

Product	LP-2050/LP-1030
Category	Specifications
Document name	Accounting Function Specifications
Version	1.0

OKI Data Infotech Corporation

Development Department

Product Development Section

## Documentation scope

This document explains on the outline of the specifications related to the accounting functions newly added to the TerioStar series printers.

Note that the function has been added to the all supported functions so that it is fully compatible with the printers' current functions.

The improvements added with the Accounting function are outlined as below.

### **(1) Simplify the user authentication**

User authentication, required to calculate the **Print**, **Copy**, **Scan**, and **Submission** operations usage amount, has been simplified. With the improvement, the users can print without entering PIN code.

### **(2) Support accounting function even with user authentication simplified**

Even when the users operate the printer without entering PIN code, the printer calculates the **Print** operation's usage amount.

To support this improvement, the following two information items have been added to the job log file.

- Tracking Login Name
- Tracking Project Name

These two information items can be registered on the job log file with a newly added function to configure a login name and a project name on the TerioStation and Windows printer driver.

Note that this improvement operates only when the TerioStation or OKI Data Infotech Corporation's Windows printer driver is used.

### **(3) Register at maximum 100 projects**

With the improvement at maximum 100 projects can be registered while previously each user could register at maximum five projects.

The registered 100 projects are shared between the all printer users.

### **Note:**

The accounting function is supported only with:

Firmware:	Version 9.13 or higher
TerioStation:	Version 1.70 or higher
Windows printer driver:	Version 2.82 or higher

## 1. Configure the settings for accounting function

This chapter explains the setting procedure to use the accounting function.

### (1) Upgrade firmware

Upgrade the printer's firmware version to 9.12.

### (2) Configure authentication settings

Configure the authentication with the procedure below.

#### (a) Change **Authentication Mode** from **User Authentication Settings** to **PIN Code Authentication**.

#### (b) Configure the settings at the following items.

Copy Authentication: On

Submission Authentication: On

Scan Authentication: On

Print Authentication: Off

#### (c) Configure the settings at the following items.

Login Name in Job Log: Yes

Project Name Management: All Shared Projects

The settings above are explained as below.

#### **Login Name in Job Log**

##### **No:**

The login name specified with the TerioStation or printer driver is not registered on the job log file's Tracking Login Name.

##### **Yes:**

The login name specified with the TerioStation or printer driver is registered on the job log file's Tracking Login Name.

#### **Project Name Management**

##### **User Priority:**

This setting supports the previous user authentication function. Each user can use at maximum five projects.

##### **All Shared Projects:**

This setting supports the newly added function. At maximum 100 projects can be added newly. Their project names are shared between the all authentication function users.

As explained later, the project names can be registered on a web browser, and specified with the TerioStation or printer driver.

⚙️ User Authentication Settings ▸ Auth. Admin Settings

Authentication Mode	PIN Code Authentication	
Copy Authentication	On	
Submission Authentication	On	
ScantoFile Authentication	On	
Print Authentication	Off	
Print Job Auth. Time	3	Hour(s)
Print all confidential documents	Off	

⏪ Back   ⏪ 1 / 2 ⏩ ⏩ OK

⚙️ User Authentication Settings ▸ Auth. Admin Settings

Login Name in Job Log	Yes
Project Name Management	All Shared Projects

⏪ Back   ⏪ 2 / 2 ⏩ ⏩ OK

### (3) Register user name

Register a user name and its PIN codes.

Below is an example when two user names are registered via a web browser.

	User Name Displayed	PIN Code
1	John	1234
2	Jack	7777

[Maintenance](#) >> [User Registration](#) >> Add New User

- Register a user to be affected by the accounting function.
- Request the user to enter his/her PIN code in the **Login Name** field.
- Project name entry is not required.

[Maintenance](#) >> [User Registration](#)

SII

<a href="#">Add New User</a>						
Registered Users						
User Display Name	Login Name	IC Card Authentication	Available Functions	Project Name	LPR Data for User ID	Edit/Delete Registered Users
John	1234	Not Registered	Copy/Submit/Scan/Print		No LPR for Identification	<a href="#">Edit</a> <a href="#">Delete</a>
Jack	7777	Not Registered	Copy/Submit/Scan/Print		No LPR for Identification	<a href="#">Edit</a> <a href="#">Delete</a>

(4) Register project name

Register a project name on the printer with a web browser.

Note that the project names shared by all users, supported with the latest firmware, are not registered on the operation panel.

Below is an example when three project names, **test1**, **test2**, and **test3** are registered.

No.	Project Name	Project Operation
1	test1	Add/Edit Delete
2	test2	Add/Edit Delete
3	Not Registered	Add/Edit
4	Not Registered	Add/Edit
5	Not Registered	Add/Edit

