephone number to/from a CTI Controller.:	*#-Code:	Commento:
Login:	*27	
Logout:	#27	
Status Query:	*#27	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Configurazione ed esecuzione di funzioni di telefonia tramite l'interfaccia grafica AdminCenter per l'utente

The Subscriber Identity

General information about the identity of the subscriber can be transferred to the called party. This information can be displayed on the called side, depending on the capabilities of the terminal.

The following settings are possible in order to influence the display of the own identity:

◊ A "Name" can be defined for the telephone number of the subscriber, e.g. the personal name or company name. This information is used as a description of the telephone number and is transmitted as "Display Name" to the called party.

> Information for vPBX subscribers:
> The name is transmitted only within the vPBX. The name is not transmitted with outbound calls to the public telephony.

◊ In "Displayed external Number" the own public telephone number can be defined, which is transmitted to the called party and eventually displayed.

> Information for vPBX subscribers:
> Here another public vPBX phone number can be selected for display
> Example:
> The members of the support team do not want to have displayed their direct public telephone number, but the official support telephone number of the company instead.

◊ In "Suppress own number" can be configured how the transmitted telephone number shall be displayed:

- "Do not change"
  The information provided by the telephone or vPBX telephone number of the caller is transferred unchanged
- "Yes"
  The telephone number is always suppressed (CLIR)   anonymous call
- "No"
  The public telephone number, which is used for the call is displayed (CLIP).

◊ In "Mobile Number" the associated mobile telephone number of the user can be configured. The user's mobile number is needed in various features, e.g. "Call Through" in the "an IP-Phone" mobile app.

SIP Credentials of the Subscriber Account

The SIP credentials "Domain", "Authenticating Name" and "Password" for the telephone number may be displayed and changed.

Nota	The SIP credentials must be synchronized to the associated SIP devices!

Avviso	- If not handled with care it is possible that the connectivity is not working correctly! - SIP devices using this SIP credentials must be reconfigured accordingly! - Configured Line Key on SIP telephones must be synchronized! - These values must be handled **confidential**. They open the possibility of misuse and may

cause **high connection cost**!

Define the Used Language

The default language is defined by the telephony switch for various features

The language can be defined with parameter "Language" and applies to the following features:

- The AdminCenter Web GUI
- The standard announcements of the personal VoiceMail box
- The standard announcements of the telephony switch, for example, with an active "Do not Disturb"

On Busy

When the subscriber has an active connection and a further call is coming in then the new caller hears usually the busy tone.

As multiple VoIP devices may be registered to the telephone number the user can define the behavior of the feature "On Busy" :

◊ "Signal Busy":
Immediately rejects the new incoming call (no call waiting) when one device is busy. The caller hears the busy tone.
◊ "Start call waiting, busy if one device rejects":
All devices are signaled with the new incoming call. If one device is rejecting the new call then the caller hears the busy tone.
◊ "Start call-waiting, busy if all devices reject":
All devices are signaled with the new incoming call. If all devices are rejecting the new call then the caller hears the busy tone.

If there is just one device registered the later two options behave the same.

Assigning to a vPBX Department

If a vPBX is divided into departments then the telephone number can be assigned to a "Department" .

A department can be used:

◊ for sending SMS (the VoIP system must contain a SMS service) to all members of the department

Define the Location of the Telephone for Emergency Calls

If the subscriber places an emergency call, e.g. 112, the telephony switch routes the call to the nearest emergency call center.

In order to find the nearest emergency call center the telephony switch needs to know the current location of the subscriber. The current location has to be configured with parameter "Location (for Emergency)" . If no location is configured the telephony switch uses the default emergency call center.

Usage note for parameter "Location (for Emergency)" :
Since there may be several thousand locations available, a full selection list is unfavorable. Therefore the input field works as a search box. When letters and/or numbers are entered (e.g. of a community) then all locations are listed that match the entry. When the correct location is displayed it can be selected.

Limitation of the IP Subnet for the SIP Devices

With this feature, it is possible to define an IP subnet where the SIP devices are allowed to register at this user account. Registration attempts from SIP devices out of other IP subnets are rejected.

The IP subnet is defined with the parameter "Network" . It is possible to configure several IP subnets separated by commas.
Example:

```
172.1.1.0/24,192.168.10.0/24
```

Limitation of the IP Subnets with a SIP Profile for the SIP Devices

With this feature it is possible to define a set of IP subnets where the SIP devices are allowed to register at this user account. Registration attempts from SIP devices out of other IP subnets are rejected.

The provider prepares the available "SIP Profiles" . Check with the provider which IP subnets are associated with a SIP profile.

User account on the "UCC WebRTC Conference Service"

Nota	This feature is only available if the "UCC WebRTC Conference Service" is set up on the VoIP system.

The user can define here whether a UCC user account on the "UCC WebRTC Conference Service" is activated. If the UCC user account is active , the user can initiate "UCC WebRTC Conferences" in addition to the normal audio conferences.

The username (email address) and password of the AdminCenter account are used for the login in the user account of the "UCC WebRTC Conference Service".

Call Recording

This feature allows the user to record his/hers conversations and to be sent as an audio file to a definable email address.

The feature is activated when the parameter "Recording E-Mail" is configured.

The recording of a conversation can be started as follows:

◊ The subscriber presses an appropriate key on his SIP telephone during the active call.
(Note: Not all SIP telephones support this feature with a configurable key.)

◊ The subscriber presses the following *# procedures on his telephone during the active call:
##1 : Start recording
##0 : Stop recording
      (Note: DTMF must be activated on the telephone.)

◊ All calls of the subscriber are automatically recorded when parameter " Auto recording " is activated.

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "Subscriber xx"

    → Tab "Account"

As user:

→ Tab "Account"

Parameter Configuration

Parametro: Name

Descrizione:	Defines a name to describe the telephone number. This information is transmitted within the vPBX as "Display Name" and can be displayed by a called SIP device.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Displayed external Number

Descrizione:	Defines which public telephone number (CLIP) of the vPBX will be displayed at the called party in the public telephony network.

Configurazione:	Menu di scelta:
	
	    None
	
	Menu di scelta:
	
	    Own public telephone number
	    List of the public vPBX telephone numbers

Predefinito:	Public vPBX telephone number with direct dialing in to the internal telephone number

Versione:	AdminCenter V5.7

Parametro: Suppress own number

Descrizione:	Defines which telephone number to be displayed at the called side:
	◊ "Do not change" The information provided by the telephone or vPBX telephone number of the caller is transferred unchanged ◊ "Yes" The telephone number is always suppressed (CLIR) anonymous call ◊ "No" The public telephone number, which is used for the call is displayed (CLIP).
Configurazione:	Menu di scelta: Do not change Yes No
Predefinito:	Do not change
Versione:	AdminCenter V5.7

Parametro: Mobile Number

Descrizione:	Defines the associated mobile telephone number of the subscriber. The mobile telephone number must be in international number notation, e.g.: +411234567890
Configurazione:	
Predefinito:	
Versione:	AdminCenter V6.4

Parametro: Domain

Descrizione:	SIP domain for the SIP device, which shall register to this telephone number.
Configurazione:	Stringa di configurazione: ◊ IP address
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Authentication Name

Descrizione:	SIP authenticating name for the SIP device, which shall register to this telephone number.

Configurazione:	Stringa di configurazione:
	◊ Any string
	Nota Follow the online instructions concerning secure authenticating name!
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Password

Descrizione:	SIP password for the SIP device, which shall register to this telephone number.
Configurazione:	Stringa di configurazione:
	◊ Any string
	Nota Follow the online instructions concerning secure passwords!
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Language

Descrizione:	Defines the language to be used in:
	Definiert, welche Sprache benutzt werden soll für:
	• The AdminCenter Web GUI • The standard announcements of personal voicemail box • The standard information of the telephone switch, e.g. an active "Do not Disturb"
Configurazione:	Menu di scelta:
	List of all available languages
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: On Busy

Descrizione:	Defines whether during an active call another incoming call is signaled by a warning tone and how the caller is signaled.
	◊ "Signal Busy": Immediately rejects the new incoming call (no call waiting) when one device is busy. ◊ "Start call waiting, busy if one device rejects": All devices are signaled with the new incoming call. If one device is rejecting the new call then the caller hears the busy tone. ◊ "Start call-waiting, busy if all devices reject":

	All devices are signaled with the new incoming call. If all devices are rejecting the new call then the caller hears the busy tone.
Configurazione:	Menu di scelta: Signal Busy Start call waiting, busy if one device rejects Start call-waiting, busy if all devices reject
Predefinito:	Start call waiting, busy if one device rejects
Versione:	AdminCenter V6.4

Parametro: Location (for Emergency)

Descrizione:	Defines the location of the telephone for handling emergency calls, e.g. 112 **Nota** — It is important that the location is known as precisely as possible. In an emergency the telephony switch can route the call to the correct emergency center.
Configurazione:	Stringa di configurazione: ◊ List of all defined locations Usage note: The input works as a search box. When letters and/or numbers are entered (e.g. a community) then all locations are listed that match the entry. When the correct location is displayed then it can be selected.
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Recording E-Mail

Descrizione:	Defines to which email address the attached audio file is sent with the recorded conversation. If no email address is entered, the feature is not activated!
Configurazione:	Stringa di configurazione: ◊ None : No call recording active ◊ Email Address
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Auto recording

Descrizione:	Defines whether all conversations of the subscriber will be automatically recorded. The individual calls are sent as an audio file to the specified email address.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.8

Parametro: Network

Descrizione:	Defines from which IP subnet a SIP device is allowed to register at this user account. The network is defined by the starting IP address and its subnet mask. Several comma separated IP subnets are possible. Example: `172.1.1.0/24,192.168.10.0/24`
Configurazione:	Stringa di configurazione: ◊ None : No IP address checking ◊ IP address / Subnet Mask Bit
Predefinito:	None
Versione:	AdminCenter V6.2

Parametro: SIP Profile

Descrizione:	Defines a SIP Profile which contains a list of IP subnets where a SIP device is allowed to register at this user account. Check with the provider which IP subnets are associated with a SIP profile.
Configurazione:	Menu di scelta: - (None) List of prepared SIP Profiles
Predefinito:	None
Versione:	AdminCenter V6.2

Parametro: Department

Descrizione:	Defines a vPBX department for this telephone number.
Configurazione:	Menu di scelta: - (None) List of prepared departments
Predefinito:	None
Versione:	AdminCenter V6.4

Parametro: UCC User

Descrizione:	Defines that the user has a UCC user account on the "UCC WebRTC Conference Service" . The UCC account is generated automatically on the "UCC WebRTC Conferencing" service. Afterwards the user can initiate "UCC WebRTC Conferences".

Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V6.8

The VoiceMail Box

Features of the VoiceMail Box

The personal VoiceMail Box answers incoming calls, which were not by the called answered. The messages are recorded and can be listened to at any time.

Your personal VoiceMail Box offers the following features:

◊ Activation of the personal answering machine based on call forwardings for:
  • All incoming calls
  • Incoming calls when no one is answering
  • Incoming calls on busy
  • All incoming calls if the telephone connection does not work
◊ A standard greeting without announcement of the called number
◊ A personal greeting
◊ Change the PIN (password)
◊ Recall by push key
◊ The reception of a new message is displayed on the telephone (WMI protocol)
◊ Send new messages by email
◊ The message can be deleted automatically if it was transmitted by email.
◊ Send a notification by email, even if the caller has not left a message.
◊ A fax can be received as a PDF file and sent with email to the user.

Behavior of the VoiceMail Box:

◊ The VoiceMail Box waits for 4 seconds after a user prompting.
◊ If the user is not prompting, the current menu is repeated endlessly.
◊ If an unspecified digit is pressed, the current menu is repeated endlessly.
◊ If an incorrect PIN (password) is entered, a new prompt is issued to enter the password. After four incorrect passwords, the VoiceMail Box is blocked for five minutes.

Basic Data of the VoiceMail Box

The following basic data apply to the VoiceMail Box:

◊ There is no limit of the number of stored messages
◊ The maximum length of a message is 5 minutes
◊ The maximum recording time of the VoiceMail Box is 5 minutes
◊ Message storage times:
  ♦ New unread messages: 15 days
  ♦ Listened messages: 3 days
  ♦ Saved messages: 24 days

Nota	These values may differ on this telephone system. Check with your provider for the exact values.

Using the VoiceMail Box

That a caller can leave a message the following conditions are required:

1. The VoiceMail Box must be set up (see below).
2. The VoiceMail Box must be a destination of a "Forwarding" or "Distribution" .

If the conditions are met then an inbound call will be redirected to the VoiceMail Box. After the greeting the caller can leave a message. The subscriber can in different ways listen to the messages .

How Messages can be Listened to

The user can listen to messages in the following ways:

◊ Via the AdminCenter page "Messages on the VoiceMail Box"

◊ A new message is sent via email as audio file to the subscriber

◊ Dial *86 from the user?s telephone

◊ From any telephone from in the public telephone network PSTN proceed as:
  • In national telephone systems with a special prefix for the answering machine routing:

    ◊ For Switzerland: 086 + own public phone number, e.g.: `0860123456789`
    ◊ Apply the dialing process of the national telephone system

  • From any telephone call the "VoiceMail Portal" and follow the instructions to be connected with the VoiceMail Box.

Nota	Check with your provider or vPBX administrator how to access a VoiceMail Box from the public telephone network.

Unlock the VoiceMail Box

After several incorrect entries of the PIN the VoiceMail Box access will be blocked for safety reasons. Messages left by callers are, however, still recorded.

The subscriber, vPBX administrator or provider administrator / operator can unlock the answering machine:

◊ Uncheck the parameter "Blocked"

Configuration

Where to Configure this Feature

As vPBX administrator:

➡ Tab "Subscriber xx"

→ Tab "Seetings"

→ Tab "VoiceMail"

As subscriber:

→ Tab "Settings"

→ Tab "VoiceMail"

Activate the VoiceMail Box and Configure the PIN

In order to use the VoiceMail Box it must be activated:

◊ Activated the VoiceMail Box at parameter "Active"

The PIN (Personal Identification Number PIN) must be configured for accessing the VoiceMail Box via telephone for listen to the messages or make configurations:

◊ Configure the "PIN"
◊ Determine in parameter "Login without PIN" if it is allowed to access the VoiceMail Box without PIN from the own telephone

Creating a Greeting Announcement

The VoiceMail Box standard greeting can be replaced with an own greeting.

A greeting can be created in two ways:

◊ Recording a greeting via telephone:
1. Initiate from any telephone a connection to the VoiceMail Box. This is done equal to listening the messages via telephone.
2. While the greeting announcement plays, press the * key. Either the main menu will now be auditioned immediately or the PIN with a concluding # (* <PIN> #) has to be entered first.
3. By pressing the * key the VoiceMail Box changes into its main menu where the greeting can be recorded, reviewed or deleted.

◊ Download an audio file via AdminCenter:
1. The greeting must be recorded with an external device and stored in an audio file. The audio file must be created in WAV (PCM encoded) or MP3!
2. Select the audio file at "Greeting" via the Pulsante [Create] and Pulsante [+ Select File ...] and upload it.
  Note:
  The audio file must be stored so that it is accessible from the used web browser.

Configure that a new Message will be sent via Email

If newly recorded messages shall be sent via email, the following settings are required:

◊ In parameter "Email" the destination email address must be configured.
◊ The "Format" of the audio file can be selected.

The email will contain information about the time of receipt, sender, and annexed the message as an audio file. The messages on the answering machine remain preserved and can still be listened to via telephone or AdminCenter.

The VoiceMail Box is Full

The VoiceMail Box shows "Full" when the available memory is full. When the memory is full no further messages will be recorded. Old or long messages can be deleted on page "Messages" .

The VoiceMail Box Without Recording Limitation

By the activiation of "Delete message after E-Mail sent" an VoiceMail Box without recording limitation can be created. A new message is automatically send to the defined email address and then automatically deleted in the VoiceMail Box. The sent message will not be listed in "Messages" !

Notification if no Message has been Left

With the activation of "Send E-Mail without message left" it can be configured that a notification is sent to the defined email address , if the caller has not left a message.

Receiving Fax with Fax Service "Fax-to-Email"

The fax service "Fax-to-Email" is attached to the VoiceMail Box. When "Fax-to-Email" is activated the VoiceMail Box is able to detect if an incoming media stream is a voice message or a Fax transmission. If an incoming call is detected as a fax, the transmitted data is converted into a PDF file and sent by email to the email address of the answering machine.

The Fax service can receive fax coded as "inband G.711" or "outband T.38".

In order that the Fax service can be used it must be activated and configured:

◊ Activate the VoiceMail Box at parameter "Active"
◊ Configure the parameter "Fax support" with:
- Fax only:
  Only fax connections will be processed (Voice messages are ignored).

  or
◊ Automatic:
  The "Fax-to-Email" service automatically detects whether a fax or voice message is received and processes the connection accordingly.
◊ In parameter "Email" the destination email address must be configured.
◊ The VoiceMail Box must be a destination of a "Forwarding" or "Distribution" .

