



making the MFDs think™

# 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. *sqlclient\_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 *sqlclient\_linux-1.0.tar* to obtain *install.sh*: `tar -xf sqlclient_linux-1.0.tar`
3. make the *install.sh* executable: `chmod +x install.sh`
4. Install the client: `./install.sh`

```

Desktop: install.sh
File Edit View Scrollback Bookmarks Settings Help
Before installation 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 developed, or in any other manner delivered, by the company Y SOFT, s.r.o. in the Commercial Register maintained by the Municipal Court in Prague under Section C, Entry No. 78957, ID No.: 25197740, with its registered office at P 2151/1B, Postcode: 19000 (hereinafter referred to as the "Company"), irrespective of the method of delivery of the SW.

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 Certificate 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 orders to potential Licensees.

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 extent specified in the License Certificate.

1.4 License Certificate: A certificate issued by the Company to a specific Licensee and with respect to particular Provided SW, on the basis of which the Licensee is granted the right to use the Provided SW to an extent corresponding with the Company's valid License Terms 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 individual for which the usage right is granted to the Licensee, as well as reference to the current version of License Terms and Conditions stating the extent of the License, and, if applicable, details of persons on whose behalf services may be established by the Licensee through the use of the Provided SW.

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.

1.6 License fees: Fees that the Licensee shall be obliged to pay to the Company directly or indirectly (through the Authorised Partner) for the use of the Provided SW. The License fees shall be paid in an amount based on the customer price list that is valid on the date of issue of the License Certificate for the Provided SW, unless otherwise agreed upon with the specific Licensee and confirmed in writing in the License Certificate.

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 business, (b) for the period stated in the License Certificate, and (c) under the terms and conditions stated in the License Certificate 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 (outsourcing), the Licensee may only be used for provision of services to the person listed in the License Certificate.

--More--
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)

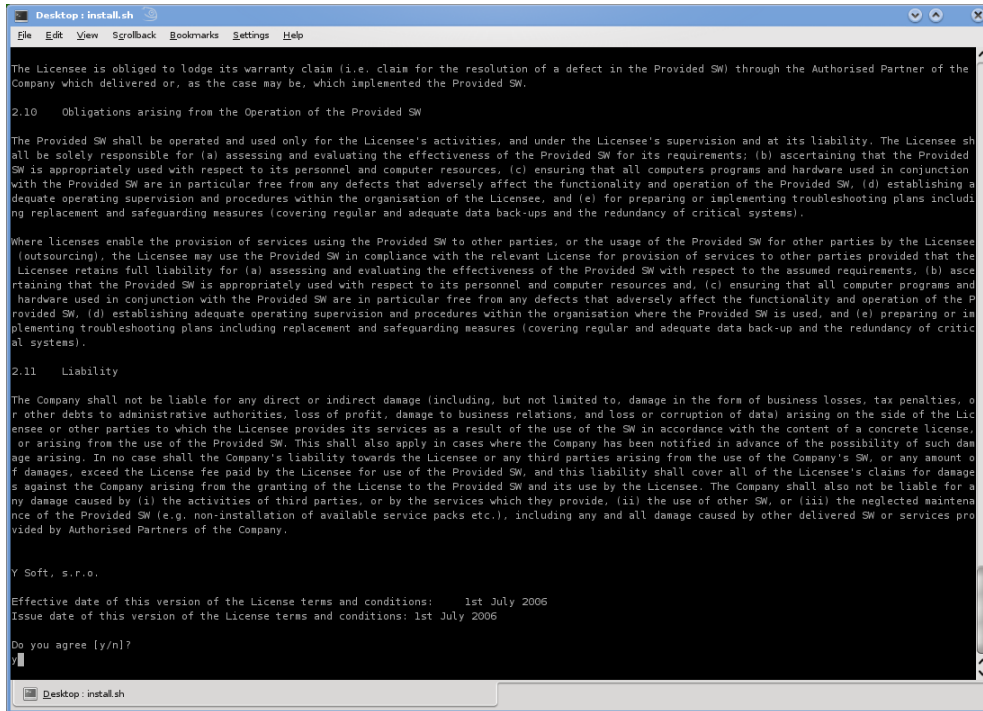


Illustration 2 - Accept license agreement

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

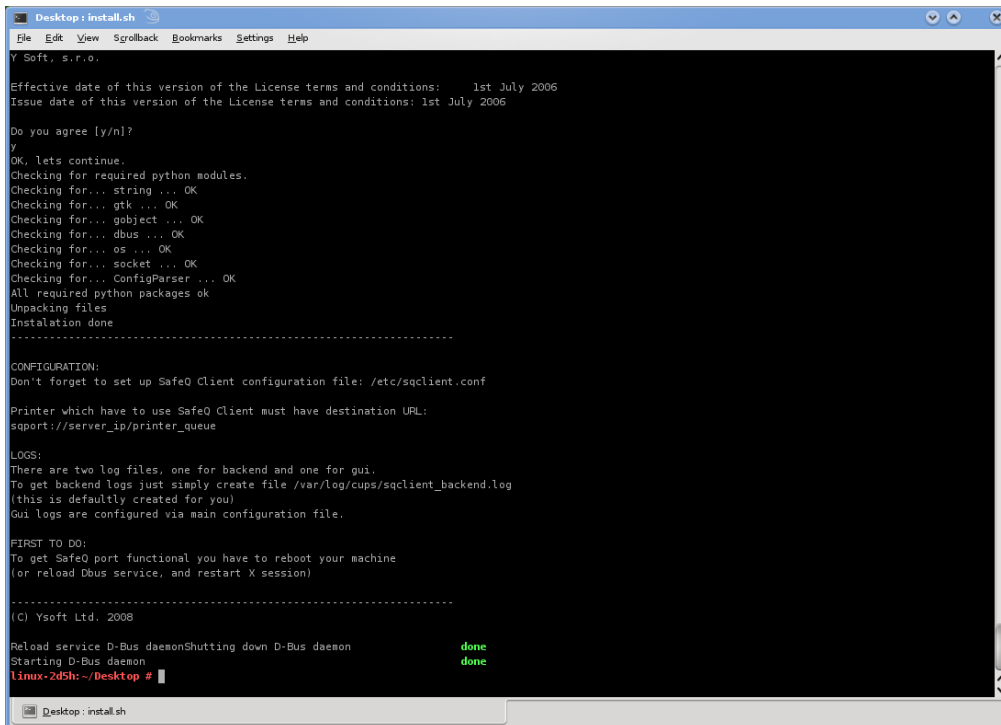


Illustration 3 - Installation in progress

**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)**
  - o /usr/lib/cups/backend/sqport
  - o /usr/lib/cups/backend/sqport.pyc
  - o /var/log/cups/sqclient\_backend.log
  - o /etc/logrotate.d/sqport
  
- **SafeQ Client (SafeQ Port GUI) - X server application**
  - o /usr/local/bin/sqport\_gui
  - o /usr/local/bin/sqport\_gui.pyc
  - o /usr/share/applications/sqport.desktop
  - o /usr/share/autostart/sqport.desktop
  - o /etc/xdg/autostart/sqport.desktop
  - o /usr/local/share/pixmaps/sqport/ysoft\_logo.png
  - o /usr/local/share/pixmaps/sqport/ysoft\_logo.ico
  - o /usr/local/share/pixmaps/sqport/ysoft\_logo.gif
  - o ~/.sqclient/sqclient.log
  
- **main configuration files**
  - o /etc/sqclient.conf
  - o /etc/dbus-1/system.d/sqport.conf

## 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
Retry = 5
Logs = 0
Log_file = ~/.sqclient/sqclient.log
```

