

Software Manual

Linux

Supported Models

- ***TSP100 Series***
- ***TSP650II Series***
- ***TSP700II Series***
- ***TSP800II Series***
- ***mPOP Series***
- ***mC-Print3 Series***
- ***mC-Print2 Series***

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Introduction

This manual explains how to operate the CUPS printer driver using ubuntu 18.04LTS as an example. Images provided are different for other versions of ubuntu or other distributions, but the same procedures can be used.

The printer's IP address must be set in advance to use a printer that supports LAN using this driver. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer in advance. See 3. Guidelines for Using an Ethernet Environment for details on how to set the IP address for the printer.

Test Environment

Distribution	Version	
	USB, Parallel, Ethernet	Bluetooth
Red Hat Enterprise Linux 32bit/64bit	7.4	7.4
CentOS 32bit/64bit	7.4	7.4
openSUSE 32bit/64bit	42.3	42.3
Fedora 32bit/64bit	27*	17
ubuntu 32bit/64bit	18.04 LTS	18.04 LTS

*Bluetooth printers are not supported.
Check OS version to use Bluetooth I/F.

1. Installation/Uninstallation Procedures

1.1 Installing Printer Driver

To install the driver, proceed as follows.

Caution : Before installing the driver, connect the interface cable to the printer and turn on the power.
See the hardware manual for details on how to connect the interface cable.
The new version sometimes cannot be installed if an older version remains installed on your system. In such cases, see section 1.3 to uninstall the old version before installing a new version.

1. Startup the terminal.
2. Use the "su" command to enable root account privileges.
\$ su
3. Expand the starcupsdrv-x.xx.x_linux_yyyymmdd.tar.gz file downloaded via the website or included in the Linux/Cups folder of the attached CD-ROM.
4. Navigate to the directory containing the following rpm files.

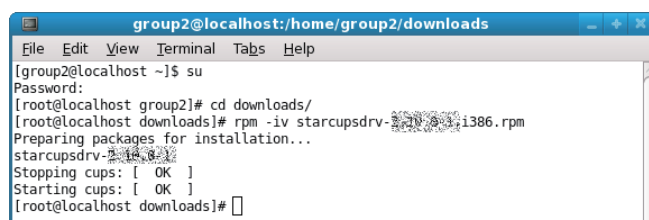
32bit OS	starcupsdrv-x.x.x-x.i386.rpm
64bit OS	starcupsdrv-x.x.x-x.x86_64.rpm

5. Run the rpm command using the 'i' and 'v' switches and the name of the RPM file.

32bit OS	rpm -iv starcupsdrv-x.x.x-x.i386.rpm
64bit OS	rpm -iv starcupsdrv-x.x.x-x.x86_64.rpm

The RPM has been installed.

< For 32bit OS >



```
group2@localhost:/home/group2/downloads
File Edit View Terminal Tabs Help
[group2@localhost ~]$ su
Password:
[root@localhost group2]# cd downloads/
[root@localhost downloads]# rpm -iv starcupsdrv-x.x.x-x.i386.rpm
Preparing packages for installation...
starcupsdrv-x.x.x-x.i386.rpm
Stopping cups: [ OK ]
Starting cups: [ OK ]
[root@localhost downloads]#
```

When using a Bluetooth Interface proceed as follows to install.

Necessary package:

- "bluez-cups"

Install command:

(use the terminal command with administrative privileges.)

yum install bluez-cups

◆ ubuntu installation procedures

It is necessary to install from the source code.

Necessary package

- "gcc"
- "libcups2-dev"
- "libcupsimage2-dev"
- "bluez-cups" (When using a Bluetooth interface)

After making sure that your PC is connected to the internet, perform the following operation to install the three packages above.

```
# sudo apt-get update
# sudo apt-get install gcc
# sudo apt-get install libcups2-dev
# sudo apt-get install libcupsimage2-dev
```

When using a Bluetooth Interface

```
# apt-get install bluez-cups
```

After downloading the starcupsdrv-x.xx.x_linux_yyyymmdd.tar.gz file via the website, copy the file to your PC and perform the following operation.

```
# tar xzvf starcupsdrv-x.xx.x_linux_yyyymmdd.tar.gz
# cd starcupsdrv-x.xx.x_linux
# cd SourceCode
# tar xzvf starcupsdrv-src-x.xx.x.tar.gz
# cd starcupsdrv
# make
# make install
```

Note: The x.x.x-x is module version.

The yyyymmdd is the 8 digit date on which the package was release.

Next, enter the CUPS management screen (<http://localhost:631/admin>).

(Refer to section 1.2. Registering the Printer for details.)

1.2 Registering the Printer

Procedures for registering the printer differ according to the type of interface you use. See the page relating to your environment.

1.2.1 When Using a USB Interface

1. Connect the printer to PC, and then turn on the printer's power switch.
2. Open your favorite web browser and navigate to "http://localhost:631/admin".

The screenshot shows the CUPS Administration web interface. The top navigation bar includes links for CUPS.org, Home, Administration (selected), Classes, Help, Jobs, and Printers. The main content area is titled 'Administration' and contains several sections: 'Printers' with buttons for 'Add Printer', 'Find New Printers', and 'Manage Printers'; 'Classes' with buttons for 'Add Class' and 'Manage Classes'; 'Jobs' with a 'Manage Jobs' button; 'RSS Subscriptions' with an 'Add RSS Subscription' button; and 'Server' settings. The 'Server' section includes buttons for 'Edit Configuration File', 'View Access Log', and 'View Server Status'. Below these are 'Server Settings' with an 'Advanced' link and several checkboxes: 'Share printers connected to this system' (unchecked), 'Allow printing from the Internet' (unchecked), 'Allow remote administration' (unchecked), 'Use Kerberos authentication (FAQ)' (unchecked), 'Allow users to cancel any job (not just their own)' (unchecked), and 'Save debugging information for troubleshooting' (unchecked). A 'Change Settings' button is at the bottom of the settings section. At the bottom of the page, there is a table with two columns: 'Name' and 'Events'. The 'Name' column contains a placeholder '{notify_recipient_name}' and a 'Cancel RSS Subscription' button. The 'Events' column contains a placeholder '{notify_events}'.

3. Click "Add Printer".
Note: When a dialog box is displayed requesting certification, enter the root password and press [Yes].
4. Select the device to which the printer is connected. Then click "Continue".

The screenshot shows the 'Add Printer' dialog box in the CUPS Administration interface. The top navigation bar is the same as the previous screenshot. The main content area is titled 'Add Printer' and contains two sections: 'Local Printers' and 'Discovered Network Printers'. Under 'Local Printers', there are radio buttons for 'HP Printer (HPLIP)', 'CUPS-BRF (Virtual Braille BRF Printer)', 'Serial Port #1', 'Serial Port #2', 'Star MCP31 (STR-001) (Star MCP31 (STR-001))' (selected), and 'HP Fax (HPLIP)'. Under 'Discovered Network Printers', there is a section for 'Other Network Printers' with radio buttons for 'Backend Error Handler', 'Internet Printing Protocol (ipps)', 'Internet Printing Protocol (ipp)', 'AppSocket/HP JetDirect', 'Internet Printing Protocol (http)', 'LPD/LPR Host or Printer', and 'Internet Printing Protocol (https)'. A 'Continue' button is at the bottom of the dialog.