Parameter Configuration

Parametro: Active

Descrizione:	Defines that the VoiceMail Box is activated or not.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Activated
Versione:	AdminCenter V5.7

Parametro: Login without PIN

Descrizione:	Defines that no PIN must be entered when calling and connected from the associated telephone.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Activated
Versione:	AdminCenter V5.7

Parametro: Blocked

Descrizione:	Unlock the VoiceMail Box Locking happens, for example, after repeated incorrect entry of the PIN.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.7

Parametro: Full

Descrizione:	Indicates if the memory capacity of the VoiceMail Box is used up. The selection box is selected when the VoiceMail Box is full.
Configurazione:	-
Predefinito:	-
Versione:	AdminCenter V6.5

Parametro: PIN

Descrizione:		Defines the PIN (Personal Identification Number PIN, password) of the VoiceMail Box.
	Nota	• Use only digits: 0 ? 9 (Letters or symbols cannot be typed on a telephone keypad.) • Define enough digits
Configurazione:		Stringa di configurazione: ◊ Random string of numbers
Predefinito:		Random numbers
Versione:		AdminCenter V5.7

Parametro: Email

Descrizione:	Defines the email address to which new messages are sent by the VoiceMail Box. The message may be attached as audio file to the email.
Configurazione:	Regular Email-Address
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Format

Descrizione:	Specifies the recording format of the audio file of a message. This audio file can be attached to the email. Selectable formats of the audio file: • WAV: Audio file WAV formatted (PCM coding) • MP3: Audio file MP3 formatted
Configurazione:	Menu di scelta: wav mp3
Predefinito:	wav
Versione:	AdminCenter V5.7

Parametro: Greeting

Descrizione:	A greeting audio file can be downloaded via the button [Create]. The audio file has to be previously created and encoded as WAV (PCM encoded) or MP3. A loaded greeting audio file can be deleted with the [Delete] button. Afterwards the standard greeting of the VoiceMail Box is used.
Configurazione:	Pulsante [Create] Pulsante [Delete]
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Fax support

Descrizione:	Defines if the "Fax-to-Email" service is activated or not.
	When a fax is received, it is sent as PDF-file to the specified email address of the VoiceMail Box.
	Selectable behavior of the VoiceMail Box:
	• No:
	The "Fax-to-Email" service is not activated.
	• Fax only:
	Only fax connections will be processed (Voice messages are ignored).
	• Automatic:
	The "Fax-to-Email" service automatically detects whether a fax or voice message is received and processes the connection accordingly.
Configurazione:	Menu di scelta:
	No Fax only Automatic
Predefinito:	No
Versione:	AdminCenter V5.7

Parametro: Login without PIN

Descrizione:	Defines that no PIN must be entered when calling and connected from the associated telephone.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Activated
Versione:	AdminCenter V5.7

Parametro: Blocked

Descrizione:	Unlock the VoiceMail Box
	Locking happens, for example, after repeated incorrect entry of the PIN.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.7

Parametro: Delete message after E-Mail sent

Descrizione:	Defines that a message is automatically deleted after it has been sent to the defined email address.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato

Predefinito:	Not activated
Versione:	AdminCenter V6.10

Parametro: Send E-Mail without message left

Descrizione:	Defines that a notification is sent to the defined email address if the caller does not leave a message.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V6.10

Parametro: Full

Descrizione:	Indicates if the memory capacity of the VoiceMail Box is used up. The selection box is selected when the VoiceMail Box is full.
Configurazione:	-
Predefinito:	-
Versione:	AdminCenter V6.5

Parametro: PIN

Descrizione:	Defines the PIN (Personal Identification Number PIN, password) of the VoiceMail Box.
	Nota • Use only digits: 0 ? 9 (Letters or symbols cannot be typed on a telephone keypad.) • Define enough digits
Configurazione:	Stringa di configurazione: ◊ Random string of numbers
Predefinito:	Random numbers
Versione:	AdminCenter V5.7

Parametro: Email

Descrizione:	Defines the email address to which new messages are sent by the VoiceMail Box. The message may be attached as audio file to the email.
Configurazione:	Regular Email-Address

Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Format

Descrizione:	Specifies the recording format of the audio file of a message.
	This audio file can be attached to the email.
	Selectable formats of the audio file:
	• WAV:
	Audio file WAV formatted (PCM coding)
	• MP3:
	Audio file MP3 formatted
Configurazione:	Menu di scelta:
	wav mp3
Predefinito:	wav
Versione:	AdminCenter V5.7

Parametro: Fax support

Descrizione:	Defines if the "Fax-to-Email" service is activated or not.
	When a fax is received, it is sent as PDF-file to the specified email address of the VoiceMail Box.
	Selectable behavior of the VoiceMail Box:
	• No:
	The "Fax-to-Email" service is not activated.
	• Fax only:
	Only fax connections will be processed (Voice messages are ignored).
	• Automatic:
	The "Fax-to-Email" service automatically detects whether a fax or voice message is received and processes the connection accordingly.
Configurazione:	Menu di scelta:
	No Fax only Automatic
Predefinito:	No
Versione:	AdminCenter V5.7

Parametro: Greeting

Descrizione:	A greeting audio file can be downloaded via the Pulsante [Create].
	The audio file has to be previously created and encoded as WAV (PCM encoded) or MP3.
	A loaded greeting audio file can be deleted with the Pulsante [Delete]. Afterwards the standard greeting of the VoiceMail Box is used.
Configurazione:	Pulsante [Create]
	Pulsante [Delete]
Predefinito:	
Versione:	AdminCenter V5.7

List of all Messages

All existing messages on the VoiceMail Box are displayed in a list. Messages can be sorted in the list. The possibility of searching patterns helps to find messages.

The following information are provided with a message:

◊ Date and time of recording
◊ From which telephone number the message was left
◊ The name of the caller if known
◊ Duration of the message
◊ State of the message whether it is new, has been played once or is stored for a longer period

Listen to a Message and Manage it

To listen to a message, delete or save for a longer period click in the column of the desired message:

◊ The dialog "Message" pops up and the message is played.
  A played message will be stored for 3 days, then it is automatically deleted.

Replay a message in dialog "Message":

◊ Click the icon ▶

Store the message for an enhanced period of 24 days in dialog "Message"?:

◊ Click the Pulsante [Save]

Delete the message in dialog "Message":

◊ Click the Pulsante [Delete]

The handling of the VoiceMail Box is described in its own article.

Configuration

Where to Configure this Feature

As vPBX administrator:

Nota	The system administrator/operator of the provider or the vPBX administrator cannot access the stored messages of the answering machine!

As user:

→ Tab "Messages"

The Conference

Introduction to Conferences

The conference organizer plans the conference via AdminCenter (except the ad-hoc audio conference). From the AdminCenterthe organizer can submit invitations directly to the participants with all required details by email. If the invitations are sent via AdminCenter, the participant will receive later additional reminder emails 30min and 15min before the conference begins.

In order to participate in the conference, participants must connect either by phone to the audio Conference Portal or via the Internet using the "UCC WebRTC" conference portal.

Prerequisites for Conferences

The following prerequisites are necessary for carrying out the various conference types:

1. The "Conference" feature must be enabled on the telephone exchange.
2. For audio conferences, the provider must set up a conference portal. The conference portal is defined by a telephone number, which the provider must announce.
3. For "UCC WebRTC" conferences, the telephony system must be equipped with a "UCC WebRTC Service".

Nota	Check at your provider, which conference types are possible and how the access data are!

Organizing a conference

Any user with an AdminCenter account can organize a conference. Both the audio and the "UCC WebRTC" conference are set up via the AdminCenter.

Proceeding:

1. Organize the conference
2. Define the conference participants
3. Invite the conference participants:
   * Click the Pulsante [Send invitation] will send the invitation via email.
     Two reminder emails will be sent automatically. By default 30min and 15min before the beginning of the conference.

When the Pulsante [Send invitation] is not available, the participants must be informed with the following information:

◊ The telephone number of the conference portal
◊ Date and time, when the conference starts and the period in which it is possible to connect to the conference room.
◊ The conference room number
◊ The PIN of the conference

A conference whose date and start time has expired will remain administratively in the AdminCenter. However, it can not be used in this state. The conference organizer can either delete it or provide a new date and time for a subsequent conference.

Private subscribers of a vPBX can view all the conference rooms of their vPBX, but only the respective conference organizer can process its own conferences.

Join a Conference

Required Information to Participate in a Conference

Each conference participant must receive the following information from the conference organizer to participate in a conference:

* The telephone number of the conference portal
* Date and time, when the conference starts and the period in which it is possible to connect to the conference room.
*   The conference room number
* The PIN of the conference
* The participants of a "UCC WebRTC" conference receive an additional URL for the "UCC WebRTC" conference portal. The URL contains the unique conference ID.

If the conference organizer sends a the invitation from within the AdminCenter then this information is automatically included in the email.

Procedure to Connect to an Audio Conference

Proceeding:

1. Call the conference portal from any telephone line:
   ♦ Dial the telephone number of the conference portal from any national or international number.
   ♦ Private users of a vPBX can also use the *#-procedure "Service 72" for connecting to the conference portal.
2. When the subscriber is connected to the conference portal, he receives the instructions for providing the conference room number and the PIN .

In order to know the status of the conference the participants get the following audio information:

◊ The first participant who enters the conference room hears music until the next participant has connected.
◊ If a new participant is added or a participant leaves the conference an attention tone is played.
◊ During the conference, the participants are given an attention tone every few seconds.
◊ The last participant in a conference hears the busy tone.

Procedure to Connect to an "UCC WebRTC" Conference

Nota	Prerequisites for participating in "Web RTC" Conferences: ◊ The web browser used must support "Web RTC" (Safari does not support these features currently). ◊ At the very first contact with the "UCC WebRTC" conference portal the user may be prompted to install a plug-in/add-on for the web browser used. ◊ After the first login in the "UCC WebRTC" conference portal, the user is prompted to grant access to various resources on his device, e.g. microphone, camera, file system, etc.

Proceeding:

1. Connect from any web browser with the given URL to the "UCC WebRTC" conference portal.
2. Enter the required data in the login dialog. The username and password are from the AdminCenter account of the subscriber. The user name is the email address and the password is identical.

Nota	Participants who have an "UCC WebRTC" account but have no Internet connection at the time of the conference can attend the conference via audio conference portal.

Establish an Ad-hoc Audio Conference with the *#-procedure "Service 71"

As an alternative way of setting up an audio conference, the ad-hoc audio conference is available. Here, the conference organizer initiates with the *#-procedure "Service 71" and the telephone numbers of the participants an audio conference. After entering the *#-procedure with the telephone numbers, a connection is set up immediately to all specified telephone numbers.

Example:

In addition to the conference organizer, the following participants are to take part in the conference:

◊ National telephone number: `0123456789`
◊ International telephone number: `0049234567890`
◊ Private vPBX Telephone number: `23456`

The conference organizer dials on his telephone:

`*71*0123456789*23456*0049234567890`

Participants who do not answer the conference organizer's call can't be added to the conference subsequently.

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

    → Tab "Subscriber xx"

        → Tab "Settings"

            → Tab "Conferences"

As subscriber:

→ Tab "Settings"

    → Tab "Conferences"

Creating, Modifying and Deleting a Conference

Create a new conference:

1. Click Pulsante [+ Add].
2. A dialog pops up where the following parameters can be configured:
   ♦ Define if it shall be "an audio or an UCC" conference.
   ♦ Define a "name" for the conference.
   ♦ Define a unique "room number" .
   ♦ Define the date and start time "Start".
   ♦ Define the "Duration" in which the subscriber can dial into the conference.
   ♦ Define a "PIN" as the password.
   ♦ Define an optional "Description" of the Conference.
3. For saving the configurations click the Pulsante [Save].

Modify an existing conference:

1. Click the row of the desired conference.
2. Modify the desired parameter.
3. For saving the configurations click the Pulsante [Save].

Delete a conference:

1. Click the waste icon 🗑 at the end of the row of the desired conference.

Creating, Modifying and Deleting a Conference Member

Create a new conference member:

1. Click Pulsante [+ Add]
2. A dialog pops up where the following parameters can be configured:
   ♦ Define the information source of the "conference member" .
   The conference participant can be defined from the following sources:
   · Subscribers :
   Defines a conference member from the same vPBX. The member is determined by entering the whole or part of the name of the vPBX subscriber in "Search pattern". If a member is found or selected further entries are supplemented if possible.
   · Phonebook :
   Defines a conference member from the same vPBX phonebook. The member is determined by entering the whole or part of the name in the vPBX phonebook in "Search pattern". If a member is found or selected further entries are supplemented if possible.
   · Name:
   Any name can be inserted.

- ♦ Define the "name" of the conference member.
- ♦ Define the "email address" of the conference member.
- ♦ Define if conference member shall receive "an invitation and remainder emails" .
3. For saving the configurations click the Pulsante [Save]

Modify an existing conference member:

1. Click the row of the desired conference member.
2. Modify the desired parameter.
3. For saving the configurations click the Pulsante [Save].

Delete a conference member:

1. Click the waste icon ▮ at the end of the row of the desired conference member.

Parameter Configuration

Parametro: Organizer

Descrizione:	Here the telephone number and name of the conference organizer is displayed.
Configurazione:	
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: UCC Conference

Descrizione:	Defines the type of the conference. It can be a normal audio only or a UCC conference. If "UCC" is selected the conference is executed on the "UCC WebRTC Conference Service".
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V6.8

Parametro: Name

Descrizione:	Defines the name of the conference.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	- (None)
Versione:	AdminCenter V6.8

Parametro: Room Number

Descrizione:	Defines the number of the conference room.	
	Nota	• Use only digits: 0 ? 9 (Letters or symbols cannot be typed on a telephone keypad.)
Configurazione:	Stringa di configurazione: ◊ Random string of numbers	
Predefinito:	- (None)	
Versione:	AdminCenter V5.7	

Parametro: Start

Descrizione:	Defines the date and time when the conference starts. Click in the box to define the date/time: ◊ A dialog pops up, where the date and time can be set.
Configurazione:	Stringa di configurazione: ◊ DD.MM.YYYY hh:mm
Predefinito:	Actual date and time
Versione:	AdminCenter V5.7

Parametro: Duration

Descrizione:	Defines how long a subscriber can dial into the conference after the start time.
Configurazione:	Menu di scelta: Selection of the desired period of time
Predefinito:	15min
Versione:	AdminCenter V5.7

Parametro: PIN

Descrizione:	Defines the PIN (Personal Identification Number PIN, password) of the conference room.	
	Nota	• Use only digits: 0 ? 9 (Letters or symbols cannot be typed on a telephone keypad.) • Define enough digits
Configurazione:	Stringa di configurazione:	

	◊ Random string of numbers
Predefinito:	- (None)
Versione:	AdminCenter V5.7

Parametro: Description

Descrizione:	Any description of the conference.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	- (None)
Versione:	AdminCenter V5.7

Parametro: Destination

Descrizione:	Defines the conference member. The member destination can be selected out of: ◊ Subscribers : Defines a conference member from the same vPBX. The member is determined by entering the whole or part of the name of the vPBX subscriber in "Search pattern". If a member is found or selected, the further entries are supplemented if possible. ◊ Phonebook : Defines a conference member from the same vPBX phonebook. The member is determined by entering the whole or part of the name in the vPBX phonebook in "Search pattern". If a member is found or selected, the further entries are supplemented if possible. ◊ Name: Any name can be inserted.
Configurazione:	Menu di scelta: Subscriber Phonebook Name
Predefinito:	Subscriber
Versione:	AdminCenter V6.8

Parametro: Name

Descrizione:	Defines the name of the conference member.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	- (None)
Versione:	AdminCenter V6.8

Parametro: Email Address

Descrizione:	Defines the email address to which the invitation and reminders will be sent.
Configurazione:	Stringa di configurazione: ◊ Email Address
Predefinito:	- (None)
Versione:	AdminCenter V6.8

Parametro: Send Email

Descrizione:	Defines that the member will receive an invitation and remember email when the conference organizer initiate the email sending.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V6.8

Accesso ed uso dell'utenza AdminCenter

Iniziare una sessione con l'AdminCenter

L'AdminCenter può essere operato da un qualsiasi Web browser, p.es. Internet Explorer, Chrome, Firefox, Safari. L'accesso può essere effettuato inserendo l'indirizzo internet o l'URL dell'AdminCenter, per esempio:

```
https://admincenter.provider.com/config.xhtml
```

In seguito è necessario inserire il nome utente e la password nella finestra di accesso dell'AdminCenter.

L'AdminCenter dispone di due diverse interfacce grafiche. Una è ottimizzata per l'utilizzo con PC, l'altra per disposivi mobile quali smartphones. Durante la registrazione l'AdminCenter determina quale sia l'interfaccia grafica migliore per il dispositivo in uso.

Se l'interfaccia grafica selezionata automaticamente non è quella desiderata oppure se non è adatta o non risponde, l'interfaccia desiderata può essere raggiunta attraverso i seguenti URL:

◊ URL per la versione PC:
```
https://admincenter.provider.com/config.xhtml
```
◊ URL per la versione Mobile:
```
https://admincenter.provider.com/mobile.xhtml
```

Utilizzo dell'utenza AdminCenter

L'interfaccia grafica è di semplice utilizzo e segue le convenzioni usuali nella sua modalità d'uso.

Terminare una sessione dell'AdminCenter

Una sessione dell'AdminCenter può essere terminata:

- ◊ Automaticamente:
  - • dopo circa 30 minuti dall'ultima interazione con il web browser
- ◊ Manualmente:
  - • Interfaccia PC : Cliccando sul pulsante Pulsante [Logout]
  - • Interfaccia Mobile : Chiudendo l'App di navigazione

Modifiche alle credenziali di accesso

Il nome utente e la password sono configurate dal provider o dall'amministratore del vPBX nella fase di creazione dell'utenza AdminCenter. Queste credenziali possono essere modificate da loro.

I seguenti elementi possono essere modificati dall'utente:

- ◊ La "password"
- ◊ Un indirizzo e-mail può essere configurato per ricevere le istruzioni per il recupero delle credenziali di accesso.
- ◊ Eccezione: il "nome utente" non può essere modificato dall'utente.

Procedura in caso di smarrimento delle credenziali di accesso

Se si smarriscono le credenziali, si possono seguire queste procedure per ripristinare l'accesso:

- ◊ Se è stato configurato un indirizzo e-mail , cliccare nella finestra di accesso dell'AdminCenter sul pulsante "Dimenticato nome utente o password ?". Le istruzioni per ripristinare l'accesso saranno spedite all'indirizzo e-mail specificato.

oppure

- ◊ Il provider o l'amministratore del vPBX possono inviare nuovamente le credenziali.

Aggiornare la password dopo il primo accesso

Si può scegliere se l'utente debba aggiornare o no la password a seguito del primo accesso all'AdminCenter.

Sbloccare un'utenza admincenter

Se un'utenza AdminCenter è bloccata, ciò è evidenziato da un segno di spunta nella casella relativa. L'utenza può essere sbloccata cliccando sul pulsante Pulsante [Deblock].

