

**iSoftPhone 1.2 and
elmeg ICT880
elmeg T484**

Compatibility Tests

Ver. 1.2 (2007-05-25)



Content

1. Introduction.....	4
2. Configuration	4
3. Equipment and Software.....	5
4. Supported features.....	5
5. Configuration on the elmeg ICT	6
5.1. Creating a new internal VoIP subscriber	6
5.2. Internal subscriber “Numbers”	7
5.3. Internal subscriber “Line Access”	8
5.4. Internal subscriber “Features”	9
5.5. Internal subscriber “Communication Costs”	10
5.6. Internal subscriber “Switching functions”	11
5.7. Internal subscriber “VoIP-VPN-settings”	12
5.8. Saving configuration on ICT	13
6. Configuration on the elmeg T484.....	14
6.1. Creating a new internal VoIP subscriber	14
6.2. Internal subscriber “Numbers”	15
6.3. Internal subscriber “Line Access”	16
6.4. Internal subscriber “Features”	17
6.5. Internal subscriber “Call charges”	18
6.6. Internal subscriber “VoIP-VPN-settings”	19
6.7. Saving configuration on T4x4.....	20
7. Configuration on iSoftPhone 1.2.....	21
7.1. Configuring SIP server account.....	21
7.2. Preferences “Register/Credits”	22
7.3. Preferences “My SIP accounts”	23
7.4. Registration on SIP server account.....	25



8. Making calls	27
9. Verification steps.....	30
10. Support.....	32



1. Introduction

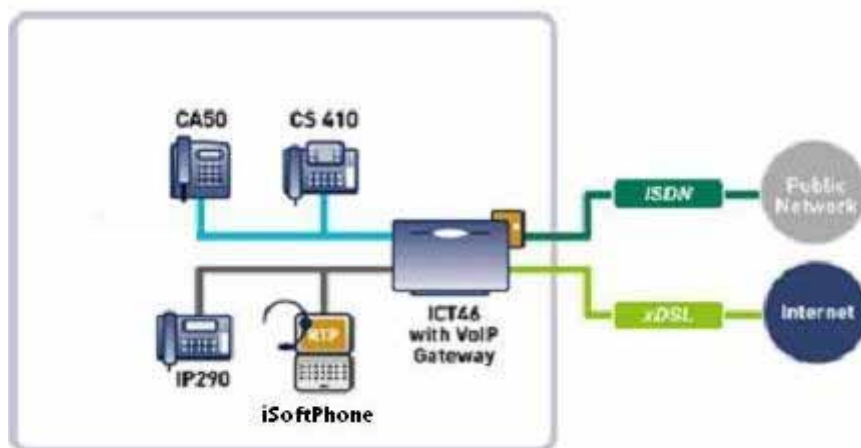
These Application Notes describe the configuration steps for using the iSoftPhone 1.2 with elmeg ICT/T4x4 PABX. General administration information can be found in the product documentation. Products WEB sites:

- iSoftPhone – <http://www.call4mac.com>
- elmeg ICT/T4x4 – <http://www.funkwerk-ec.com>

2. Configuration

Elmeg ISDN and analog phones (Dect400, CA50, CS410) are physically connected to internal ports of the ICT. Elmeg IP290 phone, iSoftPhone and VoIP-VPN Gateway of ICT PABX are connected to the switch and are administered as a subnet. iSoftPhone 1.2 running on Apple operating system is configured to register as internal VoIP subscriber on elmeg ICT/T4x4.

The configuration used in the test is shown at the picture below.





3. Equipment and Software

The following equipment and software were used in the configuration.

EQUIPMENT	SOFTWARE
elmeg ICT880	2.16 RC2
elmeg T484	1.13
elmeg VoIP-VPN Gateway	1.16 RC8
elmeg M 8 DSP Modul	N/A
elmeg IP-290	V4.16
elmeg CS-410	V4.16
iSoftPhone	1.2
Apple Macintosh	MacOS X 10.4.9

4. Supported features

The table below gives a summary of the features available on the iSoftPhone 1.2. Some of them are supported locally at the iSoftPhone and others are only available with elmeg ICT/T4x4.

FEATURE	SUPPORTED		COMMENTS
	Locally at the phone	With elmeg ICT/T4x4	
Extension to extension call	No	Yes	
Basic call to legacy phones	No	Yes	
Call waiting	Yes	Yes	
Do Not Disturb	No	No	
Speed Dialing	No	Yes	
Call Hold	Yes	Yes	
Consultation Hold	Yes	Yes	
Music on Hold	No	Yes	
Unattended Transfer	No	No	
Attended Transfer	No	No	
Call Forward Unconditional	No	Yes	



Call Forward Busy	No	Yes	
Call Forward No Answer	No	No	
Call Park/Unpark	No	No	
Automatic Redial	No	No	
Call Pickup	No	Yes	
Call Pickup from specific subscriber	No	Yes	
Last Number Dialed	Yes	Yes	
Malicious Call Trace	No	Yes	
Malicious Call Trace Cancel	No	Yes	
Trunk bundle selection	No	Yes	
Call data recording	No	Yes	
Selectable line access authorization	No	Yes	
Calling authorization	No	Yes	
Automatic outside line	No	Yes	
Restricted/unrestricted numbers	No	Yes	
Transmit exchange/internal access code	No	Yes	
Least Cost Routing (LCR)	No	Yes	
Team Functions	No	Yes	

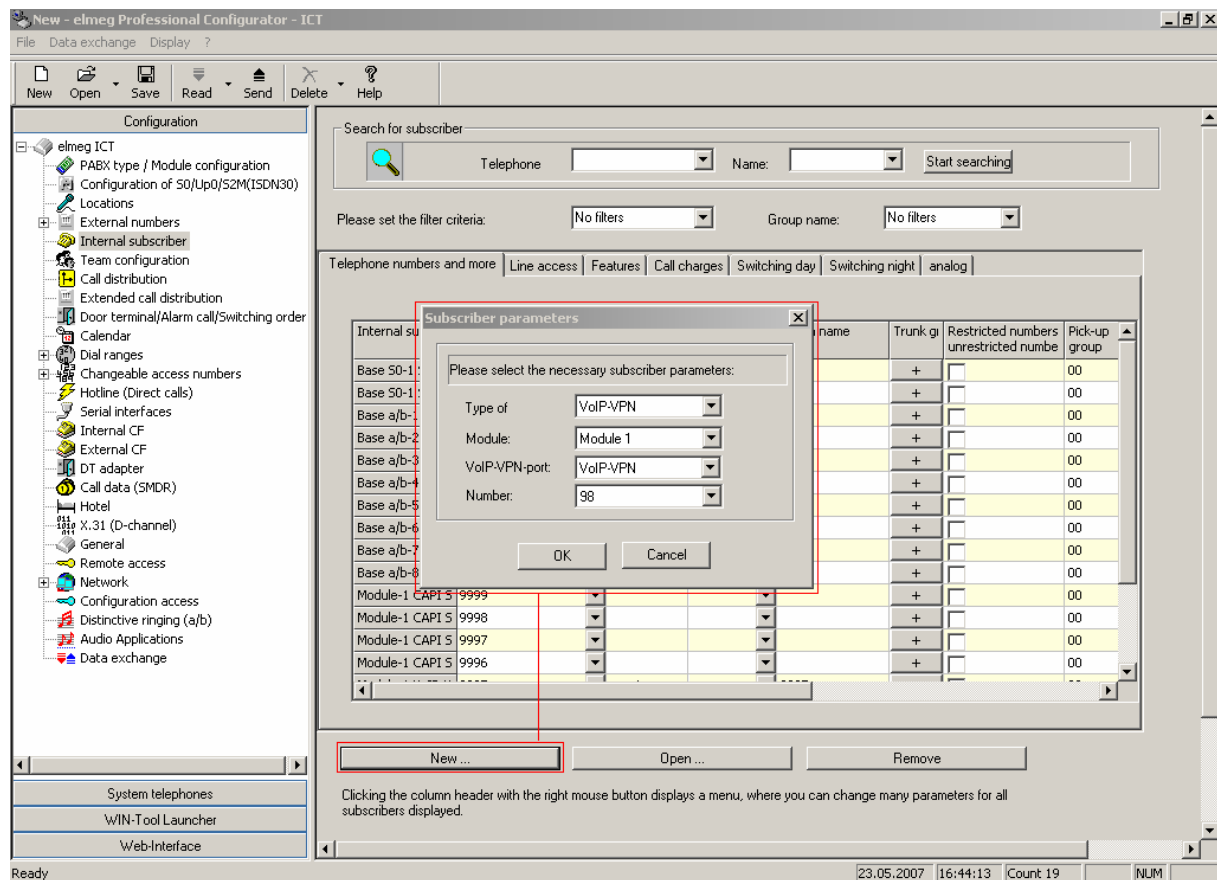
Notes:

