

YSoft SafeQ® Client for Linux

Installation and usage Guide

Version 1.5



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1 INTRODUCTION

1.1 PURPOSE OF DOCUMENT

This documentation provides essential information on installation and usage of YSoft SafeQ[®] Client for linux platform.

1.2 GOALS AND OBJECTIVES

YSoft SafeQ[®] Client for Linux is a CUPS extension designed to take advantage of advanced SafeQ print features and provide further benefits to using SafeQ Server print and accounting system. Its purpose is to submit your print jobs to the SafeQ Server (CUPS backend), while collecting further information provided by operating system or user input upon print. Linux version of SafeQ Client supports at the moment only authentication mode=4

- Advanced authentication: Login and password dialog box

1.3 COMPATIBILITY AND SYSTEM REQUIREMENTS

Compatibility with following **YSoft SafeQ** editions is guaranteed:

- YSoft SafeQ PCAS 3.1.5.15 and newer
- YSoft SafeQ PCAS 3.5 Instant Edition
- YSoft SafeQ PCAS 3.6.x Professional and Enterprise Edition

System Requirements for YSoft SafeQ[®] Client for Linux:

- Linux with gtk2.0, dbus, CUPS, Xwindows
- Python 2.5
 - python2.5 package
 - python2.5-minimal package
 - python-dbus package
 - python-gobject package
 - python-gtk2 package

1.4 TERMS AND ABBREVIATIONS

MFD

Multi-Functional Device

Client for Linux YSoft SafeQ[®] Client for Linux



2 INSTALLATION

YSoft SafeQ Client for Linux comes as an all-in-one installation script archive – e.g. *sqclient_linux-1.0.tar*. The installation script checks for the necessary requirements without which it will refuse to install.

Installation files location:

- <SafeQ Install CD>\!SUPPORT\SafeQ Client or
- <SafeQ install CD>\support\YSoft SafeQ Client or
- partners' portal

2.1 INSTALLATION PROCEDURE

- 1. become root
- 2. unpack installation archive sqclient_linux-1.0.tar to obtain install.sh: tar -xf sqclient_linux-1.0.tar
- 3. make the install.sh executable: chmod +x install.sh
- 4. Install the client: ./install.sh

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Before instalation you have to agree the license terms				
STANDARD LICENSE TERMS AND CONDITIONS Y SOFT, s.r.o.				
The License terms and conditions specified hereunder are binding upon all users of all SW devloped, or in any other manner delivered, by the company Y n the Commercial Register maintained by the Municipal Court in Prague under Section C, Entry No. 78857. ID No.: 20197740, with its registered office at 1 2151/18, Postcode: 13000 (hereinafter referred to as the "Company"), irrespective of the method of delivery of the SW.	S P			
Art. I Definition				
1.1 Licensee: Person who, on the basis of ordering a specific License to defined modules or programs of the Company's SW, being granted a License Ce cense fee, is afforded the right to use the Company's SW to the extent and for the time specified in the License Certificate issued by the Company.				
1.2 Company's SW: All SW that is developed and provided by the Company or, as the case may be, all SW to which the Company may, on the basis of any ses to potential Licensees.	<u>,</u>			
1.3 Provided SW: SW whose use was requested by the Licensee, and whose use by the Licensee has subsequently been permitted by the Company to an extense Certificate.	2			
1.4 License Certificate: A certificate issued by the Company to a specific License and with respect to particular Provided SM, on the basis of which ht to use the Provided SM to an extent corresponding with the Company's valid License Tens and Conditions that are valid at the time of the issue of the License Certificate, in particular, contains the date of the granting of the License, the period of time for which the License is granted, the individe the time is granted by the individence is granted, the individence is granted to the License, as well as reference to the current version of License Tense and Conditions stating the extent of th Icenses. and, if applicable, details of persons on whose behalf services may be established by the License Tense and Conditions stating the extent of the Icenses. and, if applicable, details of the provided SM.	h e e			
1.5 Authorised Partner of the Company: A company that has concluded a framework agreement with the Company under which the training of the technical Partner of the Company shall be provided for the purpose of implementing and maintaining the Company's SW.	1			
1.6 License fees: Fees that the Licensee shall be obliged to pay to the Company directly or indirectly (through the Authorised Partner) for the use e fees shall be paid in an amount based on the custome price list that is valid on the date of issue of the License Certificate for the Provided SW, un e Licens ter is otherwise agreed upon with the specific Licensee and confirmed in writing in the License Tertificate.				
Art. II Use of SW				
2.1 Subject of the License	÷.			
Based on the issue of the License Certificate, the Licensee is granted a non-exclusive right to use the Provided SW in the limited scope of its own busin extent stated in the License Certificate. (b) for the period stated in the License Certificate, and (c) under the terms and conditions stated in the cur s and Conditions of YSOFT. If the License is granted for the purpose of providing services to the third persons through the use of the Provided SW (outso may only be used for provision of services to the person listed in the License Certificate.				
··More	$\hat{\mathbf{x}}$			
🔟 Desktop : install.sh				