Restrizioni della sottorete ip per l'accesso ALL'AdminCenter

Restrizioni della sottorete ip per l'accesso

Questa funzionalità permette di definire una sottorete IP dalla quale è permesso l'accesso all'utenza AdminCenter.

La sottorete IP è definita tramite il parametro "Rete".
Esempio:

```
172.1.1.0 / 24
```

Restrizioni delle sottoreti ip con un profilo di accesso

Questa funzionalità permette di definire una lista di sottoreti IP dalle quali l'utente può accedere alla sua utenza AdminCenter.

Il provider configura i "Profili di accesso" disponibili. Verificare con il provider quali sono le sottoreti IP associate ad un profilo di accesso.

Configurazione

Dove configurare questa funzionalitá

Come amministratore di vPBX:

→ Scheda "Estensioni"

→ Scheda "Estensione xx"

→ Scheda "Impostazioni"

→ Scheda "Web"

Come utente:

→ Scheda "Impostazioni"

→ Scheda "Web"

Configurazione dei parametri

Parametro: Nome utente

Descrizione:	Definisce il nome utente per l'utenza AdminCenter.	
	Nota	Questo parametro può essere configurato solo dal provider e dall'amministratore del vPBX.

Configurazione:	Stringa di configurazione:
	◊ Qualsiasi stringa
Predefinito:	Impostato dal provider o dall'amministratore di vPBX
Versione:	AdminCenter V5.7

Parametro: Password

Descrizione:	Definisce la password dell'utente per l'accesso all'AdminCenter
	Nota Questo parametro è accessibile al provider ed all'amministratore del vPBX.
	Nota Seguire le istruzioni relative alla sicurezza della password scelta!
Configurazione:	Stringa di configurazione:
	◊ Qualsiasi stinga
Predefinito:	Impostato dal provider o dall'amministratore del vPBX
Versione:	AdminCenter V5.7

Parametro: Nuova password

Descrizione:	Per cambiare la password inserire qui la nuova!
	Nota Seguire le istruzioni relative alla sicurezza della password scelta!
Configurazione:	Stringa di configurazione:
	◊ Qualsiasi stringa
Predefinito:	Nessuno
Versione:	AdminCenter V5.7

Parametro: Confermare nuova password

Descrizione:	Per cambiare la password confermare qui la nuova!
Configurazione:	Stringa di configurazione:
	◊ Qualsiasi stringa
Predefinito:	Nessuno
Versione:	AdminCenter V5.7

Parametro: Password attuale

Descrizione:	Per cambiare la password inserire qui l'attuale!
Configurazione:	Stringa di configurazione: ◊ Qualsiasi stringa
Predefinito:	Nessuno
Versione:	AdminCenter V5.7

Parametro: Rinnovare la password

Descrizione:	Definisce se l'utente debba modificare la password a seguito per primo login.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Non attivato
Versione:	AdminCenter V6.2

Parametro: Email

Descrizione:	Definisce l'indirizzo e-mail al quale verrano spedite le informazioni per riattivare le credenziali di accesso all'AdminCenter.
Configurazione:	Email Address Stringa di configurazione: ◊ Nessun indirizzo : Nessuna notifica via e-mail ◊ Indirizzo e-mail
Predefinito:	Nessun indirizzo
Versione:	AdminCenter V5.7

Parametro: Rete

Descrizione:	Definisce da quale sottorete IP un utente può accedere alla sua utenza AdminCenter. La rete è definita con l'indirizzo IP iniziale e la sua maschera di sottorete. Esempio: 172.1.1.0 / 24
Configurazione:	Stringa di configurazione: ◊ Nessun indirizzo : Nessun controllo sugli indirizzi IP ◊ Indirizzo IP / Maschera di sottorete
Predefinito:	Nessun indirizzo
Versione:	AdminCenter V6.0

Parametro: Profilo di accesso

Descrizione:	Definisce un profilo di accesso che contiene una lista di sottoreti IP dalle quali un utente può accedere alla sua utenza AdminCenter. Verificare con il provider quali sottoreti IP sono associate con un profilo di accesso.
Configurazione:	Menu di scelta: 　　　　- (Nessuno) 　　　　Lista dei profili di accesso già definiti
Predefinito:	Nessuno
Versione:	AdminCenter V6.0

Set up VoIP Devices for the Telephone Line

From a list of predefined VoIP devices , one or more can be selected which are to be operated simultaneously at this telephone line. VoIP telephones, DECT systems and a VoIP gateway (for the connection of a fax machine) are available from various manufacturers. The advantage for the user is that the VoIP devices can be configured from this list directly from the AdminCenter.

The selected VoIP devices of a telephone line have a common basic configuration and may have individual configurations, e.g. key assignments. For each of the selected VoIP devices, the telephone exchange creates its own configuration, which is identified by a unique access key.

The configuration contains the following data:

◊ Access data to the telephone exchange
◊ Data for the registration at the telephone exchange
◊ Displayed name of the telephone number
◊ Function key assignment
◊ etc.

If the VoIP device wants to load its configuration data from the telephone exchange, it must present its access key. The access key is provided by the telephone exchange as a URL link where the access key is contained filename, e.g.:

```
https://<VOIP_SWITCH_IP>:8448/81d381d7ee50e9c415b304e5d7a7616e1911ed2af727228c.cfg
```

The data transfer uses the HTTPS protocol, which encrypts the transmitted data.

Nota	VoIP devices, which are not included in the list, can also be operated at this telephone line. It is then the task of the user to collect all needed configuration data and to configure the VoIP device.

Transfer the Configuration Data to the VoIP Devices

Initial Transfer of the Configuration Data to the VoIP Device

Two methods are available to transfer the configuration data to the VoIP device:

Variant 1 "Automatically via the manufacturer's redirection service" :

For various VoIP device types, their manufacturers provide a redirection service. This service informs a requesting VoIP device, where it can load its configuration data.

The VoIP device contacts "its Redirection Service" and supplies it with its own MAC address. Because of the MAC address, the Redirection Service finds the responsible telephone switch and requests the URL link with the access key for this VoIP device. The Redirection Service then transmits the URL link to the VoIP device, whereupon it can load its configuration data from the telephone exchange.

Variant 2 "Manually with instructions from the AdminCenter" :

The user can copy the URL link with the access key from the relevant web page of the AdminCenter and configure it there via the configuration interface of the VoIP device. The next time the VoIP device reboots, it will load its configuration data from the telephone exchange.

The advantage of variant 1 is that the user has nothing to do with the URL link. The VoIP device automatically loads its configuration. The provider, however, has the administrative effort to store the MAC addresses of its VoIP devices on the redirection server of the respective manufacturer.

The advantage of variant 2 is that it does not need a redirection service. However, the user has to cope with the configuration interface of the VoIP device.

Nota	If the access key for a VoIP device has changed at the telephone exchange, the VoIP devices must be reconfigured in the manner described here. Otherwise it can not load its configuration because the old access key is no longer valid.

Synchronize the Configuration Data to the VoIP Device

If certain configurations on the telephone exchange are modified or supplemented, these changes must be synchronized to the VoIP device. A synchronization can be successful only if the access key is unchanged.

Changes of the following data must be synchronized:

◊ Access data to the telephone exchange (this can only be changed by the vPBX administrator or provider)
◊ Data for the registration for the telephone number (this can only be changed by the vPBX administrator or provider)
◊ Displayed name of the telephone number
◊ Function key assignment

If the access key has changed, e.g. Because of misuse , then the VoIP device configuration must be updated via the manufacturer's Redirection Service or manually from the AdminCenter .

Proceeding:

The following steps are to be repeated for **each VoIP device** at this telephone line:

1. Open the "Device" tab
2. Click on the Pulsante [Synchronize].
3. Check if the configuration was loaded:
    Repeatedly click Pulsante [Refresh]
    If the configuration is successful,
        · 'Last Access' displays the date, time, and IP address of the VoIP device.

Rebooting the VoIP Device

A VoIP device can be restarted from the AdminCenter if necessary.

Proceeding:

1. Open the "Device" tab
2. Click the Pulsante [Restart ...]

This command is not available for all VoIP device types.

Check the VoIP Device Registration Status

Without a successful registration, an incoming or outgoing call can not be established with a VoIP device. The user can check if a VoIP device is correctly registered.

Proceeding:
Go to the

→ Tab "Phones"

1. Click the Pulsante [State ...]
2. In the list of "Registrations", check that:
3. * An "User Agent" is listed that matches the VoIP device
4. * An "IP address" is specified
5. * In "Contact" the telephone number is included

If no registration is possible, see 'Support for Problems'.

Support for Problems

In case of problems, check the article "Solve problems with VoIP Devices" before contacting the support of the provider.

Procedure at Loss of Critical Data and Misuse (Fraud)

If the suspicion or the certainty is given that the SIP credentials or the configuration data has been published, it is necessary that the critical data in the telephone exchange and the configuration data on the VoIP devices of the telephone line must be replaced!

Avviso	In such a case, the configuration of **each VoIP device must be replaced** of the telephone line!

Proceeding:

Contact the vPBX administrator or provider:

1. Inform the vPBX administrator or provider about the loss of critical data!
2. If necessary, block the telephone line for connections to the public telephony network!
3. Request **to configure new SIP credentials** for the account.
4. Wait for confirmation that the new SIP credentials are configured.

The following steps are to be repeated for **of each VoIP device** at this telephone line:

1. Open the "Device" tab.
2. Create the new configuration data:
       Click the Pulsante [New Access Key ...]
       (The existing configurations of the function keys are preserved)
3. Transfer the new configuration data to the VoIP device:
       Version 1:

➔ Transfer configuration data for a VoIP device via Redirection Service
Or Variant 2:
➔ Transfer configuration data for a VoIP device manually

Contact the vPBX administrator or provider:

1. If necessary, de-block the telephone line for connections to the public telephony network!

Miglior prassi	To limit an economic damage in case of misuse, it is strongly recommended to have a charge limit "TopStop" configured! TopStops can be configured at the level of the vPBX, account and telephone number .

Configuration

Where to Configure this Feature

As vPBX administrator:

➔ Tab "PBX"

➔ Tab "Account"

➔ Tab "Phones"

As user:

➔ Tab "Account"

➔ Tab "Phones"

Creating, Modifying and Deleting a VoIP Device

Create a new VoIP device:

1. At an empty "Telephone" select the desired VoIP device type
2. Click Pulsante [+ Save].

Edit a new or existing VoIP device:

1. At the desired "telephone", click Pulsante [Details ...].
   A dialog is opening which allows:
   1. Generating and transmitting the configuration data:
      This allows the VoIP device to register and make incoming and outgoing connections.
      Proceedings for:
      ➔ The Smartphone App "an IP-Telephone"
         Note:
         The name of the app can be different on this telephone exchange! Check with your provider or vPBX administrator.
      ➔ The Web browser-based "an WebRTC-Telephone"
      ➔ A VoIP device via Redirection Service
      ➔ A VoIP device manually via AdminCenter
      ➔ A DECT handset
   2. Create and transmit the configurations for the key assignments:

Deleting a VoIP device:

Nota	Only the configuration data on the telephone exchange will be deleted! The configuration on the VoIP device is **not** deleted! If the VoIP device is to be reused, ensure that you know the access data of the device in order to bring it into the condition as delivered by the manufacturer (factory setting).

1. At the "Telephone" to delete, click on Pulsante [Delete ...].

Configure and Connect a VoIP Device

Manage an "an IP-Telephone"

Nota	It may be that the "an IP-Telephone" is not available on this telephone exchange. Check with your provider or vPBX administrator.

Proceeding:

1. Click Pulsante [New].
   A QR code is displayed.
2. Start the app "an IP-Telephone" on the smartphone and scan the QR code.
   Wait for the app to load the configuration.
3. Check if the configuration was loaded:
   ◆ Repeatedly click Pulsante [Refresh]
     If the configuration data is successfully transferred,
       · 'Last Access' displays the date, time, and IP address of the VoIP device.
4. Check if the "an IP-Telephone" was successfully registered:
     · In the AdminCenter check whether the "an IP-Telephone" successfully registered].
     · Check on the "an IP-Telephone" display whether it registered successfully.
     · Make outgoing and incoming connections.

Manage an "an WebRTC-Telephone"

Nota	It may be that the "an WebRTC-Telephone" is not available on this telephone exchange. Check with your provider or vPBX administrator.

To use the "an WebRTC-Telephone" you need:

1. An RTC-enabled web browser, e.g. Goggle Chrome
   Note: Mac Safari is not sufficient currently!
2. In the Web browser, call the WebRTC login, for example URL:
   `https:/<VOIP_SWITCH_IP>:8449/webphone.jsp`
   Check with your provider or vPBX administrator how the URL is.
3. Enter the user name and password of the AdminCenter account in the WebRTC login.
   The window will open the "an WebRTC-Telephone" GUI
4. Verify that the "an WebRTC-Telephone" was successfully registered:

· In the AdminCenter check whether the [[#SubscPhoneRegistrationCheck | "ao WebRTC-Telephone"].
· Check on the "an WebRTC-Telephone" display whether it registered successfully.
· Make outgoing and incoming connections.

Manage a VoIP Device via Redirection Service

For various VoIP device types, their manufacturers provide a redirection service, which allows the VoIP device to be identified by its MAC address and assigned to the responsible telephone exchange. The telephone exchange will then generate the URL link with the access key based on the MAC address and send it to the VoIP device via the Redirection Service. The VoIP device can then load its configuration from the telephone exchange.

Nota	It may be that the Redirection Service is not available for this type of VoIP device or MAC address on this telephone exchange. Refer to your provider or vPBX administrator.

Proceeding:

1. Ensure that the VoIP device has:
2. * A configuration as delivered by the manufacturer (Factory Settings)!
3. * No power supply connected!
4. Open the "Device" tab.
5. If the following parameters are present, configure them:
    ♦ The Password for "admin"
    ♦ The Username and the Password for "user"
6. Set at parameter MAC the MAC address of the VoIP device (the MAC address is usually printed on the nameplate).
7. Set the parameter MAC-Provisioning to "once".
8. Save the configuration on the attendant console, Pulsante [Save].
9. Connect the VoIP device:
    ♦ Connect the power supply
    ♦ Connect the patch cable to the IP network and ensure that:
        1. The VoIP device can obtain an IP address via DHCP!
        2. The Internet is accessible.
        3. The telephone exchange is reachable via the IP network.
10. Check if the configuration was loaded:
    ♦ Repeatedly click Pulsante [Refresh]
      If the configuration data is successfully transferred, then
        · The parameter 'MAC Provisioning' displays "done"
        · 'Last Access' displays the date, time, and IP address of the VoIP device.
11. Check if the VoIP device could register successfully:
        · In the AdminCenter check whether the VoIP device successfully registered .
        · Check the display or log of the VoIP device whether it registered successfully. If the device has a display its telephone number and possibly the user name are displayed usually.
        · Make outgoing and incoming connections.

Manage a VoIP Device Manually via AdminCenter

With this method, VoIP devices can be easily configured with their configuration data. The basic procedure is that the telephone exchange provides the URL link with access keys. The user copies the URL link with the access key from the relevant web page of the AdminCenter and configures it via the configuration interface of the VoIP device. The next time the VoIP device is rebooted, it will load its configuration data from the telephone exchange.

Proceeding:

1. Connect the VoIP device:
    ♦ Connect the power supply

- ♦ Connect the patch cable to the IP network and ensure that:
  - ♦ # The VoIP device can refer to an IP address via DHCP!
  - ♦ # The telephone exchange is reachable via the IP network.
2. Open as administrator the VoIP device configuration interface, usually a web GUI.
3. Open the "Device" tab.
4. If the following parameters are present, configure them:
   - ♦ The Password for "Admin"
   - ♦ The Username and the Password for "User"
5. Save the configuration on the telephone exchange, click Pulsante [Save].
6. Click Pulsante [Manual configure ...]
   > A dialog is displayed with the exact instructions how to proceed:
   > **& Rarr; Follow these instructions carefully!**
   > Basically the following is done:
   >   1. Copy the link with the access key on the AdminCenter web page.
   >   2. Where and how in the configuration interface of the VoIP device this link must be configured.
   >   3. Where and how in the configuration interface of the VoIP device the download of the configuration is started.
7. Check if the configuration was loaded:
   - ♦ Repeatedly click Pulsante [Refresh]
   > If the configuration data is successfully transferred, then
   >   · 'Last Access' displays the date, time, and IP address of the VoIP device.
8. Check if the VoIP device could register successfully:
   - · In the AdminCenter check whether the VoIP device successfully registered .
   - · Check the display or log of the VoIP device whether it registered successfully. If the device has a display its telephone number and possibly the user name are displayed usually.
   - · Make outgoing and incoming connections.

Manage DECT Handset

The desired DECT handset type must only be assigned to a DECT base station. The DECT handset obtains its configuration data from its DECT base station.

Proceeding:

1. Open the "Device" tab.
2. Select the desired DECT base station.
3. Depending on the DECT type, additional data may have to be configured:
   > In this case, consult the vPBX Administrator or the manufacturer's user guide.

Configuration of Function Keys

Most VoIP phones have configurable keys on their keypad. The AdminCenter supports the configuration of the most important features, e.g.:

- * Access to the VoiceMail Box
- * Access to the telephone book of vPBX
- * Configure a direct dialing of any telephone number or a *#-code
- * Configuration of busy line (BLF) within a vPBX
- * Configuration of team keys within a vPBX
- * Configuration of an extension telephone number within a vPBX
- * Configuration of a line selection

Depending on the VoIP telephone type more or less feature configurations for the keys are possible! Non-listed features can be set via the user interface of the VoIP telephone. In this case the user is responsible that there are no overlap with the key configurations via the AdminCenter.

| Nota | The user manual of the manufacturer must be used for to learn the exact function of the features. |

Various VoIP telephone types have optional expansion modules with additional keys. These extension modules appear as own "tab" in the AdminCenter. The keys are configured identically to those on the telephone itself.

Proceeding:

1. Open the tab "Keys".
2. Configure the keys with the desired functions:
3. * Select the feature
4. * If necessary, further values may be configured
5. Save the configuration on the telephone exchange: Click Pulsante [Save].
6. Make sure the VoIP telephone is connected.
7. Transfer the configuration to the VoIP device: Click Pulsante [Synchronize].