- DTMF is not supported
- only attended transfer to iSoftPhone is possible
- no calling signal in the handset when calling to iSoftPhone subscriber

5. Configuration on the elmeg ICT

5.1. Creating a new internal VoIP subscriber

In the elmeg Professional Configurator (Win-Tools) for the “Internal subscriber” configuration please select “New” button and set the type of subscriber to “VoIP-VPN”. Then set an internal telephone number for this subscriber (in the example it’s 98). Click “OK” when you are finished.

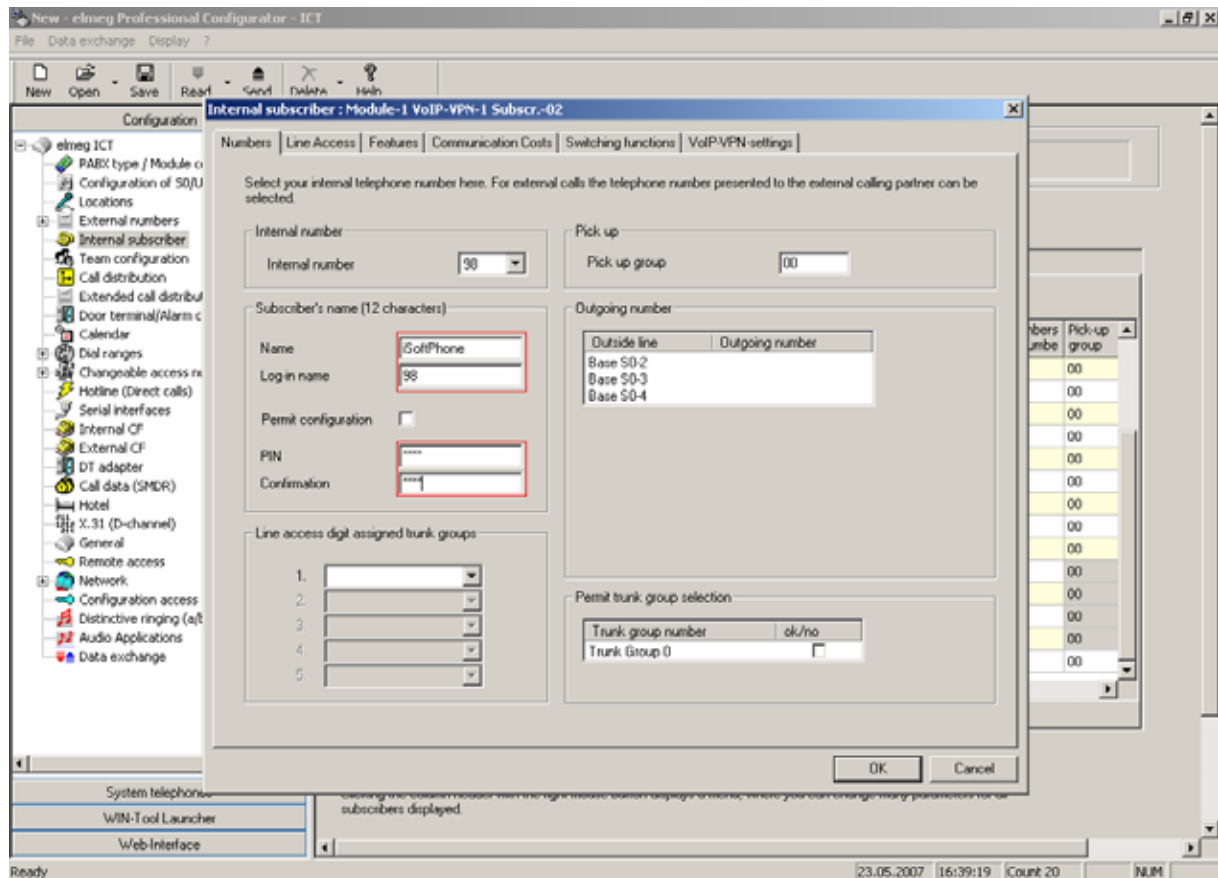


Next, double-click on the created VoIP subscriber to open new window with subscriber properties.