5. In the Add Printer screen, enter "Name:", "Description:" and "Location". Then click "Continue".
Location and Description can be left blank.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:Star_MCP31_

(May contain any printable characters except "/", "#", and space)

Description:Star MCP31 (STR-001)

(Human-readable description such as "HP LaserJet with Duplexer")

Location:

(Human-readable location such as "Lab 1")

Connection:usb://Star/MCP31%20(STR-001)?serial=2222222222222222

Sharing:☐ Share This Printer

Continue

6. Select the printer model/driver. Then click "Add Printer".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:Star_MCP31_

Description:Star MCP31 (STR-001)

Location:

Connection:usb://Star/MCP31%20(STR-001)?serial=2222222222222222

Sharing:Do Not Share This Printer

Make:STAR

Select Another Make/Manufacturer

Model:

Star LS-04 Foomatic/ijet2p (recommended) (en)

Star MCP20 (en)

Star MCP21 (en)

Star MCP31 (en)

Star NL-10 Foomatic/epson (recommended) (en)

Star NX-1001 Foomatic/eps9high (recommended) (en)

Star NX-1001 Foomatic/eps9mid (en)

Star POP10 (en)

Star SP700 Cutter (SP742) (en)

Star SP700 Cutter (SP747) (en)

Or Provide a PPD File:

参照...

Add Printer

Note : In some versions of CUPS, Star model name is not displayed in the model/driver pull-down menu. In such cases, after performing the following, return to the previous page and reregister the printer.

```
$ su
# cp -fr /usr/share/cups/model/star /usr/share/ppd/star
```

Point! The correspondence table for printer models and drivers is shown below.

Series	Model	Driver
TSP100 Series	TSP113U, TSP113GT	Star TSP100 Tear Bar
	TSP143U, TSP143IIIBU	Star TSP100 Cutter
TSP650II Series	TSP654II	Star TSP650 Cutter
TSP700II Series	TSP743II	Star TSP700II
TSP800II Series	TSP847II	Star TSP800II
mPOP Series	POP10	Star POP10
mC-Print3 Series	MCP31L, MCP31LB	Star MCP31
mC-Print2 Series	MCP20, MCP20B	Star MCP20
	MCP21LB	Star MCP21

This completes printer installation and registration.

CUPS.orgHomeAdministrationClassesHelpJobsPrinters

Set Printer Options

Set Default Options for Star_MCP31

GeneralOutput OptionsCut OptionsCash Drawer ControlBuzzer 1 ControlBuzzer 2 ControlData Treatment Recover From Error

General

Media Size:72mm * 200mm

Set Default Options

1.2.2 With the Ethernet Interface

1. Open your favorite web browser and navigate to "http://localhost:631/admin".

CUPS.org
Home
Administration
Classes
Help
Jobs
Printers

Administration

Printers

Add Printer
Find New Printers
Manage Printers

Classes

Add Class
Manage Classes

Jobs

Manage Jobs

RSS Subscriptions

Add RSS Subscription

Server

Edit Configuration File
View Access Log
View Error Log

Server Settings:

Advanced ▶
☐ Share printers connected to this system
☐ Allow printing from the Internet
☐ Allow remote administration
☐ Use Kerberos authentication (FAQ)
☐ Allow users to cancel any job (not just their own)
☐ Save debugging information for troubleshooting
Change Settings

Name	Events
{notify_recipient_name} Cancel RSS Subscription	{notify_events}

2. Click "Add Printer".

Note: When a dialog box is displayed requesting certification, enter the root password and press [Yes].

3. Select the device (LPD/LPR HOST or Printer) to which the printer is connected. Then click "Continue".

CUPS.org
Home
Administration
Classes
Help
Jobs
Printers

Add Printer

Add Printer

Local Printers:
☐ CUPS-BRF (Virtual Braille BRF Printer)
☐ HP Printer (HPLIP)
☐ Serial Port #1
☐ Serial Port #2
☐ HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers:
☐ Backend Error Handler
☐ Internet Printing Protocol (ipp)
☒ LPD/LPR Host or Printer
☐ Internet Printing Protocol (http)
☐ Internet Printing Protocol (https)
☐ Internet Printing Protocol (ipps)
☐ AppSocket/HP JetDirect

Continue

- Specify the printer device on the URI.

Specify the Device URI for the LPD protocols as shown below.

`lpd://<host name>/<queue-name>`

Host name is the IP address of the printer to set. (Check using self-print.)

After entering, click "Continue".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Connection:

Examples:

```
http://hostname:631/ipp/
http://hostname:631/ipp/port1

ipp://hostname/ipp/
ipp://hostname/ipp/port1

lpd://hostname/queue

socket://hostname
socket://hostname:9100
```

See "Network Printers" for the correct URI to use with your printer.

Point! When using port 9100, set the following.

Device: AppSocket/HP Jet Direct

Device URI: [IP address of printer being set] : 9100

For example) `socket://192.168.32.228:9100`

- In the Add Printer screen, enter 'Name:', 'Location:', and 'Description:'. Then click "Continue".
Location, and Description can be left blank.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:

(May contain any printable characters except "/", "#", and space)

Description:

(Human-readable description such as "HP LaserJet with Duplexer")

Location:

(Human-readable location such as "Lab 1")

Connection: `lpd://192.168.32.55/mC-Print3`

Sharing: ☐ Share This Printer

6. Select "STAR" as the Make. Then click "Continue".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: lpd://192.168.32.55/mC-Print3

Sharing: Do Not Share This Printer

Make:

Savin
Seiko
Sharp
Shinko
Sinfonia
SiPix
Sony
STAR
Tally
Tektronix

Continue

Or Provide a PPD File:

参照...

Add Printer

7. Select the printer model/driver. Then click "Add Printer".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: lpd://192.168.32.55/mC-Print3

Sharing: Do Not Share This Printer

Make: STAR

Select Another Make/Manufacturer

Model:

Star LS-04 Foomatic/ijet2p (recommended) (en)
Star MCP20 (en)
Star MCP21 (en)
Star MCP31 (en)
Star NL-10 Foomatic/epson (recommended) (en)
Star NX-1001 Foomatic/eps9high (recommended) (en)
Star NX-1001 Foomatic/eps9mid (en)
Star POP10 (en)
Star SP700 Cutter (SP742) (en)
Star SP700 Cutter (SP747) (en)

Or Provide a PPD File:

参照...

Add Printer

Note : In some versions of CUPS, Star model name is not displayed in the model/driver pull-down menu. In such cases, after performing the following, return to the previous page and reregister the printer.

```
$ su
# cp -fr /usr/share/cups/model/star /usr/share/ppd/star
```

Point! The correspondence table for printer models and drivers is shown below.

Series	Model	Driver
TSP100 Series	TSP113LAN	Star TSP100 Tear Bar
	TSP143LAN, TSP143IIIW, TSP143IIILAN	Star TSP100 Cutter
TSP650II Series	TSP654II	Star TSP650 Cutter
TSP700II Series	TSP743II	Star TSP700II
TSP800II Series	TSP847II	Star TSP800II
mC-Print3 Series	MCP31L, MCP31LB	Star MCP31
mC-Print2 Series	MCP20, MCP20B	Star MCP20
	MCP21LB	Star MCP21

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This completes printer installation and registration.