Parameter Configuration

Parametro: Telephone

Descrizione:	Defines the VoIP device type for this telephone number.
Configurazione:	Menu di scelta: Selection of VoIP devices
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Password for 'admin' / Administrator Password

Descrizione:	Defines the password for the configuration access of the administrator to the VoIP device. **Avviso** — If no password is entered, a random 40-digit password is generated automatically. This automatic password is never disclosed.
Configurazione:	Stringa di configurazione: ◊ Password ◊ 4 - 9 digit, no characters
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: User Name

Descrizione:	Defines the user name for the user's configuration access to the VoIP device.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Password for 'user' / User Password

Descrizione:	Defines the password for the configuration access of the user to the VoIP device.
Avviso	If no password is entered, a random 40-digit password is generated automatically. This automatic password is never disclosed.
Configurazione:	Stringa di configurazione: ◊ Password ◊ 4 - 9 digit, no characters
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: MAC

Descrizione:	Defines the MAC address of the VoIP device. The MAC address can usually be read on the type label of the device.
Configurazione:	Stringa di configurazione: ◊ 12 character string, e.g.: `00041345C9BF`
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: MAC Provisioning

Descrizione:	Defines whether the VoIP device is configured via the manufacturer's redirect service. Settings: • no : The configuration via the manufacturer's redirect service is switched off • once : The configuration is allowed once by the telephone switch. If the configuration has to be repeated, then it has to be set to "once" again. • done: This is the indication that the configuration has taken place via the Redirection Service.
Configurazione:	Menu di scelta: no once done
Predefinito:	no
Versione:	AdminCenter V5.7

Parametro: Base Unit

Descrizione:	Defines the DECT base station to which the DECT handset must connect.
Configurazione:	Menu di scelta: List of all available DECT base stations for this DECT handset type
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Type

Descrizione:	Defines the feature configured on the button.
Configurazione:	Menu di scelta: List of all available features
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Value

Descrizione:	Defines the value that the performance feature should use. Depending on the VoIP telephone and selected feature, a list is available or any (meaningful) value can be configured.
Configurazione:	
Predefinito:	None
Versione:	AdminCenter V5.7

Call Forwarding

Call forwarding allows the user to redirect incoming calls in a simple way toward:

◊ Any telephone number
◊ The personal VoiceMail Box
◊ Any personal announcement

Nota	• It is possible to configure multiple call forwarding. According the situation of the called subscriber the appropriate call forwarding is executed by the telephony switch. • Call forwarding which are activated by a *#-stimulus procedure will be executed prior to the ones configured via the AdminCenter.

Call Forward Unconditional CFU

This call forwarding is executed in any case. The subscriber's telephone does not ring for an incoming call.

Activation/deactivation of the feature:

- In the AdminCenter:

  At CF line **"Always"**:

  Activation:

  - Call forward to a telephone number: "Number" and the telephone number of the call forward destination (see Forwarding Destination Telephone Number)
  - Call forward to the personal VoiceMail Box: "VoiceMail"
  - Call forward to an announcement: "Announcement" and select the "Announcement Text"
  Deactivation:
    - Select destination type "Number" and delete the telephone number

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 21 & 28 Call Forward Unconditional CFU:	*#-Code:	Commento:
Activate:	*21(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.
Call forward to the VoiceMail Box:	*28	
Deactivate:	#28	
Status Query:	*#28	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forwarding if Busy CFB

This call forwarding is executed if the user is busy with another call.

If the user has activated the feature "Call Waiting CW" then he will hear a warning tone in the running call.

Activation/deactivation of the feature:

- In the AdminCenter:

  At CF line **"Busy"**:

  Activation:

  - Call forward to a telephone number: "Number" and the telephone number of the call forward destination (see Forwarding Destination Telephone Number)
  - Call forward to the personal VoiceMail Box: "VoiceMail"
  - Call forward to an announcement: "Announcement" and select the "Announcement Text"
  Deactivation:
    - Select destination type "Number" and delete the telephone number

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 67 & 691 Call Forwarding if Busy CFB:	*#-Code:	Commento:
Activate:	*67(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.
Call forward to the VoiceMail Box:	*691	
Deactivate:	#67	

Status Query:	*#67

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forward if No Reply CFNR

This call forwarding is executed if within a specified period of time the call is not answered by the subscriber. The subscriber's telephone is ringing for an incoming call also.

Activation/deactivation of the feature:

- In the AdminCenter:

  At CF line **"No Response"**:

  Activation:

  - Call forward to a telephone number: "Number" and the telephone number of the call forward destination (see Forwarding Destination Telephone Number)
  - Call forward to the personal VoiceMail Box: "VoiceMail"
  - Call forward to an announcement: "Announcement" and select the "Announcement Text"
  - Configuration of the ringing delay to the forwarding destination "after": "Configuration of the Time Delay"

  Deactivation:
  - Select destination type "Number" and delete the telephone number

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 61 & 68 Call Forward if No Reply CFNR:	*#-Code:	Commento:
Activate:	*61(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to. The delay time cannot be configured and is approximately 14 seconds (this corresponds to 3 ring cycles).
Call forward to the VoiceMail Box:	*68	
Deactivate:	#61	
Status Query:	*#61	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forwarding if Number not Registered, Call Forward Fallback CFF

The call forward is executed, if the subscriber's telephone cannot be reached due to a technical problem.

The following situations may be the cause for this call forward:

◊ The Internet access is not working:
DSL-, FTTH-modem etc. are defect or not correctly connected

◊ The local IP network is not working:
The local router, WiLan, firewall etc. are defect or not correctly connected

◊ VoIP devices are not working:
SIP device (e.g. VoIP telephone) or MGCP modem etc. are defect or not correctly connected

◊ PBX or telephone is not working:
PBX or VoIP telephone etc. are defect or not correctly connected

Activation/deactivation of the feature:

- In the AdminCenter:

At CF line **"Not available"**:

Activation:

- Call forward to a telephone number: "Number" and the telephone number of the call forward destination (see Forwarding Destination Telephone Number)
- Call forward to the personal VoiceMail Box: "VoiceMail"
- Call forward to an announcement: "Announcement" and select the "Announcement Text"

Deactivation:
- Select destination type "Number" and delete the telephone number

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 22 & 692 Call forward if not registered, Call Forward Fallback CFF:	*#-Code:	Commento:
Activate:	*22(*)<FORWARD>	<FORWARD> is the telephone number which is forwarded to.
Call forward to the VoiceMail Box:	*692	
Deactivate:	#22	
Status Query:	*#22	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Call Forking CFO

With an activated call forking an incoming call is forwarded to the user's telephone and an additional telephone number without delay. klingeln sowohl das Telefon des Teilnehmers als auch die zusätzliche Telefonnummer ohne Verzögerung sofort.

Activation/deactivation of the feature:

- In the AdminCenter:

Nota	This feature cannot be configured in this tab "Forwards" This behavior is implemented with call "Distributions" .

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 481 Call Forking CFO:	*#-Code:	Commento:
Activate:	*481(*)<PARALLEL>	<PARALLEL> is the telephone number that the call shall forwarded additionally.
Deactivate:	#481	
Status Query:	*#481	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Delete Call Forwards

Delete Call Forwards in the AdminCenter

Active call forwards can be deactivated in the AdminCenter:

1. At the desired CF type select "Number"
2. Delete the number if configured
3. Click the button [Save]

Deactivate All Call Forwards with One *#-Stimulus Procedure

All Call Forwards and Call Forking that where activated with *#-procedures on the keypad of the user's telephone can be deleted in one step with service 00 *#-procedure:

Nota	Call forwards which were activated in the AdminCenter will not be deleted!

Avviso	Service 00 deletes also an active "Call Forward Fallback CFF" if it was activated by the *#-procedure

- On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 00 Delete all active Call Forwards:	*#-Code:	Commento:
Activate:	*00	*00 activates the deleting of all call forwards
Status Query:	*#00	With *#00 can be checked if one or more call forwards where activated with *#-procedures

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Reject Calls

Do Not Disturb DND

Incoming calls can be temporarily rejected by the user with the feature "Do not Disturb DnD".

When the feature is active then the caller will hear an informational message that currently no incoming calls are accepted.

Activation/deactivation of the feature:

- In the AdminCenter:

1. Select "Do not disturb"
2. Click the button [Save]

• On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 26 Do not Disturb DND:	*#-Code:	Commento:
Activate:	*26	
Deactivate:	#26	
Status Query:	*#26	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Anonymous Call Reject ACR

Incoming anonymous calls can be rejected by the user with the feature "Anonymous Call Reject ACR".

When the feature is active then the caller will hear an informational message that anonymous incoming calls are not accepted. The user will not be informed that an anonymous call was rejected.

Activation/deactivation of the feature:

• In the AdminCenter:

1. Select "Reject anonymous calls"
2. Click the button [Save]

• On the subscriber?s telephone dial the following *#-stimulus procedures:

Service 99 Anonymous Call Reject ACR:	*#-Code:	Commento:
Activate:	*99	
Deactivate:	#99	
Status Query:	*#99	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Subscriber xx"

→ Tab "Forwards"

As subscriber:

→ Tab "Forwards"

Parameter Configuration

Parametro: Forwarding destination type

Descrizione:	Defines the type of the forwarding destination:
	• Destination type "Number":
	The destination is any telephone number
	• Destination type "VoiceMail":
	The destination is the VoiceMail Box of the subscriber. No further configurations needed.
	• Destination type "Announcement":
	The destination is an announcement text. If the subscriber has not yet recorded an announcement then this type cannot be selected.

Configurazione:	Menu di scelta:
	
	    Number
	    VoiceMail
	    Announcement

Predefinito:	Number
Versione:	AdminCenter V5.7

Parametro: Forwarding Destination Telephone Number

Descrizione:	Defines the forwarding destination:
	• For the destination type "Number":
	Here the telephone number of the destination must be configured.
	Nota If no telephone number is configured then this call forwarding is disabled.
	• For the destination type "VoiceMail":
	The destination is the VoiceMail Box of the subscriber. No further configurations needed.
	• For the destination type "Announcement":
	From the list of already created announcements one can be selected. The subscriber must have already recorded announcements .
Configurazione:	Depends on the destination type
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Configuration of the Time Delay

Descrizione:	With the destination type "Call Forward No Reply CFNR" the time delay can be configured until the call forward is executed.

	Example how to calculate the delay time: The rule of thumb is that a telephone rings once approximately every 4 seconds. For example, if a call shall be forwarded after four times ringing then the delay time is calculated as follows: `4 ringing x 4 sec + 2 sec reserve = 18 sec delay time`
Configurazione:	Stringa di configurazione: ◊ Any number >4
Predefinito:	14
Versione:	AdminCenter V5.7

Parametro: Do not Disturb

Descrizione:	Defines that the subscriber doesn?t accept incoming calls currently.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.7

Parametro: Reject anonymous Calls

Descrizione:	Defines that anonymous calls will be rejected
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.7

The Call Distribution

Characteristics of a Call Distribution

The "call distribution" is used to route incoming calls to other telephones and other destinations. The flexible configuration options allow group calls, cyclic calls, etc. to be implemented. Different call distribution schemes can be configured for different times and/or weekdays.

Nota	The basic goal of a call distribution is to ensure that no call remains unanswered.

A call distribution is tied to a telephone number, e.g. to the internal vPBX number `30` which is assigned to the support organization. An internal subscriber of this vPBX can directly call this internal telephone numbers. An external caller can call the public support number `030 300 030`. In this case, the dial-in DDI will foreward the external caller to the internal support number.

Also, residential user with only one telephone number can use the call distribution for forwarding incoming calls to e.g. their mobile, to the office, VoiceMail Box etc.

A call distribution contains any number of call distribution elements. Each call distribution element contains a forwarding destination and all the necessary information what shall happen when this destination is called.

The following overview explains the possibilities of a call distribution element:
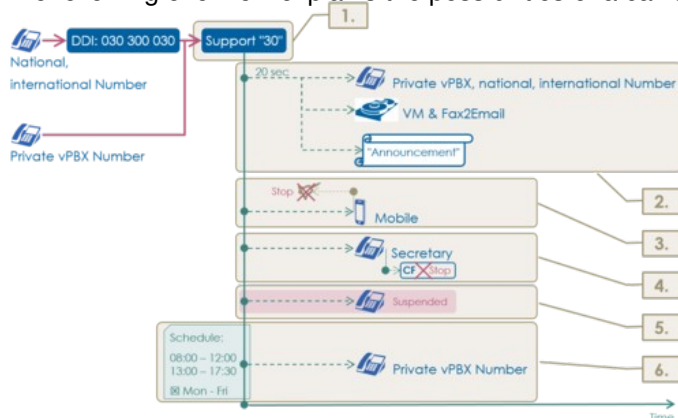
1. Telephone Number and Name

The call distribution is assigned to the telephone number of the user account or to any internal vPBX telephone number.
The name of the call distribution itself is the name of the account.
Any call distribution element can have any Name
Note:
- There is no need for a VoIP device to register to the call distribution number.
- Since a call distribution has a real own telephone number, it can be the forward destination of an other call distribution.

2. Forward Destination and Delay

Each call distribution element has a forward destination. The following destinations are available:

◊ National, international or internal vPBX telephone number
◊ VoiceMail Box
◊ Announcement with or without interactive user guidance IVR
It can be determined with which delay the destination shall be called.

3. Stop Ringing

With each call distribution element it can be determined what shall happen with the ringing of the previous called destinations of this or an other involved call distribution:
* All previous called destinations continue with ringing
* All previous called destinations must stop their ringing

4. No Further Forwarding

With each call distribution element, it is possible to determine whether configured forwarding at the destination, e.g. a "Distributions" or "Forewards" , shall be executed or not.
Example:
The "private" forwardings of the reception desk (secretary) must not be executed when an incoming call is distributed for support issues.

5. Suspend call distribution element

Each call distribution element has its "Status", which determines whether it should be executed or suspended. So call distributing elements can be prepared but not activated.
Example:
Only the distribution elements of the responsible emergency personnel are activated the others are suspended.

6. Schedule

For each call distribution element it can be scheduled when it is activated:
* During the day: From - To
* On which weekdays: Mon - Sun

Suspend from Call Distributions

If a subscriber is included in one or more call distributions, it can be suspended from a specific or all call distributions. The suspension must be manually released!

Via AdminCenter the user can suspended himself from a call distribution by setting "State" to "suspend". Or the user can suspend himself using the *#-stimulus-procedure "Service 49":

Service 49 Turn on or off call distribution:	*#-Code:	Commento:
Temporarily turn off this number in the call distribution:	*49(*)<NUMBER_DIST>	<NUMBER_DIST>: Telephone number of the dist. group
Turn on this number in the call distribution:	#49(*)<NUMBER_DIST>	
Temporarily turn off this number in **all** distribution groups:	*49	
Turn on this number in **all** distribution groups:	#49	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Example:

> A supporter cannot serve any calls, and therefore wants to suspend himself from the call distribution of telephone number "30" temporarily.
> The supporter dials on his telephone:
> `*4930`

The vPBX Call Distribution Scheme "Normal/Night/Weekend"

With the feature vPBX Distribution Scheme "Normal/Night/Weekend" all distributions of a vPBX can be forced to their behavior as at 24:00 of the given day ("Night") or 24:00 of the next Sunday ("Weekend").

This can be useful if for example all employees leave their offices at ten o'clock. The secretary switches the vPBX to "Night" call distribution. Or there are two holidays (Thursday and Friday), so the secretary switches the vPBX to "Weekend" call distribution.

 "Normal" :

> The vPBX uses the distributions of the given day time.

"Night" :

> The vPBX forwards incoming calls according the distributions which will be active at 24:00 of the given day. The "Night" distribution is switched off automatically at 00:00 of the next day (resp. the distributions at 00:00 become active).
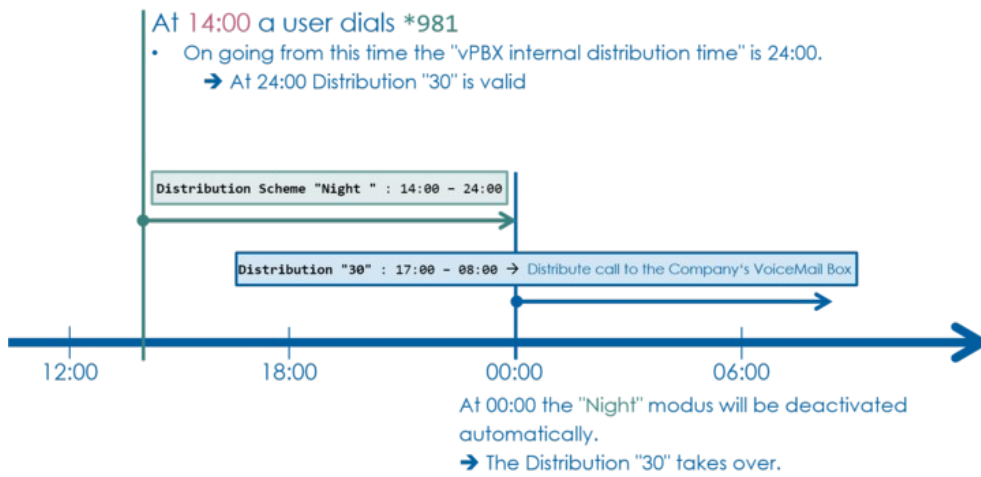
"Weekend" :

The vPBX forwards incoming calls according the distributions which will be active at 24:00 of the next Sunday. The "Weekend" distribution is switched off automatically at 00:00 of the next Monday (resp. the distributions at 00:00 of the next Monday become active).

Thursday at 16:00 a user dials *982
- On going from this time the "vPBX internal distribution time" is 24:00.
  → At Sunday 24:00 Distribution "40" is valid

```
Distribution Scheme "Weekend ": Thu 14:00 - Su 24:00
```

```
Distribution "40": Fr 17:00 - Mo 08:00 → Distribute call to the Company's VoiceMail Box
```

| Thu | Fri | Sat | Sun | Mon |
| 00:00 | 00:00 | 00:00 | 00:00 | 00:00 |

Sunday at 00:00 the "Weekend" modus will be
deactivated automatically.
→ The Distribution "40" takes over.