5.2. Internal subscriber “Numbers”

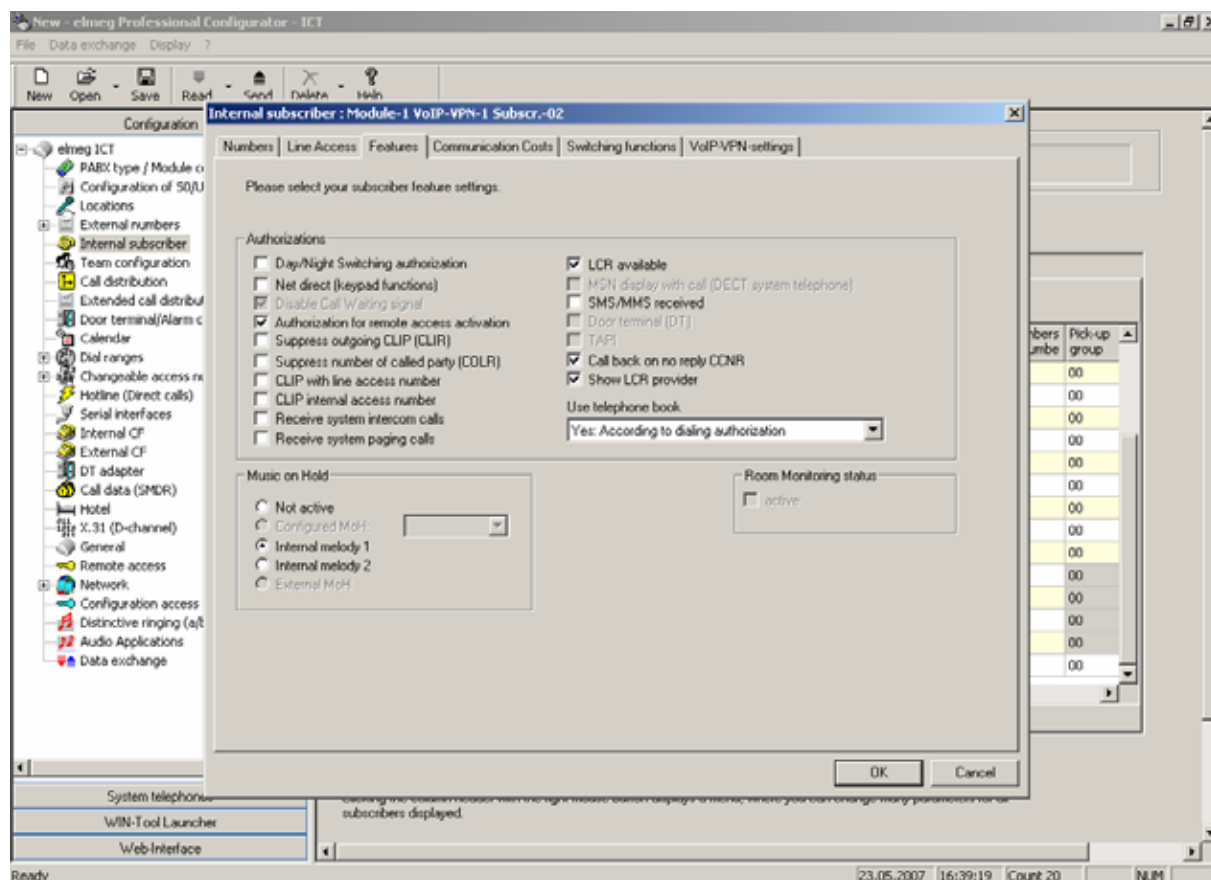
In the tab “Numbers” set the name, log-in (account) and PIN (account password) for the internal VoIP subscriber.

Important!!! Log-in name must be the same as the internal telephone number of the subscriber.



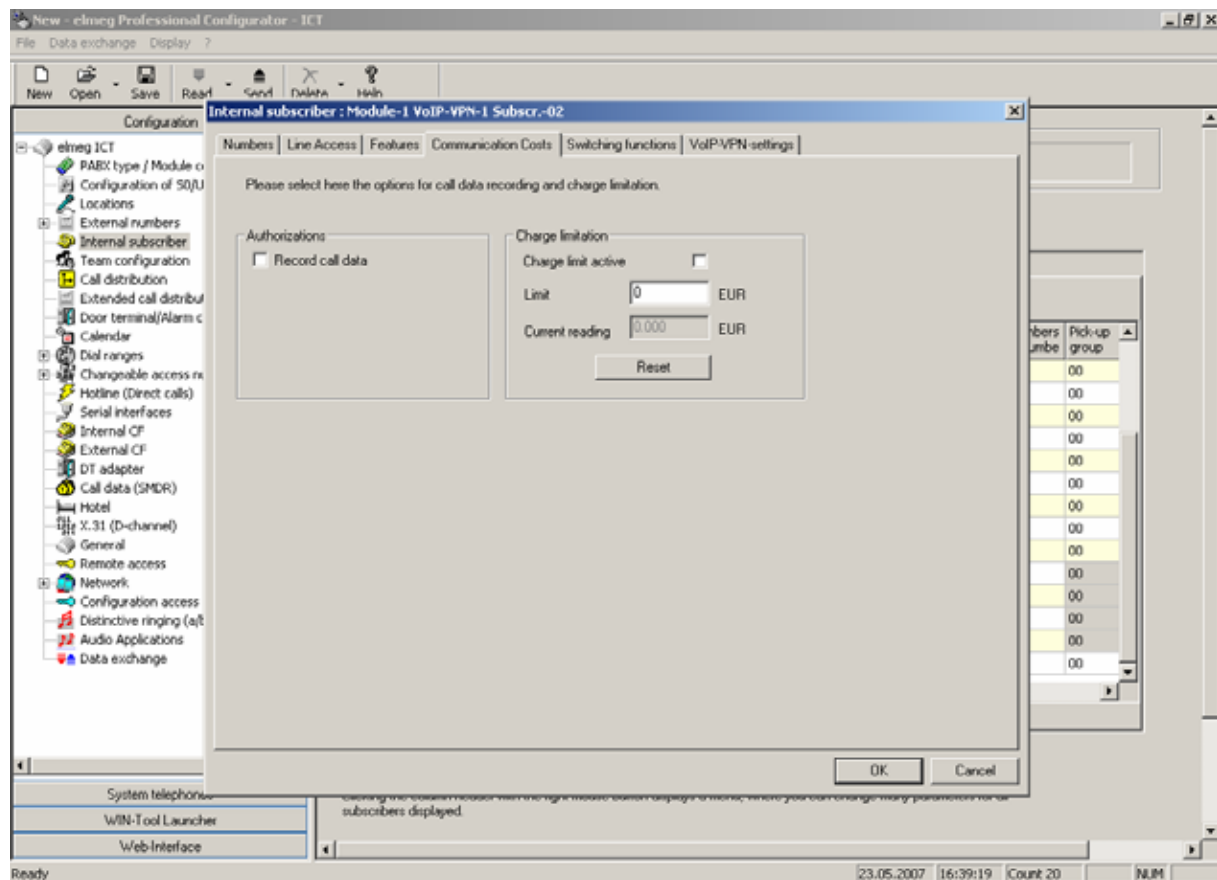
5.3. Internal subscriber “Line Access”

In “Line Access” tab please setup “Line access authorization” on “Unlimited”.



