KYOCERA
Tiered Color Monitor™

SET UP AND
OPERATION GUIDE

Tiered Color Monitor

Version 1.2

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Software Solutions Group
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1. Introduction

1.1 Software

Tiered Color Monitor™ is a Kyocera business application that enables Kyocera and Copystar dealers to capture and utilize the 3-tier meter count capability from Kyocera Multifunctional Products (MFPs). The meter counts are automatically transmitted in a secure manner directly to a spreadsheet located in the dealership's private Google Drive account.

Benefits of Tiered Color Monitor:

- Automatic, periodic capture of 3-tier meter counts per device.
- Raw data is entered into a spreadsheet for easy tabulation and processing.
- End-users can visualize color usage by viewing usage graphs on the MFP panel.
- Service technicians can easily upload 3-tier meter counts over wireless networks by scanning a QR code displayed by the application using a mobile phone.

1.2 This Guide

This Guide is intended for trained Kyocera or Copystar dealer service technicians. It describes the components, functions, installation requirements and setup steps required to deploy Tiered Color Monitor effectively.

Since Tiered Color Monitor offers multiple configuration options, it is essential to understand these to deploy this solution correctly.

1.3 Supported MFP Models

For a full list of support MFP models, please refer to the Solutions Compatibility Chart on KDACentral.com.

1.4 Licensing

Tiered Color Monitor requires the purchase of a software license from an authorized Kyocera or Copystar dealership.

You have the opportunity to evaluate the software, free of charge, during two 30-day trial periods. Tiered Color Monitor will be disabled when the two trial periods expire, and you will be required to purchase a license key to be entered to continue using the application.

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1.5 On-line Activation

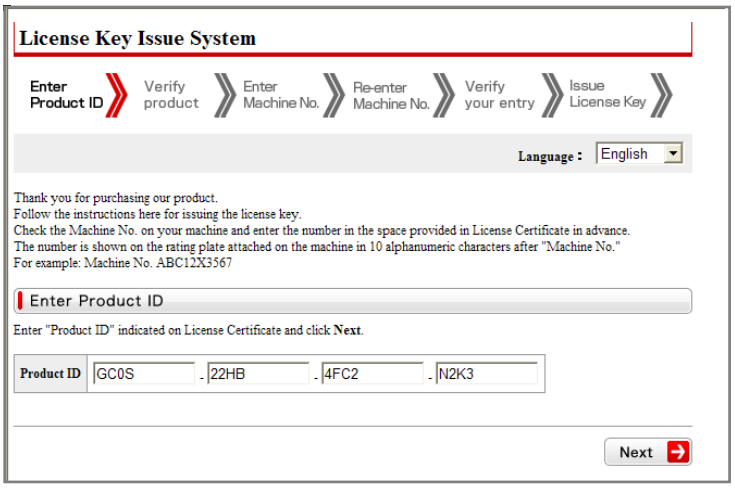
Tiered Color Monitor uses the same activation method as the Card Authentication Kit, Teaching Assistant, Data Security Kit and the Document Guard Kit. Following the purchase of a license certificate, the Product ID Number is sent in an email message. You will need these items as well as the **MFP Serial Number** when you access the License Page from KDACentral.
You will be issued a unique Activation Key once you register your option. Print this page and input this Activation Key number on the panel of your **HyPAS-Enabled MFP or HyPAS-Capable MFP** to activate it.

Login to the License Key Service on KDACentral.com
What's Required:

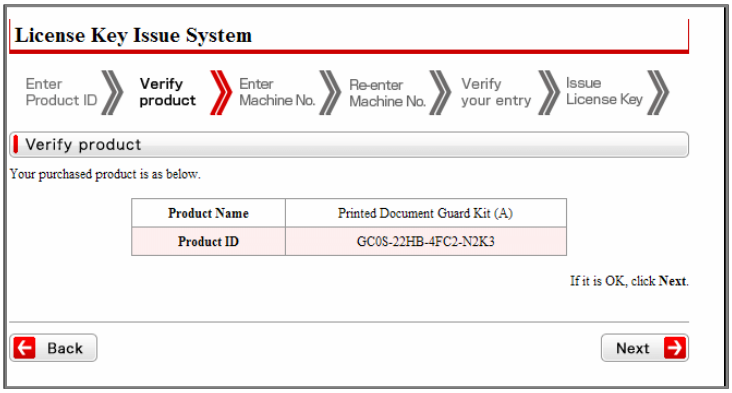
- License Certificate
- Product ID Number
- MFP Serial Number

