



A MITEL
PRODUCT
GUIDE

Unify OpenScape 4000

BLF-Win 3.0

Busy Lamp Field-Win BLF-Win 3.0

Service Manual

11/2020

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1 Important Information

1.1 Safety Information




The following information is intended for service personnel and authorized specialists. **Only** these persons are permitted to work on the installation.

Read through all information on the equipment carefully, and follow all safety instructions. Make sure you know the emergency numbers.

Always contact your supervisor before starting work if the necessary safety measures do not appear to be in place (e. g. risk of gas explosion, humidity).

Safety symbols

This manual uses the following symbols to indicate potential hazards:

-  **DANGER** This symbol warns that a situation may cause death or serious injury.
-  **WARNING** This symbol indicates hazard which may lead to serious injury.
-  **CAUTION** This symbol indicates a risk of damage to hardware or software.

NOTE: This symbol identifies useful information.

Further symbols for defining the source of danger in greater detail¹:



* Electrostatically Sensitive Devices

1. These symbols are not generally used in this manual. They're an explanation of the symbols that can be depicted on the systems.

1.1.1 Safety Information: Danger

- Before starting the installation and connecting the subscribers, the installation must be correctly connected to the protective conductor.
Never operate the equipment with the ground wire disconnected.
- Voltages above 30 V AC (alternating current) or 60 V DC (direct current) are dangerous.
- If the power cable appears to be damaged, replace it immediately.
- Immediately replace any damaged safety equipment (covers, labels and protective cables).
- If maintenance work requires the power supply of the system to be shut down,
 - use the shut-off switch to disconnect the system from the power supply circuit and secure the disconnect device mechanically so that it cannot be used by other persons.
 - Attach a sign reading “DO NOT OPERATE” to the disconnect device.
A disconnect device can be a shut-off switch (main switch) or circuit-breaker (fuse/automatic circuit-breaker).
 - Before starting any work on the installation, find out where the system’s disconnect device is located.
- If you are performing work on circuits with hazardous voltages, always work together with a partner who is familiar with the location of the switch for the power supply.
- Always ensure adequate insulation when touching powered circuits.
- Ensure that the installation is not powered by an additional power supply, or protected via an additional fuse or additional main switch.
- Before starting any work, check whether the corresponding circuits are still on power. Never take it for granted that all circuits have reliably been disconnected from the power supply when a fuse or a main switch has been switched off.
- During a thunderstorm, you should not connect or remove telephone lines or boards.
- Expect to encounter leakage current from the telecommunication network.
- Ensure that, whenever work is carried out on an open installation, the installation is never left unsupervised.

1.1.2 Safety Information: Warning

- There is the risk of an explosion if the lithium battery is not replaced correctly. The lithium battery must be replaced only by the same or equivalent types recommended by the dealer.
- Be aware of additional dangers with low voltages and large cross-sections. Cables with a large cross-section generally have lower voltages, although the current strengths are higher. This is particularly dangerous, e.g. in the event of short circuits.
- When working on the installations, never wear loose clothing and always tie back long hair.
- Never wear jewelry, for example or metal watch straps, metal fittings or metal rivets on items of clothing. There is a risk of injury and short circuits.
- The surface of a mirror is conductive. Never touch powered components with a mirror; you may injure yourself and/or at least cause short-circuit damage.
- Always wear the necessary eye protection whenever appropriate.
- Always wear a protective helmet where falling objects might injure you.
- Always disconnect the power supply when you are working directly next to a power supply unit or direct current converter, unless the work instructions expressly permit you to work without shutting off the power.
- Never try to lift heavy objects without assistance.
- Never look directly at a laser beam.

1.1.3 Safety Information: Caution

- Check the nominal voltage set for the equipment (operating instructions and type plate).
- As long as the power supply is switched on, always observe the greatest caution when performing measurements on powered components and maintenance work on plug-in cards, boards and covers.
- To protect electrostatically sensitive devices (ESD):
 - Wear a wristband before carrying out any work on PC boards and modules. Connect the alligator clip at the end of the electrostatic wristband wire to a grounded object.
 - Transport PC boards only in suitable protective packaging.
 - Always place PC boards on a grounded conducting base, and do not work on the PC boards anywhere else.

Important Information

Safety Information

- Only use grounded soldering irons.
- Only use tools and testers suitable for the job. Do not use broken tools and testers, inspect them regularly.
- Locate the main switch for the power supply and follow the instructions affixed to it.
- Cables should be installed so that they do not pose an accident risk (i.e. will not trip anybody up) or are damaged.

1.1.4 General Information

- If the installation is brought into the operating site from a cold environment, condensation may occur. Wait until the temperature of the installation has adjusted to the ambient temperature and until the installation is absolutely dry before you start it up.
- Before starting wall assembly, check whether the load-bearing capacity of the wall is adequate, e. g. in the event of plasterboard walls.
- When the installation or maintenance is completed, replace all safety equipment in the correct location.
- Check your tools regularly. Only use intact tools.
- Close the doors after finishing testing, maintenance, or installation.
- All cables and lines which leave a system cabinet must be screened at least between the connection point in the cabinet and the point at which the cable leaves the cabinet.
Use a clip and pressure screw to contact all shield fabric to the cabinet outlet. This also applies to permanently connected service equipment.
- Cables should only be connected to the specified connection points.
- Do not install any external modems in the installation cabinets.
- Do not allow flammable materials to be stored near the installation or in the installation room.
- Ensure good lighting at the workplace.
- Untidiness at the workplace involves the risk of injuries.

1.1.5 What To Do in an Emergency

- In the event of accidents, remain calm and controlled.
- Always switch off the power supply before you touch an accident victim.
- If you are not able to switch off the power supply immediately, only touch the victim with non-conducting materials (e. g. a broom handle made of wood), and first of all try to isolate the victim from the power supply.
- You must be familiar with first-aid practices in the event of electricity injuries. A fundamental knowledge of the various resuscitation methods if the victim has stopped breathing or if the victim's heart is no longer beating, as well as first aid for treating burns, is absolutely necessary in such emergencies.
- If the victim is not breathing, immediately perform mouth-to-mouth or mouth-to-nose resuscitation.
- If you have appropriate training, immediately perform heart massage if the victim's heart is not beating.
- Immediately call an ambulance or the emergency doctor. Provide the following information in the following sequence:
 - Where did the accident take place?
 - What happened?
 - How many people were injured?
 - What type of injuries?
 - Wait for questions.

1.1.6 Reporting Accidents

- Immediately report all accidents, "near accidents" and potential sources of danger to your manager.
- Report all electrical shocks, no matter how small.

1.2 Data Protection and Data Security

This system also processes and uses personal data, e.g. for call charge metering purposes, displays and for recording subscriber data.

In Germany, the processing and use of such personal data are subject to various regulations, including the regulations of the Federal Data Protection Law (Bundesdatenschutzgesetz = BDSG). Observe all applicable laws in other countries.

The aim of data protection is to ensure that the rights of individuals are not infringed upon through the use of their personal data.

By protecting data against misuse during all stages of processing, privacy legislation also protects the material interests of the individual and of third parties.

Members of Unify and Unify Rolm staff are required to observe business and data secrecy as a result of the company's work rules.

In order to ensure that the statutory requirements during service – (whether on-site or remote) – are consistently met, you should always observe the following rules. This safeguards the interests of the customer and offers added personal protection.

Contribute to data protection and data security with your conscientious action:

- Ensure that only appropriately authorized persons have access to customer data.
- Take full advantage of password allocation options; do not inform un authorized persons of passwords, e.g. by means of a written note.
- Ensure that no un authorized person is able to process (store, modify, transmit, disable, delete) or use customer data in any way.
- Prevent un authorized persons from gaining access to data media, e.g. on backup diskettes or log printouts. This applies to service calls as well as to storage and transport.
- Ensure that data media which are no longer required are completely destroyed. Ensure that documents are not generally available.

Work together with your contacts at the customer's company: this creates mutual confidence and reduces your own workload.

1.3 Typographical Conventions

For the sake of clarity the following typographical conventions have been used throughout this manual:

	indicates important information on the correct handling of the system.
bold font	indicates commands or menu items
<i>italic font</i>	indicates paths or program names
1. 2.	lists steps that you must execute

Important Information
Typographical Conventions

2 Introduction

BLF-Win (Busy Lamp Field) is a control and display program that provides information on the status of the subscribers or subscriber groups configured in a telephone system.

2.1 General Information

The *Busy Lamp Field* program displays the ringing states of the configured subscribers and subscriber groups.

The main functions of the BLF-Win client are:

- Color status indicator of the subscriber line:
 - Idle
 - Ringing
 - Out of service
 - Busy
 - not existing
- Customized configuration and design of the program window
- Configuration of subscribers and subscriber ranges
- Call forwarding
- Note function provided when subscribers and subscriber ranges are created. The note appears in the fast tip.
- Networkwide solution: one BLF-Win Server can handle more switches in corporation with CAP V3.0 SCCP interface.

Note:

BLF-Win 3.0 does not support

- Hunt groups
- Executive/Secretary combination
- ISDN-access
- Fixed call forwarding (until BLF-Win V3.0 CV009)

For a detailed description of the functions, please refer to the BLF-Win operating manual.