CUPS.org Home Administration Classes Help Jobs Printers

Set Printer Options

Set Default Options for mC-Print3


General Output Options Cut Options Cash Drawer Control Buzzer 1 Control Buzzer 2 Control Data Treatment Recover From Error

General

Media Size: 72mm * 200mm

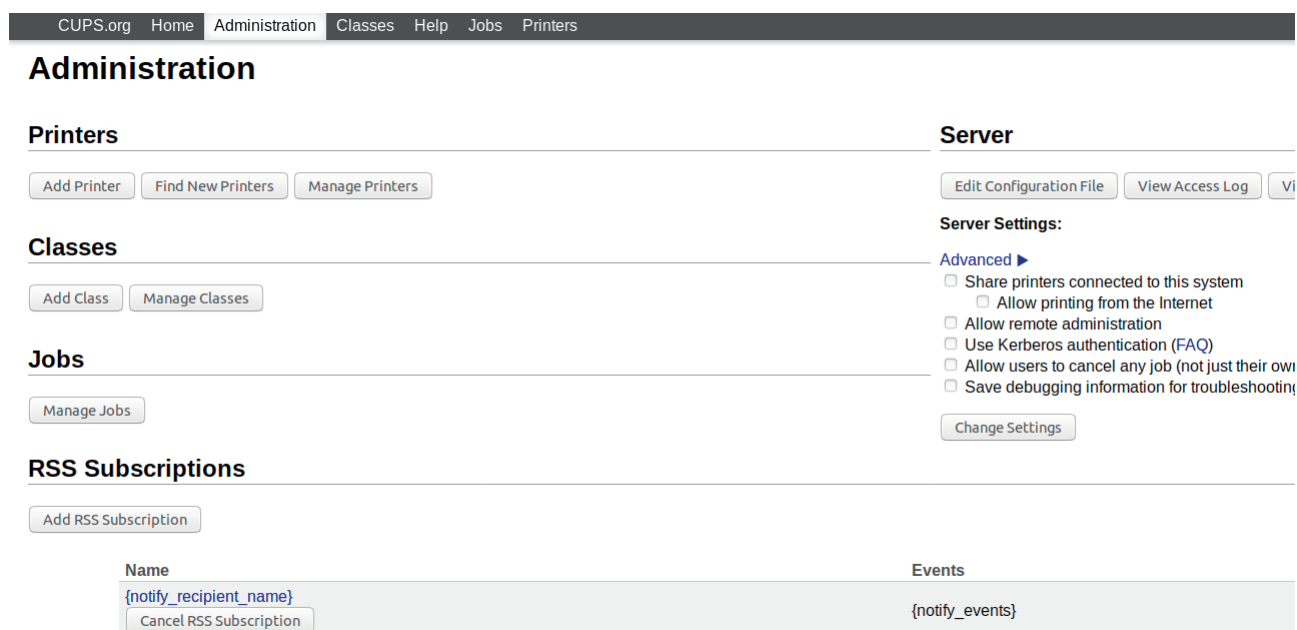
Set Default Options

1.2.3 With the Bluetooth Interface

- 1 To pair them with the bluetooth printer, proceed as follows.
 - 1) Turn the printer power ON.
 - 2) Hold down the button of the bluetooth card for more than 10 seconds to set the pairing mode of the printer. (Excluding TSP100IIIBI, POP10, MCP31LB, MCP20B and MCP21LB)
 - 3) Click Bluetooth icon  , and select "Set up new device". When click "Forward", the system find the printer.
 - 4) Select the printer which is displayed in the Serch panel, and click "Continue". The system start the pairing.

If the pairing is unsuccessful, please try again.

2. Open your favorite web browser and navigate to "http://localhost:631/admin".



3. Click "Add Printer".

Note: When a dialog box is displayed requesting certification, enter the root password and press [Yes].

4. Select the 'LPD/LPR Host or Printer'. Then click "Continue".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Local Printers:

- ☐ CUPS-BRF (Virtual Braille BRF Printer)
- ☐ HP Printer (HPLIP)
- ☐ Serial Port #1
- ☐ Serial Port #2
- ☐ HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers:

- ☐ Backend Error Handler
- ☐ Internet Printing Protocol (ipp)
- ☒ LPD/LPR Host or Printer
- ☐ Internet Printing Protocol (http)
- ☐ Internet Printing Protocol (https)
- ☐ Internet Printing Protocol (ipps)
- ☐ AppSocket/HP JetDirect

Continue

5. Specify the device URI for the printer as shown below and click "Continue".

bluetooth://<<Bluetooth Address>>

ex. bluetooth://0012f31B0804

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Connection:

Examples:

```
http://hostname:631/ipp/
http://hostname:631/ipp/port1

ipp://hostname/ipp/
ipp://hostname/ipp/port1

lpd://hostname/queue

socket://hostname
socket://hostname:9100
```

See "[Network Printers](#)" for the correct URI to use with your printer.

Continue

Point! The Bluetooth address is included in the Bluetooth information printed by self-print (by powering on while pressing the Feed button).

6. In the Add Printer screen, enter "Name:", "Description:" and "Location". Then click "Continue".
Location, and Description can be left blank.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:
(May contain any printable characters except "/", "#", and space)

Description:
(Human-readable description such as "HP LaserJet with Duplexer")

Location:
(Human-readable location such as "Lab 1")

Connection: bluetooth://0012F31B0804

Sharing: ☐ Share This Printer

7. Select "STAR" as the Make. Then click "Continue".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: bluetooth://0012F31B0804

Sharing: Do Not Share This Printer

Make:
Savin
Seiko
Sharp
Shinko
Sinfonia
SiPix
Sony
STAR
Tally
Tektronix

Or Provide a PPD File:

7. Select the printer model. Then click “Add Printer”.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: bluetooth://0012F31B0804

Sharing: Do Not Share This Printer

Make: STAR

Select Another Make/Manufacturer

Model:

Star LC24-100 Foomatic/necp6 (recommended) (en)

Star LC24-200 Foomatic/epson (en)

Star LC24-200 Foomatic/epsonc (recommended) (en)

Star LS-04 - CUPS+Gutenprint v5.2.13 (en)

Star LS-04 Foomatic/ijet2p (recommended) (en)

Star MCP20 (en)

Star MCP21 (en)

Star MCP31 (en)

Star NL-10 Foomatic/epson (recommended) (en)

Star NX-1001 Foomatic/eps9high (recommended) (en)

Or Provide a PPD File:

参照...

Add Printer

Note : In some versions of CUPS, Star model name is not displayed in the model/driver pull-down menu. In such cases, after performing the following, return to the previous page and reregister the printer.

```
$ su
# cp -fr /usr/share/cups/model/star /usr/share/ppd/star
```

Point! The correspondence table for printer models and drivers is shown below.

Series	Model	Driver
TSP100 Series	TSP143IIIBI	Star TSP100 Cutter
TSP650II Series	TSP654II	Star TSP650 Cutter
TSP700II Series	TSP743II	Star TSP700II
TSP800II Series	TSP847II	Star TSP800II
mPOP Series	POP10	Star POP10
mC-Print3 Series	MCP31LB	Star MCP31
mC-Print2 Series	MCP20B	Star MCP20
	MCP21LB	Star MCP21

8. Select “Policies” and set “Error Policy:” to [retry-current-job].

This completes printer installation and registration.

CUPS.org Home Administration Classes Help Jobs Printers

Set Printer Options

Set Default Options for mC-Print3

General

Output Options

Cut Options

Cash Drawer Control

Buzzer 1 Control

Buzzer 2 Control

Data Treatment Recover From Error

General

Media Size:

72mm * 200mm

Set Default Options

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1.2.4 When Using a Parallel Interface

- 1. Open your favorite web browser and navigate to “http://localhost:631/admin”.

CUPS.orgHomeAdministrationClassesHelpJobsPrinters

Administration

Printers

Add PrinterFind New PrintersManage Printers

Classes

Add ClassManage Classes

Jobs

Manage Jobs

RSS Subscriptions

Add RSS Subscription

Name

{notify_recipient_name}

Cancel RSS Subscription

Events

{notify_events}

Server

Edit Configuration FileView Access LogView Error Log

Server Settings:

Advanced

☐ Share printers connected to this system

☐ Allow printing from the Internet

☐ Allow remote administration

☐ Use Kerberos authentication (FAQ)

☐ Allow users to cancel any job (not just their own)

☐ Save debugging information for troubleshooting

Change Settings

- 2. Click “Add Printer”.
Note: When a dialog box is displayed requesting certification, enter the root password and press [Yes].
- 3. In the Add Printer screen, select "LPT #1". Then click “Continue”.