Register Cancel

No. 3

Project Name test3

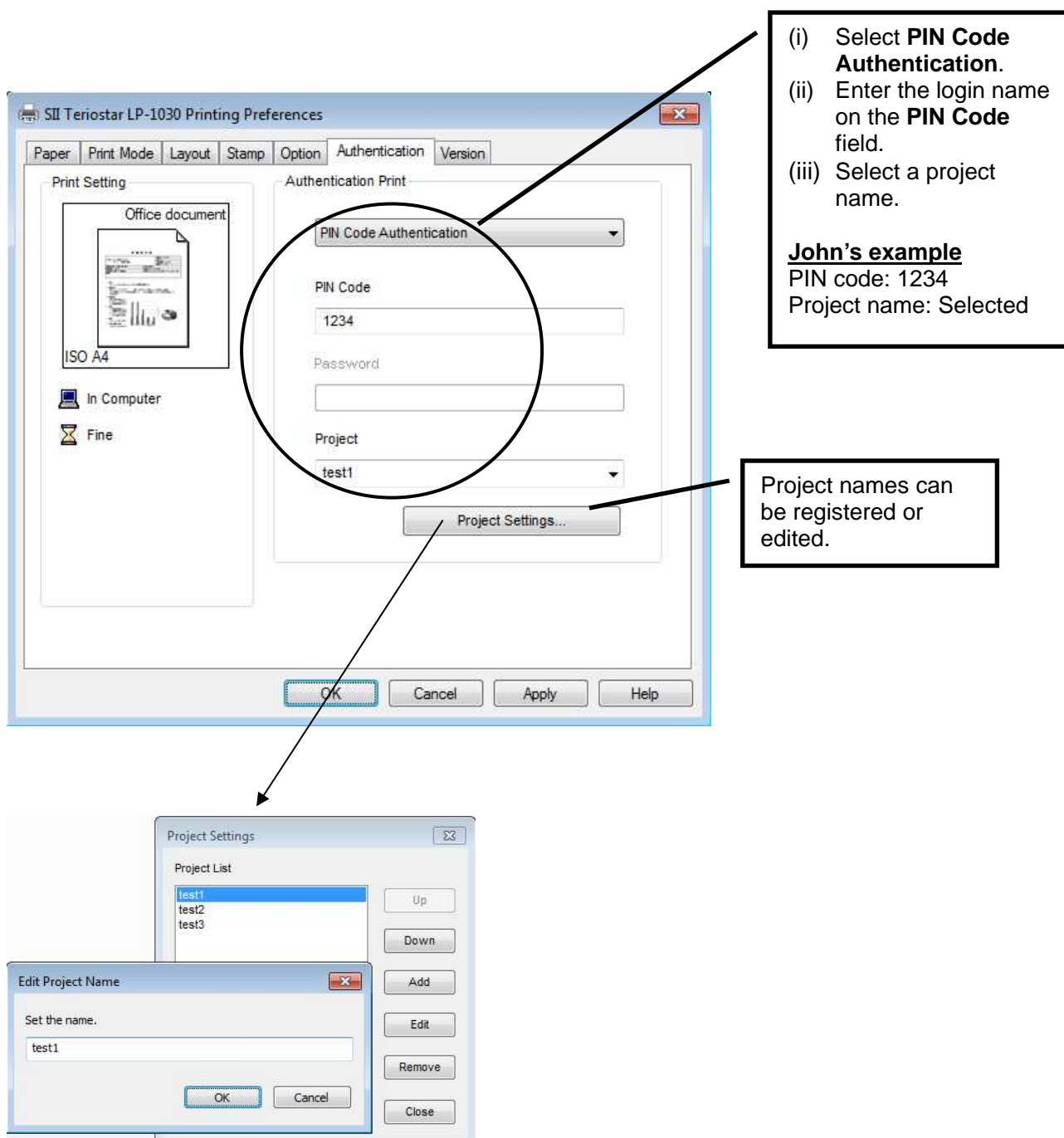
## 2. Operate print function

This chapter explains the operation procedure on the TerioStatin and Windows printer driver.

### (1) Upgrade Windows printer driver

- (a) Upgrade the Windows printer driver version to 2.82.
- (b) Select **PIN Code Authentication** as the picture below shows.
- (c) On the **PIN Code** field, enter the login name to be affected by the calculation.
- (d) If you want to enter a project name used for the calculation, select the project name.

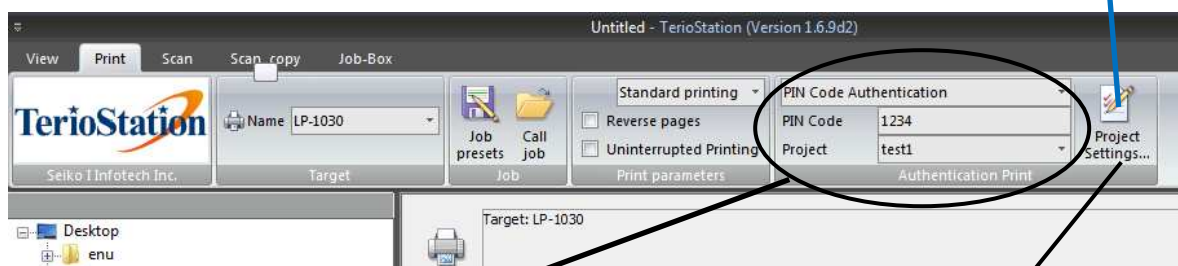
Note that project names can be registered or edited with pressing **Project Settings**. At maximum 20 project names can be registered.



(2) Upgrade TerioStation

- (a) Upgrade the TerioStation version to 1.70.
- (b) Select **PIN Code Authentication** as the picture below shows.
- (c) On the **PIN Code** field, enter the login name to be affected by the calculation.
- (d) If you want to enter a project name used for the calculation, select the project name.  
Note that project names can be registered or edited with pressing **Project Settings**. At maximum 20 project names can be registered.

Project names  
can be  
registered or  
edited.



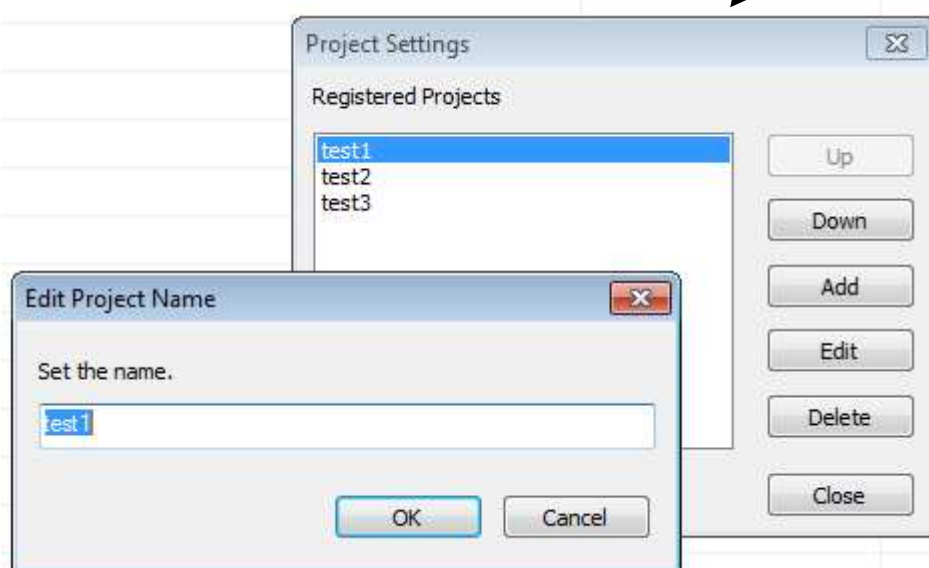
- (i) Select **PIN Code Authentication**.
- (ii) Enter the login name on the **PIN Code** field.
- (iii) Select a project name.