2.2 BLF-Win Documentation

The BLF-Win documentation describes version 3.0 and consists of two parts:

- BLF-Win Client Operating Instructions
- BLF-Win Server Service Manual (this manual)

The service manual covers the following:

- Instructions on how to set up the connection to the CAP server
- Instructions on how to install *BLF-Win*
 - Hardware and software requirements
 - Installation of the BLF-Win server and client software
- An overview of the BLF-Win server functions

2.3 Overview of the BLF-Win 3.0 Product

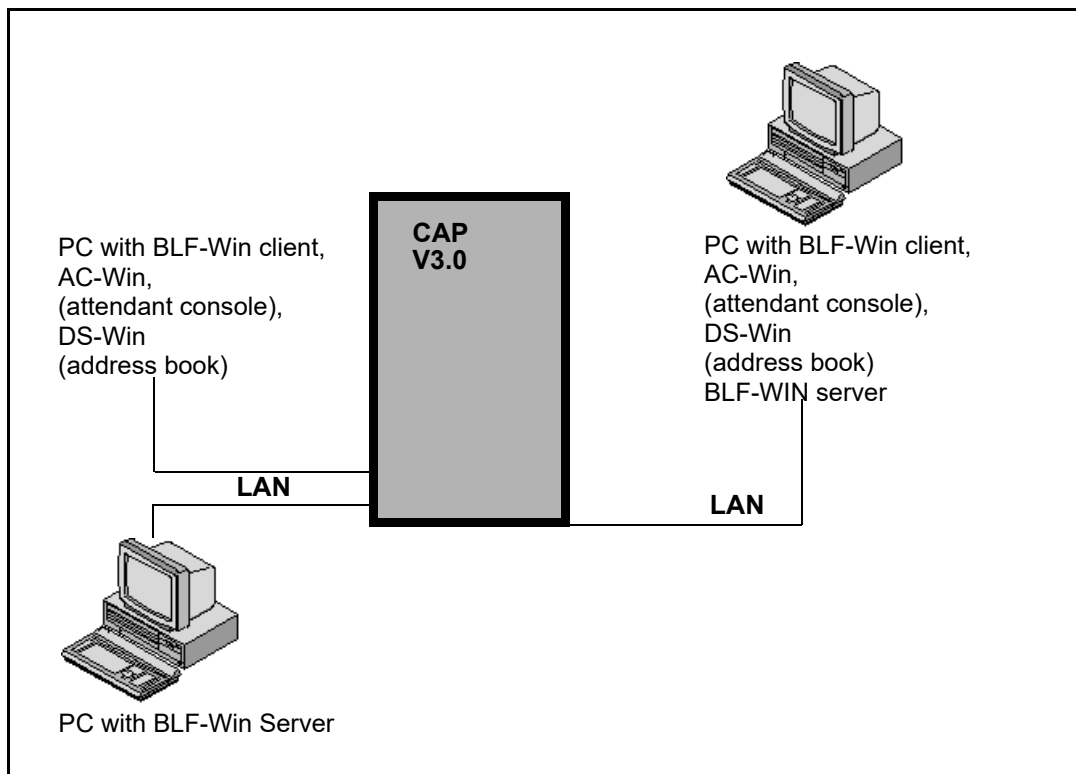
This overview refers to version 3.0 of the product described in this Service Manual:

Feature	<i>BLF-Win 3.0</i>
Telephone systems	supported by CAP V3.0
Operating systems	Please see the Release Notes for current supported Windows versions.
CAP V3.0 connection	LAN interface

2.4 Configuring BLF-Win 3.0

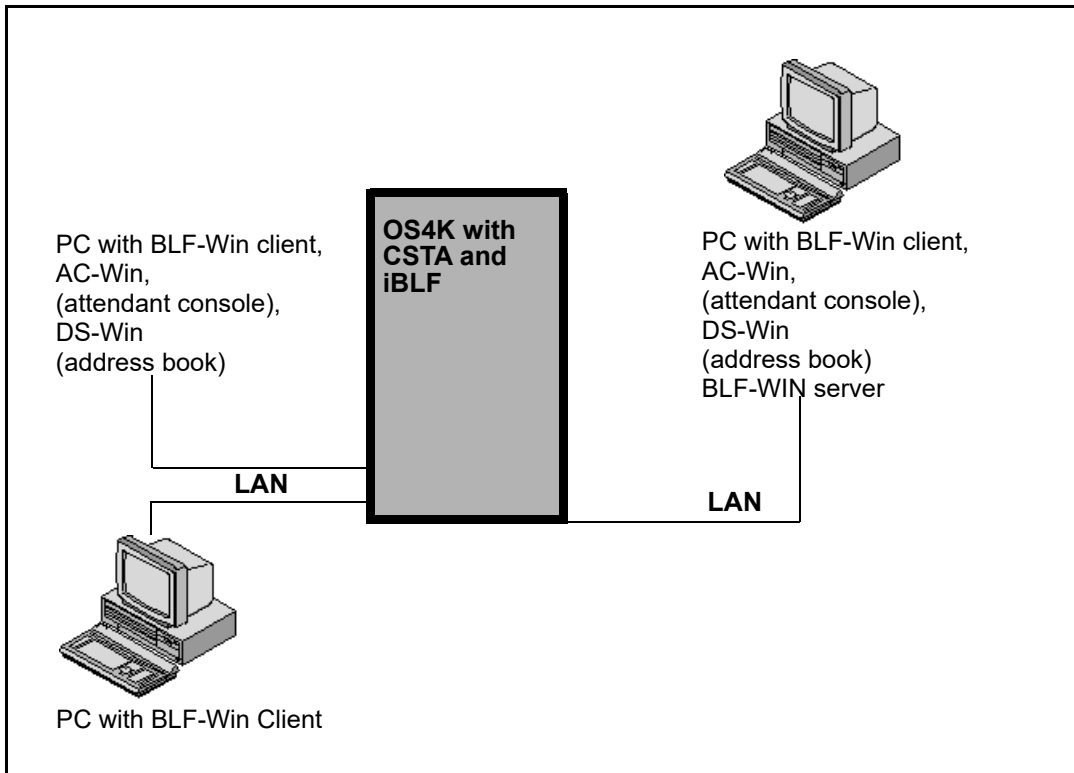
2.4.1 Configuring BLF-Win 3.0 using CAP V3.0

The BLF computer is connected to a CAP system via a LAN interface. The BLF-Win server can run on the same PC as the BLF client, AC-Win and DS-Win. But it can also run on a different PC.



2.4.2 Configuring BLF-Win 3.0 using iBLF

The BLF computer is connected to OpenScape 4000 with enable iBLF via a LAN interface. In this case the BLF server is integrated into the OpenScape 4000 system.



2.5 Implementing Windows

Throughout this manual we assume that you are familiar with Windows and how to use it. For further information on the functions of Windows, please refer to the *Windows User Manual*.

3 Hardware and Software Installation

3.1 General Information

- A BLF PC only supports communication type (LAN).
- Power save mode must not be enabled on the BLF PC (BIOS setup). A screen resolution of at least 1280 x 1024 is recommended as certain dialog boxes are not fully visible with lower resolutions.
- Use the „TrueColor“ setting to ensure a correct colour display.

3.2 Installing the BLF-Win PC

3.2.1 PC Hardware (Minimum Requirements)

- Pentium III processor, 550 MHz
- Main memory: 256 MB (128 BLF-Server/64 BLF-Client/64 AC+DS-WIN)
- 2x free PCI Slots (1x LAN 1x AC Karte)
- 1x LAN card e.g. 3Com Ether Link 3C905
- IDE hard disk 1.2 GB min.
- IDE CD-ROM drive 16xspin
- Graphics controller 1 MB on board (True Color)
- AC-Win 3.0 or Optiset
- a 19" monitor with a resolution recommended of 1280x1024
- KBPC B keyboard
- MS compatible mouse (PS2)

3.2.2 PC-Software

- AC-Win IP 2Q V2.0
AC-Win IP MQ V2.0
AC-Win SL 2Q V3.0
AC-Win SL MQ V3.0
- DS-Win V4
- Bios settings:
Boot Plug and Play OS=No
Power=APM=Disabled

3.2.3 LAN Card

An Ethernet network card of the type Ether Link 3COM Combo (S26361-F1952-L1) must be installed in the PC for connecting via Ethernet. The network card should be supported by the operating system with the relevant driver software or the drivers should be supplied by the card manufacturer.

NOTE: You must ensure that surfeits do not occur with other hardware with regard to interrupts and I/O addresses.

One LAN card is required for the server PC:

1. For the connection to the CAP V3.0 and to the customer LAN (to support BLF-Win Clients)

Hardware and Software Installation

Installing licenses for BLF-Win using HiPath CTI

3.3 Installing licenses for BLF-Win using HiPath CTI

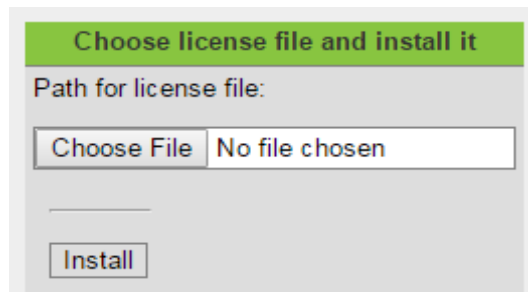
License management functions are provided under the License Management menu in HiPath CAP Management. The administrator can manage licenses for using the HiPath CTI system: install license keys, display available licenses, assign licenses to users, and uninstall license keys. Every BLF-Win Client is delivered with 1000 licenses. This means that it is possible to monitor up to 1000 station using one BLF-Win Client. If more than 1000 stations have to be monitored, additional BLF-Win Clients have to be ordered.

3.3.1 Install Licenses

Licenses are installed via license files. These license files are to be obtained from the same source as the HiPath CAP software. For Unify customers, this normally will be the factory delivering the CDs. Based on the purchase and delivery information, the administrator will be able to contact a web site at the factory to have license files generated for download. In order to prevent misuse, license keys are tied to the MAC ID of the HiPath CAP Management host. This is why that MAC ID must be provided as well for license generation.

Please note that demo licenses are provided with the HiPath CAP delivery; these are not tied to a specific MAC ID, and are valid for a limited time period only.

1. Obtain the license file and store it locally at any convenient place.
2. Select **Licenses**, and activate **Install** in the navigation frame.



3. Specify the absolute path of the license file in the dialog box.
4. Click **Install** to have the license file analyzed and the new licenses activated.

3.3.2 Display Licenses

Select **Licenses**, and activate **Show** in the navigation frame.

A summary is displayed as shown below.

The Overview table contains information on licensed applications, number of installed licenses and number of licenses in use / available, per application. The Details table shows specific data on each of the installed license keys.

The MAC ID FF-FF-FF-FF-FF-FF is used to identify demo license keys. The period of validity is started by first application of a demo key; accordingly, the remaining period of validity is displayed in the overview table in brackets, following the number of available licenses.