Tiered Color Monitor Licensing Procedure

1. Enter the Product ID from the License Certificate, Click Next



2. Your Product will be verified, Click Next.



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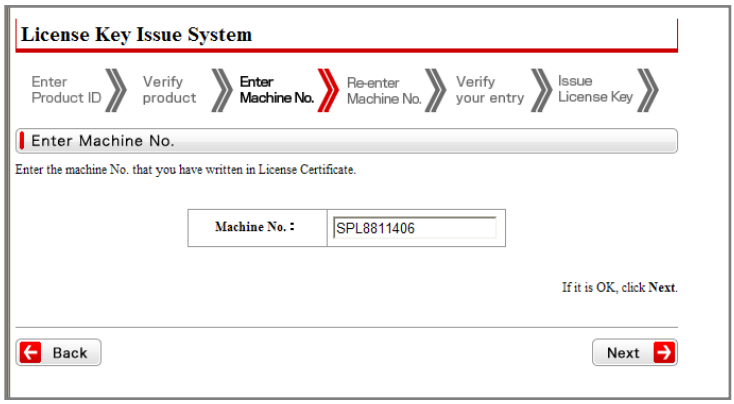
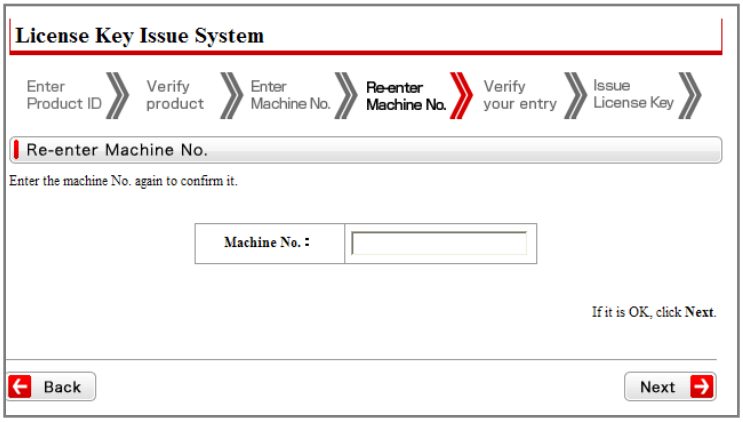
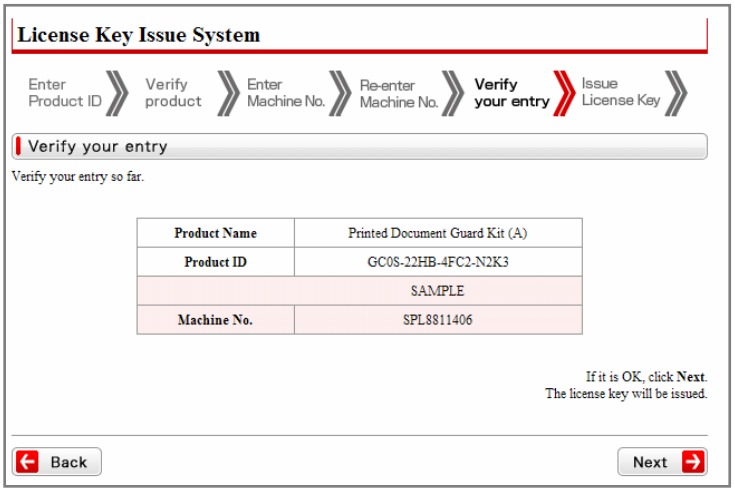
3. Enter the MFP Serial Number, Click Next.



4. Re-enter the MFP Serial Number to confirm it, Click Next.



5. Your Information will be verified, Click Next.



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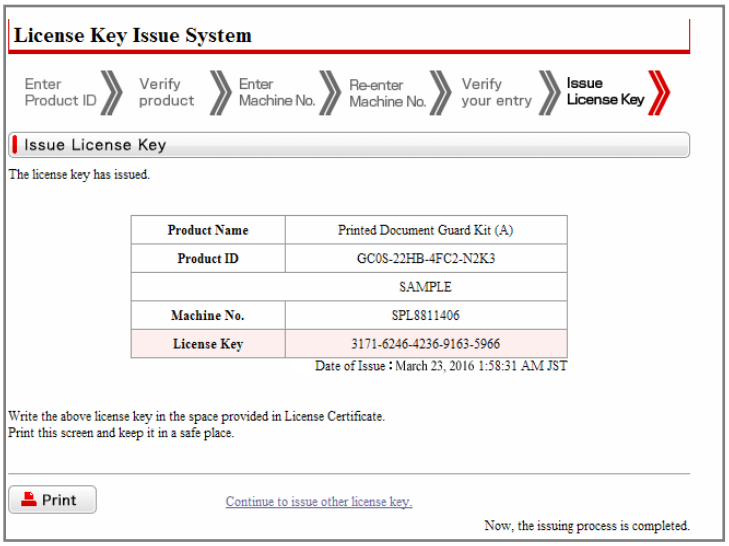
6. Your License Key is issued.