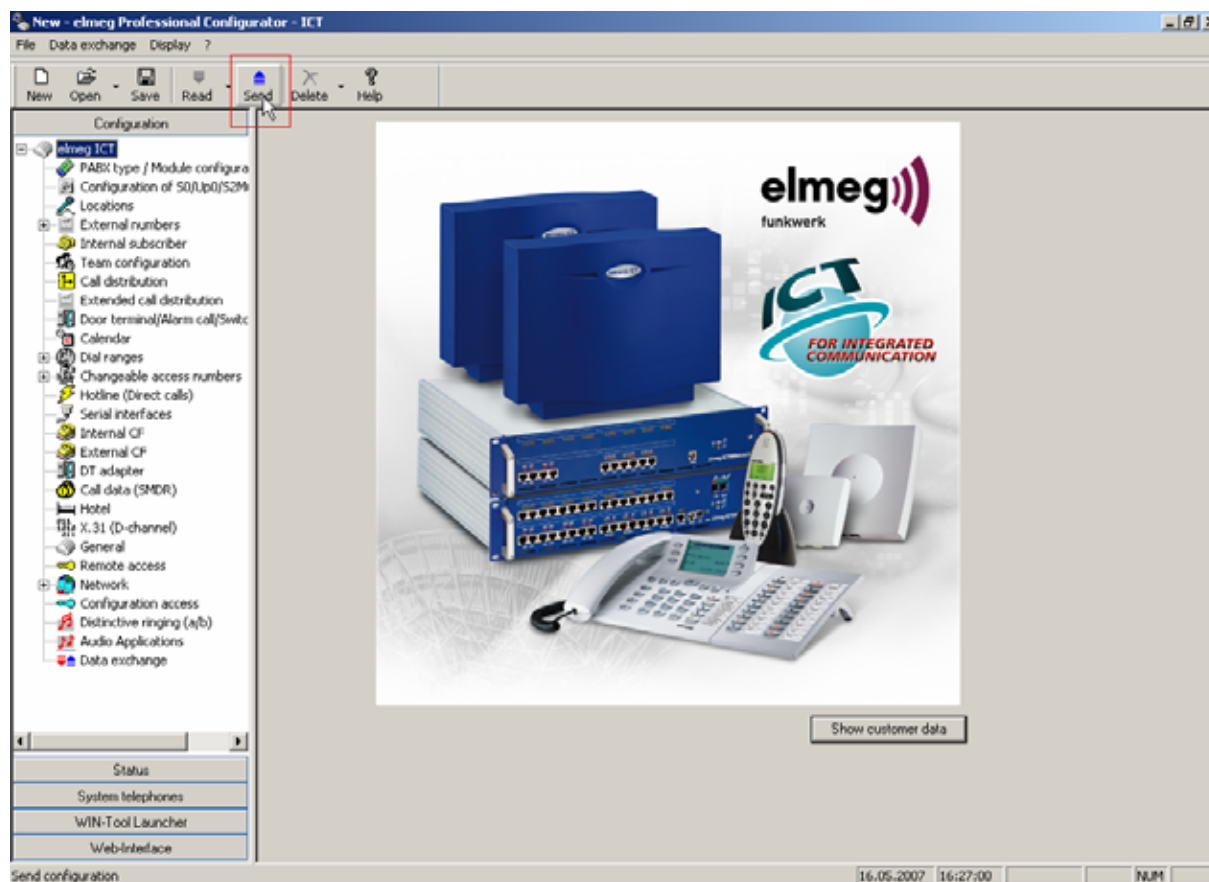
5.5. Internal subscriber “Communication Costs”

In “Communication Costs” tab please setup if record call data should be generated for this subscriber. This allows to collect billing and accounting records. Default settings were shown on the picture below.



5.6. Internal subscriber “Switching functions”

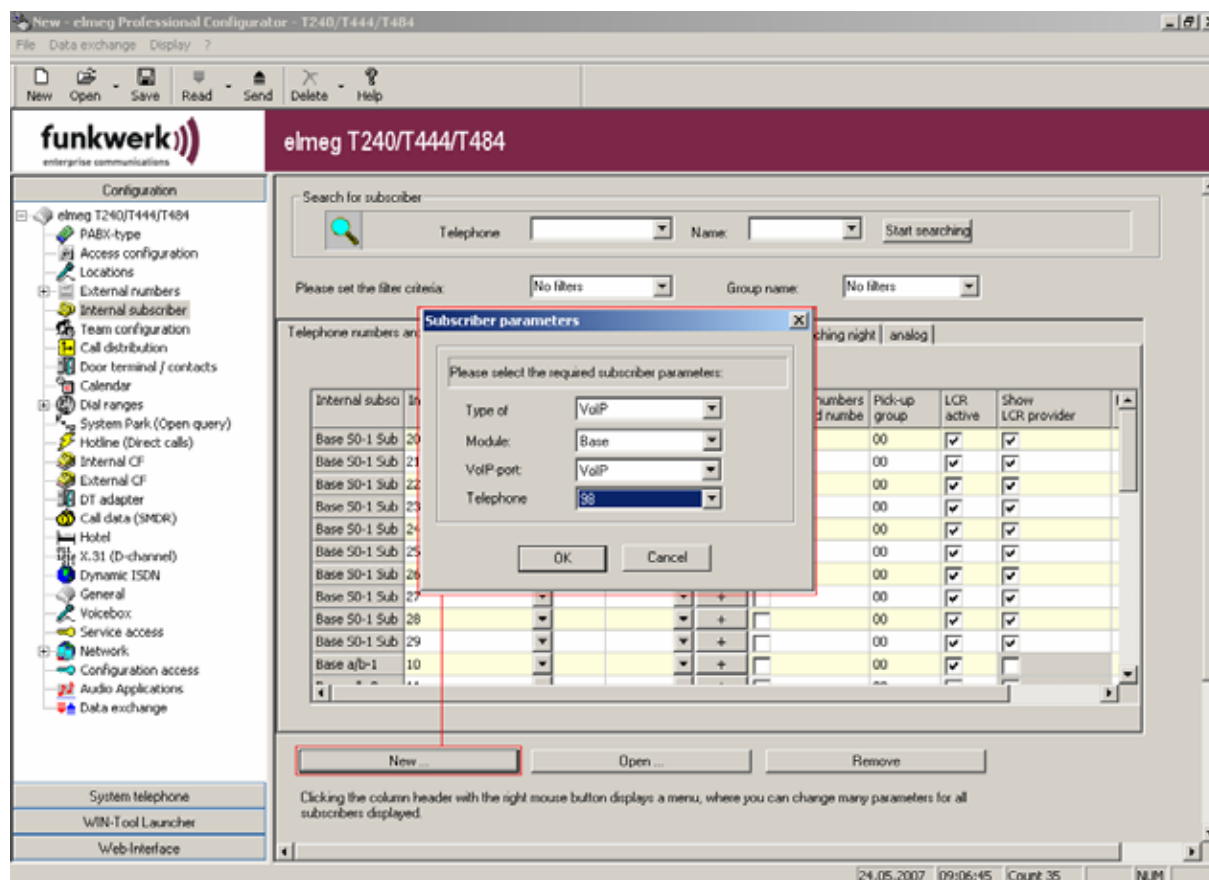
In “Switching functions” tab can be defined call routing. This allows to change the behavior for internal subscriber phone during day or night. Default settings were shown on the picture below.



6. Configuration on the elmeg T484

6.1. Creating a new internal VoIP subscriber

In the elmeg Professional Configurator (Win-Tools) for the “Internal subscriber” configuration please select “New” button and set the type of subscriber to “VoIP-VPN”. Then set an internal telephone number for this subscriber (in the example it’s 98). Click “OK” when you are finished.