Overview licenses				Verify
Application	Installed licenses	Used licenses	Available licenses	
● CAP-E	100	0	100	
● CAP-S	100	2	98 (05/31/2017 17:57)	
● CAP-A	100	2	98 (05/31/2017 18:29)	
● ComAssistant	100	0	100	
● CAP-L	100	4	96 (05/31/2017 17:57)	

License keys installed							
Vendor	Application	Version	Customer	Date	Valid until	Installed licenses	MAC-Adr. / Serialno.
● ICN EN	CAP-E	V2.0	Evaluation	04/29/2003		100	FF-FF-FF-FF-FF-FF
● ICN EN	CAP-S	V2.0	Evaluation	04/29/2003		100	FF-FF-FF-FF-FF-FF
● ICN EN	CAP-A	V2.0	Evaluation	04/29/2003		100	FF-FF-FF-FF-FF-FF
● ICN EN	ComAssistant	V1.0	Evaluation	04/29/2003		100	FF-FF-FF-FF-FF-FF
● COM ESY	CAP-L	V3.0	Evaluation	06/07/2006		100	FF-FF-FF-FF-FF-FF

3.3.3 Assign Licenses

For assigning available licenses to individual users, two approaches are supported.

By default, users are granted a license implicitly when they log on to the system for the first time. The license is taken from the pool of available licenses and is assigned to the user (via user ID in HiPath User Management) from now on. If no license is available any more, the user cannot log on.

Alternatively, devices can be assigned licenses explicitly when they are created in HiPath Device Management (see Section 3.6, "Connection to CAP User management" on page 3-41) by the administrator. If no license is available any more, the administrator receives an error message during device creation.

1. Select **Licenses**, and activate **Assign** in the navigation frame to select the assignment policy.

The screenshot shows the UNIFY OpenScope CAP Management interface. The top navigation bar includes links for Service, User, Device, Licenses (highlighted), Data, Diagnosis, Security, Logout, and Help. The UNIFY logo is on the right. A left navigation pane contains links for Show, Assign (highlighted), Install, Uninstall, and Split-Up. Below the navigation pane is the OpenScope CAP Management logo. The main content area shows a 'Business Group' dropdown set to 'Standard' and a link for 'Overview of all business groups'. Below this is a section titled 'Please define how to assign licenses:' containing a table with columns for 'Application', 'at device administration', and 'implicitly during register license'. The table lists applications CAP-E, CAP-S, CAP-A, ComAssistant, and CAP-L. The 'implicitly during register license' column has checkboxes checked for all applications. A 'Save' button is located at the bottom of the table.

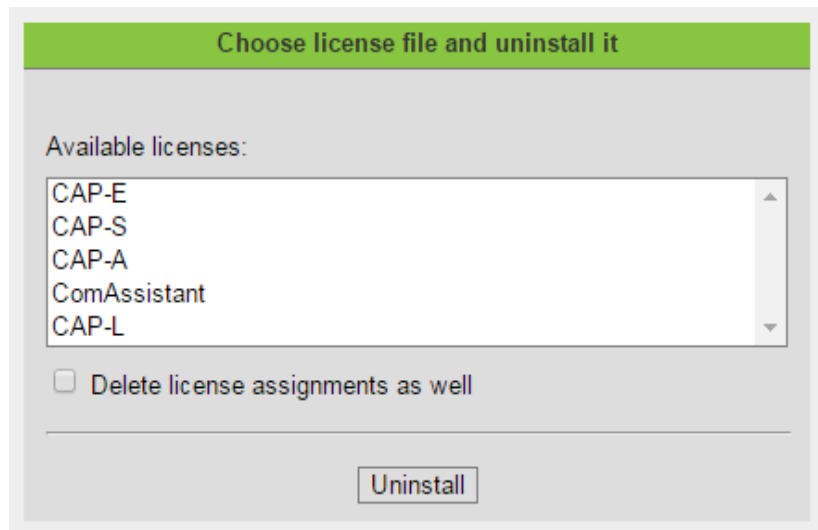
Application	at device administration	implicitly during register license
CAP-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CAP-S	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CAP-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ComAssistant	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CAP-L	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2. For any of the available license keys / applications, tick "implicitly during register license" to specify implicit assignment (first come - first served), or tick "at device administration" to specify explicit assignment (by administrator).
3. Click **Save** to confirm the selection.

3.3.4 Uninstall Licenses

It may be reasonable at some point in time to remove license keys that have been installed before.

1. Select **Licenses**, and click on **Uninstall** in the navigation frame to uninstall licenses.



2. Select the application for which the license key is to be uninstalled.
3. In case you want to retrieve the licenses about to be uninstalled from the users who might have been assigned these licenses before, tick "*Delete license from users*".
4. Click **Uninstall** to confirm the action.

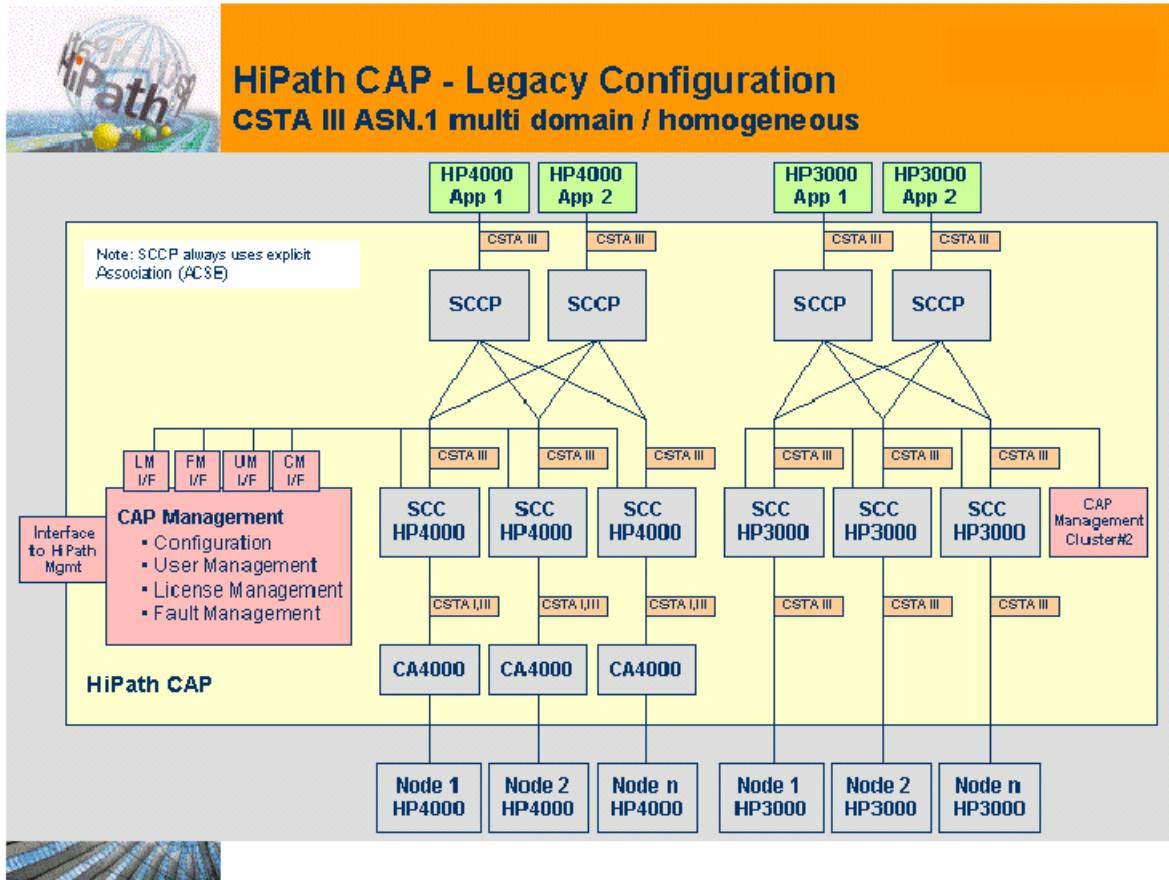
3.4 Installation and Administration of CAP V3.0

In order to operate BLF-Win 3.0 you need to install the software CAP V3.0 before.

You can find a description of the Installation and Administration of CAP V3.0 on the BLF-Win 3.0 CD in the document CAP30_SA_en.pdf.

3.4.1 Configuration of CAP and the Connectivity Adapter

BLF Win V3.0 is a CSTA III ASN.1 multi domain / homogeneous application.

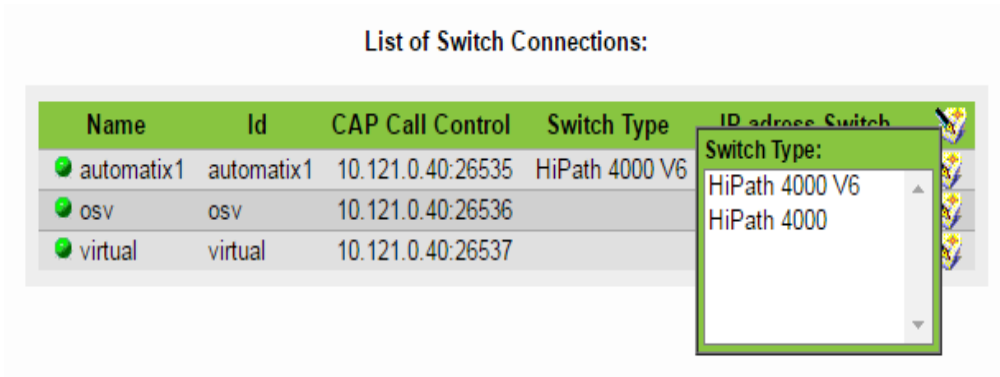



In the following only general steps are described to install BLF Win V3.0.

The detailed configuration steps of CAP and of the Connectivity Adapter are described in the service manuals "CAP Administration-Installation and "Installation and Problem Determination Guide for CA4000".

3.4.1.1 Adding a switch connection

1. Choose **service**, and **switch connection**.



2. Click on the "Add new entry"  icon.
3. Choose the type of the switch you want to connect to. (For example: "HiPath 4000")

3.4.1.1.1 SCC configuration

Specify the SCC data in the following window (optional fields are marked).

Add entry : HiPath 4000

SCC CA 4000 Switch

SCC Name:

SCC Id: (optional)

SCC host name:

SCC IP address:

SCC Port: (optional)

ASN1 Single Domain Native Mode:

CALL ID Management for TAPI

Add Close Next >>

The field *SCC-Id* may need special attention.

4. Click on **Next>>**.

3.4.1.1.2 Switch dependent configuration

1. Specify the switch data (optional fields are marked).

Add entry : HiPath 4000

SCC CA 4000 Switch

CA4000 port: 4640 (optional)

Switch Link Number: 5 (optional)

Switch Sub-App Number: 25 (optional)

Use External DNIS: No

<< Previous Add Close Next >>

The fields *Switch Link Number* and *Switch Sub-App Number* may need special attention.