7. Print the Page and input the License Key number on the panel of your HyPAS enabled MFP to activate your Device.

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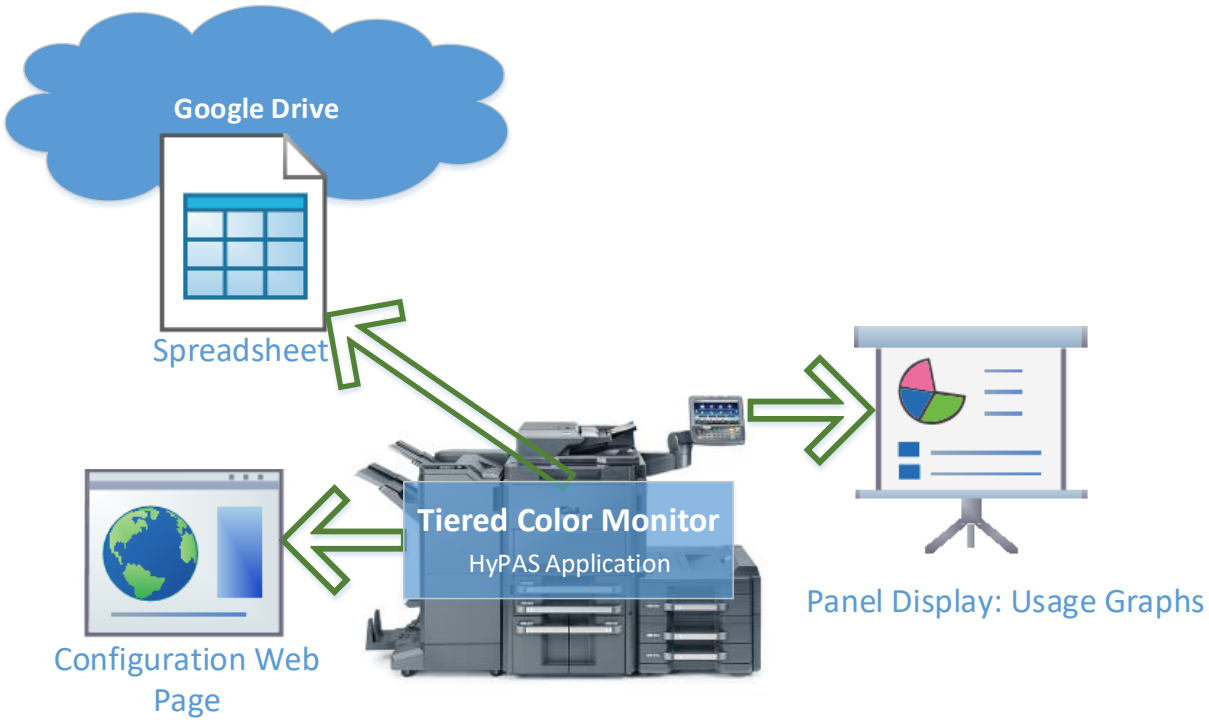
2. Application Overview

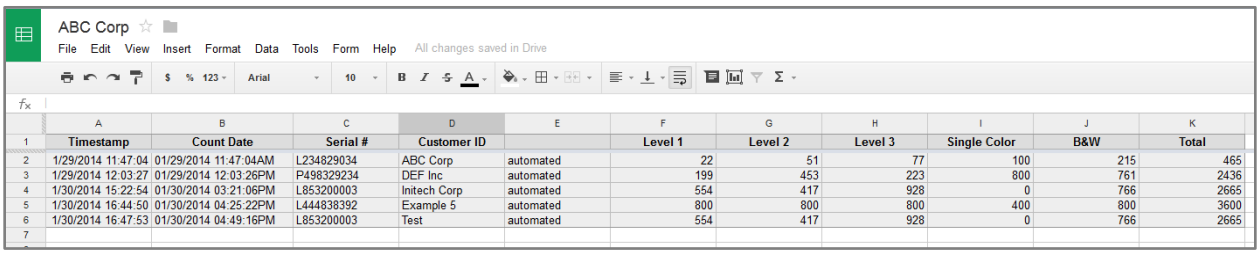


2.1 HyPAS Application

Tiered Color Monitor is a HyPAS application (software program) resident on the MFP. Once installed, activated and licensed on an MFP, the application will periodically take usage counter snapshots and transmit them to a spreadsheet on Google Drive.

2.2 Google Drive Spreadsheet

Meter counts from Tiered Color Monitor enabled MFPs are collected in a central spreadsheet located in the dealership's own Google Drive account. The spreadsheet is created from a template published in Google Drive.



ABC Corp

File Edit View Insert Format Data Tools Form Help All changes saved in Drive

	A	B	C	D	E	F	G	H	I	J	K
1	Timestamp	Count Date	Serial #	Customer ID		Level 1	Level 2	Level 3	Single Color	B&W	Total
2	1/29/2014 11:47:04	01/29/2014 11:47:04AM	L234829034	ABC Corp	automated	22	51	77	100	215	465
3	1/29/2014 12:03:27	01/29/2014 12:03:26PM	P498329234	DEF Inc	automated	199	453	223	800	761	2436
4	1/30/2014 15:22:54	01/30/2014 03:21:06PM	L853200003	Initech Corp	automated	554	417	928	0	766	2665
5	1/30/2014 16:44:50	01/30/2014 04:25:22PM	L444838392	Example 5	automated	800	800	800	400	800	3600
6	1/30/2014 16:47:53	01/30/2014 04:49:16PM	L853200003	Test	automated	554	417	928	0	766	2665
7											

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2.2.1 Spreadsheet Data Columns

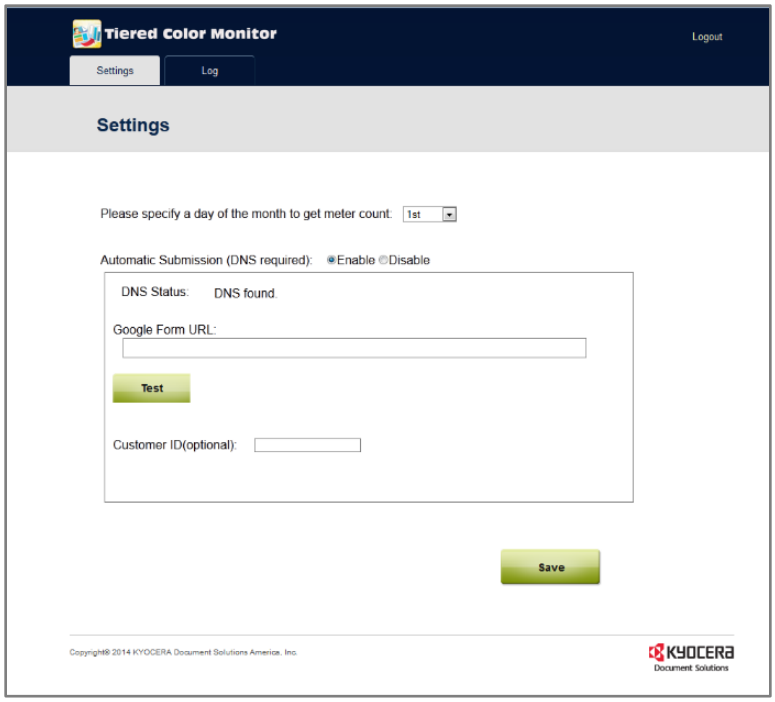
Column	Purpose
Date	Date of counter snapshot.
Serial No.	MFP's unique serial number.
Customer ID	Arbitrary text entered by dealer technician, used to identify customer.
Asset ID	Asset number programmed into the MFP.
Submitted By	Identifies technician who uploaded the counts. This field is blank or automatic.
Level 1	Number of pages with coverage below threshold #1.
Level 2	Number of pages with coverage between thresholds #1 and #2.
Level 3	Number of pages with coverage greater than threshold #2.
Single Color	Number of single color pages.
Monochrome	Number of monochrome (B&W) pages.
Total	Total number of pages printed.