In the AdminCenter the vPBX Administrator can change the call distributions scheme by modifying "Distribution Scheme "Normal/Night/Weekend" .

Any internal user of a vPBX can change the distribution scheme "Normal/Night/Weekend" with the *#-stimulus-procedure "Service 980":

Service 980 Call distribution normal/night/weekend:	*#-Code:	Commento:
Activate the ?Normal? call distribution:	*980	Activated weekend call distributions are deactivated prematurely.
Activate the ?Night? call distribution:	*981	
Activate the ?Weekend? call distribution:	*982	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Examples of Call Distributions

Miglior prassi	Do:
	◊ Use simple "waterfall" schemes

Don't Do:

◊ No "cyclical" invocations of distributions
◊ No concurrent distribution and call forwarding on the same telephone number

Distribution for a Private Telephone Number

Aim of this distribution:

◊ During the working days forward to the office telephone:
  • Mon ? Fri 08:00 ? 17:30
  • 14 sec delayed
◊ Always forward to the mobile phone:
  • 20 sec delayed
◊ Always forward to the VoiceMail Box:
  • 30 sec delayed
  • All previous destinations stop ringing

Scheme:

Configuration in the AdminCenter:

Name	Delayed	Destination	Other Phones	Call Forward	State	Schedule									
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Office	14 sec.	0123456789	cont. ringing	possible	active	08:00	17:30			✓	✓	✓	✓	✓			
Mobile	20 sec.	0712345678	cont. ringing	possible	active												
VM & Fax2Email	30 sec.	VoiceMail	stop ringing	possible	active												

(1 of 1)

Distribution for a Support Group

Aim of this distribution:

◊ During the working days forward to the supporter numbers 31 and 32:
  • Mon ? Fri 08:00 ? 12:00, 13:00 - 17:30
  • 0 sec delayed
◊ During the working days forward to the supporter number 33:
  • Mon ? Fri 08:00 ? 12:00, 13:00 - 17:30
  • 14 sec delayed
◊ During the working days forward to the secretary number 11:
  • Mon ? Fri 08:00 ? 12:00, 13:00 - 17:30
  • 25 sec delayed
◊ During all other tines always forward to the VoiceMail Box of 40:
  • 45 sec delayed
  • All previous destinations stop ringing
    Hint:

The distribution behavior is used that when no other call element is active, e.g. in the night or weekend, the delay of 45 sec is automatically shortened to 0 sec.

Scheme:
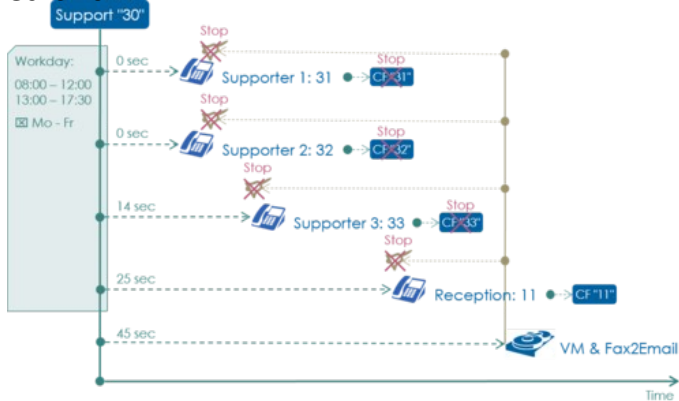
Configuration in the AdminCenter:

Name	Delayed	Destination	Other Phones	Call Forward	State	Schedule										
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Supporter 1	0 sec.	31	cont. ringing	not possible	active	08:00	12:00	13:00	17:30	✔	✔	✔	✔	✔		
Supporter 2	0 sec.	32	cont. ringing	not possible	active	08:00	12:00	13:00	17:30	✔	✔	✔	✔	✔		
Supporter 3	14 sec.	33	cont. ringing	not possible	active	08:00	12:00	13:00	17:30	✔	✔	✔	✔	✔		
Reception	25 sec.	11	cont. ringing	possible	active	08:00	12:00	13:00	17:30	✔	✔	✔	✔	✔		
VM & Fax2Email	45 sec.	VoiceMail	stop ringing	not possible	active											

(1 of 1)

Distribution for a Cyclical Group Call

Aim of this distribution:

◊ The telephone of number 31, 32, 33, 34 shall be invoked cyclically:
   • 10 sec delay between the invocations
   • All previous destinations stop ringing
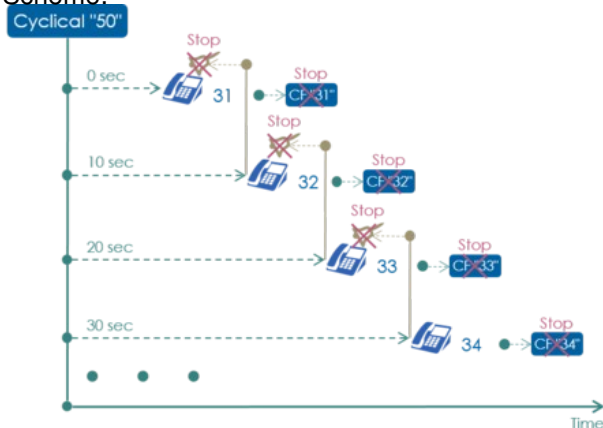
Scheme:

Configuration in the AdminCenter:

Name ⬍	Delayed ⬍	Destination ⬍	Other Phones	Call Forward	State	Schedule											
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Supporter 1	0 sec.	31	stop ringing	not possible	active												🗑
Supporter 2	10 sec.	32	stop ringing	not possible	active												🗑
Supporter 3	20 sec.	33	stop ringing	not possible	active												🗑
Supporter 4	30 sec.	34	stop ringing	not possible	active												🗑
Supporter 1	40 sec.	31	stop ringing	not possible	active												🗑
Supporter 2	50 sec.	32	stop ringing	not possible	active												🗑
Supporter 3	60 sec.	33	stop ringing	not possible	active												🗑
Supporter 4	70 sec.	34	stop ringing	not possible	active												🗑

(1 of 1)

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Subscriber xx"

→ Tab "Distribution"

As subscriber:

→ Tab "Distribution"

Creating, Modifying and Deleting a Distribution Element

Create a new distribution element:

1. Click Pulsante [+ Add]
2. A dialog pops up where the following parameters can be configured:
   · Define a function describing "Name" .
   · Define the "Destination"
   · Define the "Delay" until the destination is called .
   · Define if the "Other Phones" shall continue with ringing.
   · Define if following "Call Forward" shall be executed
   · Define with "State" if the distribution element is active at all.
   · Define at which "Day Time" the distribution element is active.
   · Define at which "Week Days" the distribution element is active.
3. For saving the configurations click the Pulsante [Save]

Modify an existing distribution element:

1. Click the row of the desired distribution element
2. Modify the desired parameter
3. For saving the configurations click the Pulsante [Save]

Delete a distribution element:

1. Click the waste icon 🗑 at the end of the row of the desired distribution element

Configuration of a Distribution Element

Define a Name

The call distribution element can have any Name. It serves to describe the task of the call distribution element.

Define the Destination

As possible destinations of a call distribution element can be selected:

1. "Number":
   The call will be routed to the configured destination number.
   The destination number can be any telephone number, e.g. public telephone numbers, internal vPBX telephone number. If the distribution has an vPBX internal number then don't forget to add prefix , e.g. "0").
2. "VoiceMail":
   The call will be routed to the VoiceMail Box of this number. The feature VoiceMail Box must be activated so that it can be selected.
3. "Announcement":
   The call will be routed to the selected announcement. You can select the announcements made for this telephone number.

Delayed Forwarding to the Destination

The call forwarding to the destination can be delayed:

   ◊ The delay specifies how many seconds the routing shall be delayed.
   ◊ The time measurement starts when this call distribution was invoked.

Example for calculating the delay:

As a rule of thumb, a telephone rings once every 4 seconds. When the routing shall be started after four times of ringing, the delay is calculated as follows:
```
4 rings x 4 sec + 2 sec reserve = 18 sec delay
```

Nota	If the destination is a telephone number and no VoIP device is registered to the number, the delay is not carried out unless the destination has its own call distribution!

Limiting by the System-Wide Ring Back Time

The telephone switch and vPBX has a system-wide maximum ring-back time, which determines how long telephones may ring on an incoming call. This max. ring-back time prevents telephones from "ringing infinitely". By default, the max. ring-back time is set to 120 seconds.

The max. ring-back time restricts the accumulated delay time since the incoming call to the last possible destination:
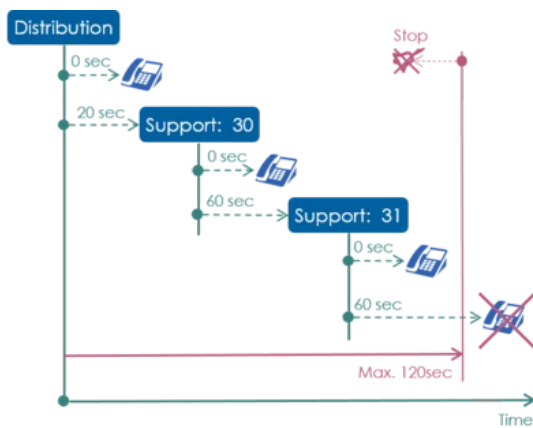
The restriction by the max. ring-back time can be bypassed by creating a call distribution on an announcement. The announcement should contain a "Restart" whose duration is less than the max. ring-back time.

Already Ringing Telephones Stop or Continue Ringing

Define if other already ringing telephones of this or previously invoked distributions shall continue with ringing:

> ◊ Stop all already ringing telephones
> ◊ All ringing telephones continue with ringing

Stop Forwarding of the New Destination

The parameter "Call Forward" defines if call forwards and call distributions of the new destination shall be executed or not:

> ◊ "possible"
>   Forwarding, if any, of the new destination are executed.
> ◊ "not possible"
>   Forwarding of the new destination are not executed.

Example:

> The supporter "31" has the internal vPBX number 31 and is also a member of the call distribution "Support". The supporter has also a direct dialing in telephone number and configured "private" call forwards on the internal telephone number 31.
> Now, if a call arrives at the support group, then it is not desired that the "private" call forwards of supporter "31" are executed for the supporter group routing.
>   The solution is that in the call distribution element to supporter "31" the "Call Forward" is configured to "not possible".

Disable the Distribution Element

The call distribution element can be disabled by parameter "State":

* "suspended"

>   The call distribution element will not be executed.
* "active"
>   The call distribution element is executed.

Schedule for Distribution Elements

It is possible to define at which times and/or weekdays a distribution element should be executed. This determines when a destination number is to be reached.

Schedule for Day Times

With the configuration of day times it will be defined at which times the call distribution element is active:

◊ "From" - "To"

◊ If no times are configured then the call distribution element is active all day.
◊ If day times and weekdays are configured, then this call distribution element is only active on these days at the defined times of the day.

Examples:

1. Forwarding "Night" to the VoiceMail Box from 18:00 - 08:00:
```
From      To
00:00     08:00
18:00     24:00
```
2. Forwarding to call distribution "Support" from 08:00 - 12:00, 13:30 - 18:00:
```
From      To
08:00     12:00
13:30     18:00
```
3. Forwarding to call distribution "Children's Crib":
   08:00 - 09:30, children rest, 11:00 - 12:30, lunch break, 14:30 - 18:00
     If more than two time schedules are required, then two ore more call distributing elements to the same destination must be defined!
```
Distribution Element, Name: "Children's Crib Morning"
     From      To
     08:00     09:30
     11:00     12:30
Distribution Element, Name: "Children's Crib Afternoon"
     From      To
     14:30     18:00
```

Schedule for Weekdays

With the configuration of weekday it will be defined at which days of the week the call distribution element is active:

◊ Selection of the desired weekday: Mon, Tue, Wed, Thu, Fri, Sat, Sun
◊ If no weekday is selected, then this element is active every day.
◊ If day times and weekdays are configured, then this call distribution element is only active on these days at the defined times of the day.

Parameter Configuration

Parametro: Name

Descrizione:	Defines the name of the distribution
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V6.0

Parametro: Destination

Descrizione:	Defines the call destination type of this distribution element and further needed informatin to the destination, e.g. telephone number.
Configurazione:	Menu di scelta: Number: The destination telephone number must be configured in the input mask. The number can be any dialable internal vPBX or public destination telephone number. If the destination is a public telephony number then a leading vPBX prefix, e.g. "0" may be added. VoiceMail: The destination is the private VoiceMail Box. Announcement: The destination is an Announcement of the user. The user must have created one ore more announcement. The available announcements are offered in a drop down list.
Predefinito:	Nummer
Versione:	AdminCenter V5.7

Parametro: Delay

Descrizione:	Defines the time delay in seconds until the destination is called. Example of delay time calculation: As a rule of thumb, a telephone rings once every 4 seconds. If after 4 times ringing the call shall be forwarded then the delay time is calculated as follows: `4 ringing x 4 sec. + 2 sec. reserve = 18 sec. delay time`
Configurazione:	Number
Predefinito:	14
Versione:	AdminCenter V5.7

Parametro: Other Phones

Descrizione:	Defines of already ringing telephones of this or preceding distributions shall continue or stop with ringing.
Configurazione:	Menu di scelta: "stops ringing" Already ringing telephones of this or preceding distributions stop with ringing. "cont. ringing" Already ringing telephones of this or preceding distributions continue with ringing.
Predefinito:	stops ringing
Versione:	AdminCenter V5.7

Parametro: Call Forward

Descrizione:	Defines if following distributions or call forwarding shall be executed or not.
Configurazione:	Menu di scelta: possible Following distributions or call forwarding will be executed. not possible Following distributions or call forwarding will not be executed.
Predefinito:	möglich
Versione:	AdminCenter V5.7

Parametro: State

Descrizione:	Defines if this distribution element is executed. Hint: The "state" can be used for switching on/off a distribution element manually.
Configurazione:	Menu di scelta: active This distribution element is active and will be executed. suspended: This distribution element is suspended and will not be executed
Predefinito:	active
Versione:	AdminCenter V5.7

Parametro: Schedule, Day Time: "From" ? "To"

Descrizione:	Defines at which day times the distribution element is activated. **Nota**

	• If no day times are defined then the distribution element is active the whole day. • If week days are defined then this distribution element is active at the selected week days and day times.
Configurazione:	Configure the times in the hh:mm format
Predefinito:	NO day times
Versione:	AdminCenter V5.7

Parametro: Schedule, Week Days: "Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"

Descrizione:	Defines at which days of a week the distribution element is activated.
	Nota — • If no week days are defined then the distribution element is active the week. • If day times are defined then this distribution element is active at the selected week days and day times.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato For the week days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday
Predefinito:	No week days selected
Versione:	AdminCenter V5.7

The Announcement

Characteristics of an Announcement

An "announcement" is used to receive an incoming call automatically and to play back an information to the caller. Thereafter, the call is forwarded, or a response from the caller is waited for and continued according to the answer.

An announcement is invoked by a call forwarding or call distribution as a destination.

The implementation of the "announcement" feature does not contain pre-built modules of possible scenarios. It offers "atomic" blocks, with which a desired scenario can be realized.

The following overview explains the possibilities of an announcement:
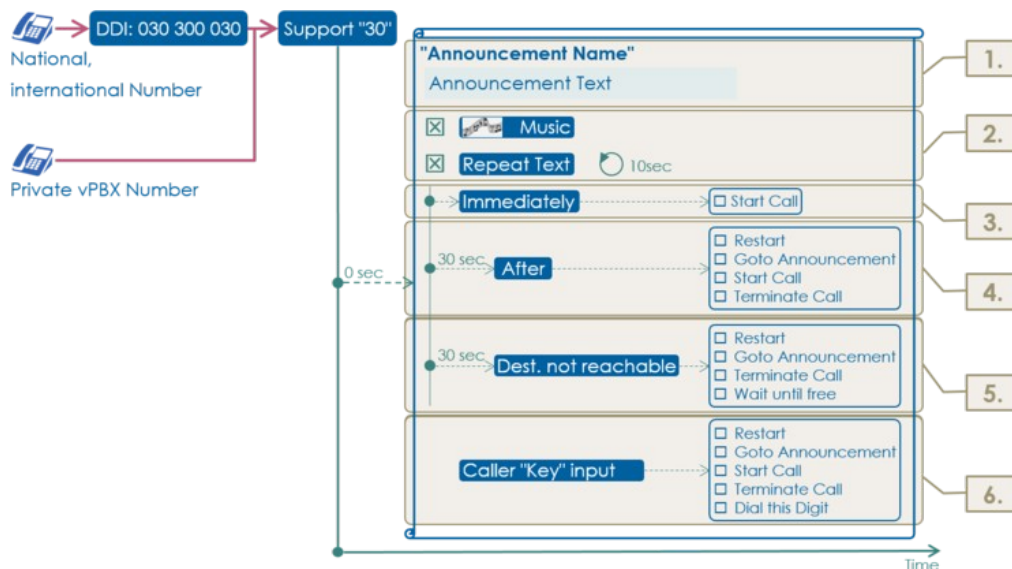
1. Name and Text of the Announcement

The announcement can have any name.
The loading of the announcement text is done either by uploading an audio file or directly by recording via telephone.

2. Waiting Music and Text Repeated Periodically

The caller can be played a waiting music .
The caller can be played a periodically repeated text, e.g. every 10sec "Please wait ...".
If the music and a periodic text are activated at the same time, the periodic text interrupts the music while the text is being played then the music continues.

3. Immediate Forwarding

The incoming call is forwarded [#FeatureAnnouncementConfiguationImmediately | immediately to a new destination]]. The text is not played!
The text of this announcement is not automatically played in this state. If desired, this can be done with a periodic text or with an previous simple announcement.