2. Click on **Next>>**.

Add entry : HiPath 4000

SCC CA 4000 Switch

IP address of the Switch: 192.0.2.3

SPI Account:

SPI Password:

Business group: Standard

Get device data

Speed-dial numbers:
No speed-dial numbers

Domain numbers:
automatix1: +49(89)7007
OSV: +30(210)777

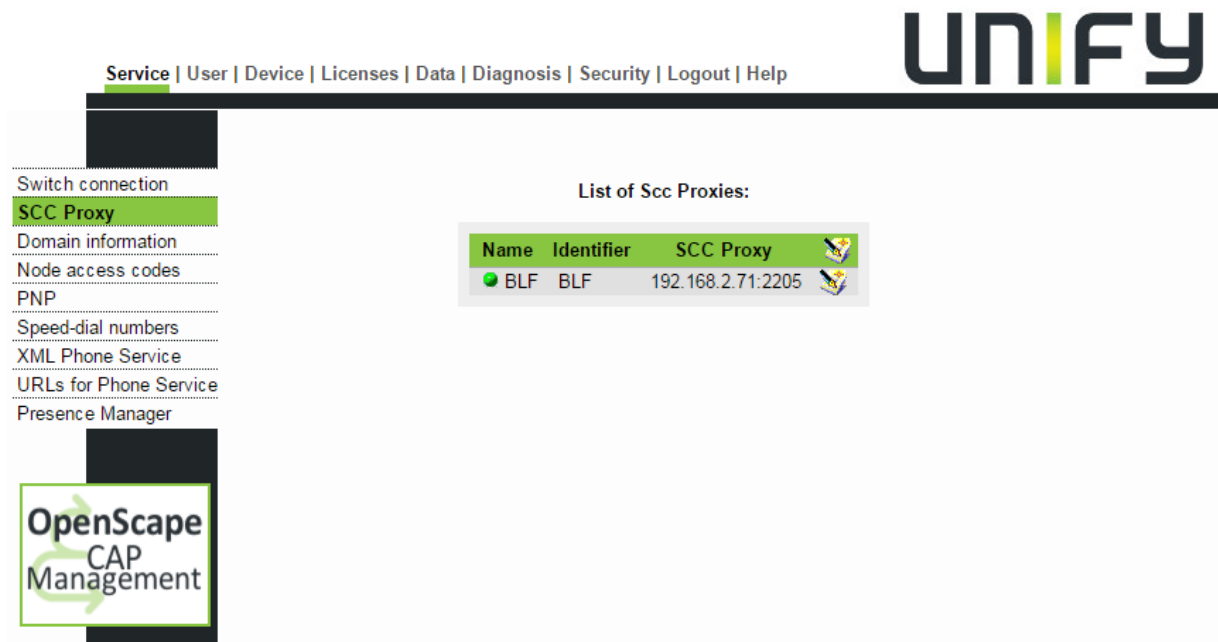
NAC:


Private Numbering Plan:

<< Previous Add Close

The fields *IP address of the Switch*, *Outside line access*, *Country code*, *Area code* and *Main number* may need special attention.

3. Click on **Next>>**.



4. Select **SCC Proxy** and click on the "Add New entry"  icon.

Adding an SCC Proxy

1. Specify the SCC Proxy data

Modify entry in Scc Proxy service list

SCC Proxy Name:

SCC Proxy Identifier:

SCC Proxy hostname:

SCC Proxy IP address: (optional)

SCC Proxy port: (optional)

Disable AP Emergency

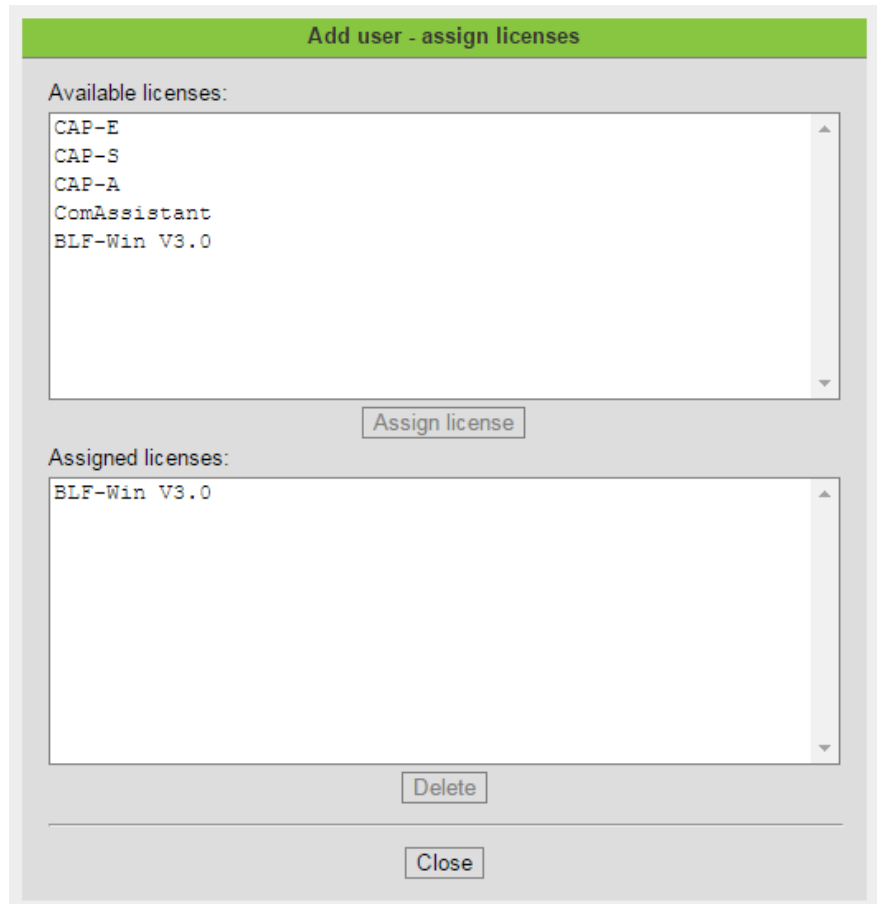
Disable SCC Proxy

3.4.1.2 Adding devices

1. Add devices

The screenshot shows a web-based configuration form titled "Add device" with a green header bar. The form is organized into several sections separated by horizontal lines. The first section contains "SCC ID:" with a dropdown menu set to "HiPathV6" and an "Emergency (HiPath4000 only):" dropdown menu. The second section contains "Business group:" with a dropdown menu set to "Standard" and "Device type:" with a dropdown menu set to "Phone". The third section contains "ISDN number:" with a dropdown menu set to "40(268)409", "PNP number:" with an empty dropdown menu, "Node access code:" with an empty dropdown menu, and "Extension" with a text input field containing "1234". The fourth section contains "XML Phone Service:" with an empty dropdown menu and an "XML Phone Settings" button. The fifth section contains "License granted to:" with an empty list box and an "Assign licenses..." button. The sixth section contains "Assigned users:" with an empty text input field. The seventh section contains "Direct call buttons:" with an empty list box and a "Direct call buttons settings" button, with the text "HiPath 4000 only" positioned above the button. At the bottom center of the form is an "Add" button.

2. As default *implicit licensing* is used for BLF. Click on **Add**.
3. If *explicit licensing* is used for BLF, click on **Assign licenses...**



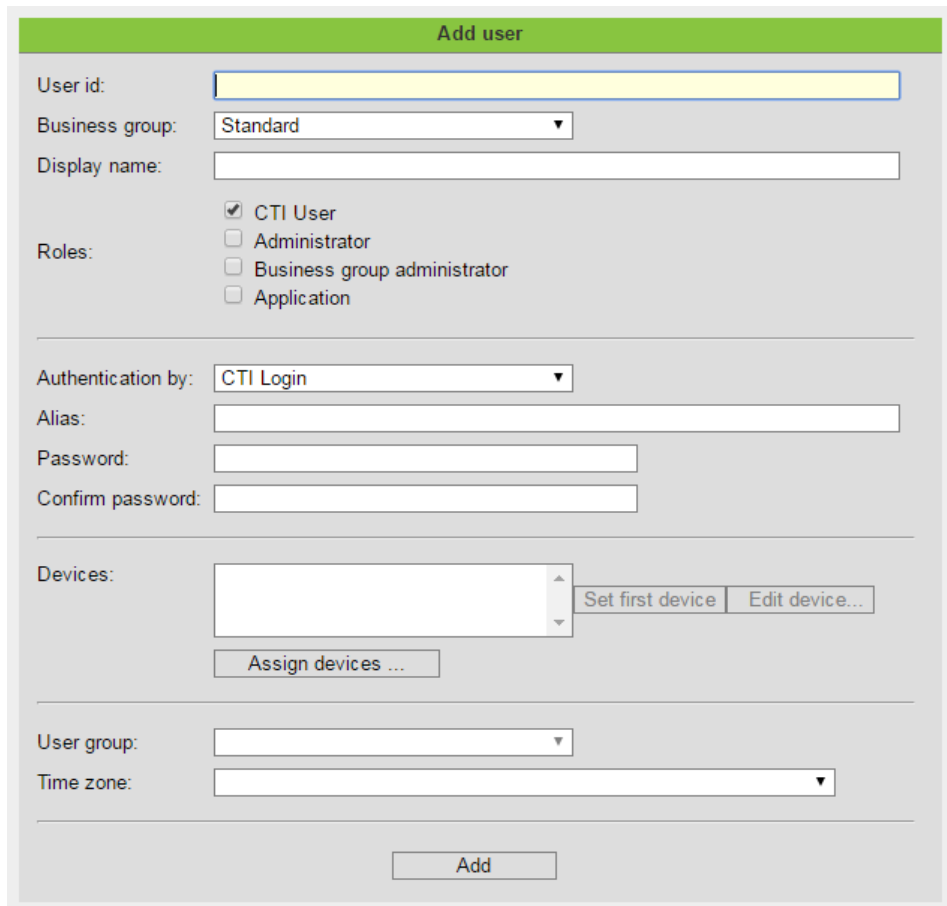
4. Select *BLF-Win V3.0* in the section Available licenses.
5. Click on **Assign license**.
6. Click on **Close**.