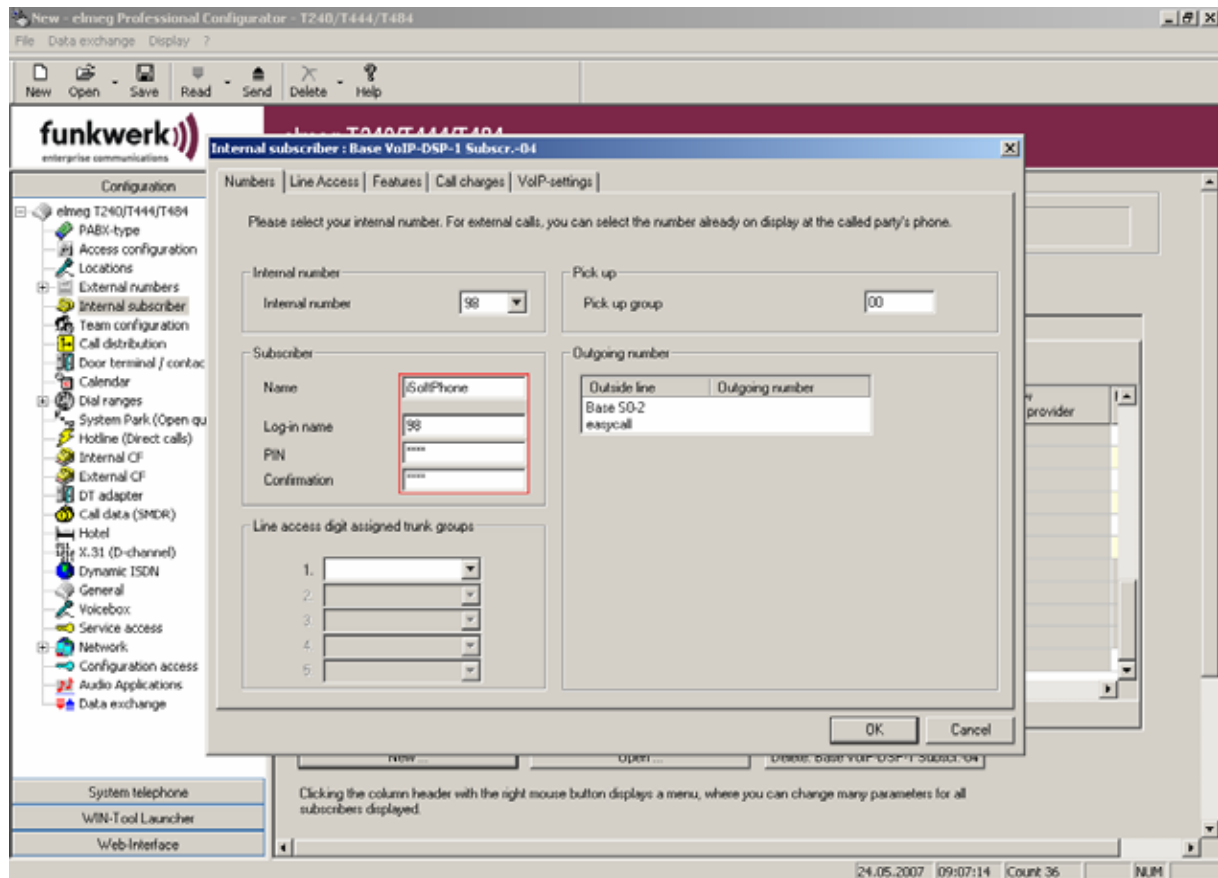


Next, double-click on the created VoIP subscriber to open new window with subscriber properties.

6.2. Internal subscriber “Numbers”

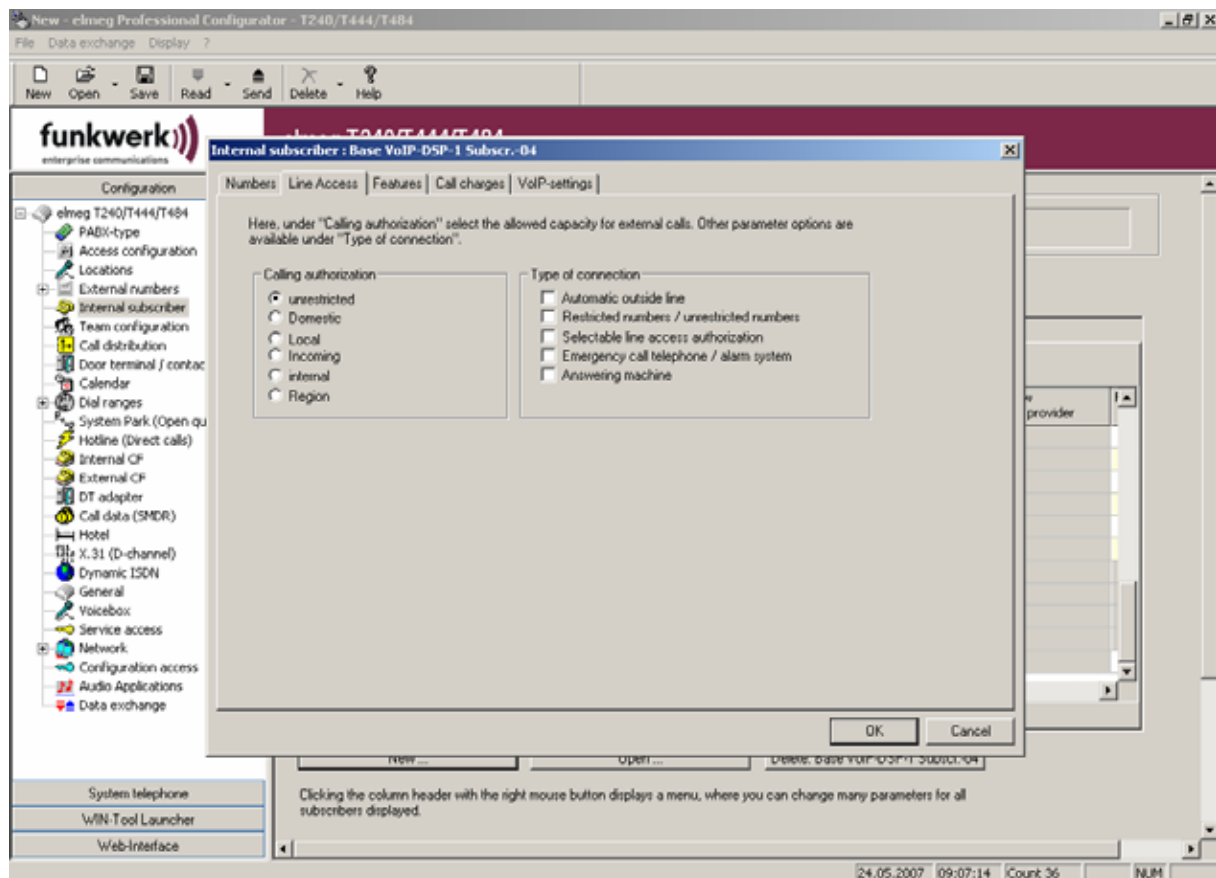
In the tab “Numbers” set the name, log-in (account) and PIN (account password) for the internal VoIP subscriber.

Important!!! Log-in name must be the same as the internal telephone number of the subscriber.