HomeAdministrationClassesOnline Help

Add Printer

Local Printers:

☐ SCSI Printer

☐ Serial Port #1

☐ Serial Port #2

☐ HP Printer (HPLIP)

☒ LPT #1

☐ HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers:

☐ AppSocket/HP JetDirect

☐ Internet Printing Protocol (ipp)

☐ LPD/LPR Host or Printer

☐ Backend Error Handler

☐ Windows Printer via SAMBA

☐ Internet Printing Protocol (http)

Continue

4. In the Add Printer screen, enter "Name:", "Description:" and "Location". Then click "Continue".
Location, and Description can be left blank.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:
(May contain any printable characters except "/", "#", and space)

Description:
(Human-readable description such as "HP LaserJet with Duplexer")

Location:
(Human-readable location such as "Lab 1")

Connection: bluetooth://0012F31B0804

Sharing: ☐ Share This Printer

5. Select "STAR" as the Make. Then click "Continue".

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: bluetooth://0012F31B0804

Sharing: Do Not Share This Printer

Make:

Savin

Seiko

Sharp

Shinko

Sinfonia

SiPix

Sony

STAR

Tally

Tektronix

Or Provide a PPD File:

6. Select the printer model. Then click “Add Printer”.

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name: mC-Print3

Description:

Location:

Connection: bluetooth://0012F31B0804

Sharing: Do Not Share This Printer

Make: STAR

Select Another Make/Manufacturer

Model:

Star LC24-100 Foomatic/necp6 (recommended) (en)

Star LC24-200 Foomatic/epson (en)

Star LC24-200 Foomatic/epsonc (recommended) (en)

Star LS-04 - CUPS+Gutenprint v5.2.13 (en)

Star LS-04 Foomatic/ljet2p (recommended) (en)

Star MCP20 (en)

Star MCP21 (en)

Star MCP31 (en)

Star NL-10 Foomatic/epson (recommended) (en)

Star NX-1001 Foomatic/eps9high (recommended) (en)

Or Provide a PPD File:

参照...

Add Printer

Point! The correspondence table for printer models and drivers is shown below.

Series	Model	Driver
TSP650II Series	TSP654II	Star TSP650 Cutter
TSP700II Series	TSP743II	Star TSP700II
TSP800II Series	TSP847II	Star TSP800II

Note : In some versions of CUPS, Star model name is not displayed in the model/driver pull-down menu. In such cases, after performing the following, return to the previous page and reregister the printer.

```
$ su
# cp -fr /usr/share/cups/model/star /usr/share/ppd/star
```

This completes printer installation and registration.

CUPS.org Home Administration Classes Help Jobs Printers

Set Printer Options

Set Default Options for mC-Print3

General Output Options Cut Options Cash Drawer Control Buzzer 1 Control Buzzer 2 Control Data Treatment Recover From Error

General

Media Size:

72mm * 200mm

Set Default Options

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1.3. Uninstallation Procedures

To uninstall the driver, proceed as follows.

1. Open your favorite web browser and navigate to "http://localhost:631/printers".
2. Select the registered printer queue.

CUPS.org Home Administration Classes Help Jobs Printers

Printers

Search in Printers: Search Clear

Showing 1 of 1 printer.

Queue Name	Description	Location	Make and Model
mC-Print3	mC-Print3		Star MCP31

3. Select the "Delete Printer".

CUPS.org Home Administration Classes Help Jobs Printers

mC-Print3

mC-Print3 (Idle, Accepting Jobs, Not Shared)

Maintenance

Description: mC-Print3
Location:
Driver: Star MCP31 (grayscale)
Connection: bluetooth://0012F31B0804
Defaults: job-sheets=none, none media=iso_a4_210x297mm sides=one-sided

Jobs

Search in mC-Print3: Search Clear

Show Completed Jobs Show All Jobs

Jobs listed in print order; held jobs appear first.

4. Click on the "Delete Printer".

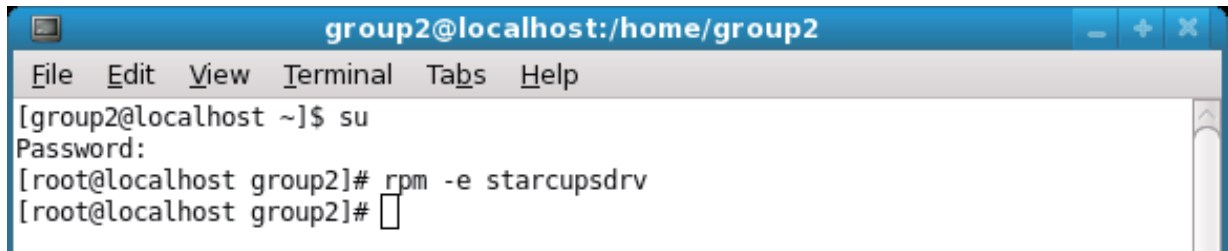
CUPS.org Home Administration Classes Help Jobs Printers

Delete Printer

Delete Printer mC-Print3

Warning: Are you sure you want to delete printer mC-Print3?

5. Startup the terminal.
6. Use the “su” command to enable root account privileges.
\$ su
7. Run the rpm command using the “e” switches.
rpm -e starcupsdrv



```
group2@localhost:/home/group2
File Edit View Terminal Tabs Help
[group2@localhost ~]$ su
Password:
[root@localhost group2]# rpm -e starcupsdrv
[root@localhost group2]#
```

* ubuntu uninstalling procedures

```
$ cd "Source code highest level directory path"
$ su -
# make remove
```

Note : If the folder /usr/share/ppd/star is copied while registering a printer, use the command below to delete the folder.

```
# rm -fr /usr/share/ppd/star
```

2. Setting the Printer Functions

Setting the printer functions is done on the Web browser CUPS management screen.

1. Access the CUPS management screen (<http://localhost:631/admin>) using the web browser.
Click "Manage Printers".

The screenshot shows the CUPS Administration web interface. The navigation bar at the top includes links for CUPS.org, Home, Administration, Classes, Help, Jobs, and Printers. The main content area is titled 'Administration' and contains several sections: 'Printers' with buttons for 'Add Printer', 'Find New Printers', and 'Manage Printers' (which is circled in red); 'Classes' with buttons for 'Add Class' and 'Manage Classes'; 'Jobs' with a 'Manage Jobs' button; and 'RSS Subscriptions' with an 'Add RSS Subscription' button. On the right side, there is a 'Server' section with buttons for 'Edit Configuration File', 'View Access Log', and 'View Server Status'. Below this is the 'Server Settings' section, which includes an 'Advanced' expandable menu with several checkboxes: 'Share printers connected to this system', 'Allow printing from the Internet', 'Allow remote administration', 'Use Kerberos authentication (FAQ)', 'Allow users to cancel any job (not just their own)', and 'Save debugging information for troubleshooting'. A 'Change Settings' button is located at the bottom of the settings section.