Illustration 1 - Standard license terms and conditions



5. read the license and if you agree with it, reply yes to license agreement (see Illustration 2)

🔳 Desktop : install.sh 🕲 📀 🗞 😵	5
Ele Edit View Sgrollback Bookmarks Settings Help]
The Licensee is obliged to lodge its warranty claim (i.e. claim for the resolution of a defect in the Provided SW) through the Authorised Partner of the Company which delivered or, as the case may be, which implemented the Provided SW.	• (
2.10 Obligations arising from the Operation of the Provided SW	l
The Provided SW shall be operated and used only for the Licensee's activities, and under the Licensee's supervision and at its liability. The Licensee sh all be solely responsible for (a) assessing and evaluating the effectiveness of the Provided SW for its requirements; (b) ascertaining that the Provided SW is appropriately used with respect to its personnel and computer resources; (c) ensuring that all computers programs and hardware used in conjunction with the Provided SW are in particular free from any defects that adversely affect the functionality and operation of the Provided SW (d) establishing a dequate operating supervision and procedures within the organisation of the Licensee, and (e) for preparing or implementing roubleshooting plans includi ng replacement and safeguarding measures (covering regular and adequate data back-ups and the redundancy of critical systems).	
Where licenses enable the provision of services using the Provided SW to other parties, or the usage of the Provided SW for other parties by the Licensee (outsourcing), the Licensee may use the Provided SW in compliance with the relevant License for provision of services to other parties provided that the Licensee retains full liability for (a) assessing and evaluating the effectiveness of the Provided SW with respect to the assumed requirements, (b) asce rtaining that the Provided SW is appropriately used with respect to its personnel and computer resources and, (c) ensuring that all computer provides of the Provided SW in complexity of the Provided SW the respect to the personnel and computer resources and, (c) ensuring that all computer programs and hardware used in conjunction with the Provided SW are in particular free from any defects that adversely affect the functionality and operation of the P rovided SW, (d) establishing adequate operating supervision and procedures within the organisation where the Provided SW is used, and (e) preparing or im plementing troubleshooting plans including replacement and safeguarding measures (covering regular and adequate data back-up and the redundancy of critic al systems).	
2.11 Liability	l
The Company shall not be liable for any direct or indirect damage (including, but not limited to, damage in the form of business losses, tax penalties, o r other debts to administrative authorities, loss of profit, damage to business relations, and loss or corruption of data) arising on the side of the Lic ensee or other parties to which the Licensee provides its services as a result of the use of the SM in accordance with the content of a concrete license, or arising from the use of the Provided SM. This shall also apply in cases where the Company has been notified in advance of the possibility of such dam age arising. In no case shall the Company's liability towards the Licensee or any third parties arising from the use of the Exposed the License ero value of the provided SM. This shall also on any amount o f damages, exceed the License fee paid by the Licensee for use of the Provided SM and this liability shall cover all of the Licensee's claims for damage s against the Company arising from the granting of the License to the Provided SM and this liability shall cover all of the Licensee's claims for damage ny damage caused by (i) the activities of third parties, or by the services which they provide, (ii) the use of sther SM (or (iii) the medicated saintena nce of the Provided SM (e.g. non-installation of available service packs etc.), including any and all damage caused by other delivered SM or services pro vided by Authorised Partners of the Company.	
Y Soft, s.r.o.	h
Effective date of this version of the License terms and conditions: 1st July 2006 Issue date of this version of the License terms and conditions: 1st July 2006 Dn ynu annee Ly(nl?	
Desktop: instal.sh	-

Illustration 2 - Accept license agreement

- 6. watch the installation process (see Illustration 3):
- 7. perform configuration as directed by the installer script (see section 2.3 for the details):



Illustration 3 - Installation in progress



CONFIGURATION: Don't forget to set up SafeQ Client configuration file: /etc/sqclient.conf

Printer which have to use SafeQ Client must have destination URL: sqport://server_ip/printer_queue

LOGS: There are two log files, one for backend and one for gui. To get backend logs just simply create file /var/log/cups/sqclient_backend.log (this is defaultly created for you) Gui logs are configured via main configuration file.

FIRST TO DO: To get SafeQ port functional you have to reboot your machine (or reload Dbus service, and restart X session)

2.2 INSTALLED FILES

As described above, SafeQ Client for Linux consists of two main parts and configuration files that work together.