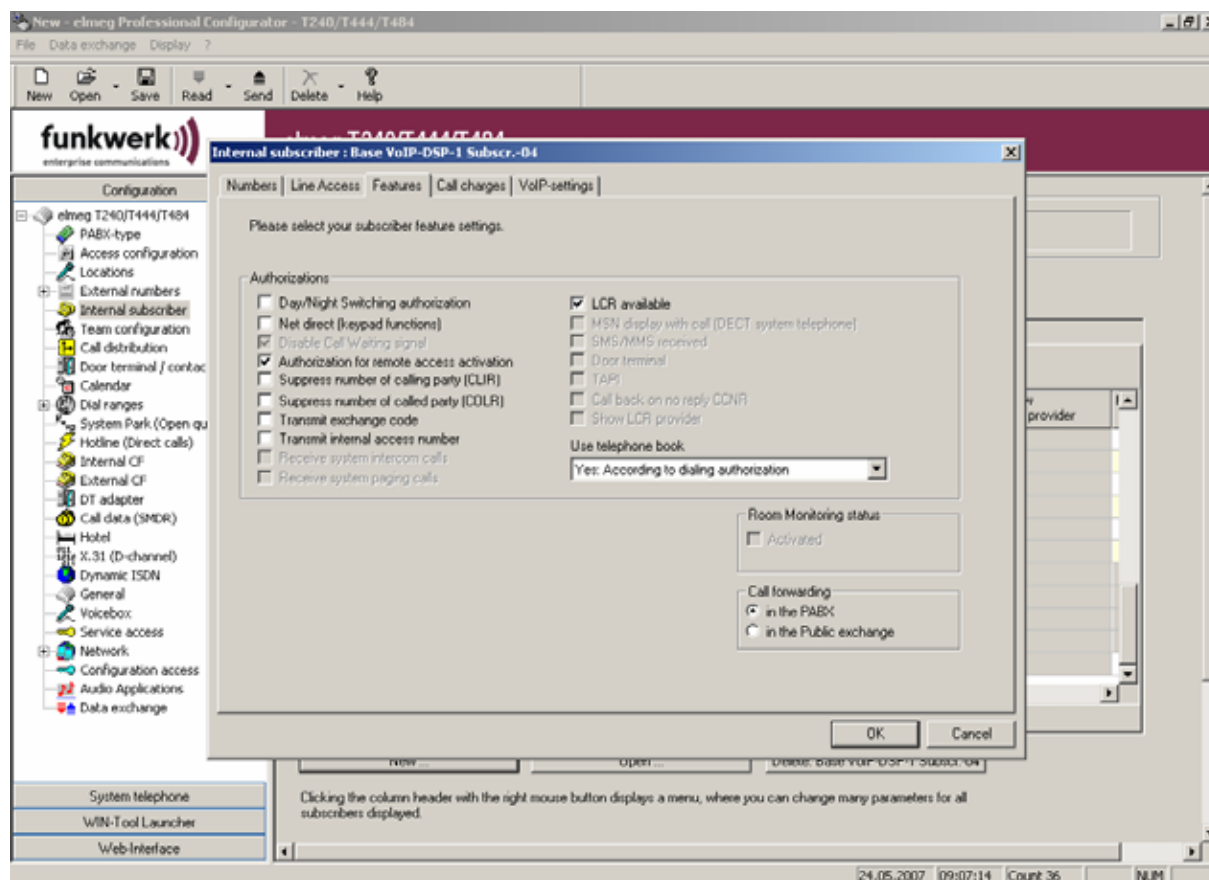
6.3. Internal subscriber “Line Access”

In “Line Access” tab please setup “Line access authorization” on “Unlimited”.



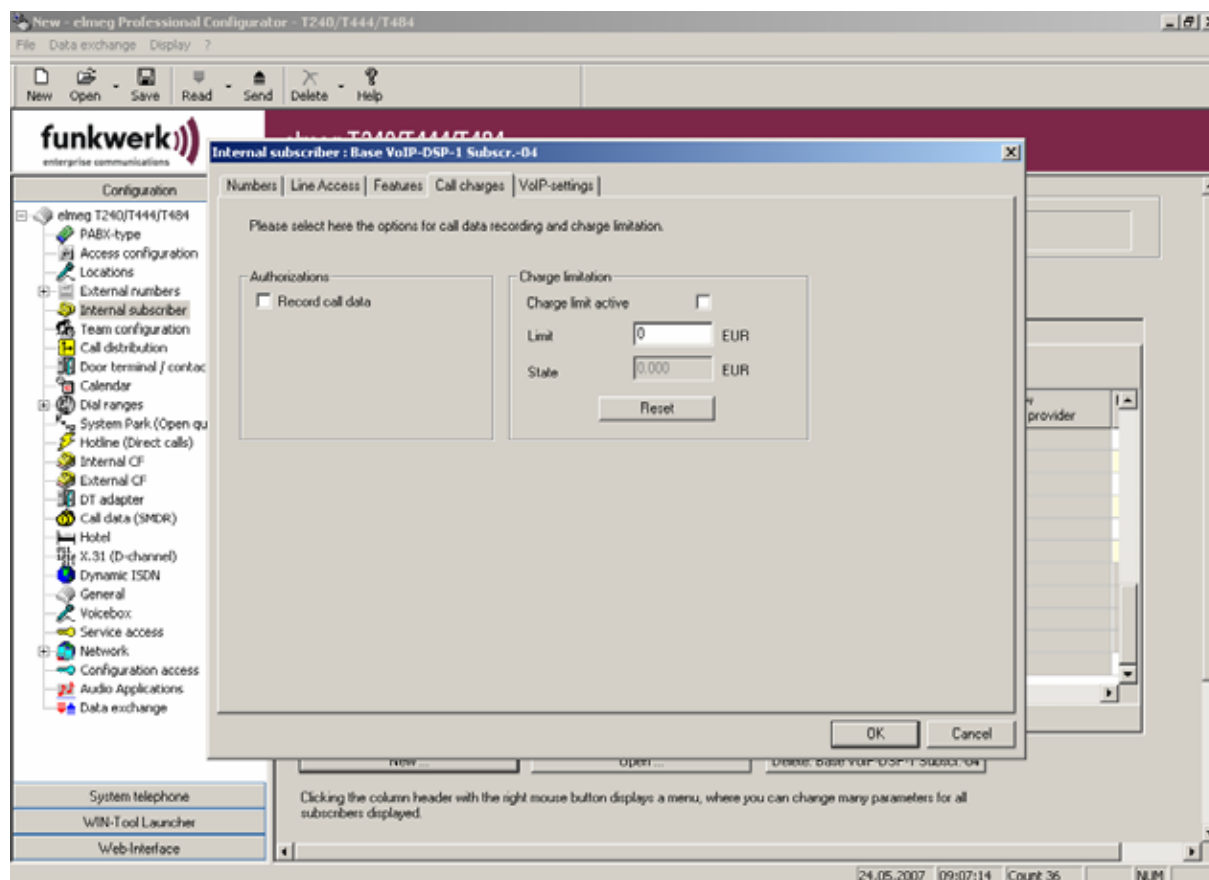
6.4. Internal subscriber “Features”

In “Features” tab please leave the parameter settings as default. It was shown on the picture below.