4. Timeout if no Answer

The timeout "After" allows to react when the caller does not answer when prompted or no destination answers the call. A possible action after expiration of the timeout can be:

◊ Repeat this announcement
◊ Forward to another announcement
◊ Forward to a new telephone number
◊ Cancel the connection
This timeout action can prevent that:
◊ The caller does not wait unnecessarily when nothing happens.
◊ The system-wide maximum call time stops this call.

5. Timeout when the Destination is not Reachable

This timeout "Destination is not Reachable" allows to react when all destinations are busy or no callee wants to accept the call. A possible action after expiration of the timeout can be:

◊ Repeat this announcement
◊ Forward to another announcement
◊ Cancel the connection
◊ Wait until a destination becomes free
This timeout action can prevent that:
◊ The caller does not wait unnecessarily when no destination is reachable.
◊ The system-wide maximum call time stops this call.

6. Caller Response

If the caller is prompted in the text to provide a response by entering a key in order to make a selection or to call up an action, the announcement can call the following actions:

◊ Repeat this announcement
◊ Forward to another announcement
◊ Forward to a new telephone numberr
◊ Cancel the connection
◊ Receive a digit.
The received digit is stored in a buffer. The digits in this buffer are interpreted as a telephone number to be dialed . The dialing starts automatically after a timeout of a few seconds.

Miglior prassi	1. Keep it simple! Do not try to implement a call center ... 2. Do not use recursions of announcements. 3. Study the examples! 4. The implementation of the "announcement" feature does not contain pre-built modules of possible scenarios. It offers "atomic" blocks, with which a desired scenario can be realized. Therefore, during the realization of your scenario, develop our configuration step by step. Check after each configuration step whether the announcement behaves as desired. 5. When an announcement receives a call, the caller may be in a paid connection. To ensure that the connection is not permanently maintained and costs are incurred, a "Cancel the connection" should be configured somewhere in the proceeding of the announcement.

Statuses and Schematic Work Flow of an Announcement

Simplified overview of the statuses and the work flow of an announcement with interactive user guidance IVR:
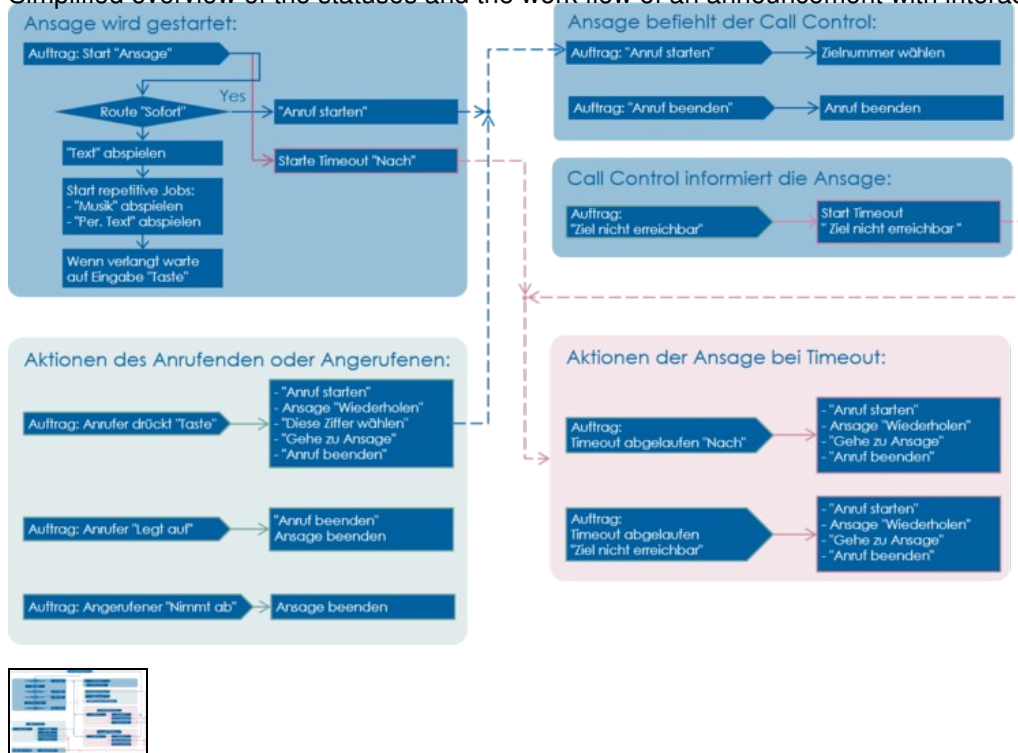
Detailed Scheme Statuses and Schematic Work Flow of an Announcement

Examples of Announcements

Information for the Caller

Goal of the call distribution:

◊ Only the announcement text is played to the caller.
◊ The same announcement text is repeated every 20 seconds.
◊ The connection is automatically terminated after 2 minutes.

Scheme:

Configuration in the AdminCenter:

Greeting Text and Immediate Forwarding to the Support

Goal of the call distribution:

◊ A greeting is played to the caller.
◊ After 5sec, the call is automatically forwarded to the support team.
◊ The support team is served from Monday - Friday from 8:00 - 12:00, 13:00 - 17:00.
◊ If no supporter accepts the call, after 90sec the call is automatically forwarded to the VoiceMail Box of the support.

Scheme:
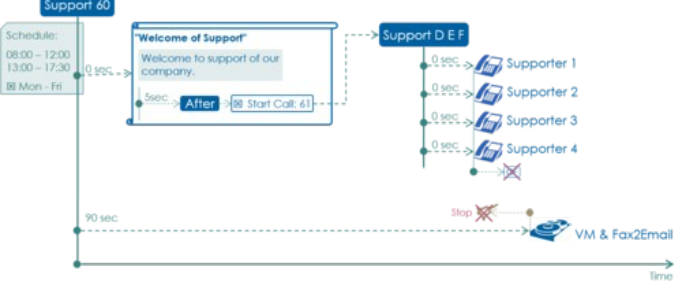
Configuration in the AdminCenter:

Announcement Configuration of vPBX Subscriber 60:

| Settings | Interactions |

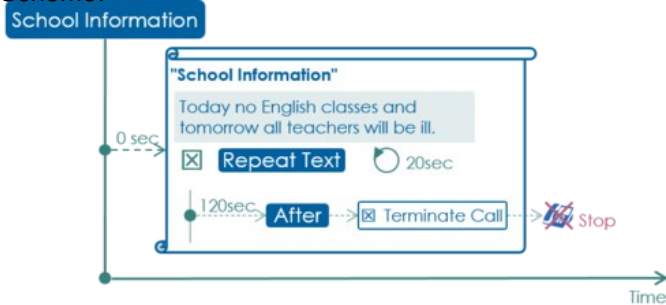|	
Name	Welcome to Support
Announcementtext	▶ Play / Modify...
	Modify using phone ☐
Immediately	- ▼
Music on wait	- ▼
Periodically	- ▼
Dest. not reachable	- ▼
After	10 Sec. ▲▼ Start call ▼ 61

Distribution Configuration of vPBX Subscriber 60:

Name	Delayed	Destinatic	Other Phones	Call Forward	State	Schedule										
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Support 60	0 sec.	Welcome to Support	stop ringing	possible	active	08:00	12:00	13:00	17:30	✓	✓	✓	✓	✓			🗑
VM Support 60	90 sec.	VoiceMail	stop ringing	possible	active												🗑

(1 of 1)

Distribution Configuration of vPBX Subscriber 61:

Name	Delayed	Destinatic	Other Phones	Call Forward	State	Schedule										
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Supporter 1	0 sec.	41	stop ringing	not possible	active												🗑
Supporter 2	0 sec.	42	stop ringing	not possible	active												🗑
Supporter 3	0 sec.	43	stop ringing	not possible	active												🗑
Supporter 4	0 sec.	44	stop ringing	not possible	active												🗑

(1 of 1)

Greeting Text and User Input for German, English or French Support

Goal of the call distribution:

◊ A greeting is played to the caller.
◊ The caller is prompted to choose the desired language.

◊ Depending on the callers input, the call will be forwarded to the German/English or French support team.
  If the caller does not make an entry, the announcement is repeated after 15sec.
◊ The support teams are served from Monday - Friday from 8:00 - 12:00, 13:00 - 17:00.
◊ If no supporter accepts the call, after 90sec the call is automatically forwarded to the VoiceMail Box of the support.

Scheme:
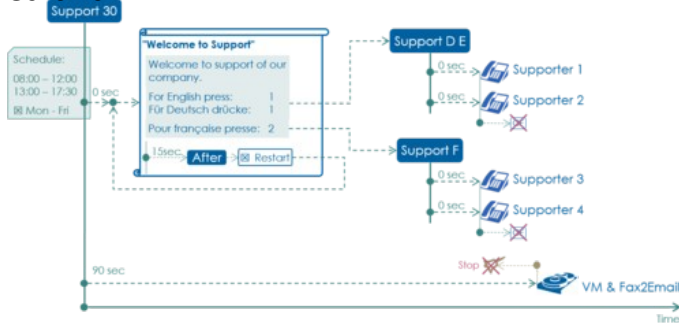
Configuration in the AdminCenter:

Announcement Configuration of Subscriber 30:

Distribution Configuration of vPBX Subscriber 30:

Name	Delayed	Destination	Other Phones	Call Forward	State	Schedule											
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Support IVR 30	0 sec.	Welcome to Support	stop ringing	possible	active	08:00	12:00	13:00	17:30	✔	✔	✔	✔	✔			🗑
VM Support IVR 30	90 sec.	VoiceMail	stop ringing	possible	active												🗑

(1 of 1)

Distribution Configuration of vPBX Subscriber 31 "Support D E" (vPBX Subscriber 32 "Support F" is similar):

Name	Delayed	Destination	Other Phones	Call Forward	State	Schedule											
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Supporter 1	0 sec.	41	stop ringing	not possible	active												🗑
Supporter 2	0 sec.	42	stop ringing	not possible	active												🗑

(1 of 1)

Complex Support Announcement

Goal of the call distribution:

◊ A greeting is played to the caller.
◊ The caller is prompted to choose the desired language.
◊ Depending on the callers input, the call will be forwarded to the German/English or French support team.
  • If the caller does not make an entry within 15 seconds, the call is automatically forwarded to the German/English support team.
◊ If the caller can not be connected directly to a support employee, he is held in a waiting loop.
  In the waiting loop, the caller hears a waiting music and every 15sec a "Please wait ..." message.
◊ The announcement "Please wait ..." restarts every 60sec.

This restart of the announcement is required at in order to prevent the timeout of the system-wide maximum call time.
◊ The support teams are served from Monday - Friday from 8:00 - 12:00, 13:00 - 17:00.
◊ At noon, at night and at weekends, the calls are forwarded immediately to the VoiceMail Box of the support.
Note:
To prevent that the waiting loop is interrupted by a fixed timeout for forwarding to the answering machine, it is necessary to configure three call distribution elements for forwarding to the VoiceMail Box.

Scheme:

Configuration in the AdminCenter:

Announcement Configuration "Wait for Support F" is similar!

Distribution Configuration of vPBX Subscriber 70:

Name ⇕	Delayed ⇕	Destination ⇕	Other Phones	Call Forward	State	Schedule												
						From	To	From	To	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
Support IVR 70	0 sec.	Welcome to Support	stop ringing	possible	active	08:00	12:00	13:00	17:30	✓	✓	✓	✓	✓				🗑
VM Support "Noon"	0 sec.	VoiceMail	stop ringing	not possible	active	12:00	13:00			✓	✓	✓	✓	✓				🗑
VM Support "Night"	0 sec.	VoiceMail	stop ringing	not possible	active	00:00	08:00	17:30	24:00	✓	✓	✓	✓	✓				🗑
VM Support "Weekend"	0 sec.	VoiceMail	stop ringing	not possible	active										✓	✓		🗑

(1 of 1)

Distribution Element Configuration of vPBX Subscriber 70:

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Subscriber xx"

→ Tab "Voiceportal"

As subscriber:

→ Tab "Voiceportal"

Creating, Modifying and Deleting an Announcement

Create a new announcement:

1. Enter the name of the new announcement in the input field
2. Click Pulsante [+ Add]
3. A dialog pops up, in which all configurations of the announcement are configured.
4. In tab "Settings" the following parameters can be configured:
   · Define the "Name" of the announcement
   · Load, create or modify the "Announcement text"
   · Define automatic announcement actions:
     ♦ Define a "Immediately" action
     ♦ Define "Music on Wait"
     ♦ Define a "Periodically" repeated text
     ♦ Define the action if the "Destination is not reachable" .
     ♦ Define an action "After" a timeout when no user input is received or the called destination doesn't respond in any way.
5. In tab "Interactions" the following parameters can be configured:
   · Define the actions that can be executed when a user presses a "Key" on its telephone keypad.

6. For saving the configurations click the Pulsante [Save]

Modify an existing announcement:

 1. Click the row of the desired announcement
 2. Modify the desired parameter
 3. For saving the configurations click the Pulsante [Save]

Delete a announcement:

 1. Click the waste icon at the end of the row of the desired announcement.

Configuration of an Announcement

An announcement is created as described in chapter "Creating, Modifying and Deleting an Announcement" .

Defining the Name

The announcement can be given any name .
As announcements, will be selected by name it is recommended to give meaningful names, e.g.:

 ◊ "Welcome to Support"
 ◊ "Waiting Music"
 ◊ "Sorry, try later"

Loading the Announcement Text

The announcement text can be loaded in two ways:

 1. Load a prepared audio file
 2. Recording the text via your own telephone or any telephone of the vPBX

Load an Announcement Text with an Audio File

Here an externally prepared audio file is uploaded via AdminCenter.

Proceeding:

 1. The text must be recorded with an external device and stored in an audio file. The audio file must be created in the format WAV (PCM-encoded) or MP3!
    Hint:
    The audio file must be stored in such a way that it can be accessed from the used web browser.
    For "Announcement text" click on Pulsante [Play/Modify ...]. It opens a dialog where the text can be loaded and listened to.
 2. Click on the Pulsante ["+ Replace ..."], find and select the audio file in the opening file browser. After selection, the file is loaded immediately. To listen to the text, click Pulsante [>].
 3. In the dialog "Announcement", click Pulsante [Save]

Loading the Announcement Text via Telephone

Here the announcement text is directly recorded via a telephone (similar to the [[lt:admincenter_subsc_voicemail_box | VoiceMail Box).

Proceeding:

1. Prepare the recording via AdminCenter:
    1. Mark the selections box for "Modify using phone":
        A *88-code is displayed, e.g.: `*881058`
    2. Click Pulsante [Save] in the dialog "Announcement"
2. Recording the text via telephone:
    1. In order to access the voice portal, the above generated *88-code is dialed from the own or any telephone of the vPBX, e.g.: `*881058`
    2. In the speech-guided menu, a loaded text can be listen to or replaced
3. Finalize the recording via AdminCenter:
    1. Unmark the selections box for "Modify using phone":
        The *88-code will disappear.
4. Click Pulsante [Save] in the dialog "Announcement"

The text can no longer be modified with the telephone via the voice portal. If the text must be modified via telephone later, the recording must be enabled again by selecting "Modify using phone".

Immediately Call Forward to the Destination

If after invoking the announcement, a predetermined destination has to be called immediately, the parameter "Immediately" must be set to "Start call" and the telephone number of the destination must be configured.

The text of this announcement will not be played! This can be bypassed by adding a periodically played text. The text can come from any announcement, including its own.

Play Music during Waiting

For playing music during waiting select at parameter "Music on wait" the setting "Play announcement" and choose the announcement whose text contains the music sample.

The music is paused when a periodically text is played.

A waiting music must be loaded as an audio file in its own "announcement". The procedure is identical to the loading the announcement text.

Play Text Periodically

To play a text periodically, select at parameter "Periodically" the "Play announcement" and select the announcement with the desired text. The text will be played for the first time after the configured time has elapsed and then it is repeated periodically in the same rhythm.

Hint:
Only the text of the selected announcement is played. All other configured parameters of the selected announcement are not taken into account! It is possible to replay the text of the "own" announcement.

Automatic Action if No Response

If no key input is done by the caller or if a called destination doesn't respond then the automatic action "After" can be invoked. This time-controlled action is designed to prevent the caller from having to wait unnecessarily when nothing happens.

The following actions can be selected:

◊ "Restart"
   After the defined time period, this announcement is restarted.
◊ "Goto announcement"
   After the defined time period, the selected announcement is called. The current announcement is stopped.
◊ "Start call"
   After the defined time period, the configured telephone number is called. The current announcement is stopped.
◊ "Terminate call"
   After the defined time period, the call and the current announcement are stopped.

Automatic Action, if the Destination is not Reachable

If the called destination cannot be reached (e.g.: user busy or call rejected), an automatic action "Destination not reachable" can be invoked. This time-controlled action is designed to prevent the caller from having to wait unnecessarily when it is known that the called destination cannot accept the call.

The following actions can be selected:

◊ "Restart"
   After the defined time period, this announcement is restarted.
◊ "Goto announcement"
   After the defined time period, the selected announcement is called. The current announcement is stopped.
◊ "Terminate call"
   After the defined time period, the call and the current announcement are stopped.
◊ "Wait until free"
   Until the defined time period, it will be tried to reach the destination repeatedly. After the defined time period, the current announcement is stopped.

Hint:
In combination with the automatic action "After" the caller can be forwarded to a state where he can choose a new action.

Actions due to Caller Inputs IVR

With a text the caller can be prompted to press different keys on the telephone keypad to start predefined actions. If the caller does not press a key, then an automatic action "After" may be executed.

The following actions can be selected on the Keys 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, *, and #:

◊ "Restart"
   This announcement is restarted.
◊ "Goto announcement"
   The selected announcement is called. The current announcement is stopped.
◊ "Start call"
   The configured telephone number is called. The current announcement is stopped.
◊ "Terminate call"
   The call and the current announcement are stopped.
◊ "Dial this digit"
   The selected digit is stored in a buffer

Special Case " Dial this digit "

If one or more keys are configured with "Dial this digit", the caller can use these digits to create a new telephone number and have it dialed.

The digits collected are dialed as telephone numbers when:

◊ After entering of the last digit approx. 6 seconds have elapsed
◊ A key is pressed with the "Start Call" action selected. For this key the telephone number must be let empty.