ServerIP = IP address of the SafeQ Server, on which the SafeQ Secure Port (TCP 4097) has been enabled (on the web interface in System Settings -> System Settings -> Print System Settings -> SafeQ Secure Port ---> Yes)

ServerPort = 4097 default value; modify only if you changed this port on your SafeQ Server

Retry = number of retries for authentication before giving up

Logs = like described above – logging enabled (1) or disabled (0)

Log file = location of the log file (if Logs = 1). Create an empty file before turning on logging to enable log writing. The GUI part runs under logged on user account, so this account 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 <http://localhost:631>) 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 lpd://

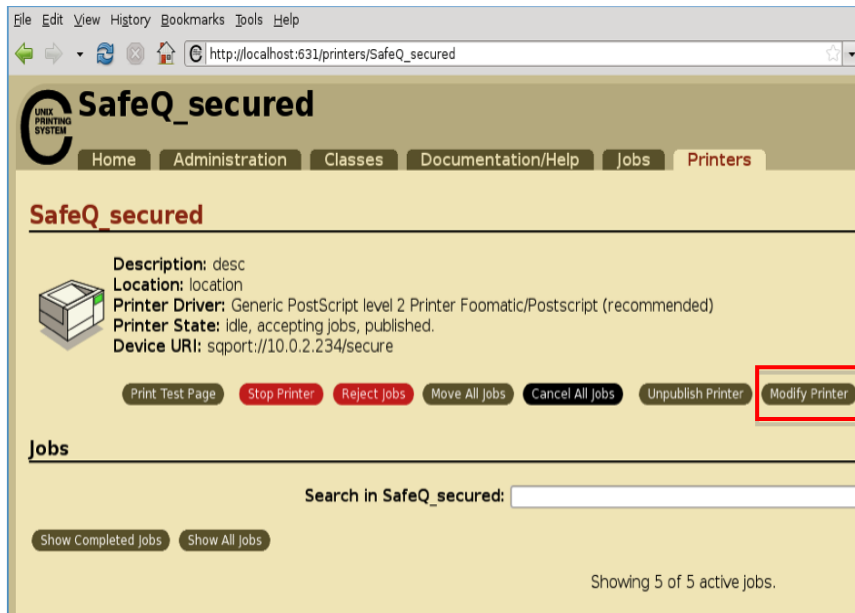


Illustration 4 - Modify Printer

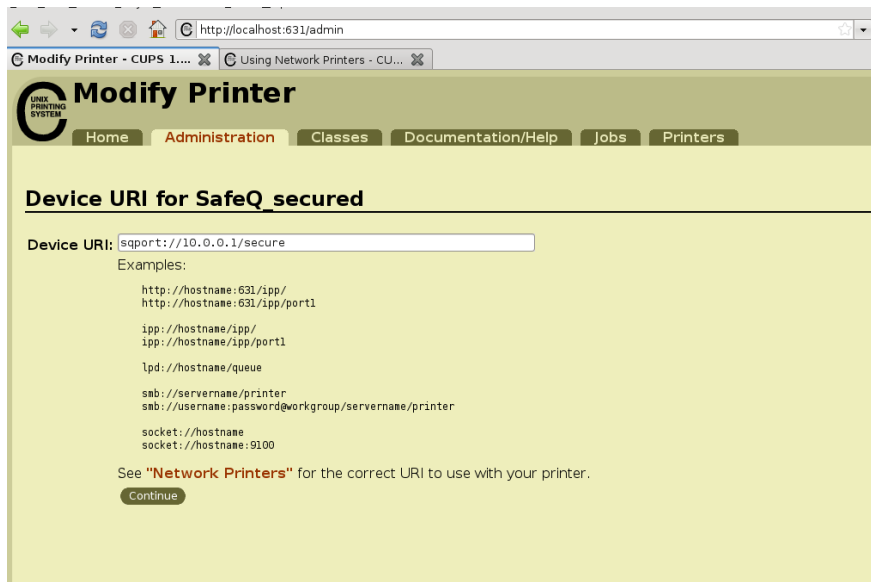