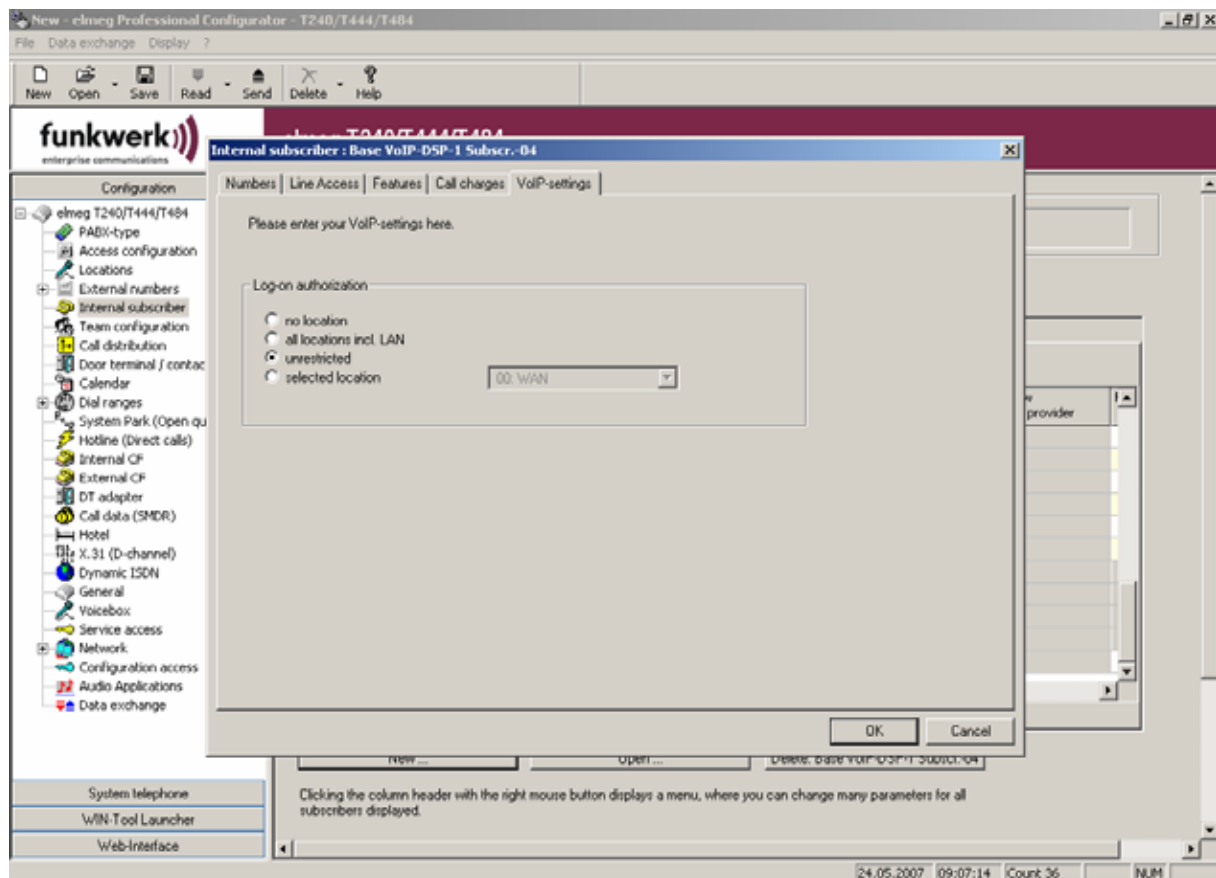
6.5. Internal subscriber “Call charges”

In “Call charges” tab please setup if record call data should be generated for this subscriber. This allows to collect billing and accounting records. Default settings were shown on the picture below.



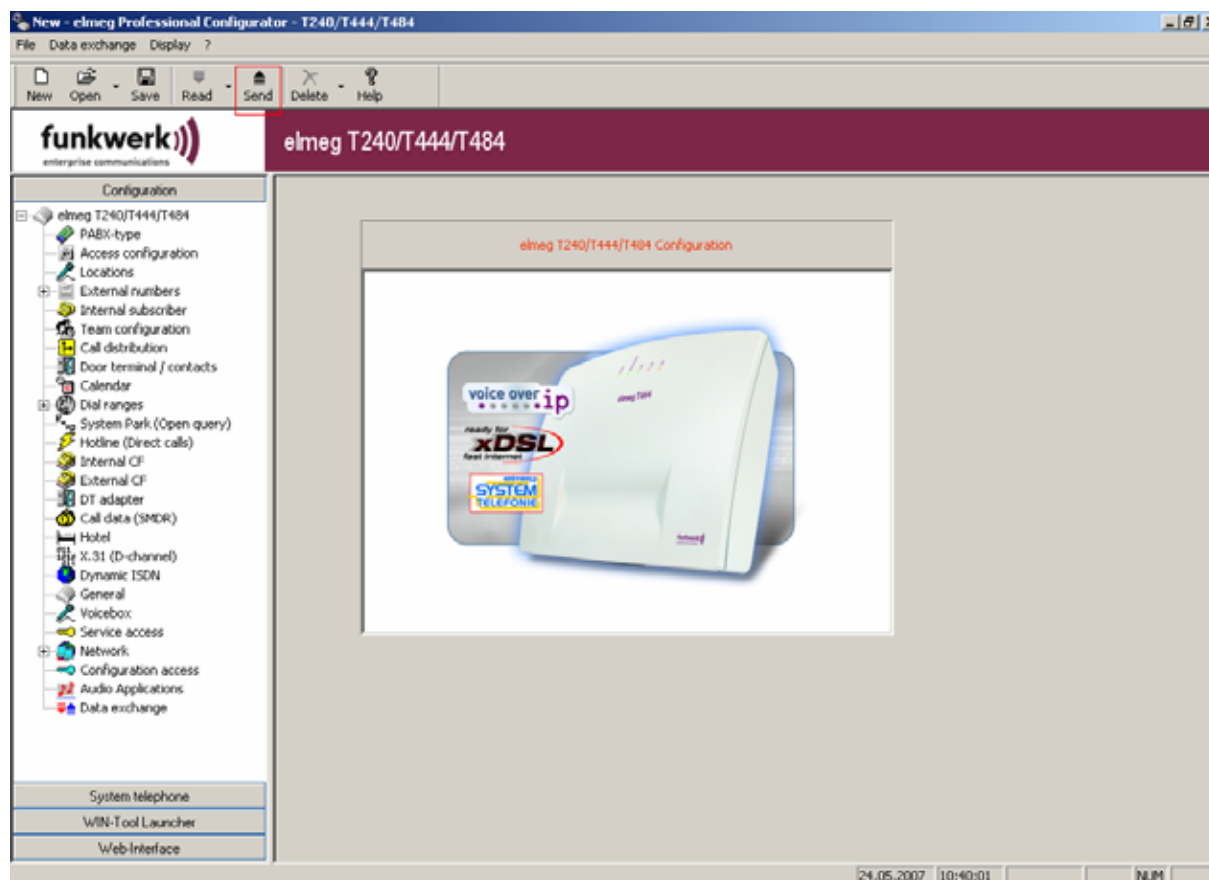
6.6. Internal subscriber “VoIP-VPN-settings”

In “VoIP-VPN-settings” tab can be selected log-on authorizations. This allows to log-on iSoftPhone for VoIP internal subscriber only from selected location (IP address or IP subnet). The best choice will be here “unrestricted”. The recommended settings were shown on the picture below.



6.7. Saving configuration on T4x4


Finally the configuration must be send to elmeg T4x4 PABX. This can be done by pressing “Send” from toolbar. It was shown in the picture below.