- CUPS backend (SafeQ Port)

- /usr/lib/cups/backend/sqport
- /usr/lib/cups/backend/sqport.pyc
- /var/log/cups/sqclient_backend.log
- /etc/logrotate.d/sqport
- SafeQ Client (SafeQ Port GUI) X server application
 - /usr/local/bin/sqport_gui
 - /usr/local/bin/sqport_gui.pyc
 - /usr/share/applications/sqport.desktop
 - /usr/share/autostart/sqport.desktop
 - /etc/xdg/autostart/sqport.desktop
 - /usr/local/share/pixmaps/sqport/ysoft_logo.png
 - /usr/local/share/pixmaps/sqport/ysoft_logo.ico
 - /usr/local/share/pixmaps/sqport/ysoft_logo.gif
 - ~/.sqclient/sqclient.log

- main configuration files

- o /etc/sqclient.conf
- /etc/dbus-1/system.d/sqport.conf



Retry = 5Logs = 0

Log_file = ~/.sqclient/sqclient.log

2.3 POST INSTALLATION INSTRUCTION

a) Edit and configure /etc/sqclient.conf file for correct SafeQ Client operation:

```
***********
# This is main SafeQ Client for linux configuration file
# Example
                         - Description
***********
# ServerIP = 10.0.0.1
                         - IP address of SafeQ server
# ServerPort = 4097
                         - Port number of SafeQ server
\# Retry = 5
                         - How many times ask user
\# Logs = 1
                                     - 0=do not log activity 1=log activity
# Log file = ~/.sqclient/sqclient.log - File where to store logs - YOU MUST CREATE IT BEFORE
ENABLING LOGGING
# To enable backend log just simply create file /var/log/cups/sqclient backend.log
*****
[Main]
ServerIP = 10.0.0.1
ServerPort = 4097
```

```
ServerIP =IP address of the SafeQ Server, on which the SafeQ Secure Port (TCP 4097) has been<br/>enabled (on the web interface in System Settings -> System Settings -> Print System<br/>Settings -> SafeQ Secure Port ---> Yes)ServerPort = 4097default value; modify only if you changed this port on your SafeQ Server<br/>number of retries for authentication before giving up<br/>Logs =Logs =like described above - logging enabled (1) or disabled (0)<br/>Log file =Log file =location of the log file (if Logs = 1). Create an empty file before turning on logging to<br/>enable log writing. The GUI part runs under logged on user account, so this account<br/>has to have write privileges to that location.
```

b) **Restart your computer** (OS) for new SafeQ Client to start up or reload the DBUS service and restart the X server.

c) Configure the printers to use SafeQ Client CUPS backend (SQ Port)

Set up a printer queue in the CUPS web interface (the address is usually <u>http://localhost:631</u>) or modify an existing one (Modify Printer button) to set the backend URI (Device URI) in this format:

sqport://IP_of_SafeQ_Server/queue_name



e.g. sqport://10.0.0.1/secure

where "sqport" indicates that the SafeQ Client CUPS backend will be used for delivering the print job. sqport basically encapsulates the LPD protocol (adding SafeQ authentication), so the rest of the URI scheme is the same as in case of Ipd://

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🛢 🗅 👻 🗟 🙆 🔂 🕼 http://localhost:631/printers/SafeQ_secured 🖄 📼						
Home Administration Classes Documentation/Help Jobs Printers SafeQ_secured						
Description: desc Location: location Printer Driver: Generic PostScript level 2 Printer Foomatic/Postscript (recommended) Printer State: idle, accepting jobs, published. Device URI: sqport://10.0.2.234/secure Print Test Page Stop Printer Reject jobs Move All Jobs Cancel All Jobs Unpublish Printer						
Jobs						
Search in SafeQ secured:						
Show Completed Jobs Show All Jobs						
Showing 5 of 5 active jobs.						

Illustration 4 - Modify Printer

🖕 🔿 👻 🔞 🏠 💽 http://localhost:631/admin 🏠
🕞 Modify Printer - CUPS 1 💥 🕒 Using Network Printers - CU 💥
Home Administration Classes Documentation/Help lobs Printers
Device URI for SafeQ_secured
Device IB: seport://10.0.0.1/secure
Examples:
http://hostname:631/ipp/ http://hostname:631/ipp/portl
ipp://hostname/ipp/ ipp://hostname/ipp/portl
lpd://hostname/queue
smb://servername/printer smb://username:password@workgroup/servername/printer
socket://hostname socket://hostname:9100
See "Network Printers" for the correct URI to use with your printer. Continue