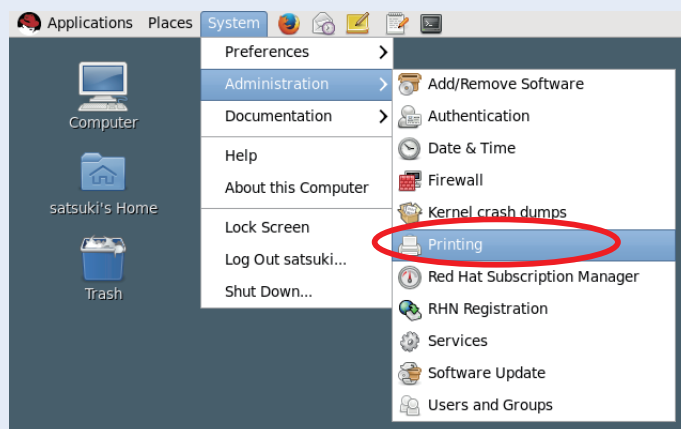
2. An earlier printer driver is registered, so to change the setting.

The screenshot shows the CUPS Administration web interface. The navigation bar at the top includes links for CUPS.org, Home, Administration, Classes, Help, Jobs, and Printers. The main content area is titled 'Printers' and contains a search bar with the text 'Search in Printers:'. Below the search bar, it says 'Showing 1 of 1 printer.' and displays a table with the following columns: Queue Name, Description, Location, Make and Model, and Status. The table contains one row with the following values: mC-Print3, mC-Print3, , Star MCP31, and Idle. Below the table, there is a section titled 'Set Printer Options' for the 'Star MCP31' printer. This section includes a navigation bar with links for General, Output Options, Cut Options, Cash Drawer Control, Buzzer 1 Control, Buzzer 2 Control, Data Treatment Recover From Error, Banners, and Policies. The 'General' tab is selected, and it shows a 'Media Size' dropdown menu set to '72mm * 200mm' and a 'Set Default Options' button.

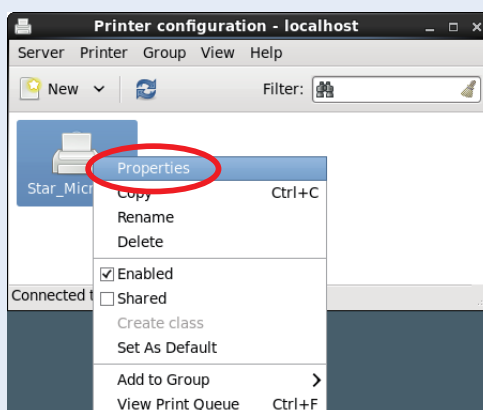
◆ When the printer function is not displayed on the CUPS management screen

With some OSs such like Red Hat 6.6 and CentOS 6.6, the printer function is not displayed on the CUPS management screen. Please set the printer function in the following steps.

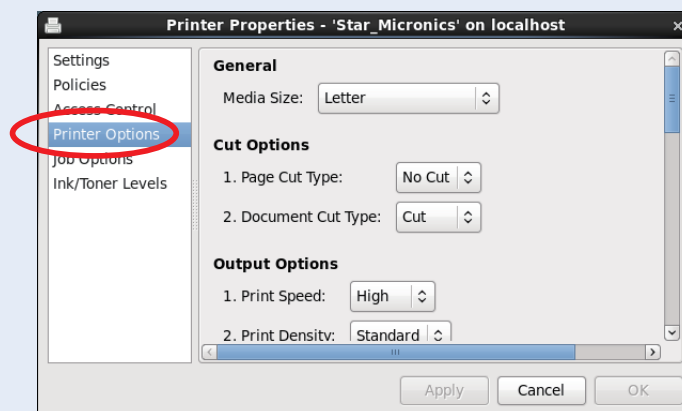
- (1) Open "System - Administration - Printing".



- (2) Right-click on the target printer icon and click "Properties" in the pull-down menu .



- (3) Select [Printer Options] in the menu to display the setting items and set the printer functions.



2.1 Function List

Depending on the printer that you select, the functions that are displayed may differ, and only the ones displayed can be set.

■ General

1. Media Size: (paper size)

The following paper sizes are available and can be set.

Point! When a paper size is selected that exceeds the maximum printing width, the print is shrunk to fit the maximum printing width.

Paper Size	Supported Models				
	TSP 143*	TSP 113**	TSP 654II	TSP 700II	TSP 800II
50.8 * 30mm	○	○	○	○	
50.8 * 40mm	○	○	○	○	
⋮	⋮	⋮	⋮	⋮	
50.8 * 190mm	○	○	○	○	
50.8 * 200mm	○	○	○	○	
50.8 * 1500mm			○	○	
50.8 * 2000mm	○	○	○	○	
52 * 30mm				○	
52 * 40mm				○	
⋮				⋮	
52 * 190mm				○	
52 * 200mm				○	
52 * 1500mm				○	
52 * 2000mm				○	
52.5 * 30mm				○	
52.5 * 40mm				○	
⋮				⋮	
52.5 * 190mm				○	
52.5 * 200mm				○	
52.5 * 1500mm				○	
52.5 * 2000mm				○	
72 * 30mm	○	○	○	○	
72 * 40mm	○	○	○	○	
⋮	⋮	⋮	⋮	⋮	
72 * 190mm	○	○	○	○	
72 * 200mm	○	○	○	○	
72 * 1500mm			○	○	
72 * 2000mm	○	○	○	○	
80 * 30mm				○	
80 * 40mm				○	
⋮				⋮	
80 * 190mm				○	
80 * 200mm				○	
80 * 1500mm				○	
80 * 2000mm				○	

Paper Size	Supported Models				
	TSP 143*	TSP 113**	TSP 654II	TSP 700II	TSP 800II
104 * 30mm					○
104 * 40mm					○
⋮					⋮
104 * 190mm					○
104 * 200mm					○
104 * 1500mm					○
104 * 2000mm					○
A4	○	○	○	○	○
Letter	○	○	○	○	○
Legal	○	○	○	○	○

Paper Size	Supported Models		
	mPOP	mC-Print2	mC-Print3
48 * 100mm	○	○	○
48 * 200mm	○	○	○
48 * 1500mm	○	○	○
50.8 * 100mm	○	○	○
50.8 * 200mm	○	○	○
50.8 * 1500mm	○	○	○
54 * 100mm	○		○
54 * 200mm	○		○
54 * 1500mm	○		○
72 * 100mm		○	
72 * 200mm		○	
72 * 1500mm		○	
A4	○	○	○
Letter	○	○	○
Legal	○	○	○

In some cases, these settings will not work as expected depending on the application being used to print from.

* TSP143(Cutter Model) :TSP100IIW/LAN/BI/U, TSP100IIU, TSP143U, TSP143GT, TSP143LAN

** TSP113(Tear Bar Model) :TSP113U, TSP113GT, TSP113LAN

■Output Options

• Print Speed:

Sets the print speed. Note that the setting also affects the print quality.

Setting	Default	Details
High	✓	Print quality has priority over speed.
Middle *		Print quality and speed are in the middle.
Low		Best quality, but slow print speed.

* Not supported by the mPOP series.

Point! This function is supported by TSP100, TSP650II, TSP700II, TSP800II, mPOP and mC-Print3 series.

• Print Density:

This sets the printing Density.

Setting Value	Default	Details
-3 to -1 *		Larger value with - (minus) makes print density lighter.
Standard	✓	Prints with normal density.
+1 to +3		Larger value with + (plus) makes print density darker.

* Not supported by the mPOP and mC-Print2 series.

Point! This function is supported by 650II, mPOP, mC-Print3 and mC-Print2 series.

• Page Type:

This sets the page type.

Setting	Default	Details
Variable Length	✓	Does not output blank data until the bottom of the page. Receipt ends after final data is printed.
Fixed Length		Outputs blank data as a blank until the bottom of the page. Receipt ends after printing the length specified by paper size.

• Top Search:

Selects whether the printer executes a reverse-feed before print.