3.4.1.3 Adding users

There are two types of users, that can be added:

- CTI user (this is the recommended one) or
- application user

1. Check the user to be added in the *Roles* field (either CTI User or Application).



The screenshot shows a web-based form titled "Add user" with a green header bar. The form is organized into several sections separated by horizontal lines. The first section contains "User id:" (a text input field), "Business group:" (a dropdown menu with "Standard" selected), and "Display name:" (a text input field). The second section, labeled "Roles:", contains four radio button options: "CTI User" (which is checked), "Administrator", "Business group administrator", and "Application". The third section contains "Authentication by:" (a dropdown menu with "CTI Login" selected), "Alias:" (a text input field), "Password:" (a text input field), and "Confirm password:" (a text input field). The fourth section, labeled "Devices:", contains a list box (currently empty), a "Set first device" button, an "Edit device..." button, and an "Assign devices ..." button. The fifth section contains "User group:" (a dropdown menu) and "Time zone:" (a dropdown menu). At the bottom center of the form is an "Add" button.

2. Click on the **Add** button **or** if you want to assign a device to the user on the **Assign devices** button.

The screenshot shows a web interface titled "Add user - assign devices". At the top, there is a green header bar with the title. Below the header, there is a "Device:" label followed by a text input field. Underneath, it says "Search result devices: 16". A table lists search results with columns: Device, Type, SCC1, and License. Below the table are two buttons: "Assign device" and "Search device". Underneath that, it says "Assigned devices:" followed by an empty table with the same columns: Device, Type, SCC1, and License. Below the empty table are two buttons: "Delete" and "Close".

Device	Type	SCC1	License
+40 (268) 409-1100	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1101	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1102	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1103	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1104	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1105	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1170	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1171	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1172	Phone	HiPathV6	BLF-Win V3.0
+40 (268) 409-1173	Phone	HiPathV6	BLF-Win V3.0

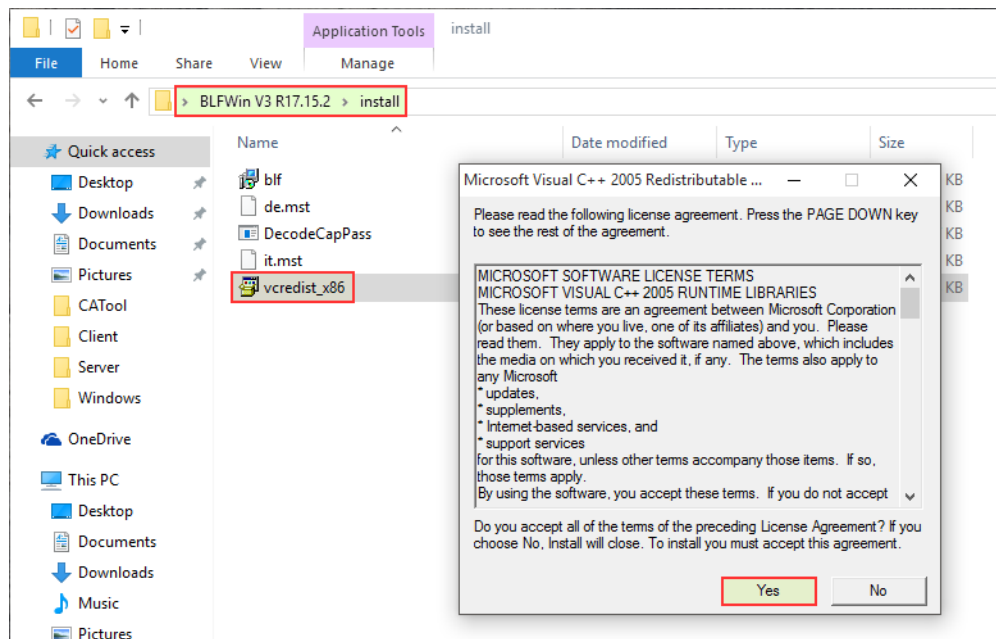
3. Select the devices you want to assign to the user and click on the **Assign device** button or click on the **Search device** button if the device is not listed in the *Search result devices* field.
4. Click on **Close**.

Additional information can be found in the HiPath CAP V3.0 Service Manual, Section 7.2.

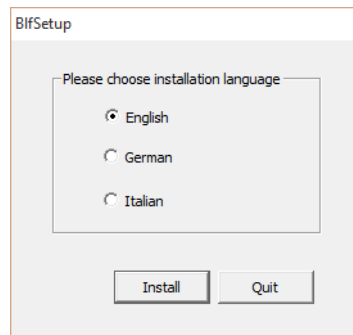
3.5 Installing BLF-Win software

Prerequisites:

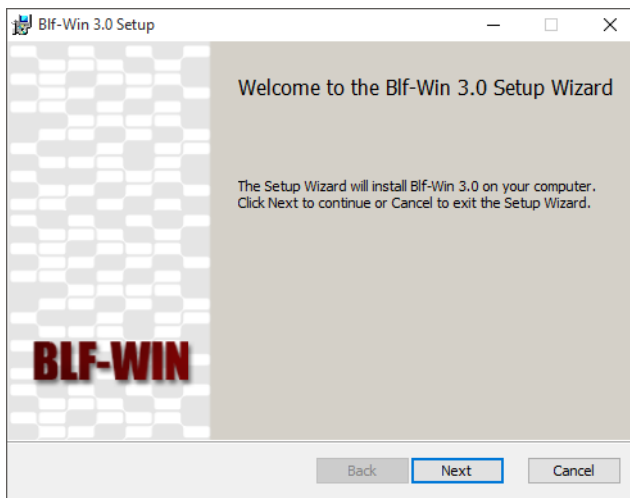
Before the BLF-Win software installation, make sure that the Microsoft Visual C++ 2005 redistributable pack is installed on your system. The redistributable is delivered with the installation package.



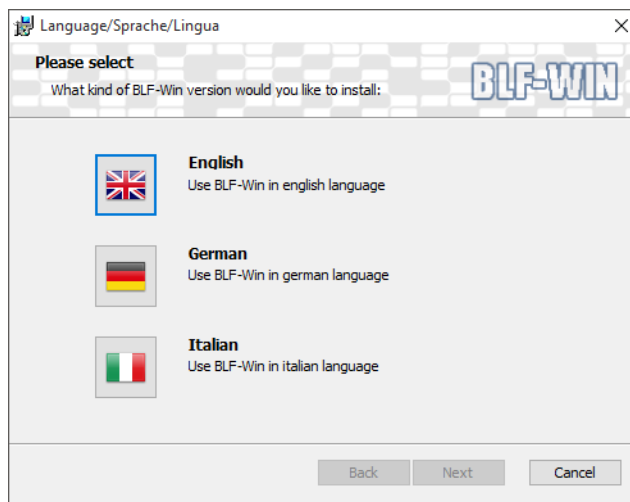
1. Run *Setup.exe* from BLFWin package. Chose the installation language and click on **Install**.



2. Click on **Next>**



3. Choose the **language** that will be used in BLF-Win (for menus, information, etc.).

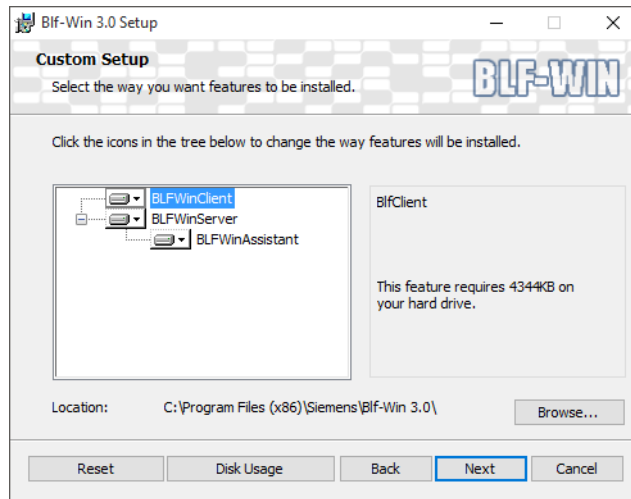


4. Select what **components** you want to install: Client, Server or both. A destination folder for installing BLF-Win is suggested. It can be changed by clicking on Browse button.

NOTE: If iBLF is used, install only the BLFWinClient component.

Hardware and Software Installation

Installing BLF-Win software



3.5.1 Installing BLF-Win Server

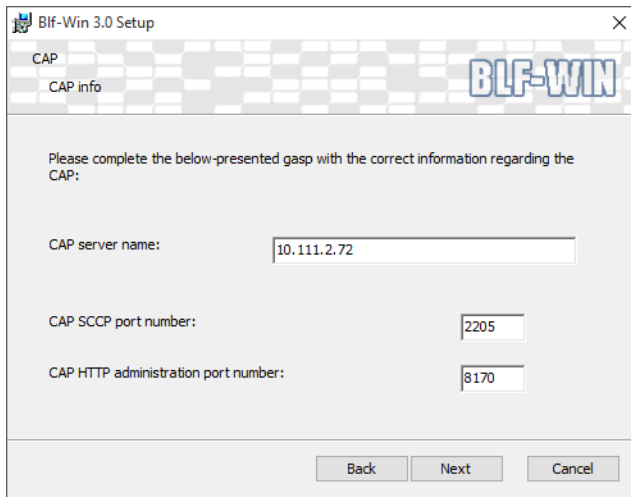
If you selected the BLF-Win Server component to be installed, proceed with following steps:

1. Fill in **CAP server name**, **SCCP port number** (default value is 27535) and **CAP HTTP administration port number** (default value is 8170). Click on **Next>**.

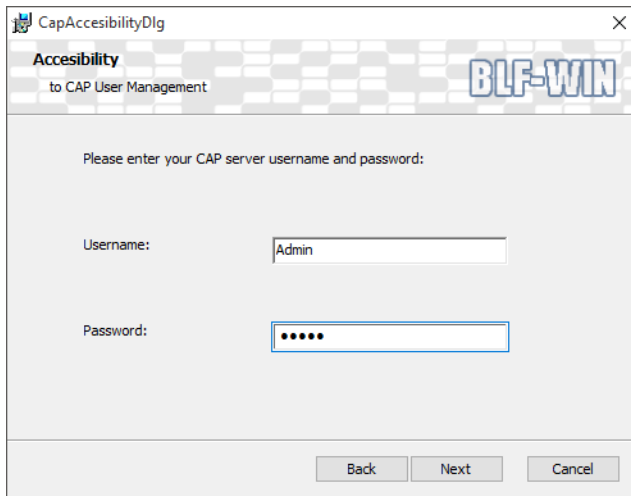
NOTE: The SCCP port address (communication between CAP V3.0 and BLF-Win Server) **must be the same** as the one defined in CSTA Application Configuration.