2.3 Configuration Web Page

Tiered Color Monitor is configured by launching the configuration web page by accessing this URL:

http://<mfp_ip_address>:8080/tcm/config.jsp

Upon authentication, the dealer technician could program the application's polling frequency, change the destination spreadsheet URL, and edit field values.



2.4 Panel

The application's panel displays usage data as simple to understand graphs. The graphs provide a quick visualization of color usage over a period of one year.

On the MFP panel, press the Tiered Color Monitor application button to launch the application's user interface.

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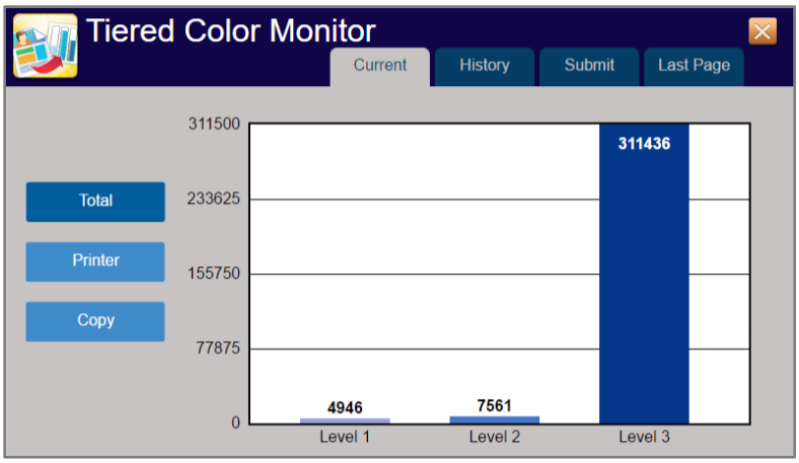
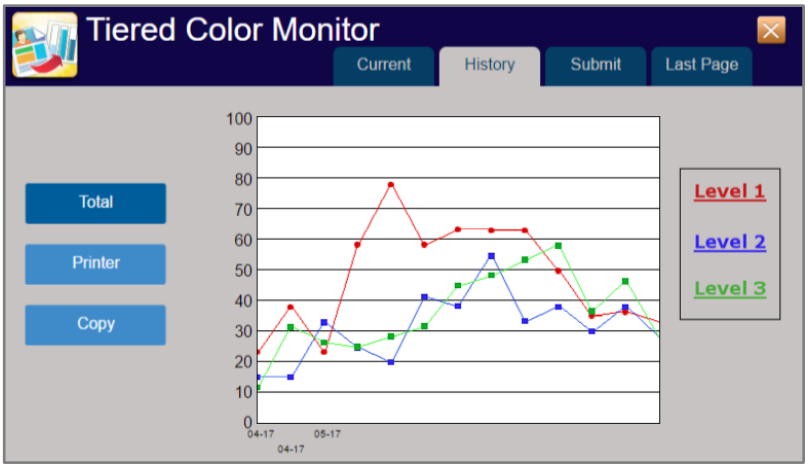
2.4.1 Total Counters – Bar Chart

The first screen shows the breakdown (by color coverage levels) of the number of pages printed. To return to this view, press the “Current” tab on the top of the screen.



2.4.2 Usage History – Line Chart

To compare monthly usage, press the “History” tab on the top of the screen. This view shows a line graph, illustrating how usage varied across the previous months. Each line on the graph corresponds to a coverage threshold and is color-coded.



2.4.3 QR Code Submission

In addition to providing end-users with usage information, the dealer technician can generate a QR Code that allows him/her to manually upload data to the spreadsheet. This feature would be helpful in the event that the MFP was unable to transmit counts automatically, or as a record a service visit was carried out.

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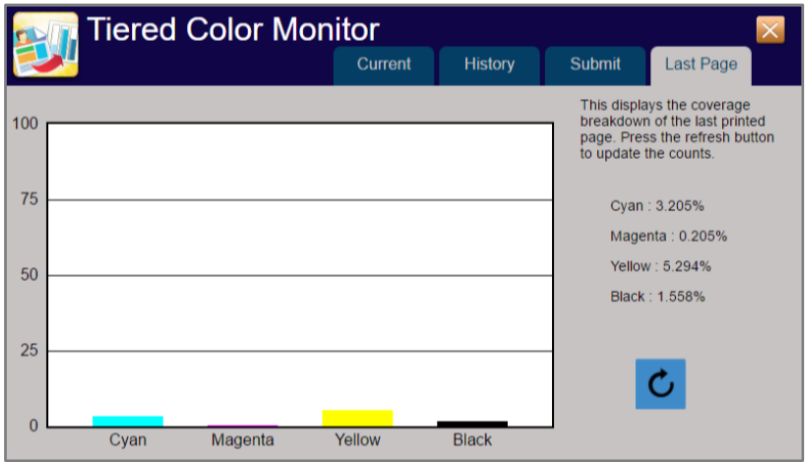
2.4.4 Last Page Tab

The Last Page tab will show you the coverage breakdown of the last printed page. This can be used to gauge where a document will fall into which tier. The refresh button can be used to update the counts.