Setting	Default	Details
Disable	✓	No reverse-feed before print.
Enable		Executes reverse-feed before print.

Point! This function is supported by TSP700II series and TSP800II series.

Note: This function is available only when the **Cut Options** setting is configured to 'Full Cut'.
The function is not available when 'PartialCut' is selected.

• Top Margin:

Selects whether the printer executes a reverse-feed before print.

Setting	Default	Details
Disable	✓	No reverse-feed before print. The default margins (11 mm) are applied.
2mm to 10mm		Executes reverse-feed before print.

Point! This function is supported by mC-Print3 series.

Limitation for Top Margin Setting :

When the top margin is set to 10 mm or less, the paper length (cut length) should not exceed 50mm.
(If the cut paper remains at the paper-exit, a paper jam may occur. There is no limitation when the cut paper is removed.)

■Cut Options (Cutter Model)

• Page Cut Type:

This sets the cutting method for the end of all pages, excluding the last page.

Setting	Default	Details
No Cut	✓	Does not perform a cut and page feed.
Partial Cut		Feeds paper to cutting position, then cuts the paper, leaving one uncut point in center of paper.
Full Cut *1		Paper is fed to cutting position, then a full cut is applied.

*1 Not supported by model.

• Document Cut Type:

This sets the cutting method for the last page.

Setting	Default	Details
No Cut		Does not perform a cut and page feed.
Partial Cut	✓	Feeds paper to cutting position, then cuts the paper, leaving one uncut point in center of paper.
Full Cut *		Paper is fed to cutting position, then a full cut is applied.
Tear Bar		Paper is fed to the tear bar (cutting position).

*1 Not supported by model.

■Feed Options (Tear Bar Model)

• Page Feed Type:

This sets the page feed operation for the end of all pages, excluding the last page.

Setting	Default	Details
No Feed	✓	The paper feed operation is not performed.
Tear Bar		Paper is fed to the tear bar (cutting position).

• Document Feed Type:

This sets the page feed operation for the last page.

Setting	Default	Details
No Feed		The paper feed operation is not performed.
Tear Bar	✓	Paper is fed to the tear bar (cutting position).

■ Data Treatment Recover From Error

• Data Treatment Recover From Error:

When the error occurs, you can handle the unprinted data which has already been sent to the printer as below.

Setting	Default	Details
No Use		The paper feed operation is not performed.
Clear Data By Document Unit	✓	After the recovery, the unprinted data of the remainder is canceled after the recovery from the error.

Point! This function is supported by TSP650II, TSP700II, TSP800II, mPOP, mC-Print3 and mC-Print2 series.

Note (TSP700II and TSP800II)

This feature does not operate correctly with old firmware.

If you are using TSP700II firmware version less than 3.0 and TSP800II firmware less than 1.2, select "No Use". You can check the firmware version by executing Self-Printing. To update the printer's firmware, contact your STAR dealer.

■ Cash Drawer Control

• Cash Drawer:

This sets the operations of the cash drawer.

Setting Value	Default Value	Details
Do Not Open Drawers	✓	No cash drawer drive.
Open Drawer 1		Drives cash drawer 1 immediately after printing.
Open Drawer 2		Drives cash drawer 2 immediately after printing.
Open Drawer 1 and 2		Drives cash drawers 1 and 2 immediately after printing.

• Cash Drawer 1 Pulse Width:

This sets the cash drawer 1 pulse width.

Setting Value	Default Value	Details
10 milliseconds		Sets the pulse width to 0.01 seconds.
100 milliseconds		Sets the pulse width to 0.1 seconds.
200 milliseconds	✓	Sets the pulse width to 0.2 seconds.
300 milliseconds		Sets the pulse width to 0.3 seconds.
400 milliseconds		Sets the pulse width to 0.4 seconds.
500 milliseconds		Sets the pulse width to 0.5 seconds.
600 milliseconds		Sets the pulse width to 0.6 seconds.
700 milliseconds		Sets the pulse width to 0.7 seconds.
800 milliseconds		Sets the pulse width to 0.8 seconds.
900 milliseconds		Sets the pulse width to 0.9 seconds.
1000 milliseconds		Sets the pulse width to 1.0 seconds.
1100 milliseconds		Sets the pulse width to 1.1 seconds.
1200 milliseconds		Sets the pulse width to 1.2 seconds.

Note : 1) Do not enable the cash drawer and buzzer at the same time.
2) The pulse width for cash drawer 2 is fixed at 200 milliseconds.

■ Buzzer 1 Control and Buzzer 2 Control

• Buzzer 1 (or Buzzer 2):

This sets the drive of either buzzer 1 or buzzer 2.

Setting Value	Default Value	Details
No Use	✓	Buzzer 1 or buzzer 2 is not used.
Document Top		Executes buzzer 1 (or 2) at the top of the document.
Document Bottom		Executes buzzer 1 (or 2) at the bottom of the document.

Cautions : When a device other than a buzzer, such as a cash drawer, is connected, select the 'No Use'. There is the possibility that the connected device and the circuit can be damaged by using the buzzer control command.

• Buzzer 1 (Buzzer 2) - On Time:

This sets the time to ring buzzer 1 or buzzer 2.

Setting Value	Default Value	Details
20 milliseconds	✓	Sets to 0.02 seconds.
40 milliseconds		Sets to 0.04 seconds.
100 milliseconds		Sets to 0.1 seconds.
200 milliseconds		Sets to 0.2 seconds.
500 milliseconds		Sets to 0.5 seconds.
1000 milliseconds		Sets to 1.0 seconds.
2000 milliseconds		Sets to 2.0 seconds.
5000 milliseconds		Sets to 5.0 seconds.

• Buzzer 1 (Buzzer 2) - Off Time:

This sets buzzer 1 or buzzer 2 off time.

Setting Value	Default Value	Details
20 milliseconds	✓	Sets to 0.02 seconds.
40 milliseconds		Sets to 0.04 seconds.
100 milliseconds		Sets to 0.1 seconds.
200 milliseconds		Sets to 0.2 seconds.
500 milliseconds		Sets to 0.5 seconds.
1000 milliseconds		Sets to 1.0 seconds.
2000 milliseconds		Sets to 2.0 seconds.
5000 milliseconds		Sets to 5.0 seconds.

• Buzzer 1 (Buzzer 2) - Repeat:

This sets the number of times to ring buzzer 1 (or buzzer 2) driven by the timing set at 1:Buzzer 1 (or Buzzer 2).

The buzzer will stop regardless of the number of times set to ring by pressing the "FEED".

Setting Value	Default Value	Details
1	✓	Rings buzzer 1 (or buzzer 2) Once.
2		Rings buzzer 1 (or buzzer 2) twice.
3		Rings buzzer 1 (or buzzer 2) three times.
5		Rings buzzer 1 (or buzzer 2) five times.
10		Rings buzzer 1 (or buzzer 2) ten times.
15		Rings buzzer 1 (or buzzer 2) fifteen times.
20		Rings buzzer 1 (or buzzer 2) twenty times.

Note : 1) Do not enable the cash drawer and buzzer at the same time.
2) The buzzer ringing time and off time should not exceed 90 seconds in total.

3. Guidelines for Using an Ethernet Environment

The printer's IP address must be set in advance to use a printer that supports LAN using this driver. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer in advance.