The administration port number is used to receive user management information from CAP server.

CAP V3.0 and BLF-Win Server can be installed on the same PC or on different ones (see [Chapter 2.4.1](#)).



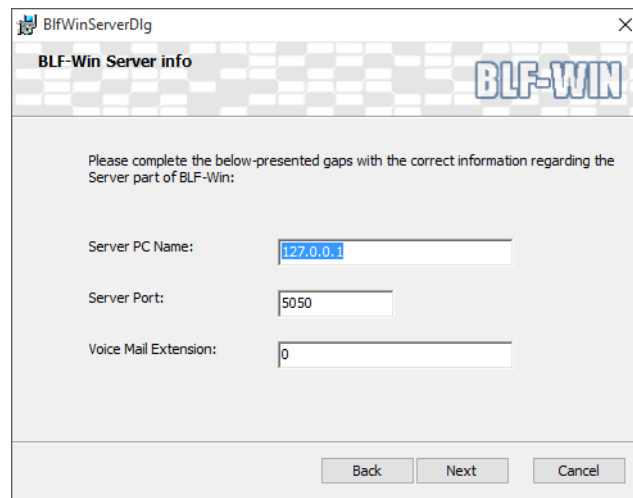
2. Enter the username and password of CAP User Management and click on **Next>**.



3.5.2 Installing BLF-Win Client

If you selected the BLF-Win Client component to be installed, proceed with following steps:

1. Enter the **network name / IP address, port number of the server PC**, and the **Voice Mail (Phone Mail) extension**. Click on **Next>**.
 - Server PC Name – the PC where BLF-Win Server is (or it will be) installed or the CSTA IP in case iBLF is used.
 - Server Port – communication port between Client and Server (the port must be open on Server side)



BlfWinServerDlg

BLF-Win Server info

Please complete the below-presented gaps with the correct information regarding the Server part of BLF-Win:

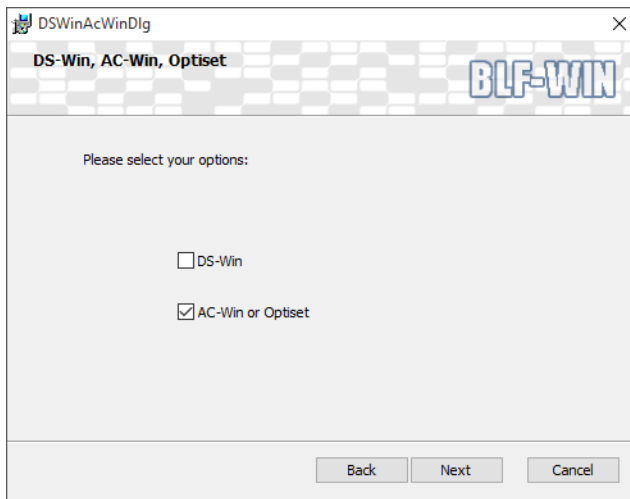
Server PC Name:

Server Port:

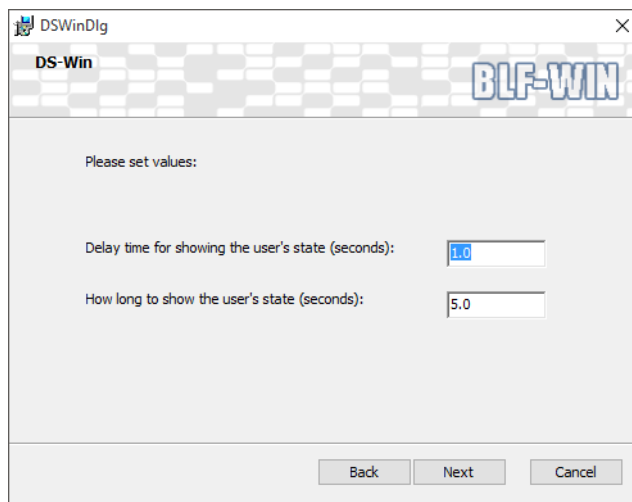
Voice Mail Extension:

Back Next Cancel

2. Select the components to be supported with BLF-Win Client: DS-Win or/and ACWin(Optiset). If DS-Win is not selected, proceed to step 4.



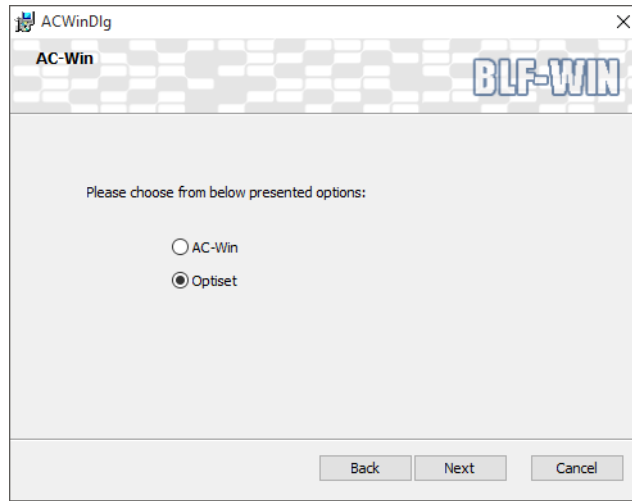
3. If you have selected **DS-Win**, enter the time (in seconds), after which the status of a selected subscriber in DS-Win should be displayed in the Windows task bar. Then enter the time (in seconds) shown in the Windows task bar. Click on **Next>**.



4. If you have selected support for **AC-Win** or **Optiset**, choose your preferred option. Click on **Next>**.

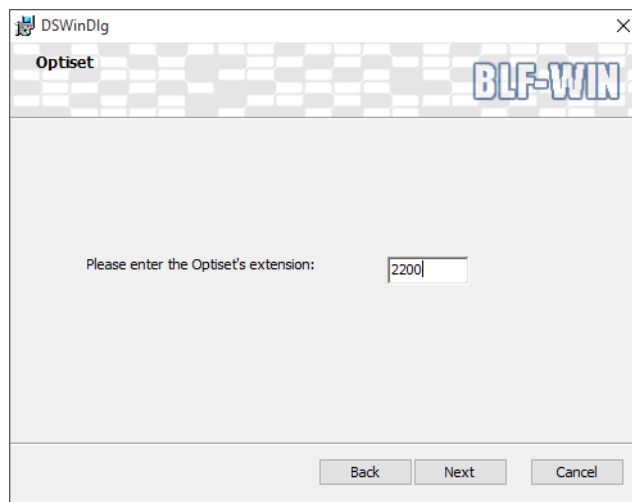
Hardware and Software Installation

Installing BLF-Win software

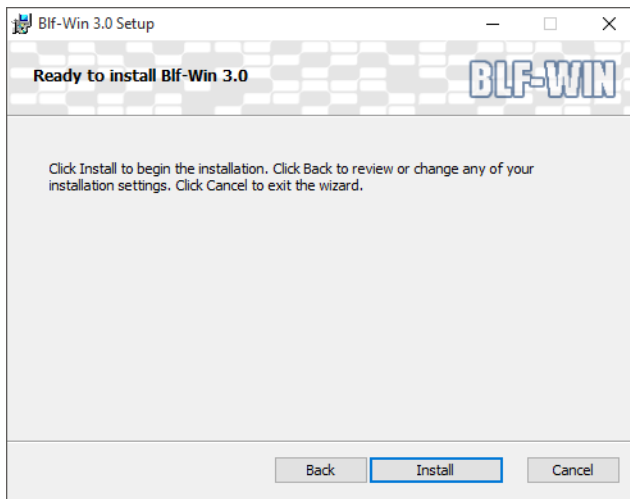


5. For Optiset, enter the extension number. Click on **Next>**.

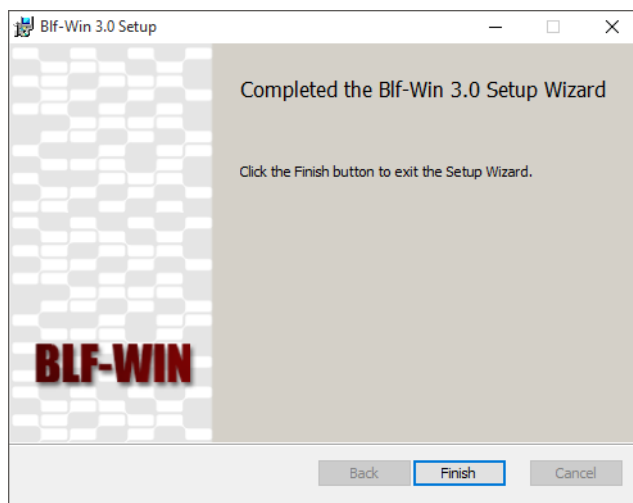
NOTE: The Optiset must be attached to the same communication system as the BLF-Win Server.



6. Proceed with installing the software. Click on **Install>**.



7. Wait until the setup ends. When done, click on **Finish**>.



3.5.3 Uninstalling BLF-Win Client/Server

The uninstallation is always performed depending on the installed components, i.e. server, client or both components will be uninstalled.

1. Click on **Start** and select **Control Panel**. Depending on your OS, go to the Programs and Features section.
2. Select **BLF-Win** and click **Uninstall**.
3. If you create your own configuration files (*.blf), they are stored (unless otherwise specified) in ProgramData directory, i.e. C:\ProgramData\BLF\Settings\

NOTE: If both components are installed on the same system, it is also possible to uninstall only one of them, e.g. the Client.

During the uninstall, the entries in the registry are also changed for the Server. To make the Server capable of establishing connections again to other Clients, you must execute the file **server.bat** which can be found inside the Server's install directory.