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3. Setup

Tiered Color Monitor requires setting up the MFP and the spreadsheet on Google Drive.

3.1 MFP Setup

3.1.1 Basic MFP Setup

- Ensure that the MFP is updated to the latest available firmware level.
- The MFP must be connected to a network port and link lights must be active.
- The MFP must have at least one empty application slot (under System Menu > Applications).

3.1.2 Enabling 3-tier color

Please refer to the MFP's Service Manual for instructions on enabling and setting up 3-tier color coverage. The outline of the steps include:

- Enter Maintenance Mode.
- Open U332: Adjust Coverage Size Calculation Rate.
- Rate: Set a value between 1.0 and 3.0. Default: 1.0.
- Mode: Set to 1.0 to enable 3-tier color coverage counts.
- Level 1 and Level 2: must be set between 0.1 and 99.9. Default: 1.0 and 2.5 respectively.

NOTE: The threshold values must be set for the Tiered Color Monitor to work correctly and effectively.

3.1.3 Internet Connectivity and DNS

For the application to be able to send counts to Google Drive, the MFP must be connected to the Internet through the LAN, a functional DNS server must be accessible on the network and DNS settings on MFP Command Center must be properly entered.

To setup DNS Settings:

1. Open Command Center and login as MFP Administrator.
2. Navigate to Network Settings > TCP/IP.
3. Under IPv4 Settings > DNS Server, select either "Use DNS Server from DHCP" or "Use following DNS Server" depending on the LAN's IP address scheme.

3.1.4 Installation on HyPAS-Enabled MFPs

1. Download the Tiered Color Monitor Package file from "KDACentral" Kyocera and Copystar Dealer Portal and copy it to the root of a clean USB flash drive.
2. At the MFP control panel, open System Menu > Applications.
3. Log in as Administrator when prompted. The default login name is Admin and the default password is Admin (Note: Enter capital A when entering 'Admin' as both login name and password fields are case-sensitive).

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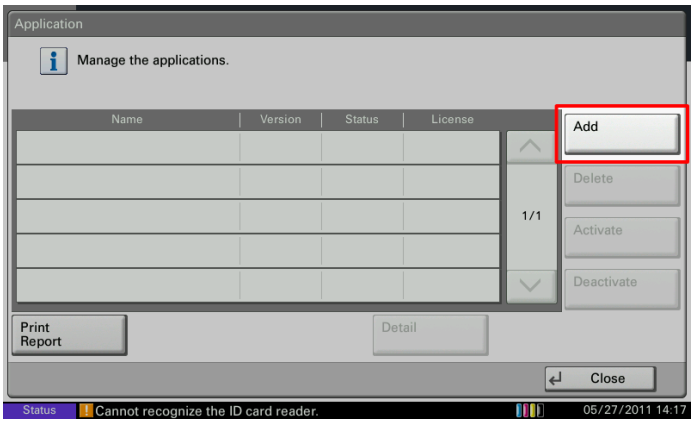
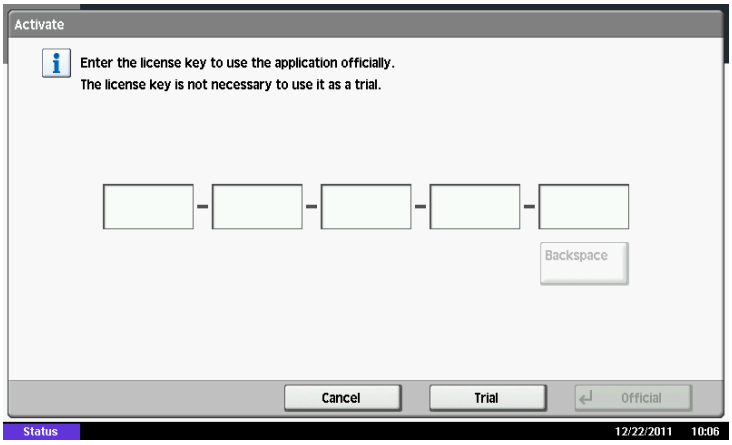
4. Press the Add button.



5. Insert USB flash drive into the MFP.
6. A list showing the application will appear.
7. Select Tiered Color Monitor and press Install.
8. After installation, press Close to return to the Application screen.

9. Select Tiered Color Monitor and Press Activate. The MFP will prompt for Activation mode. If a license key is available, enter the license key, then select Official. Otherwise, press the Trial button to activate one of the two 30-day trials. One trial can last for 30 days after which time the trial button will be disabled and the Tiered Color Monitor service will no longer start. A license must be purchased from an authorized Kyocera or Copystar dealer in order to restart the Tiered Color Monitor service.



10. After Tiered Color Monitor is activated successfully, it can be executed from the home screen.

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3.2 Installing Spreadsheet

3.2.1 Google Drive Account

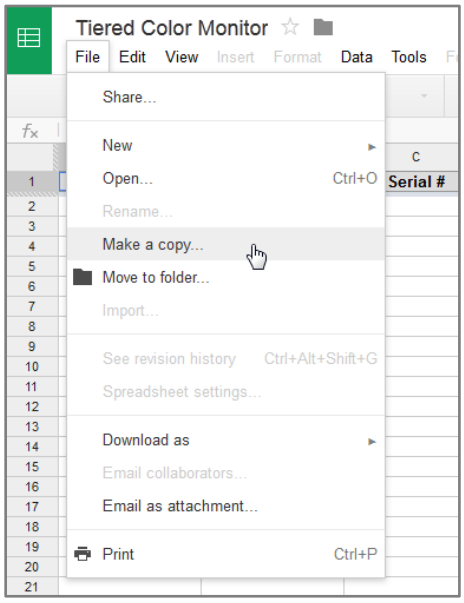
This setup step requires a Google Drive account which can be created at http://drive.google.com/. Please create an account or log in to an existing account before proceeding further.

NOTE: It is recommended to set up one account per dealership that will capture all meter reads for the entire MIF with Tiered Color Monitor installed.

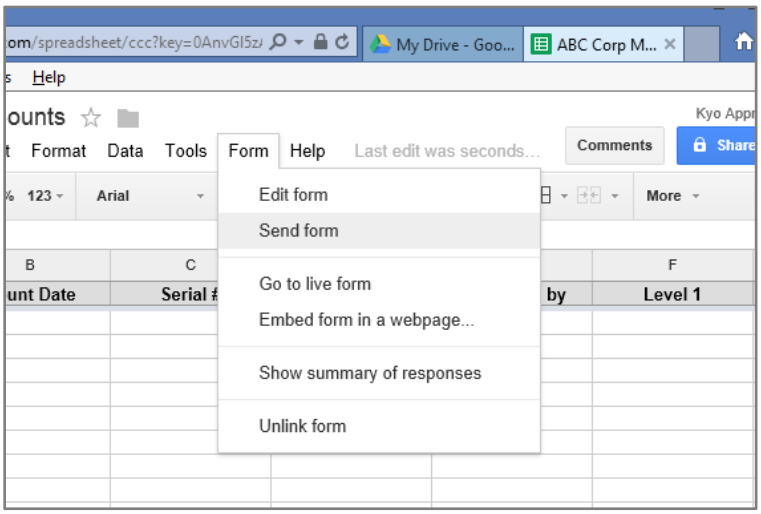
3.2.2 Creating Spreadsheet

1. After creating a Google Drive account or logging in to an existing account, go to the following URL to open the Tiered Color Monitor Data spreadsheet: https://drive.google.com/open?id=1K9bxp6wttdIsu52Xo5SI7xrpmFEaxqnmZGJoxROaw9w

2. Click on *File > Make a Copy* to save it to your Drive account. *Make a copy* will only be available if a Google Drive account is currently signed in.
   NOTE: You need to be signed into your Google account to make a copy of the spreadsheet.



3. Once you have your copy of the spreadsheet, click on *Form > Send Form.*



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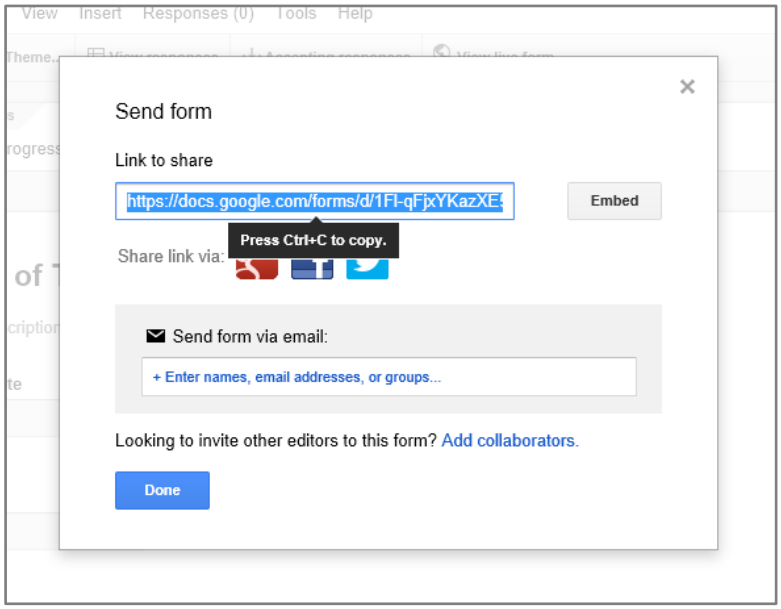
4. When the form web page appears, copy the URL to clipboard using the following steps:
   a. Click on the link and select all the text.
   b. Copy the text to the clipboard by pressing Ctrl + C (or Right-click and select “Copy”).



5. Paste this URL in to notepad and save it for use during application configuration, covered in the Application Configuration section.

3.3 Application Configuration

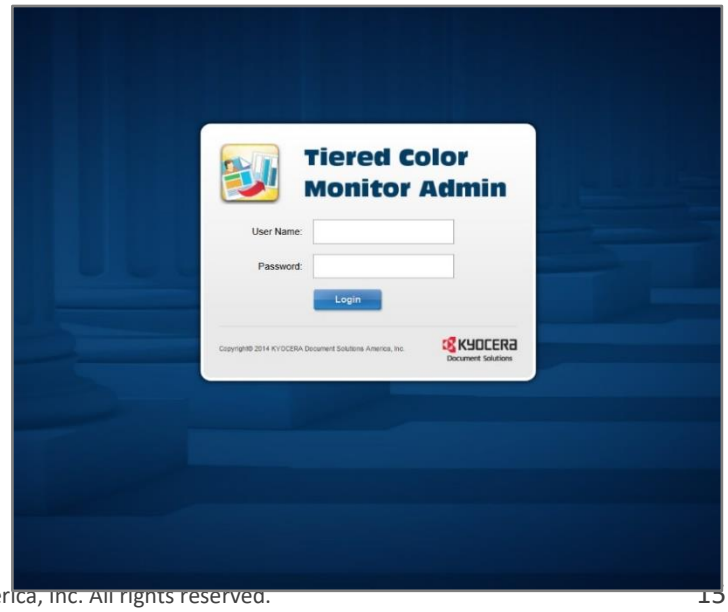
To begin setting up Tiered Color Monitor, open a web browser to the following URL:

https://<MFP IP Address>:8083/tcm/config.jsp – ***or*** – *http://<MFP IP Address>:8080/tcm/config.jsp*

<MFP IP Address> in the above examples must be replaced with the MFP’s network IP address, for example: “192.168.1.45”.

At the login page, enter the username and password of an administrative account and press the “Login” button. The default administrator account is “Admin”, with password “Admin”.

After successful authentication, the settings page appears as shown below.



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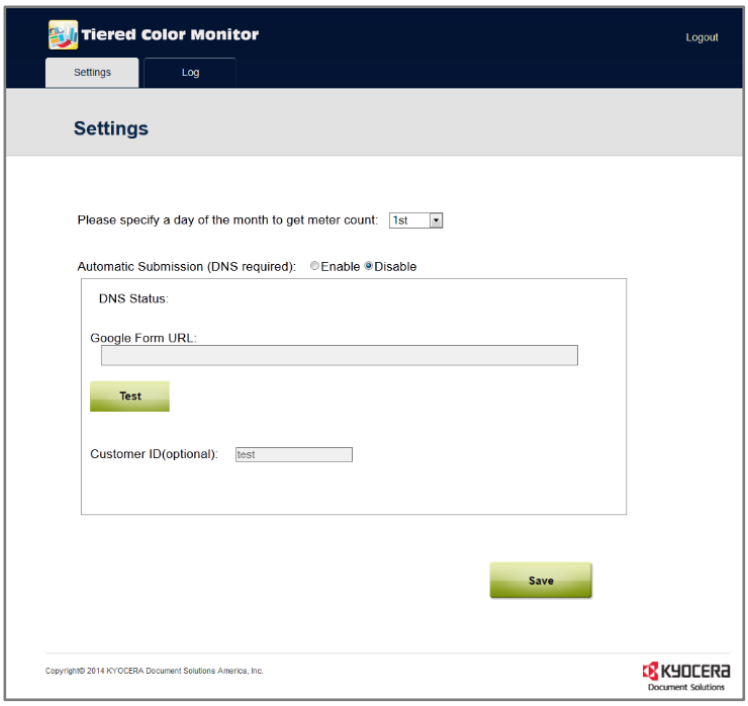
3.3.1 Automatic Meter Collection

To configure the application to automatically send meter counts to a Google spreadsheet, follow these steps:

1. Enable automatic submission by setting Automatic Submission to “Enable”.
2. Paste spreadsheet URL into the “Google Form URL” field. Please refer to the previous section for steps on obtaining this URL.
3. Click Test button to ensure the URL is correct. If the URL is correct, the web page should display “OK”; otherwise it would display an error message.
4. Click the “Save” button to save changes and start meter collection.



Configuration Options:

- **Customer ID:** Enter a value to identify the customer account (i.e., client number). This field is optional.
- **Meter collection day:** Select a day of month from the drop-down list. The default value is set to first of the month.
  NOTE: Only one day per month can be set per device.

3.3.2 Event Log

To view a log of important events such as transmission errors, click on the Log tab. The web page shows a chronological list of events that occurred, including the time, type and error messages, if any. The event log is an essential troubleshooting tool and can help identify problems.

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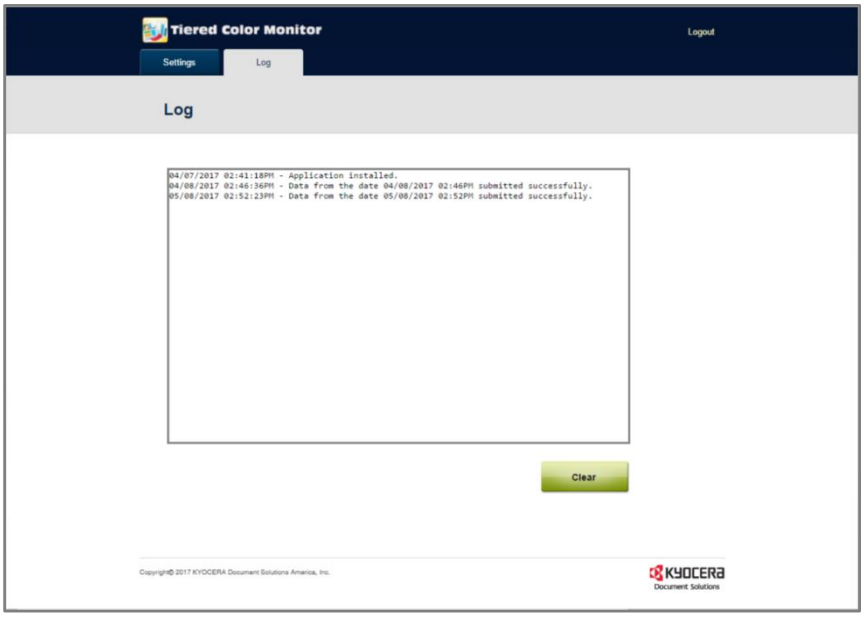
To clear the log, click the “Clear” button and refresh the browser.



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4. Managing the data

4.1 Customizing the spreadsheet

Customizing the spreadsheet is a method to simplify the process of managing your data.

4.1.1 What you can change

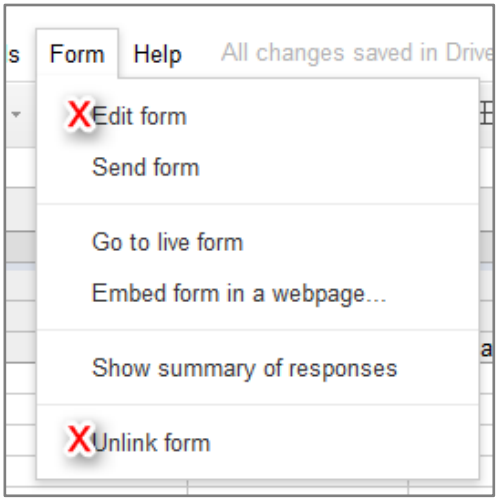
After the spreadsheet is downloaded, you can make changes to the following fields:

- Spreadsheet name
- Column names
- Column order

In addition, you can also sort the data by columns in ascending and descending order. For example, you can view the meter counts by each machine by sorting the serial number column.

Only make changes to the spreadsheet. Do not edit or unlink the form which is associated with the spreadsheet.

WARNING: *Do not make any changes to the form file itself. Doing so will prevent the data from reaching the spreadsheet.*

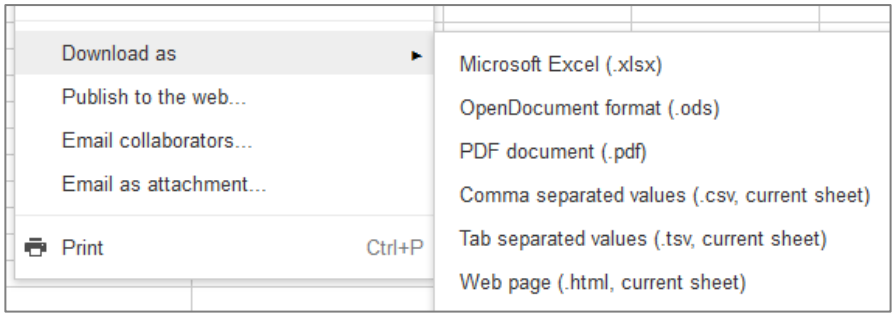


4.1.2 Managing the data

Google spreadsheets allow a maximum of 400,000 cells per spreadsheet which equals over 36,000 entries. Over the course of a year, this equates to 3,000 machines. If you are getting close to the limit of cells, there are a two options:

Option 1: Clearing out the data on the spreadsheet.

First, back up your data by downloading it as a format of your preference. Under the file menu, mouse over "Download as" and select what type of file you would like.



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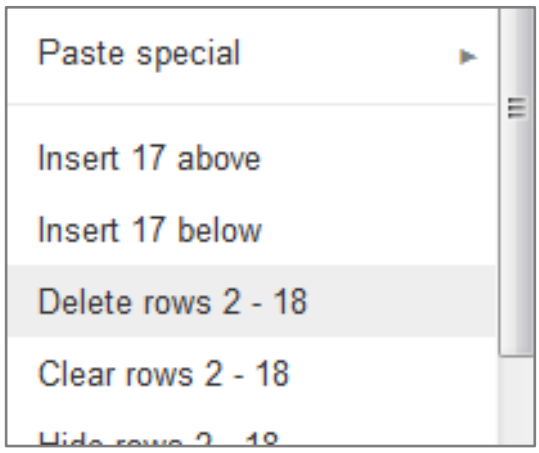
Next, select all the rows you wish to delete. Highlight the entire row by clicking on the row number located on the left side of the spreadsheet. You can hold shift and click the last row you would like to select them all. Then right click the highlighted area and click “Delete rows X-X”.

NOTE: Selecting only the cells containing data will not completely delete the data. You must select the entire row.



Option 2: Creating a new spreadsheet from Google Templates.

NOTE: This option will require re-configuration on each machine. The URL must be updated.

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5. Troubleshooting

ISSUE: The spreadsheet does not receive data	Check	The Spreadsheet URL in the applications configuration page.
		Ensure the MFP is network connected and DNS is setup correctly.
		Press the “Test” button in the Application Configuration web page.

If issues persist, please contact your authorized Kyocera or Copystar Dealer for assistance.

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6. Support

For Tiered Color Monitor Support:

Contact your authorized Kyocera or Copystar Dealer.

For a listing of authorized Kyocera Dealers:
https://usa.kyoceradocumentsolutions.com/en/where-to-buy.html

For a listing of authorized Copystar Dealers:
https://copystar.com/en/where-to-buy.html

or

Contact Kyocera Technical Support

Phone
Monday - Friday 9 am - 6 pm EST
1-800-255-6482

Web
https://usa.kyoceradocumentsolutions.com/en/about-us/contact-us.html

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