7. Configuration on iSoftPhone 1.2

Once iSoftPhone 1.2 is installed then SIP server settings must be configured.

7.1. Configuring SIP server account

To configure SIP server account please press the icon  from the bottom toolbar of iSoftPhone.



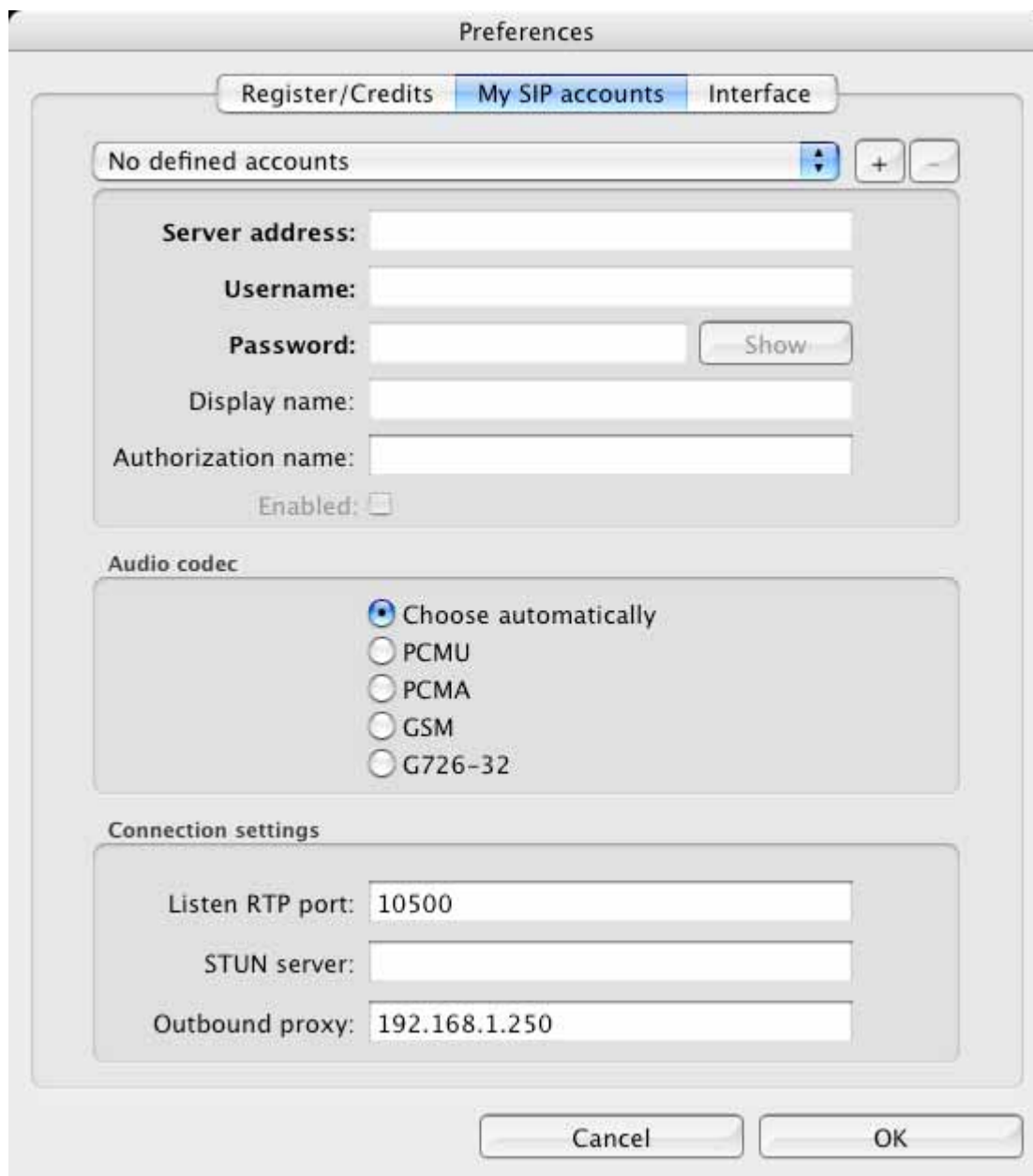
7.2. Preferences “Register/Credits”


In the new appeared “Preferences” window please select “My SIP accounts” tab.



7.3. Preferences “My SIP accounts”

The empty “My SIP accounts” tab was shown below.



To configure SIP account that was created on elmeg ICT PABX please press the icon  and fill up parameters as was shown below.

The screenshot shows the 'Preferences' dialog box with the 'My SIP accounts' tab selected. At the top, there are three tabs: 'Register/Credits', 'My SIP accounts', and 'Interface'. Below the tabs is a list of 'New SIP account (1)' with '+' and '-' buttons. The main area contains several fields: 'Server address' (192.168.1.250), 'Username' (98), 'Password' (masked with dots and a 'Show' button), 'Display name' (empty), 'Authorization name' (98), and 'Enabled' (checked). Below this is the 'Audio codec' section with radio buttons for 'Choose automatically' (selected), 'PCMU', 'PCMA', 'GSM', and 'G726-32'. The 'Connection settings' section includes 'Listen RTP port' (10500), 'STUN server' (empty), and 'Outbound proxy' (192.168.1.250). At the bottom are 'Cancel' and 'OK' buttons.

After all please confirm settings by pressing “OK” button.

7.4. Registration on SIP server account



Once SIP account settings were configured then iSoftPhone will try to connect and register on elmeg ICT PABX. The process was shown below.




When all parameters were configured properly and iSoftPhone successfully registered on elmeg ICT then application window will look as shown below.



Congratulations! You have successfully configured iSoftPhone with elmeg ICT PABX.


8. Making calls

Making calls from iSoftPhone is easy! Just enter the number to dial and hit <ENTER> or press  button. Below was shown sample call process for dialed number 99.



Once the connection is established then iSoftPhone display's will look like shown below.



To finish the connection just hit <ESC> or press  button. Once the connection is finished then iSoftPhone display's will look like shown below.



9. Verification steps

All features shown in table in chapter 4 were tested using the sample configuration. The following steps can be used to verify and/or troubleshoot installations in the field.

1. Configure internal VoIP subscriber on ICT/T4x4 PABX for the iSoftPhone. After configuring the iSoftPhone, verify that the “Logged in...” message appears in the upper left corner of the display, indicating that registration has occurred.



2. Verify that the extension shown in the brackets (in our examples <98>) is the desired value.
3. If “Not logged to server.” is displayed,



use the following to troubleshoot the problem: Check in Preferences “My SIP accounts” settings if the correct IP address of elmeg ICT/T4x4 PABX is entered. If “Connecting...” is displayed for a long time



please check that username and password is correct entered for this account in Preferences “My SIP accounts”.

4. Verify basic feature by making calls to other phones. If audio cannot be heard from an iSoftPhone, check the firewall/NAT settings to make sure that ports for VoIP communication are not blocked.
5. Test supported features according to table in chapter 4 and feature deployment plans at the site.

10. Support

For technical support of iSoftPhone please contact:



Internet: <http://www.call4mac.com/isoftphone/support.html>

E-mail: mac_support@xdsnet.de