3.6 Connection to CAP User management

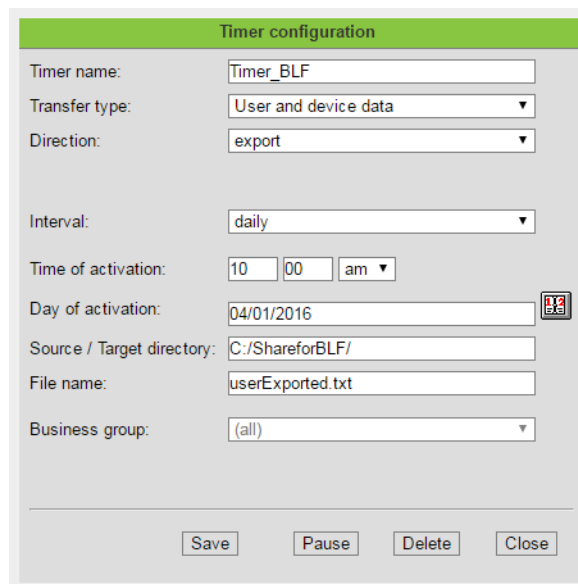
CAP V3.0 User Management information is taken over by the BLF-Win V3.0.

You have to setup a daily export from the CAP User Management.

1. Start the CAP Management (default: `http://<cappcname>:8170`)
2. Click on **Data** in the top menu
3. Choose the 'Scheduled Tasks' in the side menu

Now you see a list of scheduled tasks (or an empty list)

4. You have to create new tasks by clicking on the '**Create new timer**' icon on the title bar.
5. Specify the fields, like you see in the following picture:



6. Make sure that BLF-Win shares the Database directory and you have to specify the Target directory to this (i.e. `C:\ProgramData\BLF\Database`).
7. Save the settings.

After the time is over a file 'userExported.txt' will be created. This is the input for the BLF_UpdateDb.exe.

NOTE: If CAP V3.0 and the BLF-Win Server are running on different machines you have to make one more change:

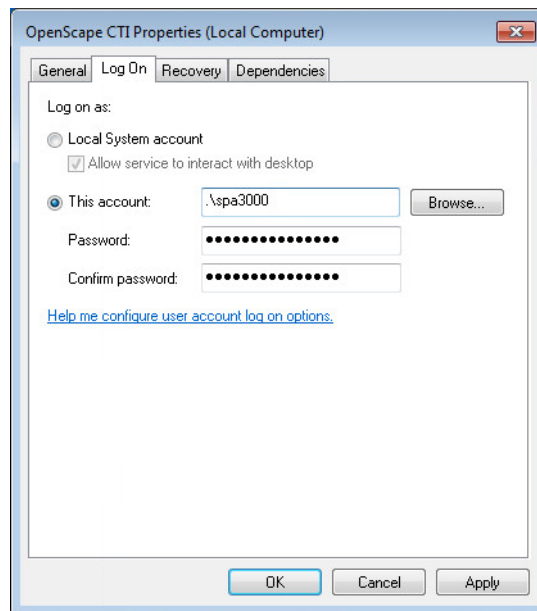
To access this network share you have to modify the CAP V3.0 service 'Log on' parameter.

Hardware and Software Installation

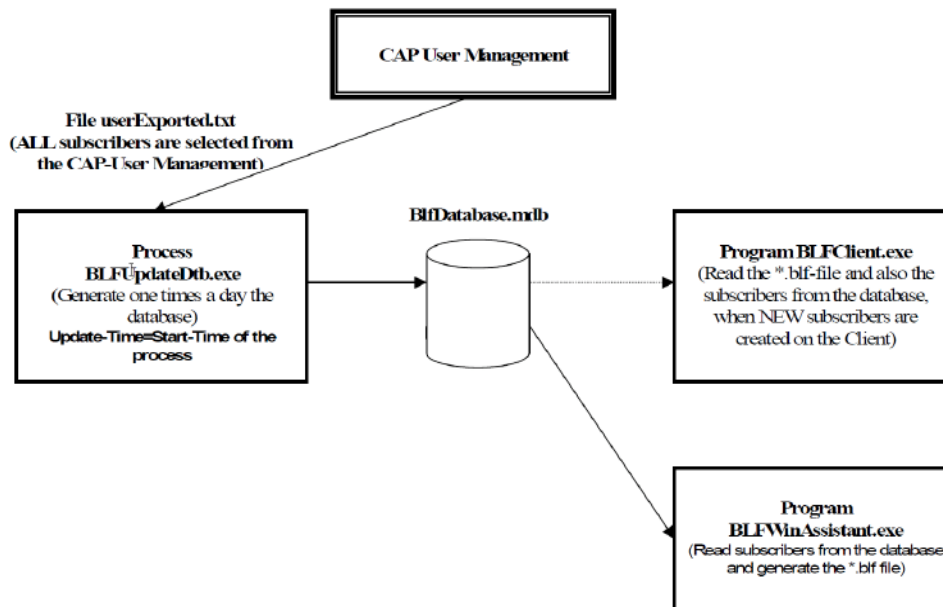
Connection to CAP User management

Please follow this steps on the CAP V3.0 Server to set this necessary parameters:

1. Windows **Start->Settings->Control Panel->Administrative Tools->Services**
2. Select the service "**OpenScope CTI**"
3. Activate with the pull down menu and select "**Properties**"
4. Select "**Log on**" and define an account which has administrator rights for the local machine and right to access the BLF-Win Database share



3.7 BLF-Update with CAP User Management and BLFDatabase



The picture above shows the interaction of the BLF-Update with the CAP-User-Management and describes which BLF-Moduls have access to the BLFDatabase.

1. During the installation process an empty database is created and the process BLF_UpdateDtb is started automatically.
2. Execute all steps described in Section 3.6 to make sure that the file userExported.txt is generated daily.
3. After the initial creation of the file userExported.txt a new data base will be created by BLF_UpdateDB.exe. After that, an automatic update is performed daily by the same process.

3.8 DS-Win program settings

The program DS-Win can be used with BLF-Win from V2.1 KV07 Patch Release
3. Make the following changes in the program DS-Win:

1. In the Options menu->Designmode->Datagrid1 add the following entries:

- **LinkToBLFActive=True**
- **LinkToBLFField=IntExtension**
- **LinkToBLFName=BLF-Win_ _connected_ _<BLF config filename>**
It is essential that you enter the exact name which you can read in title bar of the BLF-Win Client provided the Client is connected to the Server. If you make changes in the configuration file (*.blf) the same changes have to be made in the DS-Win program settings. Please note the space „_“ before and after the hyphen.

Example: **LinkToBLFName=BLF-Win_ _connected_ _DemoEng.blf**

2. Select **Runtime Mode** in the **Options** menu.

NOTE: For information on the interfaces of BLF-Win to AC-Win and DS-Win, please refer to the BLF-Win 3.0 User Guide manual.

3.9 BLF-Win Assistant

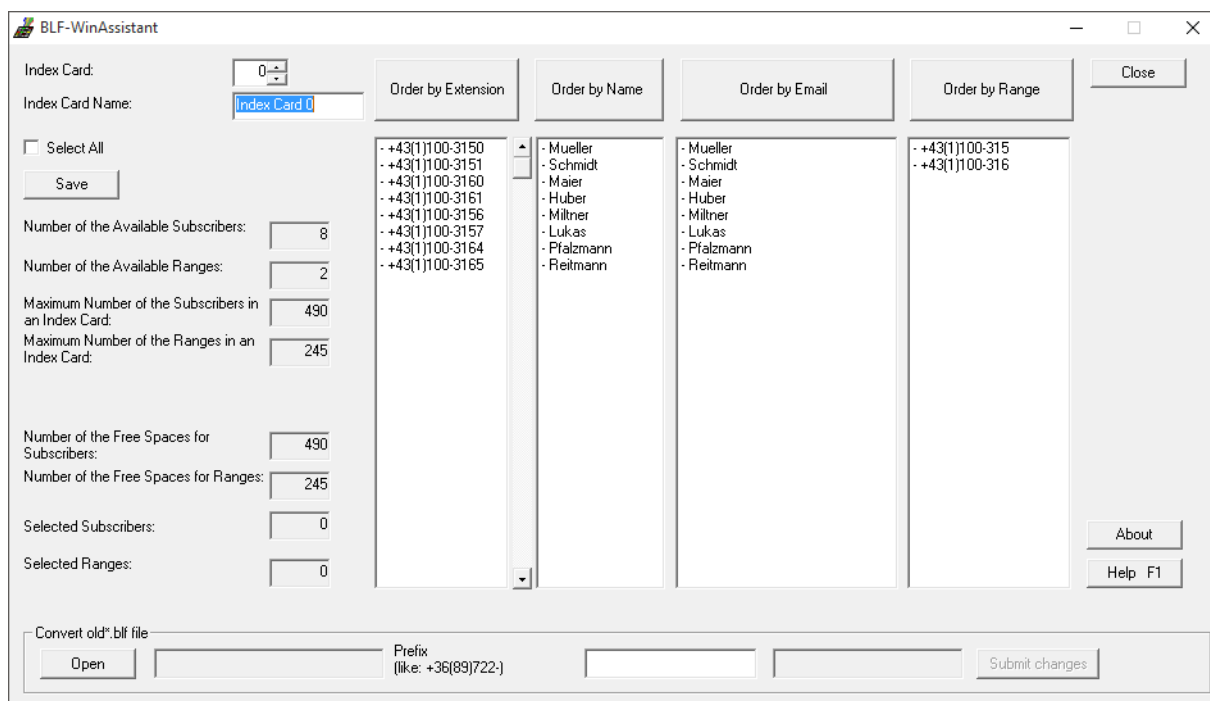
With the additional programm BLF-Win assistant it is possible to configure the index card with subscribers and ranges in an easy and fast way.

The installation of BLF-Win Assistant will be started after Server or Client installation as own setup. The user will be asked for installing BLF-Win Assistant. The installation can be also started from the CD directly (`..\Install\Assistant\Setup.exe`).

3.10 Updatetool for .blf-files

If you want use existing BLF-Win V2.0 subscriber data in BLF-Win V3.0 you must convert these data before.

1. Terminate the old BLF-Win version.
2. Create a backup of the existing .blf files. They are stored in the `install_dir\Client\Settings*.blf`. In the version 2.0 as default they are in the `C:\Program Files\Unify\BLF-Win 2.0\Client\Settings` directory.
3. Install BLF-Win V3.0 and BLF-Win assistant. Than start BLF-Win assistant and convert the *.blf files. Terminate BLF-Win Client **before**.



Hardware and Software Installation

Updatetool for .blf-files

4. Click on the '**Open**' button to open the .blf file from the old version

The path and the file name will be shown right to the 'Open' button, also the first station number is visible on the right side.

5. Type in the prefix needed for the right communication with CAP V3.0. An example is visible on the GUI. In details:

- **+36** specifies the country,
- **(89)** specifies the town (or area)
- **722** specifies the base number (or domain numbers).

When you type in the prefix the new number is visible on the right side at the same time.

Note that here you must define the canonical station number, because the BLF-Win V3.0 interact on the CAP V3.0 SCCP port (to communicate on this port only possible with the canonical station number).

6. Click on '**Submit changes**' button

The original file will be renamed to *_v20.blf, and the original file name will be displayed for the .blf file.

7. Copy the created .blf file into the `C:\ProgramData\BLF\Settings\` directory.
8. Now you can start the BLF-Win Client V3.0.

3.11 iBLF Configuration

Please check OpenScape 4000 CSTA and Phone Services, Service Documentation, for information.

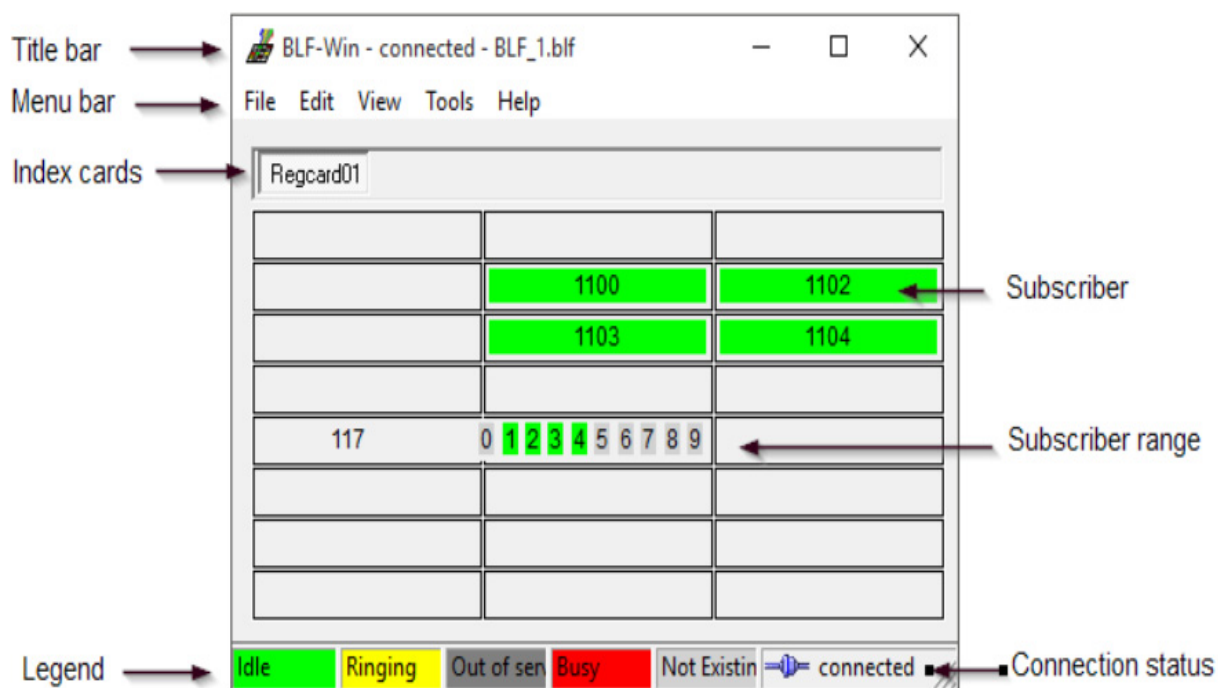
Hardware and Software Installation

iBLF Configuration

4 BLF-Win Client

4.1 Main BLF Window

The elements of the main BLF window are presented in the figure below.



The different states are indicated by different colors:

Idle	Green
Ringing	Yellow
Out of service	Grey
Busy	Red
Not existing	Light gray

BLF-Win Client

Main BLF Window

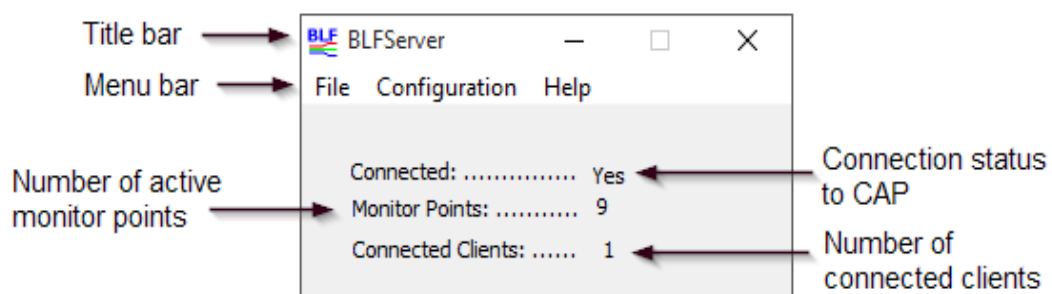
You can arrange both the subscribers and the subscriber ranges in the display field according to your requirements using drag & drop.

You can change the color setting and arrange the subscribers within a subscriber range to suit your needs. The BLF-Win operating manual contains detailed information on this topic.

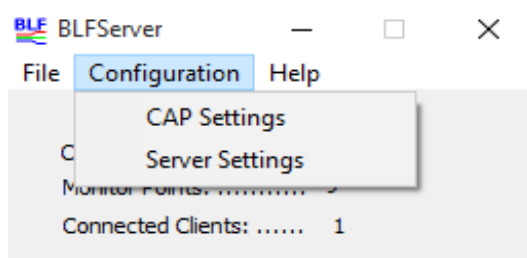
5 BLF-Win Server

5.1 Main BLF-Win Server Window

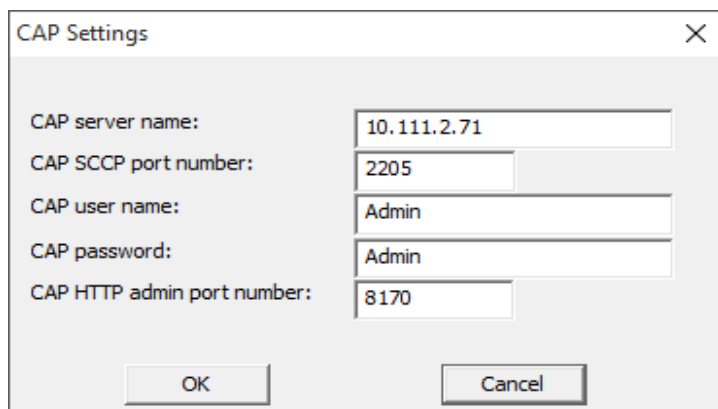
BLF-Win Server can be started from *Start -> Programs -> BLF-Win -> Blf-Win Server*.



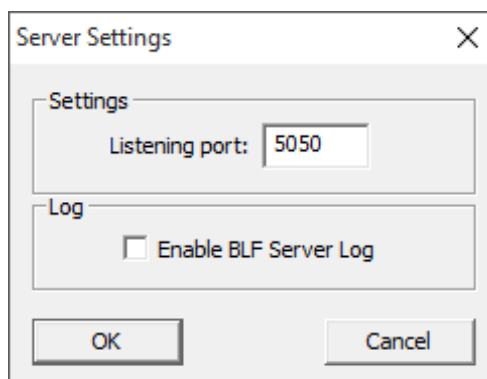
5.2 Configuration



BLF-Win Server configuration is split in two sections, CAP settings and Server settings. Configuration parameters are the ones set during the installation. To set up new values, select the setting you want to modify.



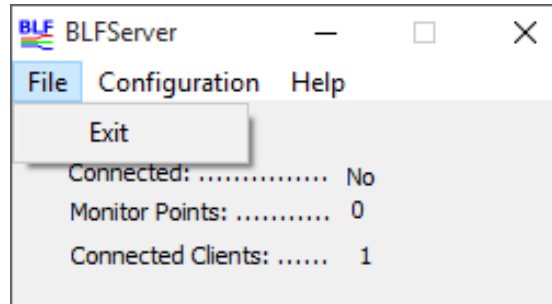
For CAP settings, enter a valid CAP 3.0 server name / IP address, enter the CAP 3.0 port number, i.e. configured SCCP interface, CAP management username and password, CAP HTTP admin port number and confirm by clicking OK.



For Server side settings, you can modify the listening port and enabling/disabling the logs. Confirm by clicking OK.

5.3 Exiting BLF-Win Server

To exit the program, click File in the menu bar, then Exit.



BLF-Win Server
Exiting BLF-Win Server

6 Appendix

6.1 Logging Diagnostic Data

6.1.1 Activate logging for BLF-Win V3.0

To activate logging for the **BLF Client**, the following configuration file must be modified: `C:\ProgramData\BLF\Settings\Blf.ini`

Change the following entry: `ClientLogEnabled=YES`

To activate logging for **BLF Server**, change the property `ServerLogEnabled` to YES.

NOTE: To activate logging for iBLF, see OpenScape 4000 CSTA and Phone Services, Service documentation.

6.1.2 Activate logging for CAP V3.0

In many cases, it can also be helpful to provide information to the BLF development department with the CAP logs. For information about modifying the configuration files to get detailed traces, see the **CAP Service Manual Section 7.7.7**.

The following configuration files must be modified:

`<CAP install directory>/config/<PC name>/sccp_<SCCP name>/Telas.cfg`

`<CAP install directory>/config/<PC name>/telasServer_<SCC name>/Telas.cfg`

`<CAP install directory>/config/<PC name>/CA4000_<SCC name>/ca4000.cfg`
(for HiPath4000)

Change the following entries:

`log.level = 5` (must be set to "5" in all of the configuration files mentioned above)

`cstaLogEnabled = 1` (no change for ca4000.cfg)

`debugLevel = 9` (no change for ca4000.cfg)

Appendix

Logging Diagnostic Data

Section **7.7.10 Saving diagnostic data** contains information about you save a zipped version of CAP logs.

Invoke with

Internet Explorer > CAP management > Diagnostics > Download Data

Section A.2 of the CAP Service Manual includes a description of the configuration files.

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