**John's example**

PIN code: 1234

Project name: Relevant

project name is selected

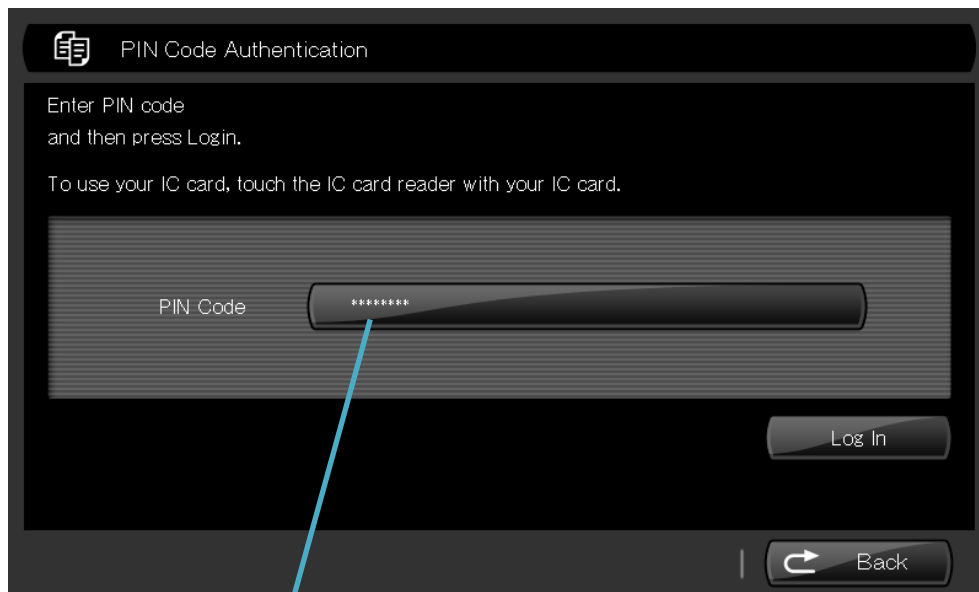




### 3. Operate Copy, Scan, and Submission functions

This chapter explains the procedure to operate Copy, Scan, and Submission functions.

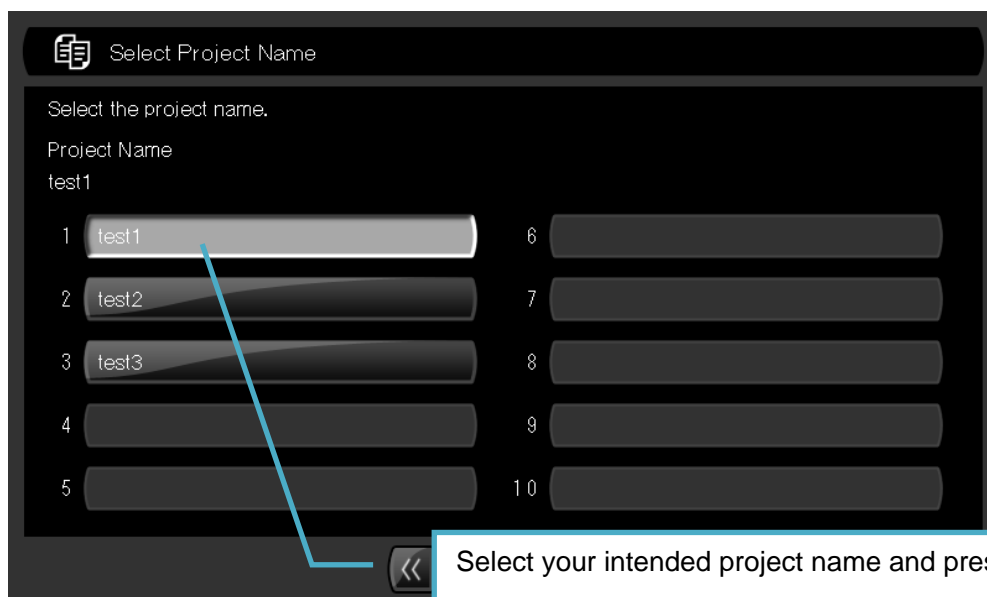
- (1) On the operation panel, press your intended function button, Copy, Scan, or Submission. Then enter your PIN code and press **Log In**.



Enter your PIN code and press **Log In**.

**John's example**  
PIN code: 1234

- (2) Select your intended project name and press **OK**.