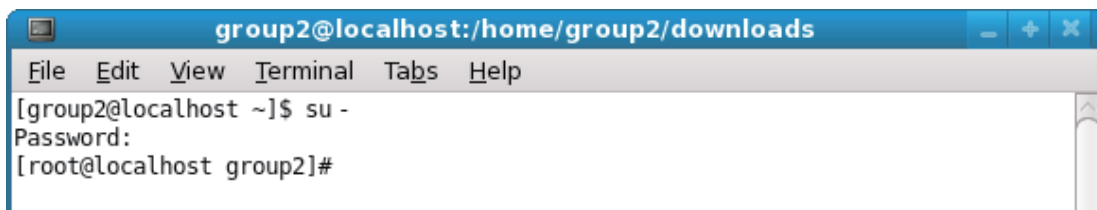
3.1 Setting a Temporary IP Address

Use the following procedures to set a temporary IP address to the printer. By setting a temporary IP address, it is possible to connect to a printer that has not been set with an IP address.

Caution : Printer settings should be done by a user with administrator rights.

Point! A MAC address of the printer to be set is necessary for the temporary IP address. Confirm the MAC address in a self-print from the printer. See the Hardware Manual for details on running a self-print.

1. Startup the terminal.
2. Use the "su" command to enable root account privileges.



3. Execute the following command in the terminal to set a temporary IP address to the printer.

1. `arp -d [Printer temporary IP address]`
2. `arp -s [Printer temporary IP address] [Printer MAC address]`
3. `ping -c 4 [Printer temporary IP address]`
4. `arp -d [Printer temporary IP address]`

Example of temporary IP address (192.168.32.228)

```
arp -d 192.168.32.228
arp -s 192.168.32.228 00:11:62:04:83:98
ping -c 4 192.168.32.228
arp -d 192.168.32.228
```

Note: When you use Ubuntu, do not input "su -" command and input "sudo arp" command instead of "arp" command.

The temporary IP address set here is erased when the printer power is turned off.

Continue by setting the IP address.

Use "exit" command to exit super user status.

3.2 Setting the IP Address (TELNET Utility)

The Telnet command connects directly to the printer to make settings.

1. Startup the terminal.
2. Use the Telnet command to connect to the printer to set.

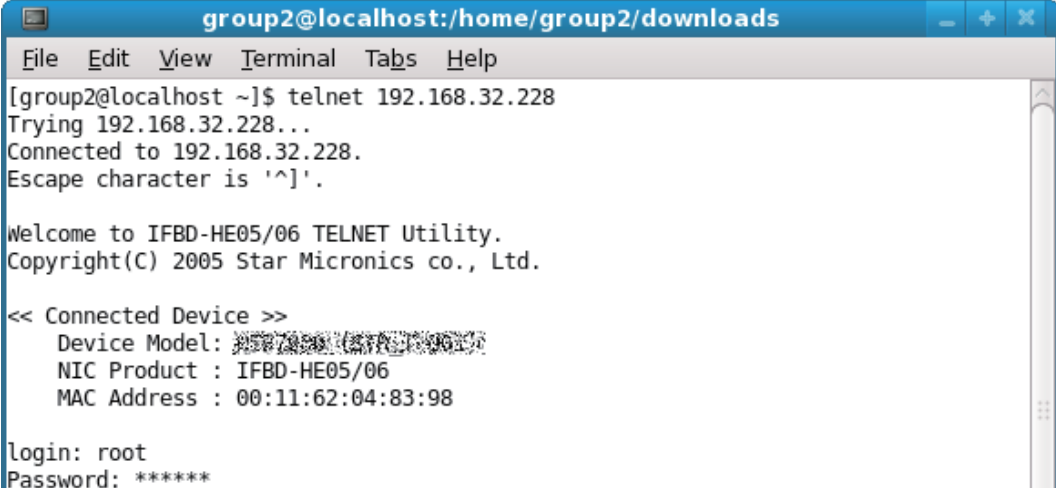
Ex. >telnet 192.168.32.228 (The IP address of the printer to be set.)

Note: You cannot connect to a printer that does not have an IP address. See section 3.1 Setting a Temporary IP Address for details on setting such an address on the printer in advance.

3. Log-in to the printer to be set as a "root" user.

The default password is "public."

To change the password, input the changed password.



```
group2@localhost:/home/group2/downloads
File Edit View Terminal Tabs Help
[group2@localhost ~]$ telnet 192.168.32.228
Trying 192.168.32.228...
Connected to 192.168.32.228.
Escape character is '^]'.

Welcome to IFBD-HE05/06 TELNET Utility.
Copyright(C) 2005 Star Micronics co., Ltd.

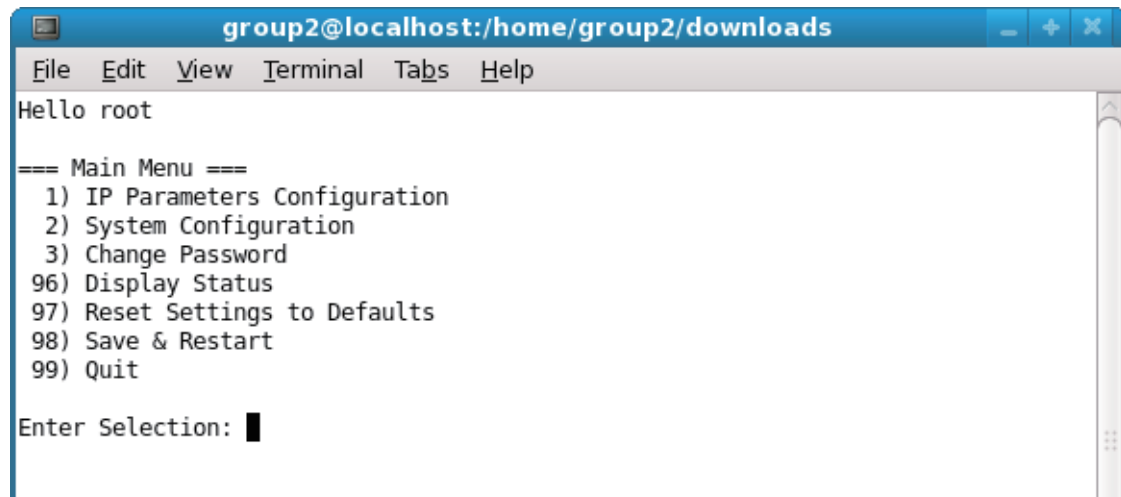
<< Connected Device >>
Device Model: 857299 (379:1:001)
NIC Product : IFBD-HE05/06
MAC Address : 00:11:62:04:83:98

login: root
Password: *****
```

4. The following menu is displayed.

- 1) IP Parameters Configuration
 - 2) System Configuration
 - 3) Change Password
 - 96) Display Status
 - 97) Reset Settings to Defaults
 - 98) Save and Restart
 - 99) Quit
- Enter Selection

Input the number that corresponds to your selection.



The screenshot shows a terminal window titled "group2@localhost:/home/group2/downloads". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The terminal output is as follows:

```
Hello root

=== Main Menu ===
 1) IP Parameters Configuration
 2) System Configuration
 3) Change Password
96) Display Status
97) Reset Settings to Defaults
98) Save & Restart
99) Quit

Enter Selection: █
```

5. When all settings are completed, save the changes using "98(Save and Restart)" - "1(Save & Restart device & Configuration printing)", or "2 (Save & Restart device)". The settings of the printer will be saved. Reset the printer.

4. Guidelines for Using the lpr Command

When printing using the lpr command from the command line, you can specify options with the following format.

```
$lpr -o [option]=[value] -o [option]=[value] ... [Filename]
```

In [option] and [value], specify the name shown in the command "specify name" in section 4.1 List of Supported Functions".

Also for options not specified, print using the default driver settings.

Point! Use the printer name confirmed using the "lpstat -p" command, when specifying the printer name using the option "-P".