Illustration 5 – Device URI for SafeQ secured



3 SAFEQ CLIENT USAGE

To print using SafeQ Client just hit File -> Print or anything similar to produce a print job (see Illustration 6):

Common UNIX Printing System 1.3.7 Home Administration Classes Documentation/Help Jobs Printers Welcome! These web pages all Definite Location [status Printer Location [status] Printer Location	<u>File Edit ⊻iew History B</u>	pokmarks Iools Help	
Welcome! Frint S Image Quality Advanced These web pages all buttons below to pe Printer Location (status If you are asked for SafeQ_secured location About CUPS Image Quality Advanced Image Quality Advanced	Comme	On UNIX Printing System 1.3.7 Administration Classes Documentation/Help Jobs	™(▼) Printers
Print Pages Copies Object Copies: Reverse Net: Visit the official CUP Nwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	Welcome! These web pages all buttons below to pe (Marching and Class) If you are asked for About CUPS (Marching and Class) For Printer Visit the official CUP (Marching and Class)	Print Ceneral Page Setup Options job Image Quality Advanced Printer Location SafeQ_secured location Print Pages Copies All Corrent. Collister Beverse Cancel Print 	ation tasks. Click on any of th oot" username and password ems. It is developed and mair tem used on MacOS® X and r nanaging print jobs and queu ons to support real-world prin

Illustration 6 - Printing

Note that the authentication dialog would pop-up in your X session (see Illustration 7):

<u>Fi</u> le <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp								
🔶 ▾ 🚭 💿 🏠 🗲 http://localhost:631/			\$} ▼					
Common UNIX Printing Home Administration Classes Door	Syster	m 1.3.7 Help Jobs Printer	rs					
Welcome!								
These web pages allow you to monitor your printers and job buttons below to perform a task.	s as well as pert	form system administratior	tasks. Click on any of th					
Help Add Class Add Printer Manage Classes Manage Job	s Manage Print.	ers Manage Server						
If you are asked for a username and password, enter your login username and password or the "root" username and password.								
About CUPS								
CUPS provides a portable printing promote a standard printing solut CUPS uses the Internet Printing	Y SafeQ Clien	Home - CUPS 1.3.7	oped and main acOS® X and m obs and queue					
browsing and PostScript Printer D	Ý	Username: jack Password:	■ real-world prin					
For Printer Drivers and Assistance	YSOF7	<u>₹0</u> K						
Visit the official CUPS site for printer drivers and assistance:								
www.cups.org								

Illustration 7 - Authentication dialog



Only after successful authentication the print job is delivered to the SafeQ Server, under the credentials of the authenticated user (see Illustration 8):

Adresa 😸 http://127.0.0.1/ma	n.jsp
SafeQ Job list Queues and devices	C SafeQ →
Projects Scan	Show detailed filter
 Scanning setup Scanning with SPI 	Choose a user / a cost centre Search / Refresh Cancel filter
Credit system	B My jobs Job list To print Favourite
Price list	Job list
酸 Periodical credit 🖏 Cash desk list 🏂 Cash desk operations	User / Cost centre Job title Status Date 1. SafeQ Administrator Home _ CUPS 1_3_7 Accepted 6.11.2008 14:54 🎬 🖹 🗋
Credit reporting	Mass operation: -select the action-
Administration Text encryption Yoko logs System settings Users Change password	00× 0× - page 1/1 - <0 <06

Illustration 8 - The print job is successfully delivered to the SafeQ Server

If the authentication is not successful, the print job does not leave CUPS ("backend failure"). The print job stays in the CUPS printer queue in cancelled state, for user to decide on the fate of this print job (i.e. restart, delete, etc).



4 SAFEQ CLIENT UNINSTALL

Uninstall of SafeQ Client is performed by the same installer file, but executed with an "uninstall" parameter.

You need **root privileges**, then execute following command:

- ./install.sh –u
- or alternatively ./install.sh --uninstall



Illustration 9 - SafeQ Client uninstall

After confirming by "y", all files listed in section 2.2 are uninstalled (see Illustration 10).



Illustration 10 - SafeQ Client is successfully uninstalled



5 RELATIONSHIP WITH OTHER DOCUMENTS

This section describes how this guide is related to other documentation:

Nr.	Document	Version	Author
1.			
2.			
3.			
4.			
5.			
6.			
7.			



6 VERSION HISTORY

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Version	Date	Change	Status	Author
1.0	11/2008	Initial version of document	Draft	JOL
1.2	11/2008	Document Update	Draft	PNE
1.2	11/2008	Update after Review	Draft	JMU
1.3	11/2008	Finalization	Accepted	PNE
1.4	10/2009	Compatibility and System Requirements added	Final	PNE
1.5	12/2010	Compatibility and company name updated	Final	PMA

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