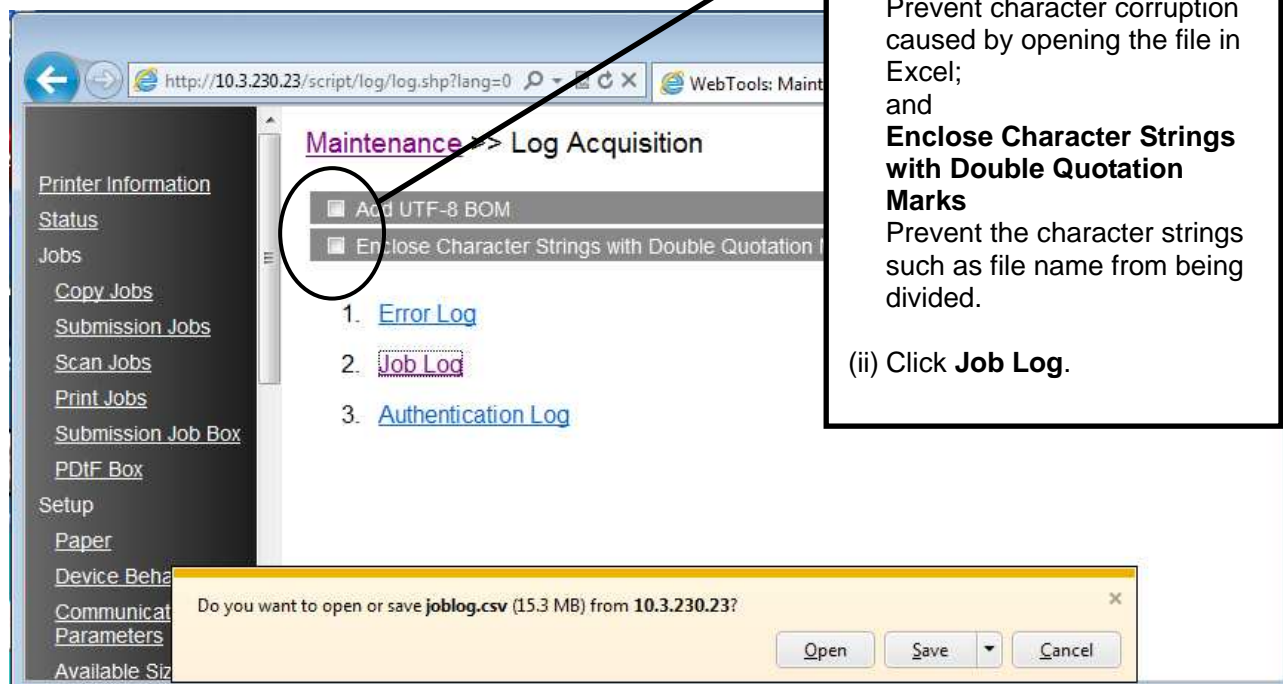
Select your intended project name and press **OK**.

**John's example**  
Relevant project name was selected.

## 4. Operate calculation

This chapter explains the procedure to calculate the users' usage amount. The amount is calculated with Excel's pivot function.

(1) From the printer, acquire a job log file.

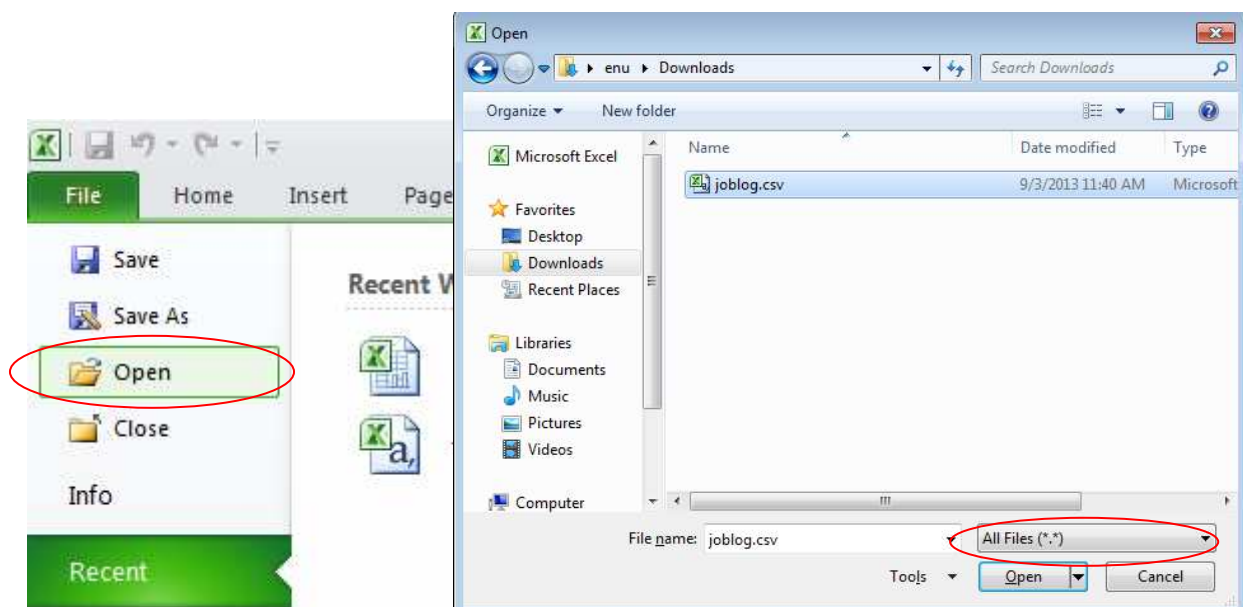


The screenshot shows a web browser window with the URL <http://10.3.230.23/script/log/log.shp?lang=0>. The page title is "Maintenance > Log Acquisition". On the left is a sidebar menu with items like "Printer Information", "Status", "Jobs", "Copy Jobs", "Submission Jobs", "Scan Jobs", "Print Jobs", "Submission Job Box", "PDF Box", "Setup", "Paper", "Device Behavior", "Communication Parameters", and "Available Size". The main content area has two checkboxes: "Add UTF-8 BOM" and "Enclose Character Strings with Double Quotation Marks", both of which are unchecked. Below these are three links: "1. Error Log", "2. Job Log", and "3. Authentication Log". A callout box points to the checkboxes with the following text:

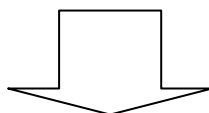
- (i) Uncheck the two boxes for:  
**Add UTF-8 BOM**  
Prevent character corruption caused by opening the file in Excel;  
and  
**Enclose Character Strings with Double Quotation Marks**  
Prevent the character strings such as file name from being divided.
- (ii) Click **Job Log**.

At the bottom, a dialog box asks: "Do you want to open or save **joblog.csv** (15.3 MB) from 10.3.230.23?". It has "Open", "Save", and "Cancel" buttons.

(2) Open the acquired job log file with Excel sheet.



The image shows two screenshots. The left screenshot is of the Microsoft Excel ribbon, with the "File" tab selected. The "Open" button in the "Recent" group is circled in red. The right screenshot is of a Windows Explorer window showing the "Downloads" folder. The file "joblog.csv" is selected. The "File name" field at the bottom contains "joblog.csv", and the file type dropdown is set to "All Files (\*.\*)", which is also circled in red. The "Open" button is visible at the bottom right.



**Text Import Wizard - Step 3 of 3**

This screen lets you select each column and set the Data Format.

**Column data format**

- ☒ General
- ☐ Text
- ☐ Date: MDY
- ☐ Do not import column (skip)

'General' converts numeric values to numbers, date values to dates, and all remaining values to text.

**Advanced...**

**Data preview**

General	General	General	General	General	General	General	General	General	General	General	General	General
Job Log List												
LP-2030												
2013/9/3 11:37												
System Version	9.09											
Logfile ID	UJM1											

**Cancel** **< Back** **Next >** **Finish**

(3) Configure the settings of the filter for calculation.

- (i) Click the data row.
- (ii) Press **Filter**.

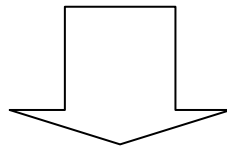
The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. The 'Filter' button in the 'Sort & Filter' group is highlighted with a red circle. A red arrow points from the instruction '(ii) Press Filter.' to this button. Below the screenshot, the same Excel window is shown with the 'Filter' button active, and the data table has dropdown arrows in the header row, indicating that filtering is enabled.

Log	Job	User Nam	Project N	Job Sta	Proc Sta	Job End	Job Typ	Result	Sta	Src IP-add	Src Host	N Src U
68302	0x00010CA5			#####	#####	9/3/2013 11:37	PRINT	NORMAL		10.3.74.10	DS2011D0	hh86
68301	0x00010CA4			#####	#####	9/3/2013 11:35	PRINT	NORMAL		10.3.230.1	DSPANA01	hh08
68300	0x00010CA3			#####	#####	9/3/2013 11:35	PRINT	NORMAL		10.3.230.1	DSPANA01	hh08
68299	0x00010CA2			#####	#####	9/3/2013 11:34	PRINT	NORMAL		10.3.230.1	DSPANA01	hh08
68298	0x00010CA1			#####	#####	9/3/2013 11:27	PRINT	NORMAL		10.3.230.1	ds2011d0	SYST
68297	0x00010CA0			#####	#####	9/3/2013 11:22	PRINT	NORMAL		10.3.74.10	10.3.230.8	hh83
68296	0x00010C9E			#####	#####	9/3/2013 11:18	PRINT	NORMAL		10.3.74.10	DS2011D0	he0C
68295	0x00010C9F			#####	#####	9/3/2013 11:18	PRINT	NORMAL		10.3.230.1	ds2011d0	SYST

- (4) Extract the data for calculation. As an example, the pictures below shows that the data from August 1, 2013 to August 31, 2013 is extracted from the job log list.

The screenshot shows a data table with columns: Job Sta, Proc Sta, Job End, Job Type, Result, and Src IP-a. A red box highlights the 'Job Type' column header with the text 'Select G column.' (Note: The column is labeled 'Job Type' in the image, but the text says 'G', which might be a typo or refer to a specific column index). Another red box highlights the 'Data Filters' button in the left sidebar with the text 'Select Data Filters -> Between.' A third red box highlights the 'Between...' option in the filter dropdown menu.

Job Sta	Proc Sta	Job End	Job Type	Result	Src IP-a
			PRINT	NORMAL	10.3.74
			PRINT	NORMAL	10.3.23
			PRINT	NORMAL	10.3.23
			PRINT	NORMAL	10.3.23
			PRINT	NORMAL	10.3.23



The 'Custom AutoFilter' dialog box is shown. It has a title bar with a question mark and a close button. The main area is titled 'Show rows where:' and contains two filter rows. The first row is for 'Job End' with the condition 'is after or equal to' and the date '8/1/2013'. The second row is for 'Job End' with the condition 'is before or equal to' and the date '8/31/2013'. The 'And' radio button is selected between the two rows. At the bottom, there are 'OK' and 'Cancel' buttons. A red circle highlights the 'OK' button.

Custom AutoFilter

Show rows where:

Job End

is after or equal to 8/1/2013

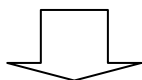
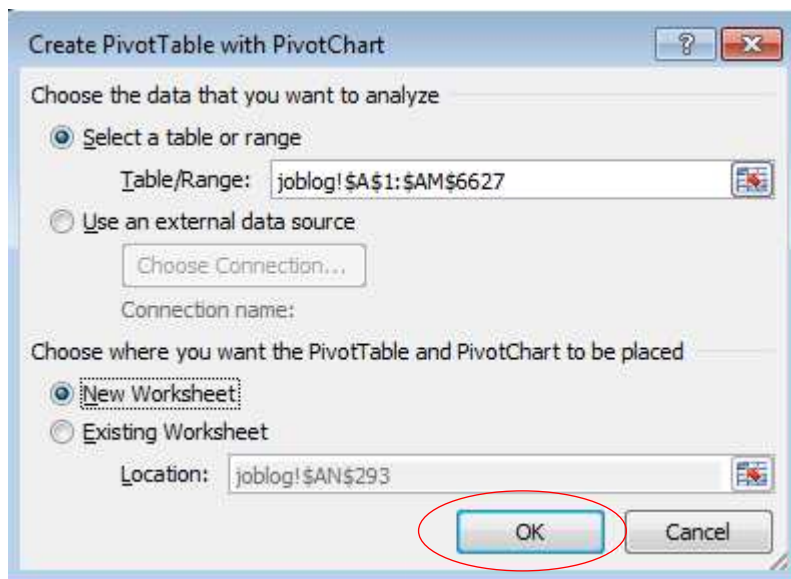
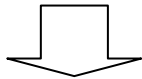
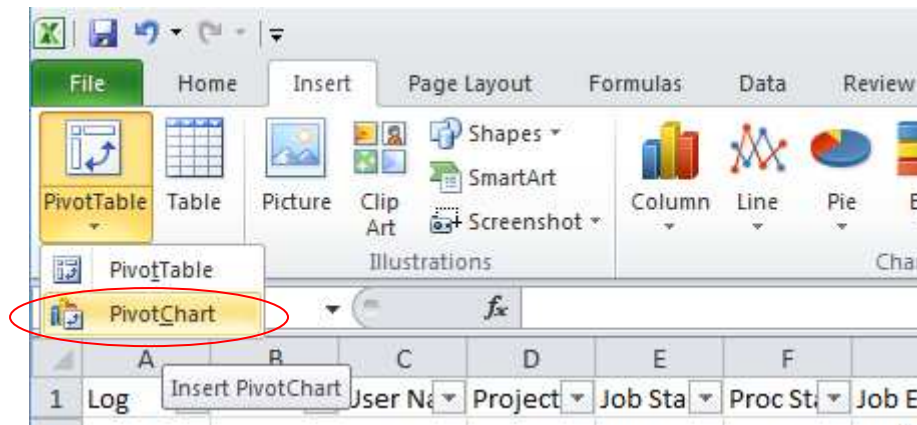
☒ And ☐ Or

is before or equal to 8/31/2013

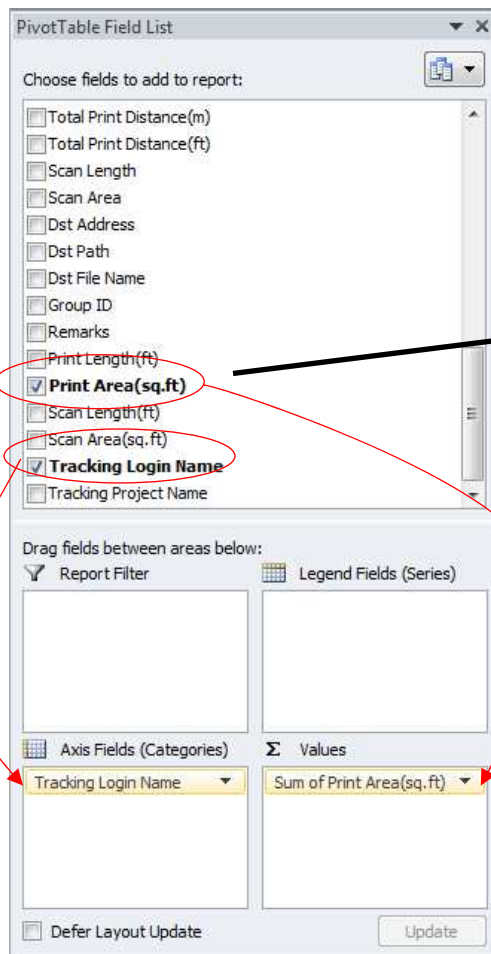
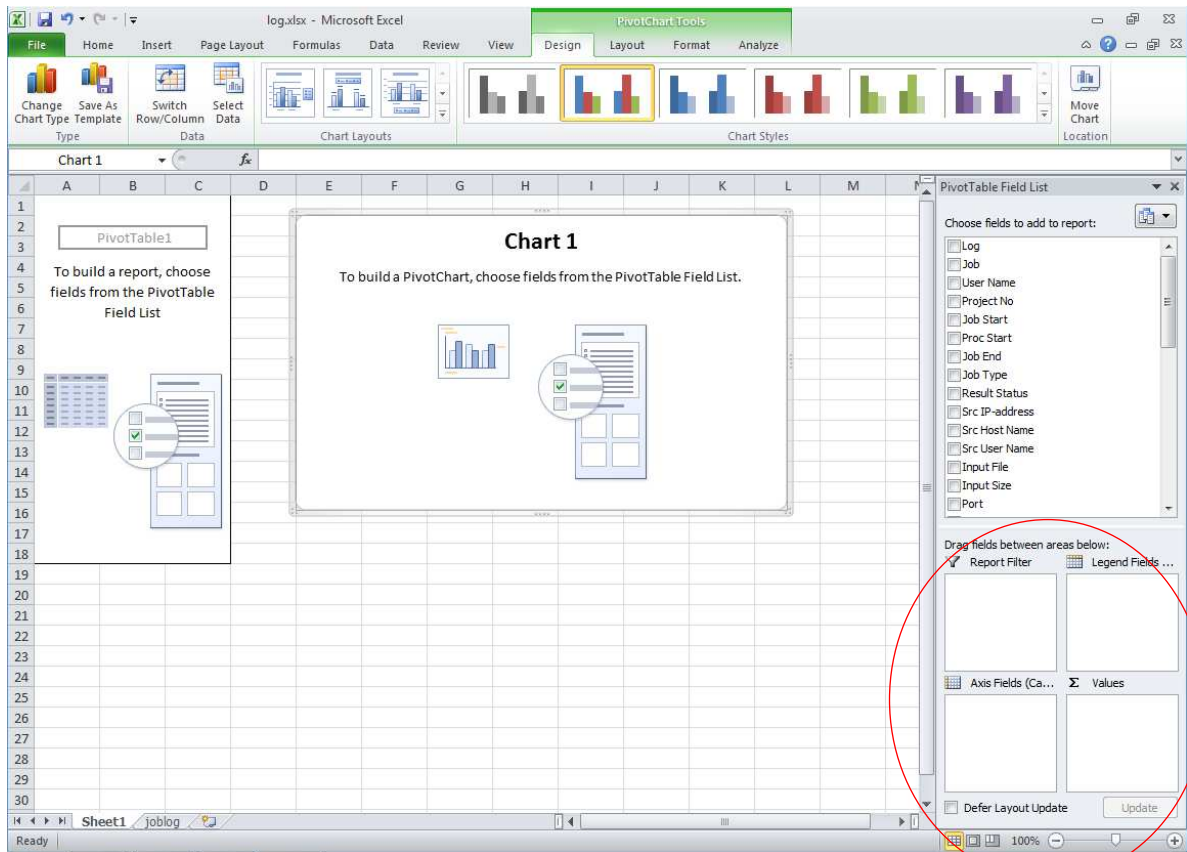
Use ? to represent any single character  
Use \* to represent any series of characters

OK Cancel

(5) Create a graph with pivot function.