Illustration 5 – Device URI for SafeQ secured

### 3 SAFEQ CLIENT USAGE

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

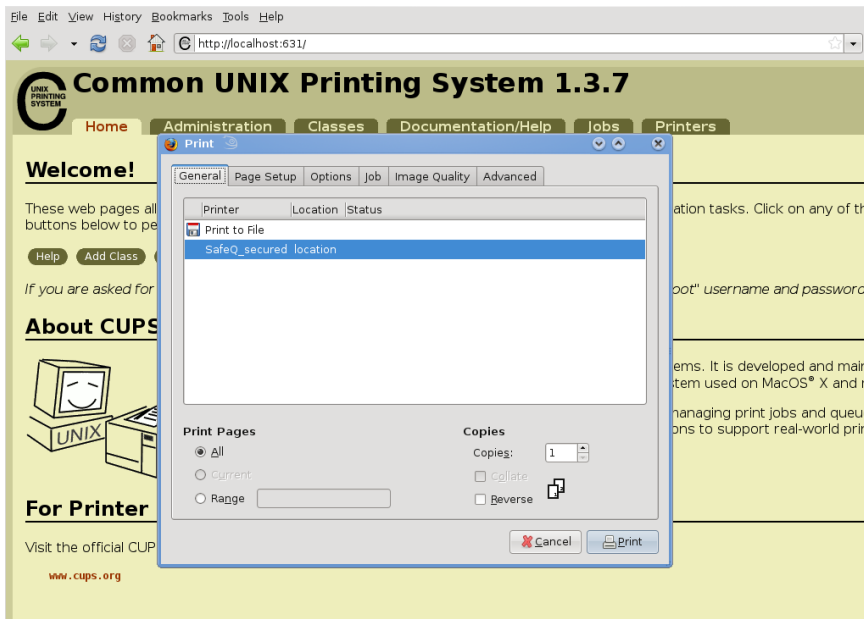


Illustration 6 - Printing

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

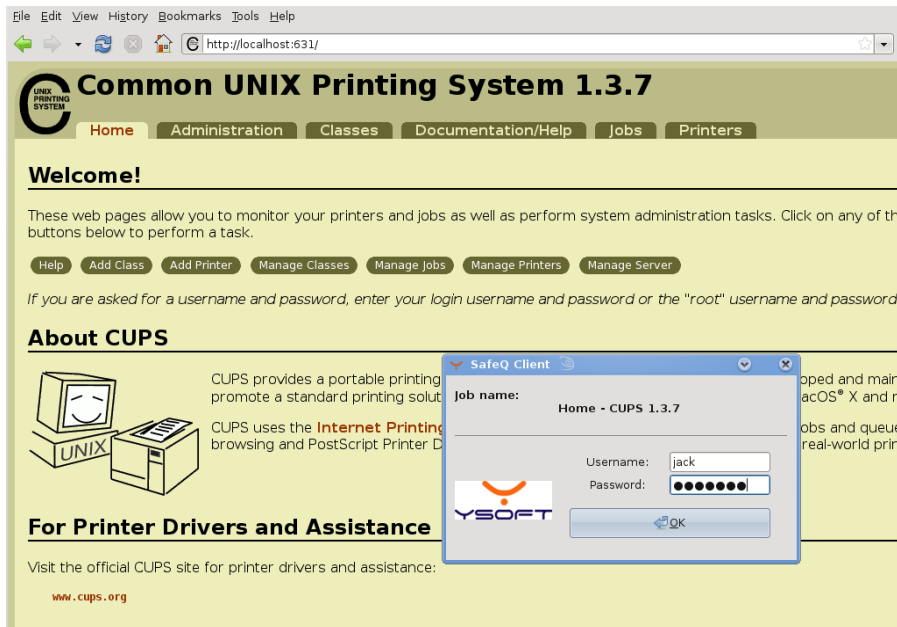


Illustration 7 - Authentication dialog

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

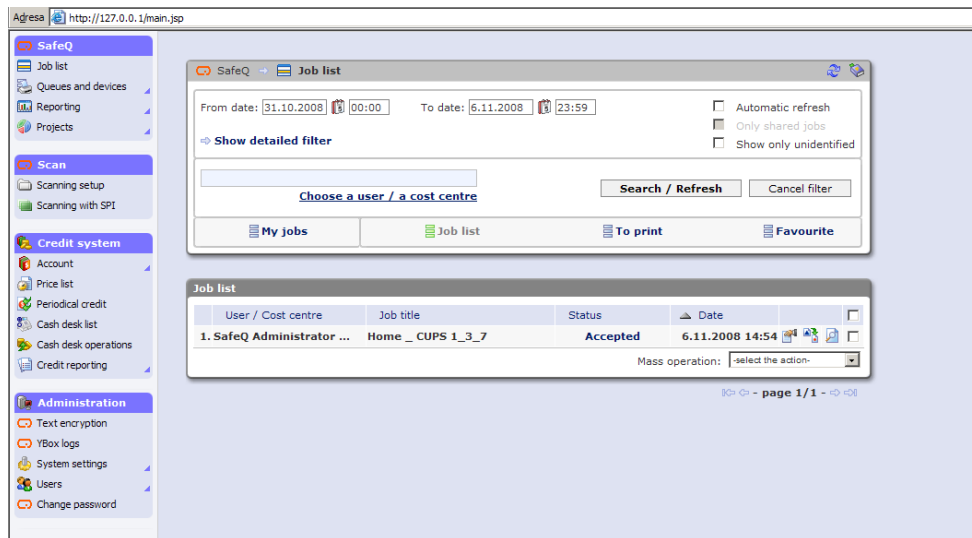


Illustration 8 - The print job is successfully delivered to the SafeQ Server

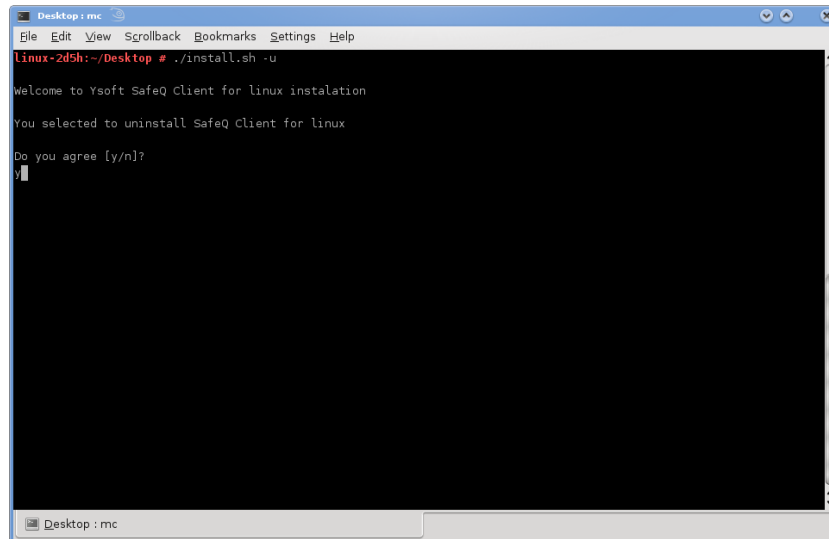
If the authentication is not successful, the print job does not leave CUPS (“backend failure”). The print job stays in the CUPS printer queue in cancelled state, for user to decide on the fate of this print job (i.e. restart, delete, etc).

## 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:

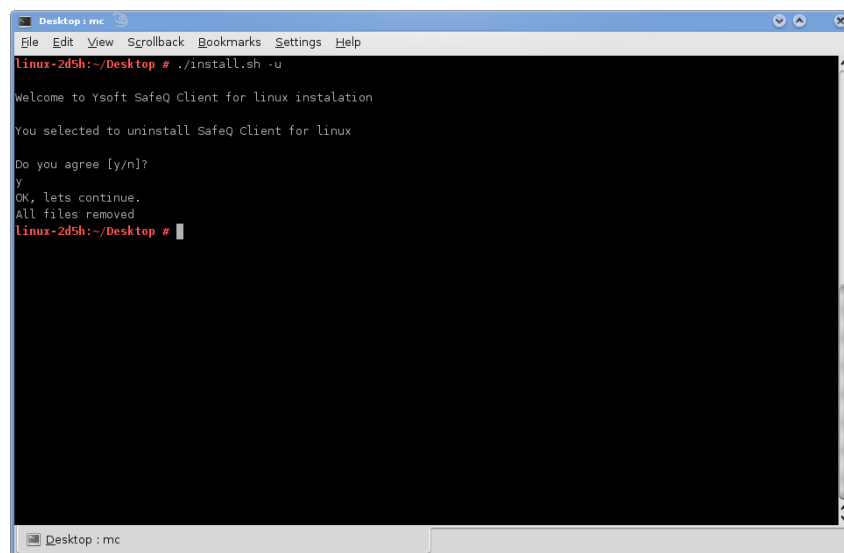
**./install.sh -u** or alternatively **./install.sh --uninstall**



```
Desktop : mc
File Edit View Scrollback Bookmarks Settings Help
Linux-2d5h:~/Desktop # ./install.sh -u
Welcome to Ysoft SafeQ Client for linux instalation
You selected to uninstall SafeQ Client for linux
Do you agree [y/n]?
y
```

Illustration 9 - SafeQ Client uninstall

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



```
Desktop : mc
File Edit View Scrollback Bookmarks Settings Help
Linux-2d5h:~/Desktop # ./install.sh -u
Welcome to Ysoft SafeQ Client for linux instalation
You selected to uninstall SafeQ Client for linux
Do you agree [y/n]?
y
OK, lets continue.
All files removed
Linux-2d5h:~/Desktop #
```

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

Document author/owner: Juraj Olejka <juraj.olejka@ysoft.com>

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