Use Example 1

Printer Name : TSP100
File Name : sample1.txt
Paper Size * : 50.8 * 200mm
Margin(top) * : 0mm
Margin(bottom) * : 0mm
Margin(left) * : 0mm
Margin(right) * : 0mm

* This option is not a printer driver option, but an OS standard option.

```
$ lpr -P TSP100 -o media="X50D8MMY200MM"  
-o page-top=0 -o page-bottom=0 -o page-left=0  
-o page-right=0 sample1.txt
```

Use Example 2

File Name : sample2.txt
Print Speed : Low

```
$ lpr -o PrintSpeed=2Low sample2.txt
```

Use Example 3

File Name : sample3.txt
Document Cut Type : No Cut

```
$ lpr -o DocCutType=0NoCutDoc sample3.txt
```

4.1 Function List

See section 2.1 Function List for the details on the functions.

	Option Name		Command		Supported Model							
					TSP 143 *	TSP 113 **	TSP 654II	TSP 743II	TSP 847II	POP 10	MCP 31L/31LB	MCP 20/20B/21LB
	option	value	[option]	[value]								
Output Option	Print Speed	High	PrintSpeed	0High	●	●	●	●	●	●	●	
		Middle		1Middle	○	○	○	○	○		○	
		Low		2Low	○	○	○	○	○	○	○	
	Print Density	-3	PrintDensity	0Minus3			○				○	
		-2		1Minus2			○				○	
		-1		2Minus1			○				○	
		Standard		3ZERO			●			●	●	●
		+1		4Plus1			○			○	○	○
		+2		5Plus2			○			○	○	○
		+3		6Plus3			○			○	○	○
	Page Type	Variable Length	PageType	0Variable	●	●	●	●	●	●	●	●
		Fixed Length		1Fixed	○	○	○	○	○	○	○	○
	Top Search	Disable	TopSearch	0Disable				●	●			
		Enable		1Enable				○	○			
	Top Margin	Disable	TopMargin	0Dsable							●	
		2mm		1Millimeter2							○	
		3mm		2Millimeter3							○	
		4mm		3Millimeter4							○	
		5mm		4Millimeter5							○	
		6mm		5Millimeter6							○	
		7mm		6Millimeter7							○	
		8mm		7Millimeter8							○	
		9mm		8Millimeter9							○	
		10mm		9Millimeter10							○	
Cut Options (Cutter)	Page Cut Type	No Cut	PageCutType	0NoCutPage	●		●	●	●	●	●	●
		Partial Cut		1PartialCutPage	○		○	○	○	○	○	○
		Full Cut		2FullCutPage				○	○	○		○
	Document Cut Type	No Cut	DocCutType	0NoCutDoc	○		○	○	○	○	○	○
		Partial Cut		1PartialCutDoc	●		●	●	●	●	●	●
		Full Cut		2FullCutDoc				○	○	○		○
		Tear Bar		3TearBarDoc					○			
Feed Options (TearBar)	Page Feed Type	No Feed	PageCutType	0NoCutPage		●						
		Tear Bar		1TearBarPage		○						
	Document Feed Type	No Feed	DocCutType	0NoCutDoc		○						
		Tear Bar		1TearBarDoc		●						
Data Treatment Recover From Error	Data Treatment Recover From Error	No Use	DataTreatmentRecoverFromError	0NoUse			○	○	○	○	○	○
		Clear Data By Document Unit		1ClearDataByDocument Unit			●	●	●	●	●	●

* TSP143(Cutter Model) :TSP100IIW/LAN/BI/U, TSP100IIU, TSP143U, TSP143GT, TSP143LAN

** TSP113(Tear Bar Model) :TSP113U, TSP113GT, TSP113LAN

	Option Name		Command Name		Supported Model							
	option	value	[option]	[value]	TSP 143 *	TSP 113 **	TSP 654II	TSP 743II	TSP 847II	POP 10	MCP 31L/ 31LB	MCP20 /20B /21LB
Cash Drawer Control	Cash Drawer	Do Not Open Drawers	CashDrawer Setting	0DoNotOpenDrawers	●	●	●	●	●	●	●	●
		Open Drawer 1		1OpenDrawer1	○	○	○	○	○	○	○	○
		Open Drawer 2		2OpenDrawer2	○	○	○	○	○	○	○	○
		Open Drawer 1 and 2		3OpenDrawer3	○	○	○	○	○	○	○	○
	Cash Drawer 1 Pulsh Width	10 milliseconds	CashDrawer1 PulseWidth	0Millis10	○	○	○	○	○	○	○	○
		100 milliseconds		1Millis100	○	○	○	○	○	○	○	○
		200 milliseconds		2Millis200	●	●	●	●	●	●	●	●
		300 milliseconds		3Millis300	○	○	○	○	○	○	○	○
		400 milliseconds		4Millis400	○	○	○	○	○	○	○	○
		500 milliseconds		5Millis500	○	○	○	○	○	○	○	○
		600 milliseconds		6Millis600	○	○	○	○	○	○	○	○
		700 milliseconds		7Millis700	○	○	○	○	○	○	○	○
		800 milliseconds		8Millis800	○	○	○	○	○	○	○	○
		900 milliseconds		9Millis900	○	○	○	○	○	○	○	○
		1000 milliseconds		10Millis1000	○	○	○	○	○	○	○	○
		1100 milliseconds		11Millis1100	○	○	○	○	○	○	○	○
		1200 milliseconds		12Millis1200	○	○	○	○	○	○	○	○
Buzzer 1 Control/ Buzzer 2 Control	Buzzer 1 / Buzzer2	No Use	Buzzer1Setting /	0NoUse			●	●			●	●
		Document Top	Buzzer2Setting	1DocumentTop			○	○			○	○
		Document Bottom		2DocumentBtm			○	○			○	○
	Buzzer1 - On Time / Buzzer2 - On Time	20 milliseconds	Buzzer1OnTime /	0Millis20			●	●			●	●
		40 milliseconds	Buzzer2OnTime	1Millis40			○	○			○	○
		100 milliseconds		2Millis100			○	○			○	○
		200 milliseconds		3Millis200			○	○			○	○
		500 milliseconds		4Millis500			○	○			○	○
		1000 milliseconds		5Millis1000			○	○			○	○
		2000 milliseconds		6Millis2000			○	○			○	○
		5000 milliseconds		7Millis5000			○	○			○	○
	Buzzer1 - Off Time / Buzzer2 - Off Time	20 milliseconds	Buzzer1OffTime /	0Millis20			●	●			●	●
		40 milliseconds	Buzzer2OffTime	1Millis40			○	○			○	○
		100 milliseconds		2Millis100			○	○			○	○
		200 milliseconds		3Millis200			○	○			○	○
		500 milliseconds		4Millis500			○	○			○	○
		1000 milliseconds		5Millis1000			○	○			○	○
		2000 milliseconds		6Millis2000			○	○			○	○
		5000 milliseconds		7Millis5000			○	○			○	○
	Buzzer1 - Repeat / Buzzer2 - Repeat	1	Buzzer1Repeat /	0Repeat1			●	●			●	●
		2	Buzzer2Repeat	1Repeat2			○	○			○	○
		3		2Repeat3			○	○			○	○
		5		3Repeat5			○	○			○	○
		10		4Repeat10			○	○			○	○
		15		5Repeat15			○	○			○	○
		20		6Repeat20			○	○			○	○

* ● is the default setting value

* TSP143(Cutter Model) :TSP100IIW/LAN/BI/U, TSP100IIU, TSP143U, TSP143GT, TSP143LAN

** TSP113(Tear Bar Model) :TSP113U, TSP113GT, TSP113LAN



URL: <http://www.starmicronics.com/support/>