# MaxLab Production Agent User Guide



# HALSYS

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Please refer to our Layout Designer guide when you see this icon.



Please refer to our MaxLab Portal guide when you see this icon.



Please refer to our Production Agent guide when you see this icon.



Please refer to our Web Upload Agent guide when you see this icon.

### Introduction

MaxLab offers a comprehensive suite of tools designed to address the diverse needs of digital production workflows, spanning from initial creation to final output, whether it be in digital file formats or direct to a printer.

It incorporates sophisticated software that makes it possible to easily design a unique range of products, from simple layouts to very complex class composites and sports groups.

It has a built-in facility for importing an infinite number of data fields per image into the database using QR Codes, EXIF data or a text file, making it an ideal platform for preparing composites, ID cards and other personalised products. Barcode or QR code information can also be used to automatically find image files stored in the database. Where QR codes can be used to retrieve data or help your customers access their images online.

In addition to these features the software has been designed to deal very efficiently with the preparation of orders. Image files for online and offline orders can be automatically accessed from the database so the time consuming order preparation work such as print sizes, multiple product entry, quantity, image crop, rotation and colour balance can be quickly and productively made.



The prepared orders are then resubmitted to the database where it is possible to create and manage print queues to the Production Agent module to automatically pick up and render the files for printing on a wide range of professional digital colour printers and 'Windows' printers.

### **System Overview**

There are 5 main components that make up the MaxLab system.

- Server
- Client
- Production Agent
- Layout Designer
- Web Upload Agent



**Printers** 



This diagram shows a typical System layout, but there are many possible configurations. For example Production Agent can be installed on the same workstation as Desktop Client, and smaller systems can even have all components installed on a single workstation.

### **Production Agent**

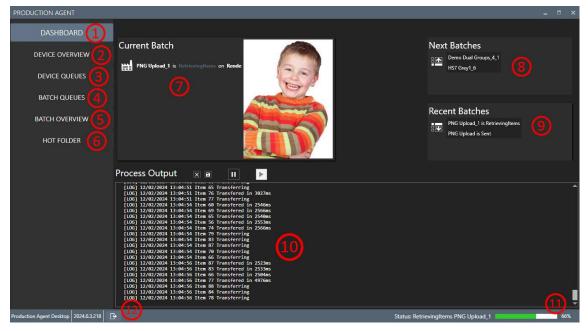
Production Agent is an all-purpose, easy to use application for making high quality photographic prints from almost any type of image file using a wide range of printers. It can produce any print size up to the maximum for the printer, together with packages, layouts, proof prints, text, logos, index prints, bar codes, QR Codes, front marking and much more! It can render your images to file in one of several file formats and can also print from a set of Hot Folders.

### **Supported Print Devices**

MaxLab boasts a rich array of printers that it can seamlessly connect to either directly or through hot folder integration. