

PSE

Service Manual – HSC Hot Spot



1 Internet for Guests

1.1 Your Registration Number:

1.2 Disclaimer

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1.3 Notes

2 General Information

2.1 About the Product

Thank you for choosing 'Internet for Guests'. The system enables you to provide guests with an Internet connection using 'Surftickets' within the 'Surf-LAN' (dedicated network for your guests). To administer the system with the so-called 'WebAdmin', you'll only need a web browser (e.g. Internet Explorer, Firefox, Safari, etc.) installed on one of the computers in the 'Office-LAN' (your office network).

In addition, the system has a range of other benefits:

- real Plug and Play (no amendments to or software installation on the end-device)
- simple creation of freely definable 'Surftickets'
- billing based on volume and/or time
- multi-language capability
- integrated security features (Firewall, Web Filter, etc.)
- many useful modules (e.g. Online Update, 'PMS' Connector)
- and much more ...

Have a good time.

2.2 Implementation



The 'Office-LAN' is protected by an integrated firewall. This ensures that your office network is completely separate from your guests.



Using a convenient bandwidth management, you can allocate only a part of your Internet bandwidth to your guests and still guarantee a trouble-free Internet connection for your office operations.



You will need to comply with any national legal regulations and to configure the system appropriately.



The system is best placed in a server, or system, room. Protect the device from dust and the effects of heat.

2.2.1 Requirements

To be able to use 'Internet for Guests' you'll need to have:



- broadband Internet access (e.g. DSL, Cable)
- network infrastructure (e.g. CAT5, WLAN, Powerline)
- DSL/cable router
- web browser to administer 'Surftickets'

If the system is installed behind a firewall, as well as the standard port such as HTTP, DNS, etc. you will need to permit additional connections to the following ports:

Value	Description
53 TCP/UDP	Domain Name Service (DNS)
123 TCP/UDP	Time Server (NTP)
873 TCP/UDP	Online Update
1194 TCP/UDP	Central Services VPN
5555 TCP	Remote Control

2.2.2 System Default

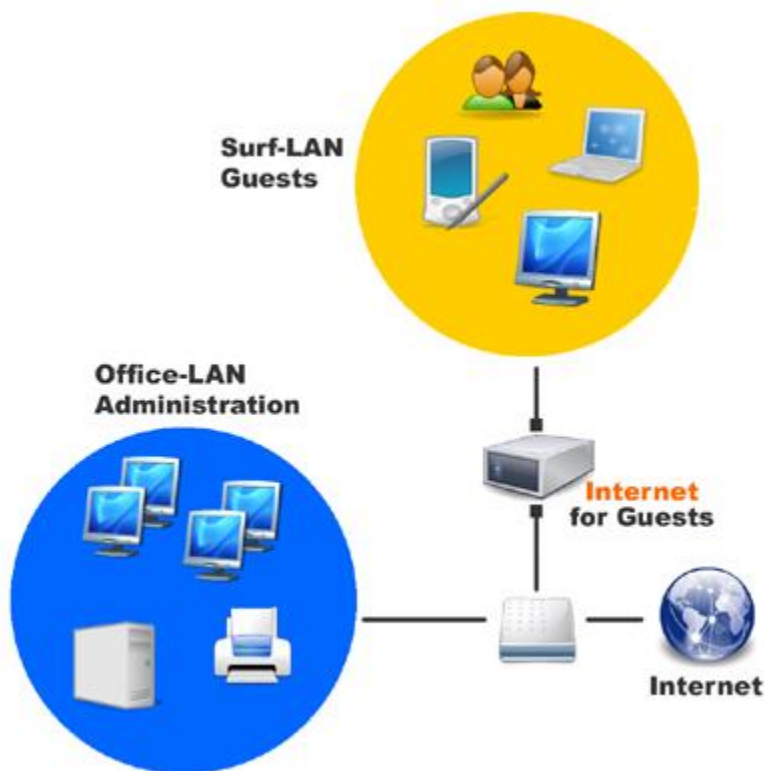
The system has the following network settings for 'Office-LAN' by default:

Value	System Default	Note
IP Address	192.168.1.1	IP address of the system within the 'Office-LAN'
Subnet Mask	255.255.255.0	subnet mask of the 'Office-LAN'
Default Gateway	192.168.1.254	default gateway (usually DSL router, cable router, etc.)
Time Server (NTP)	ntp.frozentux.org	NTP / Time Server for time synchronization (e.g. ntp.frozentux.org)
Primary DNS Server	192.168.2.1	server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS)
Secondary DNS Server		server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS)
	The 'Surf-LAN' DHCP range is configurable from 172.30.0.0/17 to 172.30.0.0/22. In the 'Surf-LAN', the system can be addressed by using 172.30.3.254.	
	The 'Surf-LAN' has to occupy a different IP/subnet area than the 'Office-LAN'.	

2.2.3 Integration

The hardware contains two network cards and can be connected to the company network -

after being installed and configured - as follows:



Integration

1. Network Card: 'Office-LAN'

Using the patch cable, connect the network card labeled 'Office-LAN' on the system with your office network (e.g. Switch, DSL router). The configured system now uses the existing office network's Internet connection.

Whenever possible, the 'Office-LAN' should not be a classic network (e.g. 192.168.0.x, 10.0.0.0, 172.16.0.0), because computers in the 'Surf-LAN' that are in the IP area of the 'Office-LAN' will not find a Plug and Play environment (change network settings of device to DHCP). This can happen if guests have set the same classic network in their home or office network.

2. Network Card: 'Surf-LAN'

Using the patch cable, connect the network card labeled 'Surf-LAN' on the system with the guest's network (e.g. Switch, WAP).

The 'Surf-LAN' can be structured in a number of ways. Possible variations include:

- as direct start, a single wireless access point
- CAT5 Ethernet cabling
- HomePNA
- VDSL

- etc. or in combination



Make sure that the 'Office-LAN' and 'Surf-LAN' network connections are not mixed up - this can severely damage the office network.



In contrast to a wireless access point, a WLAN router allows all device behind the router to become active with just a single 'Surfticket'. This can be by-passed by switching to a so-called 'bridging mode'.

3 Software Installation



'Internet for Guests' is a Linux-based software solution. However, no special Linux knowledge is necessary. The installation procedure is run using its own program setup.



After installation the system can be fully administered using a web interface.

The installation needs to be carried out on a PC solely reserved for the system. Installing the software (operating system and billing software) deletes all other data found on the device.

System Requirements

- 500 MHz +
- 10 GB HDD +
- 256 MB RAM +
- 2 x PCI Ethernet Network Card (1 for 'Office-LAN', 1 for 'Surf-LAN')



Most network cards are ready for licensing. However, please test your network card type before you sell the product.

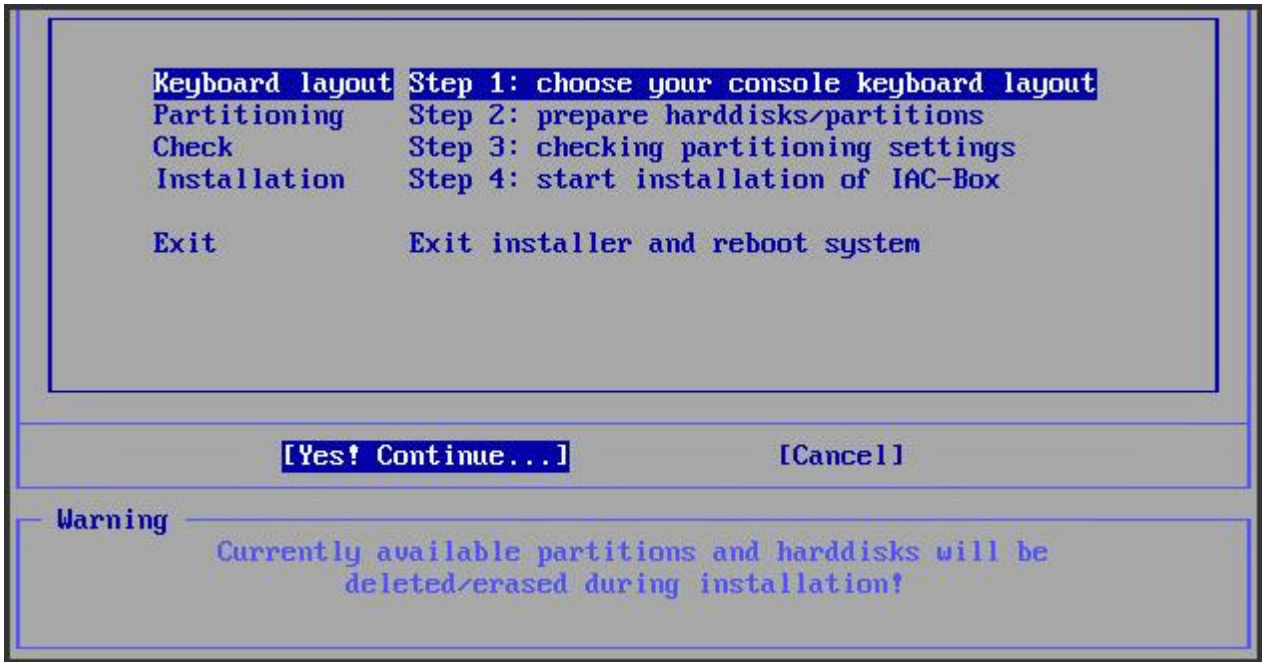


The hardware requirements are minimum requirements, otherwise it will not be possible to set up the installation.

Follow the steps below to install the the system. Normally this does not take longer than 5 to 10 minutes. The installer is only available in English. However, no specialist knowledge is necessary.

3.1 Step 1: Boot

Start the PC and place the CD-ROM in the CD-ROM drive. As soon as the system is booted by the CD, the 'Frozen Tux Setup Utility' boot screen is displayed. Wait until you see the following screen:



St

ep 1: Boot

You are now in the main menu. Now follow the installation instructions step for step to install.



MENU NAVIGATION: [Arrow Keys] = Menu Navigation; [TAB] = Menu Navigation; [ENTER] = Confirm; [SPACE] = Select Entry

3.2 Step 2: Keyboard Layout

Select 'Keyboard Layout' to choose the type of keyboard you have on the system console. Open the sub-menu by pressing ENTER.



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Step 2: Keyboard Layout

Option 1: Quit submenu without changing	Option 2: Change entry
<ul style="list-style-type: none"> • select menu item [BACK] • press ENTER to re-enter main menu 	<ul style="list-style-type: none"> • navigate to the favored setting • select entry by pressing SPACE • navigate to menu item [Load selected Keyboard Layout] • press ENTER to save setting • navigate to menu item [BACK] • press ENTER to re-enter main menu

3.3 Step 3: Partitioning

The installation program automatically partitions the hard disk - this needs to be confirmed when prompted. To start partitioning, select 'Partitioning' and open the sub-menu by pressing ENTER.

Harddisk 1 /dev/hda Size: 2048 MB


[Continue] [Back to mainmenu]

Information

Select harddisks for system installation!
 First selected harddisk will be the bootdrive!
 With '*' marked harddisks will be formatted during installation!

St

ep 3: Partitioning



Do not reedit partitions ('Reedit partitions') unless it is necessary, but click on continue.

Partition defaults are then displayed. Confirm by pressing ENTER.

Partition	Mountpoint	PaType	FsType	Fmt	Size[MB]
/dev/hda1	/	pri 82	linux-swap	Y	512
/dev/hda2	/	pri 83	reiserfs	Y	99999

[Reedit partitions] **[Continue]**

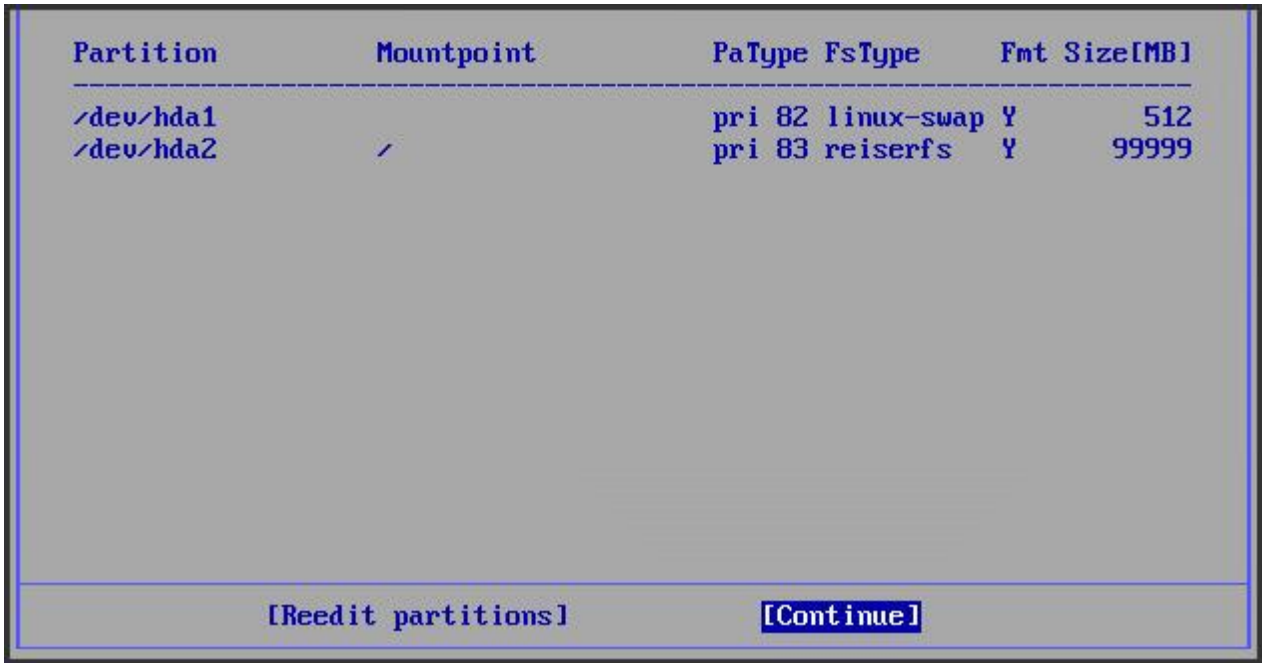
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ep 3: Partitioning

The complete partition is then displayed. Confirm by pressing ENTER, which will also return you to the main menu. Partitioning is then complete.

3.4 Step 4: Check

If any problems arise during partitioning (e.g. the hard disk is too small), this is displayed in the sub-menu 'Check'. To start select 'Check' and open the sub-menu by pressing ENTER.

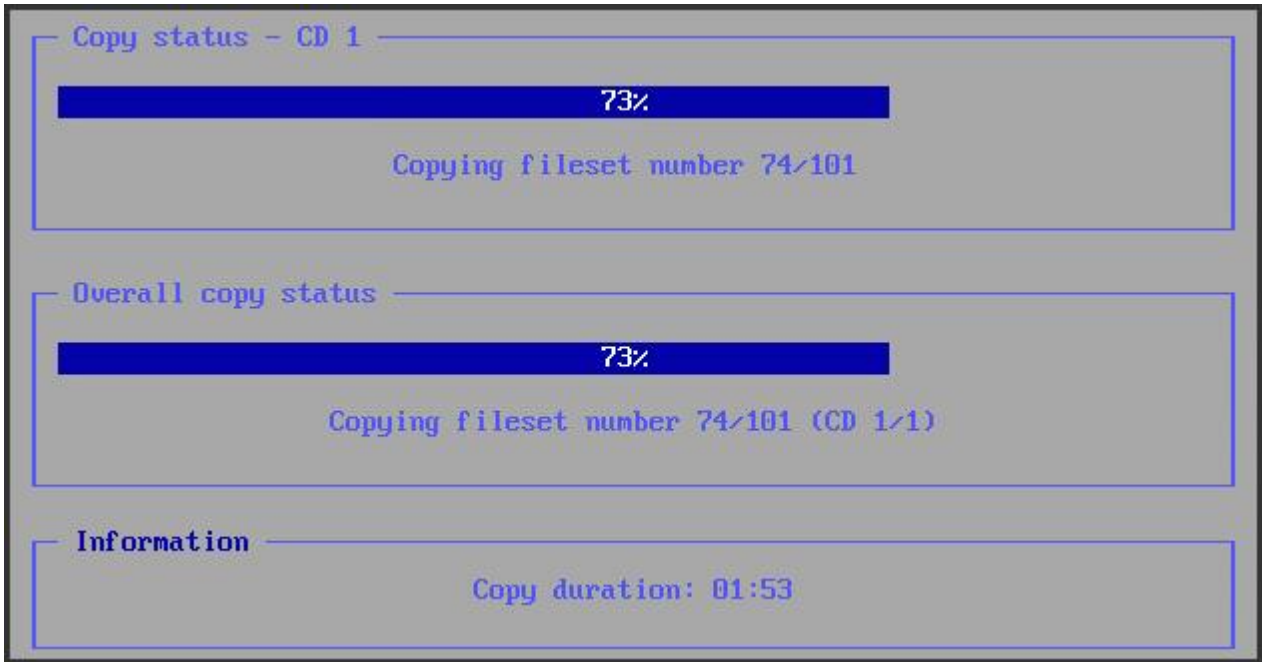


Step 4: Check

Option 1: there is no red warning	Option 2: there is a red warning
press ENTER to re-enter main menu	check system requirements; if necessary run partitioning again or re-install the system

3.5 Step 5: Installation

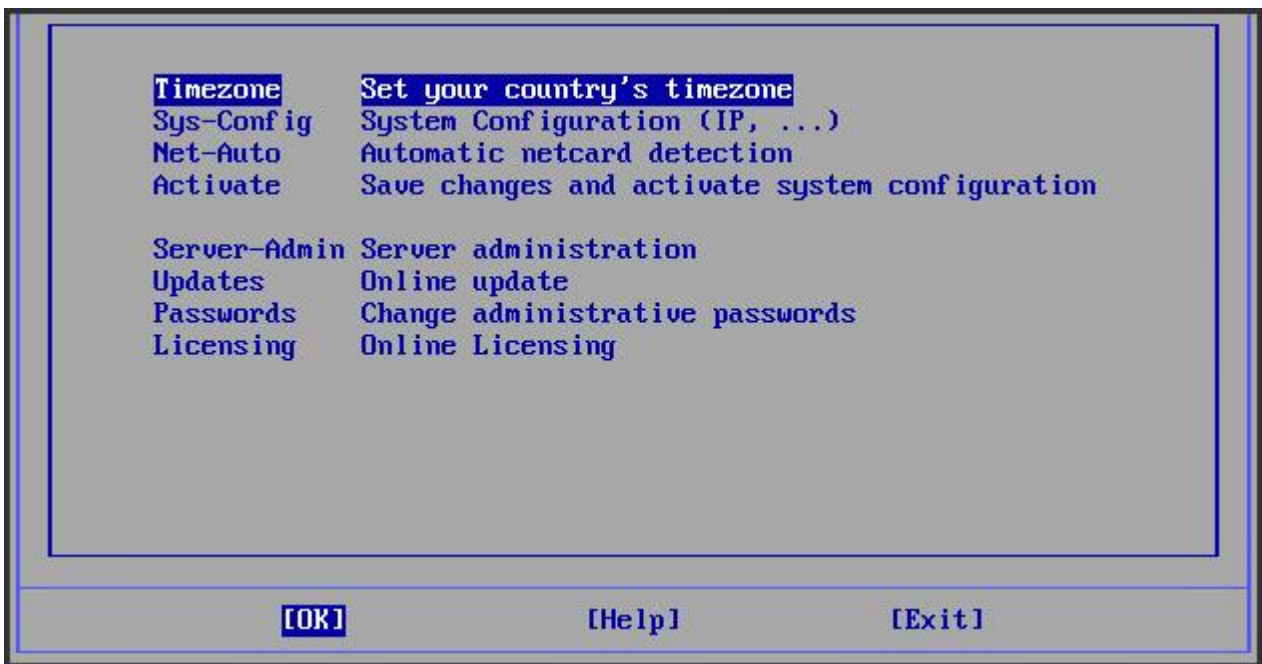
To start installation select 'Installation' and press ENTER. The copying procedure takes between 2 and 10 minutes depending on PC performance.



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ep 5: Installation

After the installation you are automatically taken to the configuration menu.



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ep 5: Installation

3.6 Step 6: Time Zone

To enter the time zone select 'Time Zone' and open the sub-menu by pressing ENTER.



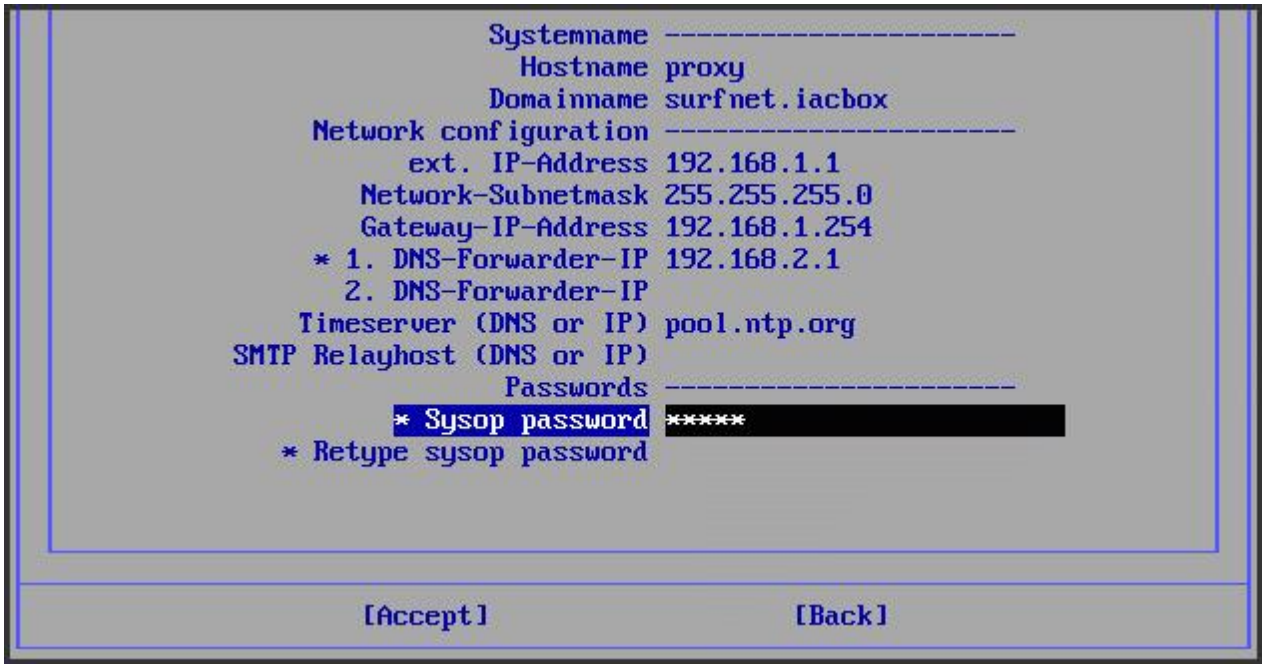
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ep 6: Time Zone

Time Zone
<ul style="list-style-type: none">• navigate to the favored setting• press SPACE to select entry• navigate to menu item [Accept]• press ENTER to re-enter main menu


3.7 Step 7: Sys-Config


To set the basic network configuration select 'Sys-Config' and press ENTER.



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ep 7: Sys-Config


 Change the settings of the system to meet your requirements.

 These values have to be changed to be able to integrate the system in the current office network. The remaining settings can be administered at a later time using the web interface 'WebAdmin'.

Value	System Default	Note
IP Address	192.168.1.1	IP address of the system within the 'Office-LAN'
Subnet Mask	255.255.255.0	subnet mask of the 'Office-LAN'
Default Gateway	192.168.1.254	default gateway (usually DSL router, cable router, etc.)
Primary DNS Server	192.168.2.1	server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS)
Secondary DNS Server		server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS)

System Administrator [Username: sysop] [Default Password: sysop]

 For security reasons, please change password.

 Please note that Username and Password are case sensitive.

Change Settings

- navigate to the favored setting
- press ENTER to make entry changeable
- press ENTER to save setting
- navigate to menu item [Accept]
- press ENTER to re-enter main menu

3.8 Step 8: Net-Auto

In the menu item 'Net-Auto', the two network cards are automatically identified and configured. Select 'Net-Auto' and open the sub-menu by pressing ENTER.

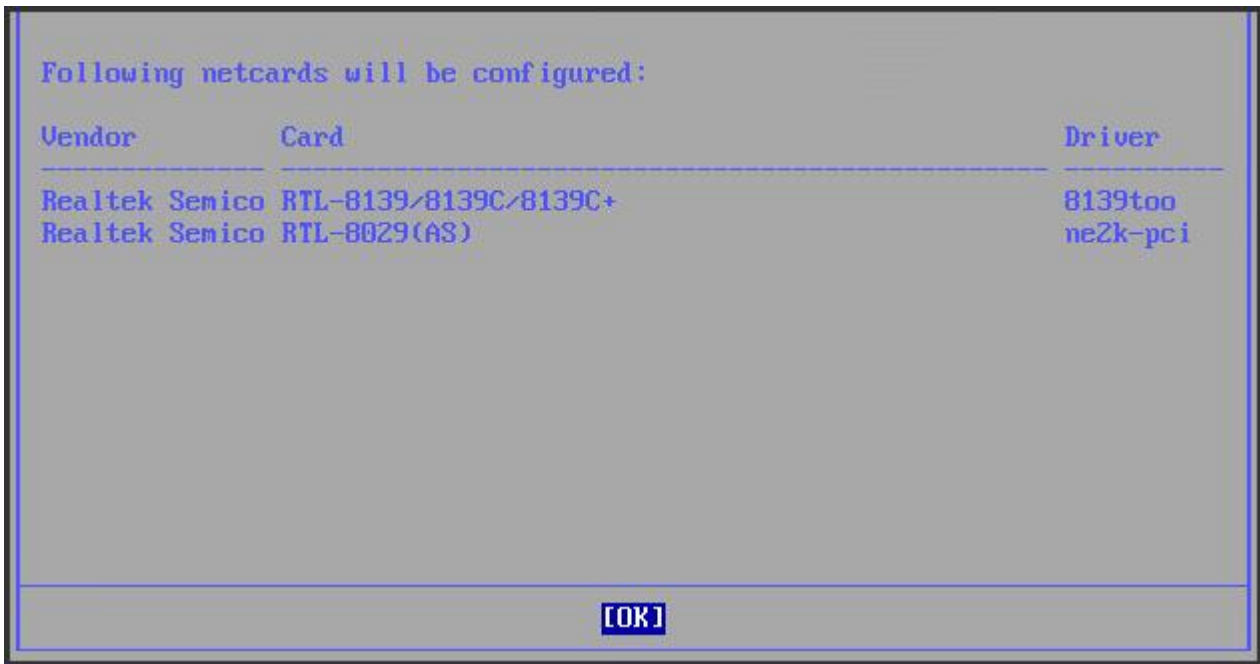


Step 8: Net-Auto



Make sure that the two identified network cards are selected - indicated by a preceding + sign. If you press SPACE by accident, you might mistakenly deselect an entry.

The two network cards are displayed and marked with a + sign. Confirm by pressing ENTER.

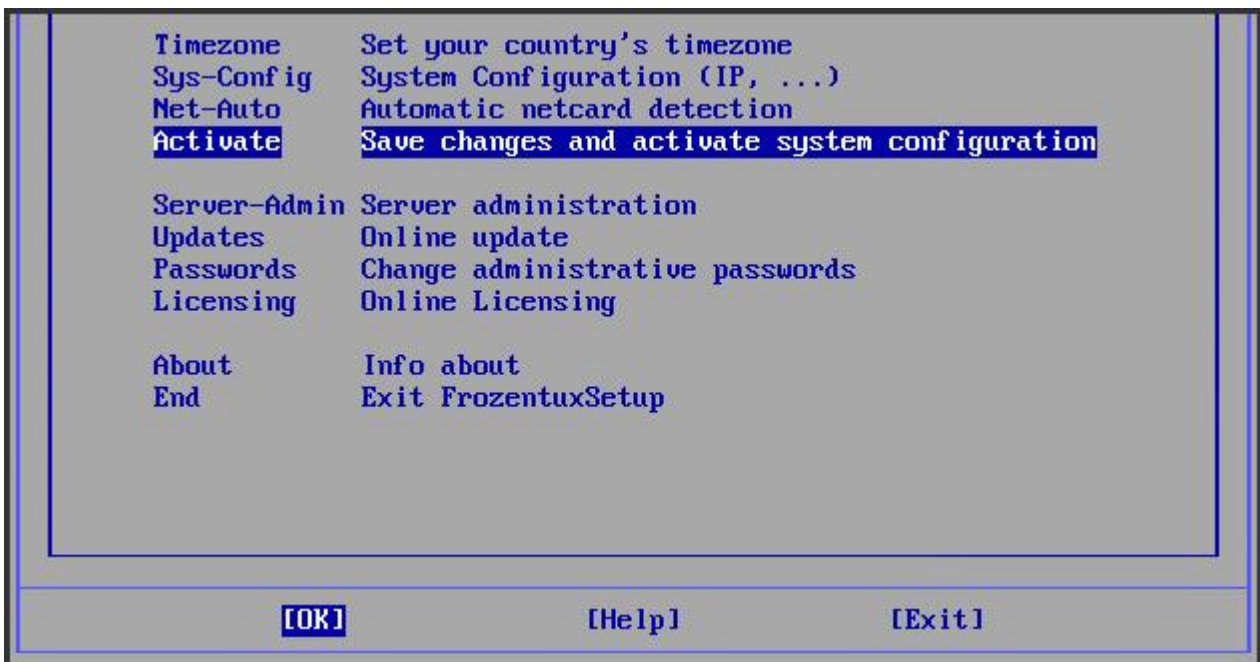


St

ep 8: Net-Auto

The two configured network cards are then displayed. Confirm by pressing ENTER.

3.9 Step 9: Activate



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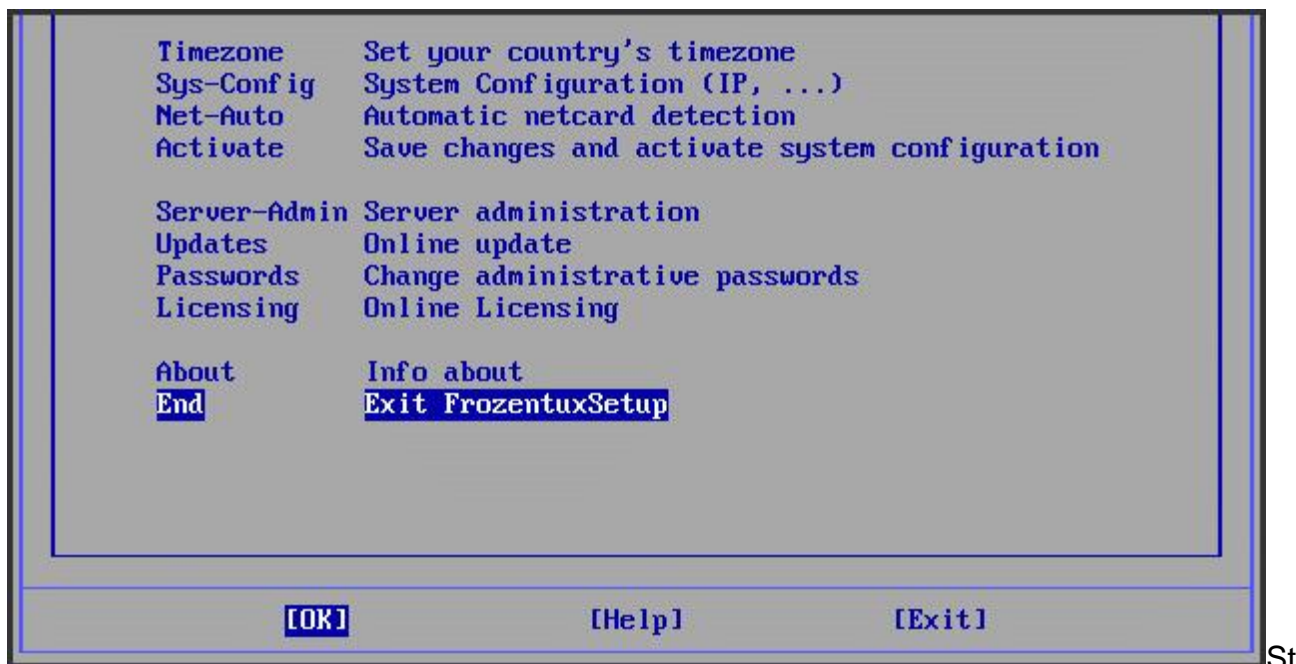
ep 9: Activate

To save the settings select 'Activate' and confirm by pressing ENTER. Select 'Yes – Do it!' and confirm by pressing ENTER.

The system informs you that a restart is necessary to complete the installation ('Server has

to be restarted, otherwise changes have no effect.'). Confirm the prompt by pressing ENTER - this then takes you back to the main menu.

3.10 Step 10: Exit installation



ep 10: Exit installation

To exit the installation procedure select 'End', confirm by pressing ENTER and confirm the following prompt ('Would you like to terminate FrozentuxSetup?') again by selecting 'Yes – Exit!'.

The CD-ROM drive tray automatically opens. Remove the CD-ROM and confirm by pressing ENTER. Select 'Exit' and confirm by pressing ENTER. The computer is then re-started. This can take about one minute. The system is now ready.

After installation the system can be fully administered using a web interface.



As soon as the system is ready to use or is being shut down, a signal sounds



The system automatically accepts the attribute of the network cards ('Office-LAN' and 'Surf-LAN'). Therefore, try to connect the two network cards one after the other using a cross-over cable and a computer (e.g. laptop with DHCP setting). In each case, open a web browser. When the logon page automatically opens, mark this card with 'Surf-LAN' and the other with 'Office-LAN'.

4 Settings



Change the settings of the system to meet your requirements.



The connection to the web interface is encrypted for security reasons.

After installation the system can be fully administered using a web interface.

In the installation process the IP address of the office network to the system has been allocated. Now use the web browser in your office network to open the web interface. To do this type in the https (= secure protocol) and the IP address of the system (e.g. <https://192.168.1.1>). To access the program quicker in future bookmark the link.

Confirm the security prompt (e.g. Yes, Continue to this website). The 'Internet for Guests - WebAdmin' logon appears.

The system has two predefined users.

Please logon as system administrator 'sysop' and configure the menu settings.



System Administrator [Username: sysop] [Default Password: sysop]



Ticket User [Username: ticket] [Default Password: ticket]



Please note that Username and Password are case sensitive.



For security reasons, please change password.

4.1 General

Change the settings of the system to meet your requirements.



The settings should be made by your IT partner as part of the installation process. To make changes, please follow the instructions of your system administrator.

Value	Description
Company Name	Name of your company/organisation.
Company Address	Address of your company/organisation.
Company Website	Website of your company/organisation.

4.1.1 System

Value	Description	System Default
Operation Mode	<ul style="list-style-type: none"> 'Normal': pay mode; ticket-based Internet access; guests have to buy a 'Surfticket'. 'Freelogon': free Internet access for all guests; logon page appears with the button: Access the Internet for free. 'Autologon': the same as 'Freelogon', but guests log on directly in the Internet. 	Normal
Currency	Abbreviation of the currency (e.g. EUR, USD).	EUR
Time Zone	Select your time zone.	
Keyboard	Keyboard layout for the system console.	
Seamless Roaming	If activated allows a valid online user to roam seamless between interfaces on the same end device (e.g. switching from wired to wireless).	activated
Remember me	If a user gets logged off due to inactivity, he will get logged on again automatically as soon as he is active again. This feature is not working if user logs off manually (e.g. logoff button).	activated
Remember Username	Automatically saves the last logged in username at ticket logon. This way the user only has to enter his password at the next ticket logon.	deactivated

4.2 Network

Change the settings of the system to meet your requirements.



The settings should be made by your IT partner as part of the installation process. To make changes, please follow the instructions of your system administrator.

4.2.1 Network - General

Edit general network settings.

Value	Description
Hostname	Enter a new hostname for customer logon page.
Domainname	Enter a new domainname for customer logon page.
Primary DNS Server	Server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS).
Secondary DNS Server	Server for DNS requests (e.g. settings like other devices within the 'Office-LAN' / provider DNS).
Time Server (NTP)	NTP / Time Server for time synchronization (e.g. ntp.frozentux.org).

4.2.2 Network - Office-LAN (eth1)

Edit network settings for 'Office-LAN'.

Value	Description
IP Address	IP Address of the 'Office-LAN' interface.
Subnet Mask	Subnet Mask of the 'Office-LAN'.
Default Gateway	Default Gateway (usually DSL router, cable router, etc.).
MTU Size	Edit MTU size for 'Office-LAN'.
Routes	Click to get to the routing configuration.
WebAdmin Access	Activate to get 'WebAdmin' access from 'Office-LAN'.
FTP Access	Activate to get FTP access from 'Office-LAN'.
SSH Access	Activate to get SSH access from 'Office-LAN'.

4.2.3 Network - Surf-LAN (eth0)

Edit network settings for 'Surf-LAN'.

Value	Description
IP Address (Unprotected Mode)	IP Address of the unprotected 'Surf-LAN'.
Subnet Mask (Unprotected Mode)	Subnet Mask of the unprotected 'Surf-LAN'.
IP Address (Protected Mode)	IP Address of the protected 'Surf-LAN'.
Subnet Mask (Protected Mode)	Subnet Mask of the protected 'Surf-LAN'.
DHCP Server	Click to get to the DHCP configuration.
Routes	Click to get to the routing configuration.
MTU Size	Edit MTU size for 'Surf-LAN'.
WebAdmin Access	Activate to get 'WebAdmin' access from 'Office-LAN'.
SSH Access	Activate to get SSH access from 'Office-LAN'.

4.2.4 Network - Management-LAN (eth2)

Edit network settings for 'Management-LAN'.

Value	Description
IP Address	IP Address of the 'Management-LAN' interface.
Subnet Mask	Subnet Mask of the 'Management-LAN'.
Routes	Click to get to the routing configuration.
MTU Size	Edit MTU size for 'Management-LAN'.
WebAdmin Access	Activate to get 'WebAdmin' access from 'Office-LAN'.
FTP Access	Activate to get FTP access from 'Office-LAN'.
SSH Access	Activate to get SSH access from 'Office-LAN'.

4.2.5 Network - Surf-LAN Certificate

If default Hostname or Domainname is changed you need to upload your own SSL certificate. Therefore you can generate your own CSR and key file using the CSR generator.

Value	Description
Status	Shows the validation status of the SSL certificate (green = valid).
Certificate File	Select certificate file for upload.
Certificate Key File	Select certificate key file for upload.
Certificate Authority File	Select certificate authority file for upload (if required by SSL certificate).

4.2.6 Bandwidth Management

Edit total bandwidth settings for 'Surf-LAN' or completely deactivate the bandwidth management.

Value	Description	System Default
Status	Shows the service status.	Service running
Total Download Bandwidth	Maximum bandwidth in Kbit/s available to all simultaneous surfers (guests).	2048
Total Upload Bandwidth	Maximum bandwidth in Kbit/s available to all simultaneous surfers (guests).	2048
Fixed Bandwidth	Activate to use a specific part of total bandwidth as fixed bandwidth.	Deactivated
Fixed Download Bandwidth	Reserve a part of the total bandwidth as fixed download bandwidth.	Deactivated
Shared Download Bandwidth	Shows the remaining download bandwidth which will be shared among normal users.	Deactivated
Fixed Upload Bandwidth	Reserve a part of the total bandwidth as fixed upload bandwidth.	Deactivated

Value	Description	System Default
Shared Upload Bandwidth	Shows the remaining upload bandwidth which will be shared among normal users.	Deactivated

4.2.7 SMTP Server

Define an SMTP server to forward emails.

Value	Description
Status	Shows the service status.
Sender	Enter the email address of the sender.
Server	Enter SMTP server of your provider.
Port	Enter port of the SMTP server (default:25).
TLS	Enable data encryption using transport layer security (if supported by remote SMTP server).
SSL	Enable data encryption using secure socket layer (if supported by remote SMTP server).
SMTP Authentication	If SMTP authentication is required, enter username/password to authenticate on remote SMTP server.
Testmail	Send a testmail to check if SMTP configuration works.

4.2.8 SMTP Proxy

Most ISPs (Internet Service Providers) not allow sending eMails from a non-customer account. Most of your customers can receive (POP-Server) their eMails but not send them (SMTP-Server) because they are connected with your ISP. Enter your SMTP Relayhost to enable customers to send eMails via your ISP.

Please contact your system administrator for further information.

Value	Description	System Default
Status	Shows the service status.	Service not running
Mode	<ul style="list-style-type: none"> SMTP Proxy: eMails are sent via the system's SMTP Proxy. Disable SMTP: users are not allowed to send eMails. Direct SMTP: eMails are sent directly. 	SMTP Proxy
SMTP Relayhost	E.g. email.aon.at	
SMTP Authentication	If your ISP requires SMTP Authentication, please activate checkbox and enter Username/Password.	

4.2.9 Public IP

Public IP configuration.



Requires minimum one public ip range and special routing configurations from ISP.



'Office-LAN' Proxy ARP allows you to share the same public IP subnet on the 'Office-LAN' and 'Surf-LAN' interface.

Value	Description	System Default
Status	Shows the service status.	Deactivated
Name	Name and/or description of public ip address pool.	
Start IP Address	Public IP Address range start (e.g.: 192.0.2.1 - hint: omit network address!).	
End IP Address	Public IP Address range end (e.g.: 192.0.2.5).	
Subnet based	Subnet based is recommended. If unchecked clients will get host route to gateway.	
Subnet Mask	Subnet mask of IP Address pool (e.g.: 255.255.255.248).	
Default Gateway	Default Gateway IP Address (e.g.: 192.0.2.6).	
Activate	Set this public ip range active.	

4.3 Ticket

Change the settings of the system to meet your requirements.



The settings should be made by your IT partner as part of the installation process. To make changes, please follow the instructions of your system administrator.

Value	Description	System Default
Prefix	Displays the username on the 'Surfticket' together with the automated ticket numbering (e.g. ticket1, ticket2).	ticket
Password Length	Defines the length of passwords for 'Surftickets'.	5
Expiration Period	Defines the days a user can consume the time credit (e.g. 365 days).	365
Max Idle Time	Time span in minutes after an inactive session (e.g. no network traffic) is automatically logged off.	20
eMail Statistics to	eMail addresses (separated by a comma) to which statistics are to be sent monthly (common CSV file format).	
Session Limit	Defines the download volume in megabyte a user can consume per session (e.g. 50 MB).	200

Ticket Limit	Defines the download volume in megabyte a user can consume for the entire ticket (e.g. 100 MB).	200
Max Download Bandwidth	Defines the default maximum download bandwidth for 'Surftickets'.	200
Max Upload Bandwidth	Defines the default maximum upload bandwidth for 'Surftickets'.	200

4.3.1 Mandatory Fields

Choose or define fields that are mandatory when creating a 'Surfticket' within WebAdmin interface.

4.3.2 Data Collector

The Data Collector allows to define additional user input fields (email, name, mobile number etc.) the user has to fill out at login. The Data Collector templates can then be assigned to ticket templates.

Value	Description
New	Click to create a new data collector template.
Save	Click to save all created data collector templates.
Name	Enter a proper name for the data collector template.
Single Device Template (Max Devices = 1)	<ul style="list-style-type: none"> Disabled: Disables the data collector template if used with a single device ticket template. First Login: The user has to enter the additional data only at first login. Every Login: The user has to enter the additional data at every login.
Multi Device Template (Max Devices > 1)	<ul style="list-style-type: none"> Disabled: Disables the data collector template if used with a multi device ticket template. First Login on any device: The user has to enter the additional data only at first login on ANY device. First Login on each device: The user has to enter the additional data at first login on EACH device. Every Login: The user has to enter the additional data at every login.
User Input 1-9	Select additional data you want the user to enter at login.

4.3.3 VAT

Value	Description	System Default
TOTAL Name	Name of total sum on the 'Surfticket'.	TOTAL

Value	Description	System Default
VAT Description	VAT description on the 'Surfticket' (e.g. Price includes VAT).	Amount received.
Price includes VAT	Defines if the ticket price includes VAT.	Active
VAT Name	Name of VAT on the 'Surfticket'.	VAT
VAT Rate	VAT rate on the 'Surfticket'.	20
NET Name	Name of net sum on the 'Surfticket'.	NET

4.3.4 Invoice

Value	Description	System Default
Invoice active	Defines if an invoice number should be displayed on the 'Surfticket'.	Inactive
Invoice Description	Name of invoice on the 'Surfticket'.	Invoice
Invoice Prefix	Displays the invoice number on the 'Surfticket' together with the automated invoice numbering (e.g. INV1, INV2).	INV
Invoice number value	Displays the invoice number on the 'Surfticket' together with the invoice prefix (e.g. INV1, INV2); you can set the counter at any time (e.g. 100).	

4.3.5 Logo


The logo will appear on top of the 'Surfticket'.

4.3.6 Ticket Template

Define the 'Surfticket' printout design individually for all languages.

4.4 WebAdmin

Change the settings of the system to meet your requirements.

 <p>The settings should be made by your IT partner as part of the installation process. To make changes, please follow the instructions of your system administrator.</p>	
Value	Description
Logon Session expires	Time span in minutes after an inactive session (e.g. no network traffic) is automatically logged off.
Date Format	Choose your desired format.
CSV Separator	Defines which character is used as CSV separator.

Records per page	Defines how many records will be displayed per page when using search functions.
Ticket Format	Defines print format for 'WebAdmin' generated Tickets.
Network Check	Checks your DNS settings and displays an error if the used DNS server is not reachable or has the same IP Address as the used default gateway.
Default Language	If no cookie is set and the browser language is not supported, this language will be preselected at the 'WebAdmin' logon page.
Number Format	Choose your desired format.
Modify 'hosts' File	If your system is Windows-based, you can map the IP Address to the 'WebAdmin' to a special host name by downloading and executing this file. So you can avoid the security alert when accessing the 'WebAdmin'.
Print Note	Print predefined notes on tickets.

4.5 License

Ensure that your system has the latest enhancements. If your Online Update Subscription has expired, we would strongly recommend extending it.

It includes:

- Security Updates
- Minor and Major Releases
- Web Filter Lists for Advanced Web Filter
- Latest Security Certificate for 'Surf-LAN' (<https>)



The settings should be made by your IT partner as part of the installation process. To make changes, please follow the instructions of your system administrator.

Value	Description
Status	Shows if your system is licensed.
Online Update Subscription	System can receive Online Updates until the date specified.
Registration Date.	
Current Version.	
Registration MAC	License is bound on this network card (MAC Address).
Registration Number.	
Registration Password.	
User Limit	Maximum concurrent users who can connect to the Internet within the 'Surf-LAN'.

License Key.	
Modules	Shows available modules and their license status.

4.5.1 Registration

To license your system select a registerable network card (MAC address) and enter your Registration Number and Registration Password as shown on your certificate.

Also the Company Name, Location and Administrator Email Address is required for system notifications.

5 Good to Know

5.1 Automated Backup

- activate and change password for user 'backup' ('WebAdmin')
- download 'Internet_for_Guests_Backup-setup.zip'
- follow the installation guide

5.2 Change IP Address on System Console

- attach monitor and keyboard to the system
- logon as administrator 'sysop'
- enter new IP address in menu 'Sys-Config'
- run automatic netcard detection 'Net-Auto'
- activate changes with service 'Activate'
- restart system

5.3 Reset Password for Administrator 'sysop'



For security reasons, this operation is only possible on system console.

- attach monitor and keyboard to the system
- you see the system console login
- enter string: resetsysop
- press ENTER two times
- the values had been reset to system default

5.4 Reset IP address and Password for Administrator 'sysop'



For security reasons, this operation is only possible on system console.

- attach monitor and keyboard to the system
- you see the system console login
- enter string: resetfactory
- press ENTER two times