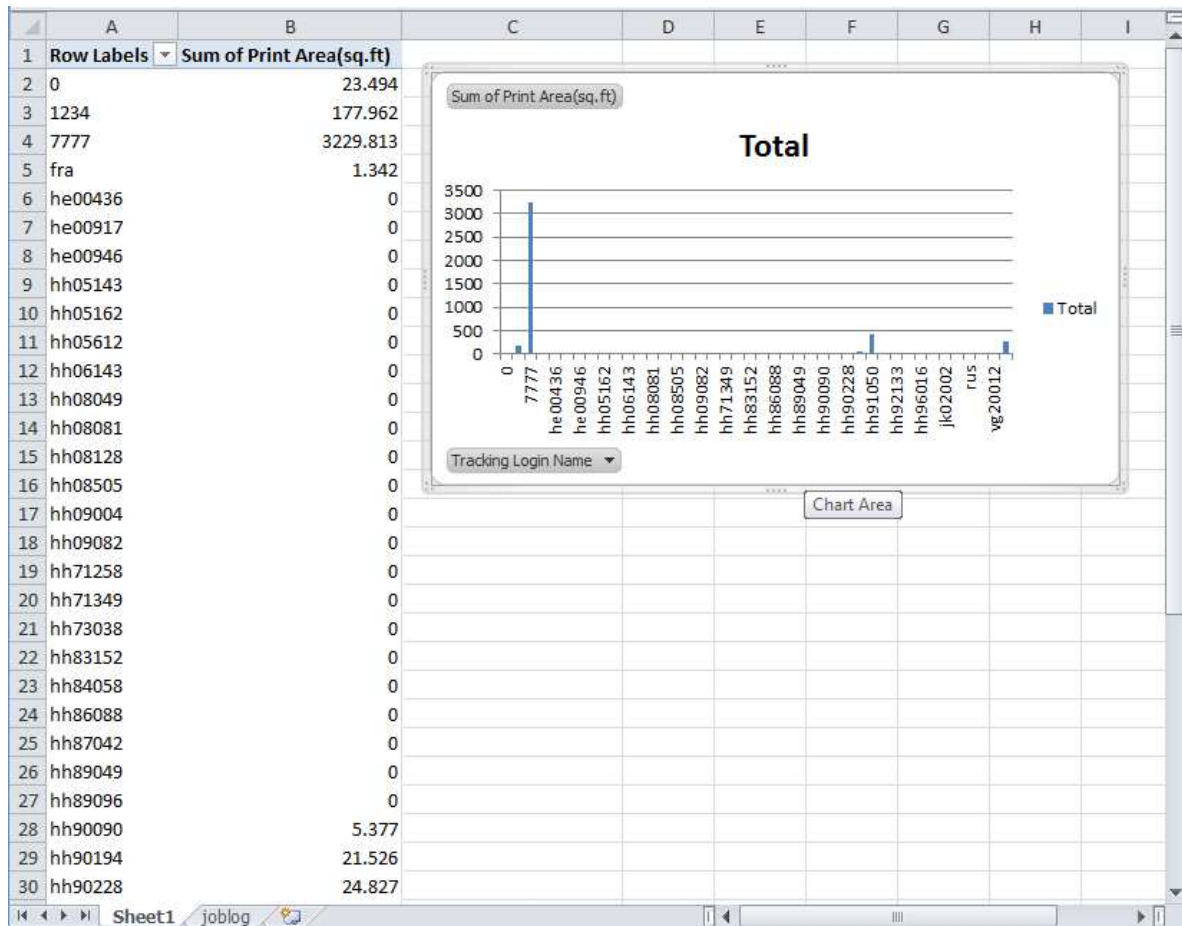






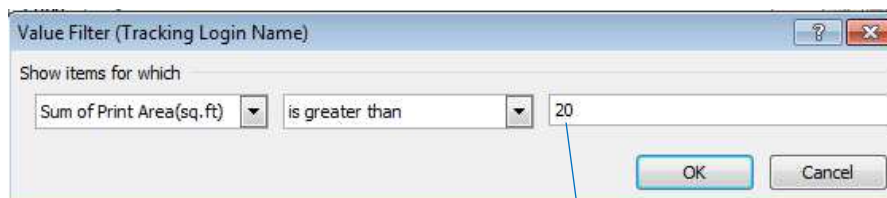
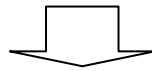
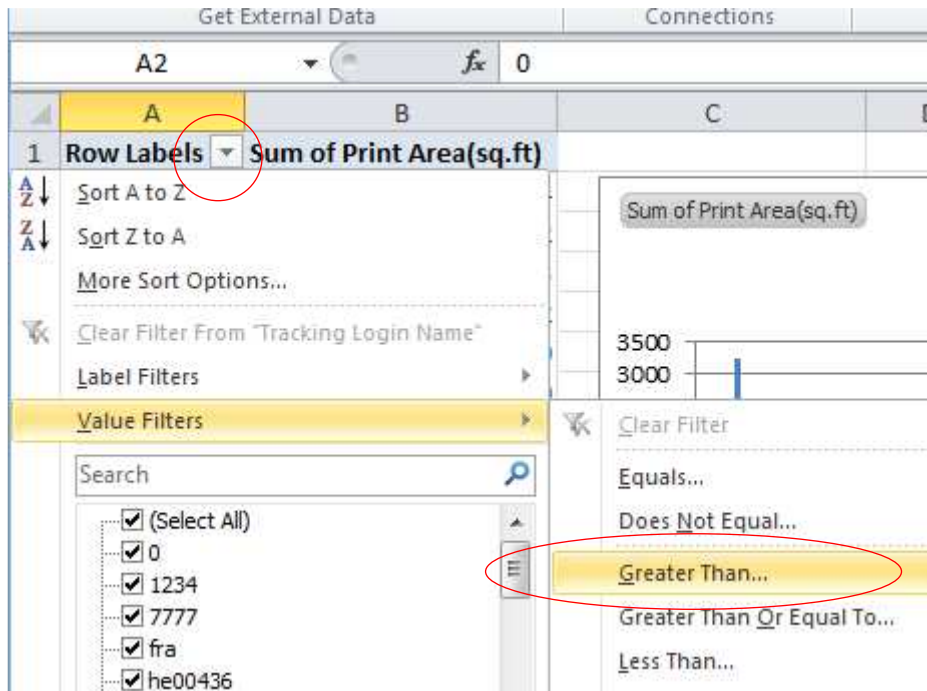
**Example:**  
Calculation is started for:  
**Print Area (sq.ft); and**  
**Tracking Login Name**



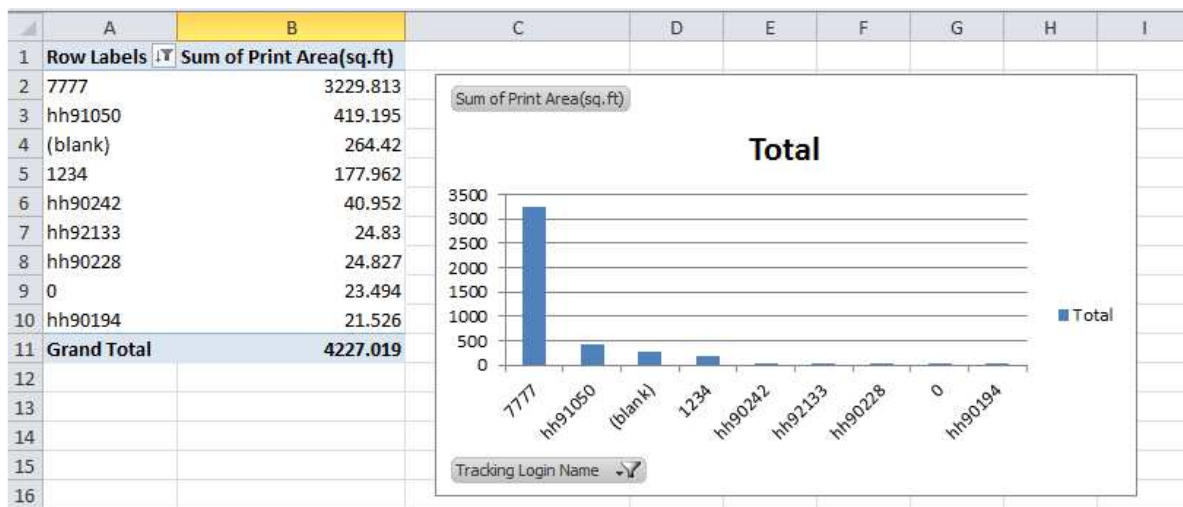
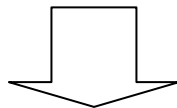
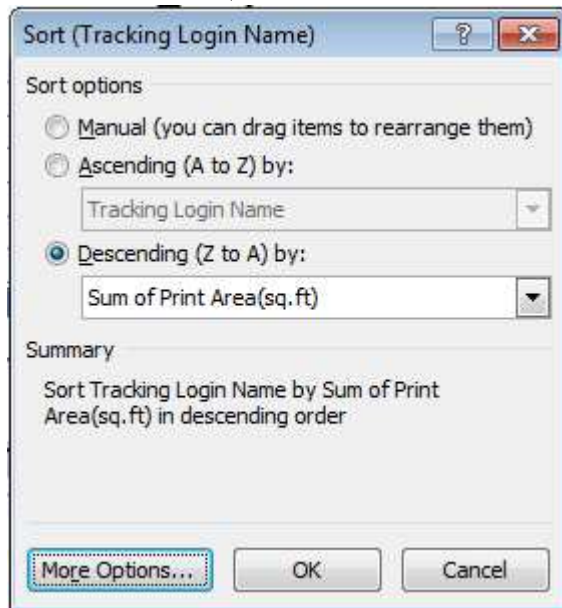
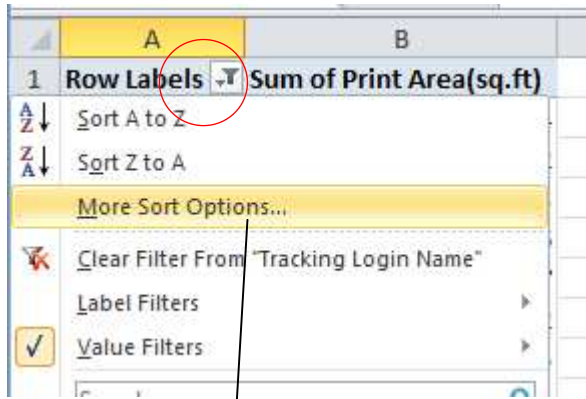




- (6) The created graph can be operated depending on your purpose.  
The picture below shows an example with extracting the users with:  
**Print Area (sq.ft)** value: 20 or more



**Value filter example:**  
The sum of Print Area is more than **20**.



(7) The picture below shows an example of graph created with Print Area (sq.ft) and project name as value filters.