To prevent that any telephone number can be dialed, one ore more dialing rules must be assigned to the telephone number to which the announcement belongs.

Parameter Configuration

Parametro: Name

Descrizione:	Defines the name of the announcement.
Configurazione:	Any string Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: Immediately

Descrizione:	Defines an immediately executed action upon the invoking of the announcement. The text of this announcement will not be played! With the call initiation a timer "After" will be started. If this timer runs out its defined action will be executed. If the destination signals that it is occupied (e.g. busy, call rejected) then timer "Dest. not reachable" will be started. If this timer runs out its defined action will be executed.

Configurazione:	Menu di scelta:
	
	    Start Call
	    The configured number will be dialed immediately.

Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: Music on Wait

Descrizione:	Defines that the user will hear music while waiting to be connected to a destination.

Configurazione:	Menu di scelta:
	Play announcement The text of the selected "announcement" will be used as the source for music.
Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: Periodically

Descrizione:	Defines that the user will hear periodically an additional text.
Configurazione:	Menu di scelta:
	Play announcement The text of the selected announcement will periodically replayed. It is played the first time after the configured timeout and afterwards repeated with the same timeout.
Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: Dest. not reachable

Descrizione:	Defines the action that has to be taken when the destination is not reachable (e.g. busy, rejected the call) after the configured timeout. This timeout shall help to prevent that the user may wait needlessly when it is known that the called cannot take the phone.
Configurazione:	Menu di scelta: Restart After the configured timeout this announcement is restarted. Goto announcement After the configured timeout the selected announcement is invoked. The current announcement will be terminated. Terminate call After the configured timeout the call and the current announcement will be terminated. Wait until free Until the configured timeout the destinations are polled if they are free. After this timeout, the polling is stopped.
Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: After

Descrizione:	Defines the action that has to be taken when the user does not provide an input or a placed call is not answered.

	This timeout shall help to prevent that the user may wait needlessly for to be connected to any destination or to hear the announcement again, etc.
Configurazione:	Menu di scelta: Restart After the configured timeout this announcement is restarted. Goto announcement After the configured timeout the selected announcement is invoked. The current announcement will be terminated. Start Call After the configured timeout the configured telephone number will be dialed. The current announcement will be terminated. Terminate call After the configured timeout the call and the current announcement will be terminated.
Predefinito:	None
Versione:	AdminCenter V5.6

Parametro: Key

Descrizione:	Defines the action that has to be taken when the user presses this key on the telephone keypad.

Configurazione:	Menu di scelta:
	
	Restart
	This announcement is restarted.
	
	Goto announcement
	The selected announcement is invoked. The current announcement will be terminated.
	
	Start Call
	The telephone number will be dialed. The current announcement will be terminated.
	
	Dial this digit
	The pressed digit will be collected in a dialing buffer.
	The collected digits will be dialed as a telephone number:
	  • After a timeout of ca 6 sec after the last entry of a digit
	  • When a key is pressed that has the action "Start Call" (See above) with no configured number

Predefinito:	None
Versione:	AdminCenter V5.6

Configurazione

Dove configurare questa funzione

Come amministratore di vPBX:

→ Scheda "PBX"

→ Scheda "Estensione xx"

→ Scheda "Regole di composizione"

Come utente:

→ Scheda "Regole di composizione"

Blacklist

La blacklist permette all'utente di creare e gestire una lista di numeri telefonici dai quali non è permesso ricevere chiamate.

Le chiamate dai numeri bloccati dall'utente verranno rifiutate. Sarà riprodotto un messaggio di avviso per la persona chiamante.

Configurazione

Dove configurate questa funzionalità

Come amministratore di vPBX:

→ Scheda "PBX"

→ Scheda "Estensione xx"

→ Scheda "Blacklist"

Come utente telefonico:

→ Scheda "Blacklist"

Aggiungere e rimuovere un numero telefonico da bloccare

Aggiungere un nuovo numero telefonico da bloccare:

1. Inserire il numero telefonico nel campo di inserimento
2. Cliccare Pulsante [+ Aggiungere]

Rimuovere un numero telefonico bloccato:

1. Cliccare sull'icona 🗑 a cestino alla fine della riga corrispondente al numero telefonico da rimuovere.

La lista chiamate

Nella lista chiamate sono elencate tutte le connessioni ed i tentativi di chiamata da e verso il numero dell'utente.

Nota	L'intervallo temporale delle connessioni elencate nella lista può essere limitato dal fornitore, per esempio potrebbero essere visibili solo le connessioni degli ultimi 100 giorni.

Informazioni mostrate per ogni connessione

Per ogni connessione sono fornite le seguenti informazioni:

◊ Giorno ed ora dell'inizio della connessione
◊ Un simbolo indicante se la colelgamento è avvenuto con successo e se si tratta di una connessione in entrata o in uscita
◊ Il numero telefonico chiamato o chiamante
◊ La durata della connessione
◊ Il costo chiamata per la connessione

Nota	Per protezione della privacy, i numeri telefonici possono essere mascherati. In questo caso le ultime cifre del numero telefonico sono sostituite da "x", per esempio 012345xxxx.

Filtrare e ordinare le connessioni

La maschera di ricerca presente in cima alla lista chiamate permette di filtrare le connessioni in base:

◊ Al numero chiamato o chiamante

Le informazioni sulle connessioni possono essere ordinate cliccando sul titolo della colonna desiderata. La lista delle connessioni verrà ordinata in ordine crescente o decrescente in base al valore della colonna selezionata.

Configurazione

Dove configurare questa funzione

Come amministratore di vPBX:

→ Scheda "PBX"

→ Scheda "Estensione xx"

→ Scheda "Chiamate"

Come utente telefonico:

→ Scheda "Chiamate"

Cunfigurazione ed esecuzione di funzioni vPBX tramite l'interfaccia grafica AdminCenter per l'utente

The Direct Dialing In DDI from a Public to an Internal vPBX Telephone Number

The Aim of Direct Dialing In DDI

With dialing in an inbound connection toward a public telephone number is forwarded to the assigned internal vPBX telephone number.

The allocation of an internal destination is carried out either:

◊ Manually within this list (as described below)
◊ Automatically, during the creation of an internal telephone number range when the intern telephone number correspond with the last digits of the public telephone number.

This procedure is described in "Internal Telephone Number of the vPBX" .

Nota	If a public vPBX telephone number has no assigned an internal destination then incoming calls to this public vPBX telephone number are rejected.

Preparing a Numbering Plan for the vPBX

It is recommended that for the vPBX a numbering plan is prepared. The numbering plan shows how incoming calls are to be forwarded to the internal vPBX telephone numbers.

Example of a vPBX numbering plan:

Public Number Range of the vPBX

012 34567 00 - 99

Public vPBX Numbers: Internal vPBX Numbers:

012 34567 10 ──────────→ 10   Main Number, Secretary
012 34567 11 ──────────→ 11   FAX

012 34567 21 ──────────→ 21   Direct Number Employee 1
012 34567 22 ──────────→ 22   Direct Number Employee 2
012 34567 23 ──────────→ 23   Direct Number Employee 3
012 34567 24 ──────────→ 24   Direct Number Employee 4

012 34567 30 ──────────→ 30   Direct Number Distribution "Support"
                          31   Distribution "Support D E"
                          32   Distribution "Support F"
                          41   Supporter 1
                          42   Supporter 2
                          43   Supporter 3
                          44   Supporter 4

Based on this preparation the internal telephone numbers can be generated and the direct dialing in be configured.

Manual Configuration of the Direct Dialing In

Configure for a public telephone number a direct dialing in destination:

1. Click the row of the desired public telephone number
2. A dialog box pops up, which allows to:
   · With parameter "Internal Destination" select an internal telephone number
   · With parameter "Name" enter a descriptive name of the telephone number

Create Additional or Delete Public vPBX Telephone Numbers

Only the system administrator/operator of the provider can create new or delete public telephone numbers for this vPBX.

Display the Telephone Number at the Called Party Side (CLIP, CLIR)

For outgoing connections via a public vPBX telephone number can be determined how the identity has to be displayed on the called side:

◊ Supplied by the telephone itself or the assigned public telephone number from the internal telephone number configuration.
◊ The call is displayed as anonymous (CLIR).
◊ The public telephone number is displayed, which is used for the call (CLIP).

A supplied display name from the telephone itself or from the internal telephone number configuration is deleted in any case!

Configure the Identity for Outbound Connections

Configure the identity for outgoing calls via a public telephone number:

1. Click the row of the desired public telephone number
2. A dialog box pops up, which allows to:
   · With parameter "Suppres own number" can be configured whether your telephone number must be displayed or not.

Configuration

Where to Configure this Feature

As vPBX administrator:

➜ Register "Extern"

Parameter Configuration

Parametro: Name

Descrizione:	Defines a name to describe the public telephone number
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.9

Parametro: Internal Destination

Descrizione:	Defines to which internal telephone number of the vPBX an incoming call on this public telephone number must be forwarded.
Configurazione:	Menu di scelta: List of the internal telephone numbers of the vPBX
Predefinito:	(No Destination)
Versione:	AdminCenter V5.7

Parametro: Suppress own Number

Descrizione:	Defines which telephone number to be displayed at the called side: ◊ "Do not change" The information provided by the telephone or vPBX telephone number of the caller is transferred unchanged ◊ "Yes" The telephone number is always suppressed (CLIR). ◊ "No" The public telephone number, which is used for the call is displayed (CLIP).
Configurazione:	Menu di scelta: Do not change Yes No
Predefinito:	Do not change
Versione:	AdminCenter V5.7

Manage the vPBX Internal Telephone Numbers

Contrary to the public vPBX telephone numbers the vPBX administrator can manage the internal vPBX phone numbers freely. He can create, edit and delete internal vPBX new phone numbers. A limitation of the number of internal vPBX telephone numbers can be specified by the provider, however.

Nota	When an internal vPBX telephone number will be deleted then the private data of the subscriber will be gone, e.g. messages of the personal voicemail box, announcements, etc.

Create a Numbering Plan for the vPBX

It is recommended that for the vPBX a numbering plan is prepared. The numbering plan outlines the planned/available internal vPBX phone numbers. Ideally, it also describes the direct dialing in from the public to the internal vPBX telephone numbers. Based on the prepared numbering plan the internal vPBX telephone numbers will be generated.

Example of a vPBX numbering plan:

File:Admincenter vpbx numberingplan e10.gif

Example of a vPBX numbering plan

Generating Internal Telephone Numbers

The internal vPBX phone numbers of this numbering plan can be created as described in the chapter "Configuration" below.

For the above numbering plan example the internal vPBX telephone numbers are generated with the following input parameters "Create new Number"

```
10,11,21-24,30-34
```

Miglior prassi	An internal vPBX telephone number and its prepared and checked account configuration serve as a "Template" for new vPBX subscribers! For this purpose, first an internal vPBX telephone number must be created with a complete and checked configuration of its subscriber account. At the generation of further internal vPBX telephone numbers this "template number" can used in parameter "Template" . The "template number" subscriber account configurations are copied as far as useful to the new subscriber account.

Generate Direct Dialing In DDI

Automatic Creation of Direct Dialing In

When new internal vPBX telephone number is created the vPBX tries to create a direct dialing in from a public vPBX phone number to this new internal vPBX telephone number. For doing so the vPBX analyses if the digits of this new internal vPBX telephone number match (from the right) with a public vPBX telephone number.

In the above example this will succeed with the following internal vPBX telephone numbers:

```
public 012 34567 10   intern 10
```

```
public 012 34567 11   intern 11
public 012 34567 21   intern 21
public 012 34567 22   intern 22
public 012 34567 23   intern 23
public 012 34567 24   intern 24
```

A direct dialing in can be changed at any time. This proceeding is described on page "The Public vPBX Telephone Numbers and Direct Dialing In DDI" .

Manual Creation of Direct Dialing In

The configuration of a direct dialing in can be done manually at any time. This proceeding is described on page "The Public vPBX Telephone Numbers and Direct Dialing In DDI" .

From the above example, the following direct dialing in has to be done manually:

```
public 012 34567 77   intern 30
```

Overview of the Registered SIP Devices

The column "Registration" in the list of the internal vPBX phone numbers shows if SIP device are registered. A green dot indicates that at least one SIP device has registered itself to the internal vPBX number.

The details of a registration can be examined via the following navigation:

→ Tab "Subscriber xx"

→ Tab "Settings"

→ Tab "Phones"

→ Click button [State ?]

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "Intern"

Creating, Modifying and Deleting Internal Telephone Numbers

Setting up a new internal vPBX telephone number:

1. Insert one or more new telephone numbers in the input box beside the Pulsante [+ Create new Number].
   Examples:
   · Single number: 30
   · Several single numbers: 30,41,52

· Number range: 60-65
· Combination: 30,41,52,60-65,70,800-850
2. In parameter "Template" an internal telephone number can be selected whose subscriber account configuration is copied as far it is appropriate.
3. Click Pulsante [+ Create new Number]
   Note:
   In the popping up dialogue, the newly to create telephone numbers can be checked and by clicking Pulsante [Yes] these new internal vPBX telephone numbers and their associated subscriber accounts will be generated.
4. For saving the configurations click the Pulsante [Save]

Modify an existing an internal telephone number:

1. Click the row of the desired internal telephone number.
   Note:
   The AdminCenter GUI changes automatically to the tab "Subscriber xx" (xx stands for the internal telephone number). The vPBX administrator can then make all the settings for this internal subscriber account.
2. For saving the configurations click the Pulsante [Save]

Delete an internal telephone number:

1. Click the icon ▪ at the end of the row of the desired internal telephone number.

Avviso	When deleting an internal vPBX telephone number then **all its associated data will be gone**: ◊ Internal vPBX subscriber account ◊ All messages of the voicemail box ◊ Call forwarding and distributions ◊ Announcements and IVR ◊ Connection and key configurations of VoIP device ◊ etc. **Note**: ◊ The configurations within the VoIP device will not be deleted!

Parameter Configuration

Parametro: Create new Number

Descrizione:	Defines one or more internal telephone numbers to be generated. The associated internal subscriber account will also be created. Examples of input options: • Single number: 30 • Several single numbers: 30,41,52 • Number range: 60-65 • Combination: 30,41,52,60-65,70,800-850
Configurazione:	Pulsante [+ Create new Number] Stringa di configurazione: ◊ Comma separated list of one or more phone numbers and/or number ranges
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Template

Descrizione:	Defines the subscriber account configuration of an existing internal vPBX phone number as the basis for new internal phone number. At the generation of new internal telephone numbers the default configuration is copied as far it is appropriate.
Configurazione:	Menu di scelta: Default List of all available internal telephone numbers
Predefinito:	Default
Versione:	AdminCenter V5.9

Limiting the Maximal Number of Concurrent Channels

This feature allows the vPBX administrator to limit the maximal number of connections within the vPBX. This may be useful when the IP network bandwidth to the internet provider is limited. Consider, even a vPBX internal connection needs bandwidth to the provider!

Limiting the maximal number of channels is done by configuring "Channels" .

The needed bandwidth per channel depends on the used audio codec:

◊ Codec G.711 : ca. 128kBit/sec; ISDN quality
◊ Codec G.726 : ca. 16 - 40kBit/sec; Good VoIP quality

Different connection scenarios need another number of channels:

◊ vPBX internal connection:
   A   B: 1 channel
◊ vPBX internal to/from public telephone network connection:
   A   B: 1 channel
◊ Call forwarding to internal or public destination connection:
   A   B, Call Forwarding   C : 2 channels
◊ Call forwarding to VoiceMail Box connection:
   A   B, Call Forwarding   VoiceMail Box : 2 channels

Download an Audio File for the Feature "Music on Hold"

Here the audio file can be downloaded which will be used as the "Music on Hold" within this vPBX. The audio file must created in advance. The following formats are allowed

◊ WAV (PCM coded)
◊ MP3

Procedure for downloading an audio file for the feature ?Music on Hold?:

1. Click the button [Create ?]
2. In die dialog "Music on Hold" click the button [+ Select File ?]
3. In the popping up file browser select the file and download it into the vPBX

Check the contents of the downloaded audio file of the feature ?Music on Hold?:

1. In die dialog "Music on Hold" click the icon ▶

Delete the audio file of the feature ?Music on Hold?:

> 1. Click the button [Delete ?]

Manual Change of the Call Distribution "Normal/Day/Weekend"

With the feature "vPBX Call Distribution Normal/Day/Weekend" the vPBX can be configured to distribute incoming calls as follows:

"Normal" :

> The vPBX distributes incoming call according the call distributions of the actual day time.

"Night" :

> Upon activation the vPBX distributes incoming calls according the call distributions at 00:00 of the next day. The "Night" distribution scheme is automatically switched back to "Normal" at 24:00 of this day.

"Weekend" :

> Upon activation the vPBX distributes incoming calls according the call distributions at 00:00 of the next Sunday. The "Weekend" distribution scheme is automatically switched back to "Normal" at 24:00 of the next Saturday.

The manual change of the distribution scheme can also activated/deactivated from any telephone of this vPBX with the Service 980:

Service 980 Call distribution normal/night/weekend:	*#-Code:	Commento:
Activate the ?Normal? call distribution:	*980	Activated weekend call distributions are deactivated prematurely.
Activate the ?Night? call distribution:	*981	
Activate the ?Weekend? call distribution:	*982	

The provider may have defined another *#-code for this service. Check at your provider for the valid *#-code!

Assigning a Zone Profile for Configuring VoIP Devices

A Zone Profile for the vPBX is needed when VoIP devices, e.g. telephones, shall be configured out of the AdminCenter. The VoIP device must be assigned via the AdminCenter (see "Assigning VoIP Devices ").

A Zone-Profile contains the information how a VoIP device can contact the vPBX for registering and downloading its configuration file. The provider prepares the available "Zone Profiles" . Check with the provider which Zone Profile must be used. If no zone is selected, then the "Default" zone is used.

Limitation of the IP Subnet for the SIP Devices

With this feature it is possible to define an IP subnet where the SIP devices are allowed to register at this vPBX. Registration attempts from SIP devices out of other IP subnets are rejected.

The IP subnet is defined with the parameter "Network" . It is possible to configure several IP subnets separated by commas.

Example:

```
172.1.1.0/24,192.168.10.0/24
```

Limitation of the IP Subnets with a SIP Profile for the SIP Devices

With this feature it is possible to define a set of IP subnets where the SIP devices are allowed to register at this vPBX. Registration attempts from SIP devices out of other IP subnets are rejected.

The provider prepares the available "SIP Profiles" . Check with the provider which IP subnets are associated with a SIP profile.

Public Prefix of Dialing to the Public Telephone Network

The public prefix "0" is usually used for dialing out from a vPBX to a national or international destination. With the "Public Prefix" this prefix can be changed to another number or can be deleted.

If no public prefix is used, then it may be that certain numbers are not allowed for internal vPBX telephone numbers, e.g. "110" which is also an emergency number. Check with the provider which internal vPBX telephone number are not allowed if no public prefix is used.

SIP Authentication for the Public vPBX Telephone Numbers

Nota	This feature is usually not available!

The SIP credentials "Authenticating Name" and "Password" for the public vPBX telephone numbers may be changed.

Nota	This configuration is valid for all public vPBX telephone numbers of this vPBX!

Avviso	• If not handled with care it is possible that the connectivity is not working correctly! • SIP devices using this SIP credentials must be reconfigured accordingly! • Configured Line Key on SIP telephones must be synchronized! • These values must be handled **confidential**. They open the possibility of misuse and may cause **high connection cost**!

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Account"

Parameter Configuration

Parametro: Music on Hold

Descrizione:	Enables to load or delete an audio file which will be used for ?Music on Hold? in this vPBX.
Configurazione:	Pulsante [Definieren ?]
	Pulsante [Delete]
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Channels

Descrizione:	Defines how many concurrent channels this vPBX is allowed to handle. The number is computed from OnNet, in- and outbound connections.
Configurazione:	Stringa di configurazione:
	◊ None: No limitation ◊ 0: No connection possible ◊ > 0: Number, defines the max. number of concurrent channels
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Time-Switch

Descrizione:	Defines if the call distributions shall work according normal, night or weekend configurations: • "Normal": The vPBX uses the call distributions of the actual day time. • "Night": The vPBX uses the call distributions, which are valid at 00:00 of the next day. • "Weekend":

	The vPBX uses the call distributions, which are valid at 00:00 of the next Sunday.

Configurazione:	Menu di scelta:
	
	        Normal
	        Night
	        Weekend

Predefinito:	Normal
Versione:	AdminCenter V5.7

Parametro: Network

Descrizione:	Defines from which IP subnet a SIP device is allowed to register at this vPBX. The network is defined by the starting IP address and its subnet mask. Several comma separated IP subnets are possible. Example: 172.1.1.0/24,192.168.10.0/24

Configurazione:	Stringa di configurazione:
	
	    ◊ None : No IP address checking
	    ◊ IP address / Subnet Mask Bit

Predefinito:	None
Versione:	AdminCenter V6.2

Parametro: SIP Profile

Descrizione:	Defines a SIP Profile which contains a list of IP subnets where a SIP device is allowed to register at this vPBX. Check with the provider which IP subnets are associated with a SIP profile.

Configurazione:	Menu di scelta:
	
	    - (None)
	    List of prepared SIP Profiles

Predefinito:	None
Versione:	AdminCenter V6.1

Parametro: Zone

Descrizione:	Defines a Zone Profile which is used for automatic provisioning of VoIP devices of this vPBX. The VoIP devices must be assigned via the AdminCenter (see "Assigning VoIP Devices ").

Configurazione:	Menu di scelta:
	
	    - (None)
	    List of prepared Zone Profiles

Predefinito:	None
Versione:	AdminCenter V6.3

Parametro: Public Prefix

Descrizione:	Defines the public prefix a user must dial for breaking out from a vPBX to the public telephone network PSTN.
Configurazione:	Stringa di configurazione: ◊ None: No public prefix needed ◊ Number
Predefinito:	0
Versione:	AdminCenter V6.3

Parametro: Authenticating Name

Descrizione:	SIP authenticating name for the SIP device, which shall register to a public telephone number of this vPBX	
Configurazione:	Stringa di configurazione: ◊ Any string	
	Nota	Follow the online instructions concerning secure authenticating name!
Predefinito:		
Versione:	AdminCenter V5.7	

Parametro: Password

Descrizione:	SIP password for the SIP device, which shall register to a public telephone number of this vPBX	
Configurazione:	Stringa di configurazione: ◊ Any string	
	Nota	Follow the online instructions concerning secure passwords!
Predefinito:		
Versione:	AdminCenter V5.7	

The AdminCenter Account for the vPBX Administrator

The Login Credentials of the vPBX Administrator

The vPBX administrator can configure the password for its AdminCenter user account. The username can only be changed by the system administrator/operator of the provider.

An email address can be configured where instructions will be sent for recovering the login.

Procedure in Case of Loss of the Login Credentials

If login details are lost then the following procedures are possible for regaining the access:

1. If a email address was configured then click in the AdminCenter login window the link "Forgotten username or password?". Then instructions will be sent to this email address to enable the access again.
   or
2. The system administrator / operator of the provider may set the login data again

Used Language in the AdminCenter GUI

The to use language of the AdminCenter GUI can be configured.

Renew the Password Upon First Access

It can be defined if the user has to renew the password upon the first AdminCenter access.

Deblock an AdminCenter Account

If an AdminCenter account is blocked then this is displayed with a selected box. By clicking the button [Deblock] it can be deblocked.

Limitation of the IP Subnet for the AdminCenter Access

Limitation of the IP Subnet for the Access

With this feature it is possible to define an IP subnet where the user is allowed to access this AdminCenter account.

The IP subnet is defined with the parameter "Network" . Several comma separated IP subnets are possible. Example:

```
172.1.1.0/24,192.168.10.0/24
```

Limitation of the IP Subnets with an Access Profile

With this feature it is possible to define a set of IP subnets where the user is allowed to access this AdminCenter account.

The provider prepares the available "Access Profiles" . Check with the provider which IP subnets are associated with an access profile.

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Web"

Parameter Configuration

Parametro: Username

Descrizione:	The actual username is displayed.
	Nota The provider?s system administrator/operator can configure the user name.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Current password

Descrizione:	At a change of the password insert here the actual valid password!
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: New Password

Descrizione:	At a change of the password insert here the new password! **Nota** Follow the instructions on secure passwords!
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Confirm new password

Descrizione:	At a change of the password validate here the new password!
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Username

Descrizione:	Defines the AdminCenter account username for this vPBX **Nota** This parameter is accessible for the provider?s system administrator/operator only.
Configurazione:	Stringa di configurazione: ◊ Any string
Predefinito:	Actual username
Versione:	AdminCenter V5.7

Parametro: Password

Descrizione:	Defines the AdminCenter account password for this vPBX

Nota	This parameter is accessible for the provider?s system administrator/operator only.

Nota	Follow the instructions on secure passwords!

Configurazione:	Stringa di configurazione:
	◊ Any string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Renew Password

Descrizione:	Defines that the user has to renew its password upon the first login.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V6.2

Parametro: Language

Descrizione:	Defines the used language in the AdminCenter GUI for this account.
Configurazione:	Menu di scelta:
	All available languages are listed
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Email

Descrizione:	Defines the email address to which information will be sent how to reactivate the access to the AdminCenter account.
Configurazione:	Email Address
	Stringa di configurazione:
	◊ None : No email notification
	◊ Email address
Predefinito:	None
Versione:	AdminCenter V5.7

Call Charge Monitoring and Limiting

The feature ?Monitoring and Limiting Call Charges (TopStop)" allows the surveillance of the accumulated call charges. A defined limitation prevents the uncontrolled overflow of charges in case of, e.g.:

◊ limited budget
◊ misuse of telephone numbers or connected VoIP devices (fraud)

This feature can be set per month and / or day.

The Call charge monitoring for a given period (day, month) is as follows characterized:

◊ All fees for outgoing calls since the beginning of the period are summed
◊ At the beginning of a new period, the value is automatically set to 0.00
◊ If the charge limit is reached, an ongoing connection automatically disconnected. New chargeable outbound connections are not possible.

Nota	Emergency calls are still possible after the exceeding of a charge limit!

Monthly Call Charge Monitoring and Limiting and Alarming

There can be set up one maximum charge limit (TopStop) per month. For a vPBX the charge limit applies to all connected subscribers. The charge limit can be increased or decreased at any time. If the limit of the current month is reached and outgoing chargeable calls are blocked then increase the limit and new calls are immediately possible again.

If an alarm email address is configured then this feature informs about of the following events:

◊ The definable alarm threshold has been reached (probably the charge limit will be reached soon)
◊ The limit is reached and therefore outgoing chargeable calls are blocked.

Daily Call Charge Monitoring and Limiting and Alarming

If the ?Daily TopStop? is activated and a daily maximum charge limit defined then charges are supervised on a daily basis. The behavior is equal to the monthly basis.

If an alarm email address is configured then this feature informs about the following events:

◊ The limit is reached and therefore outgoing chargeable calls are blocked.

Preventing Misuse (Fraud)

The feature "Monitoring and Limiting Call Charges (TopStop)" is highly suitable to avoid high cost in case of misuse (fraud)!

Misuse can result by:

◊ the SIP Credentials of the public or internal vPBX telephone numbers were not kept secret.
◊ VoIP telephones or VoIP devices were hacked. These devices are very vulnerable when connected directly to the Internet!

Nota	Experience shows that if a limit is already exceeded at the beginning of the period, a misuse may have taken place or is in progress. An accurate control of the

Configuration

Where to Configure this Feature

As vPBX administrator for the vPBX:

→ Tab "PBX"

→ Tab "TopStop"

As vPBX administrator for the internal subscriber:

→ Tab "Subscriber xx"

→ Tab "Settings"

→ Tab "TopStop"

As subscriber:

→ Tab "Settings"

→ Tab "TopStop"

Parameter Configuration

Parametro: Current value

Descrizione:	Displays the total accrued fees since the beginning of the month.
Configurazione:	
Predefinito:	
Versione:	AdminCenter V5.7

Parametro: Remaining amount

Descrizione:	Displays the remaining amount available until the end of the current month.
Configurazione:	
Predefinito:	
Versione:	AdminCenter V5.9

Parametro: Max. value

Descrizione:	Defines the maximum value of the monthly limit. The monthly limit is accumulated from the beginning of the month. At month change the value is automatically set to 0.00.
Configurazione:	Stringa di configurazione: ◊ None : No charge limit (no charge monitoring) ◊ > 0.00 : Maximum fee
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Alarmlevel

Descrizione:	Defines as a percentage of the maximum value when an email is to be sent to the specified email address.
Configurazione:	Menu di scelta: Selection in steps of 10%
Predefinito:	90%
Versione:	AdminCenter V5.7

Parametro: Alarm email

Descrizione:	Defines the email address to which a notification is sent when ◊ the alarm level (only on the monthly monitoring) ◊ the max. value is reached.
Configurazione:	Stringa di configurazione: ◊ Email Address
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Daily TopStop

Descrizione:	Defines whether a daily charge limit has to be monitored.
Configurazione:	Pulsante di scelta: ☑ Attivato - ☐ Non attivato
Predefinito:	Not activated
Versione:	AdminCenter V5.9

Parametro: Daily max. value

Descrizione:	Defines the maximum value of the daily limit. The daily limit is accumulated from the beginning of the day. At day change the value is automatically set to 0.00.

Configurazione:	Stringa di configurazione:
	◊ None : No charge limit (no charge monitoring) ◊ > 0.00 : Maximum fee
Predefinito:	None
Versione:	AdminCenter V5.9

Parametro: Daily current value

Descrizione:	Displays the total accrued fees since the beginning of the day.
Configurazione:	
Predefinito:	
Versione:	AdminCenter V5.9

Parametro: Daily remaining amount

Descrizione:	Displays the remaining amount available until the end of the current day.
Configurazione:	
Predefinito:	
Versione:	AdminCenter V5.9

Usage of the Central vPBX Phonebook

Usage by Supported VoIP Telephones

By the vPBX supported VoIP telephones can access the central vPBX phonebook (directory). This requires that the VoIP telephone supports the access to the vPBX phonebook.

Nota	How the vPBX Phonebook is invoked, displayed and used by a supported VoIP telephone must be checked in its user manual!

Usage of the Alias "Short" Number by all Telephones

For each directory entry, an alias "short" number can be defined. This "short" number can be dialed by any telephone of the vPBX.

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Phonebook"

Configuration of Entries in the vPBX Phonebook

Creating, Modifying and Deleting a Phonebook Entry

Add a new vPBX phonebook entry:

1. Click the Pulsante [+ Add ?].
2. A dialog pops up where the following parameters can be configured:
   · Define an optional and unique "Short Number"
   · Define the to display "Name"
   · Define the to dial telephone "Number"
3. Click the Pulsante [Save]

Nota	It must be made sure with the aid of the vPBX numbering plan that a short number is not identical with another telephone number, like: ◊ another internal telephone number of the vPBX ◊ a public emergency telephone number, e.g. 110, 112 ◊ Special public value added telephone numbers, e.g. number information, weather, etc.

Modify a vPBX phonebook entry:

1. Click the row of the desired conference room
2. Modify the desired parameter
3. Click the Pulsante [Save]

Delete a vPBX phonebook entry:

1. Click the icon ▮ at the end of the row of the to delete phonebook entry.

Edit the Central vPBX Phonebook Externaly

The vPBX phonebook can be exported and edited on a PC with MS Excel:

1. Click the Pulsante [Export ?] and follow the instructions of the Web browser for saving the file on the PC. The name of the exported file will be:

   `<VPBX_NAME>.xls`

After editing the phonebook file it can be imported again:

1. Click the Pulsante [Import ?]
2. In the popping up dialog "Phonebook Import" click the Pulsante [+ Select File ?] and follow the instructions of the Web browser for the selecting the edited phonebook file
3. Click the Pulsante [Save]

Parameter Configuration

Parametro: Short Number

Descrizione:	Defines the short number of a telephone book entry. This short number can be dialed instead of the configured number.
	Nota — It must be made sure with the aid of the vPBX numbering plan that a short number is not identical with another telephone number, like: ◊ another internal telephone number of the vPBX ◊ a public emergency telephone number, e.g. 110, 112 ◊ Special public value added telephone numbers, e.g. number information, weather, etc.
Configurazione:	Stringa di configurazione: ◊ Number
Predefinito:	None
Versione:	AdminCenter V5.8

Parametro: Name

Descrizione:	Defines a name of the phone number. At vPBX internal connections this name can be displayed on the telephone display of the called party.
Configurazione:	Stringa di configurazione: ◊ Random string
Predefinito:	None
Versione:	AdminCenter V5.7

Parametro: Number

Descrizione:	Defines the telephone number that has to be dialed

Nota	For numbers outside the vPBX the break out prefix 0 must be used.

Configurazione:	Stringa di configurazione:
	◊ Telephone number
Predefinito:	None
Versione:	AdminCenter V5.7

Add-ons for the vPBX

For enhancing the vPBX functionality additional equipment or services from third parties can be integrated. How the available extensions are integrated and configured is described in detail in the respective help sides in detail.

Nota	The usage of an extension is described in the manufacturer's user manual.

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "PBX"

→ Tab "Add-ons"

Define a new Extension, Edit, and Delete an Extension

Define a new extension:

1. At the next empty parameter "Add-on" select the desired extension type .
2. Click Pulsante [+ Save ?]

Nota	If an extension can be installed multiple times, then it is possible to specify an individual name in its detail configuration. This name will appear in this list.

Edit a new or existing add-on:

1. Click Pulsante [Details ...]
     A dialog pops up that enables the configuration of the extension.

Delete an existing add-on:

    1. Click Pulsante [Delete ...]

Nota	All data, assignments etc. of this extension will be deleted in the vPBX?s data base.
	
	If the equipment of this extension has to be reused again for this vPBX or another vPBX then:
	
	    ◊ it has to be set into factory default
	    ◊ it must be defined in the AdminCenter again

Parameter Configuration

Parametro: Add-on

Descrizione:	Defines the extension to be integrated and allows to configure or delete the extension.
Configurazione:	Menu di scelta: List of all available extension types Pulsante [+ Save ?] Pulsante [Details ?] Pulsante [Delete ?]
Predefinito:	None
Versione:	AdminCenter V5.7

The Call List

In the call list all the connections and call attempts to and from the vPBX are listed.

Nota	The period of the listed connections may be limited by the provider, e.g. the connections of the last 100 days.

The Information Displayed for Each Connection

For each connection, the following information will be provided:

    ◊ Date and Time of the connection beginning
    ◊ A symbol indicating whether the connection was successful and if it was in- or outbound
    ◊ The internal vPBX telephone number of the calling side
    ◊ The public telephone numbers of the calling and called side
    ◊ Description of the destination
    ◊ The duration of the connection

◊ The call charge of the connection

<table>
<tr><td>Nota</td><td>For privacy reasons, the called telephone number may be veiled. The last digits of the called telephone number are overwritten with "x", e.g. 012345xxxx</td></tr>
</table>

Search, Filter and Sort Connections

Search masks in the title bar that allow to search for connections according

◊ Internal vPBX telephone number
◊ Calling telephone number
◊ Called telephone number
◊ Description of the destination

Various filtering options allow to list the connections during a defined period:

◊ Fixed periods for this and the last month
◊ Flexible periods with start, end date and time

The connection records can be sorted by clicking into the desired title cell. The connection records will then be sorted in up or down side order.

Exporting Call Details

The displayed connections can be exported. The exported file has the MS Excel XLS format and can therefore be easily studied in MS Excel.

Procedure for exporting:

1. Filter the desired connections
2. Click Pulsante [+ Export ?] and follow the instructions of the Web browser for saving the file.
   The exported file is named:
   `calls_from_<PERIODE_START>_ PERIODE_END> .xls`

Configuration

Where to Configure this Feature

As vPBX administrator:

→ Tab "Calls"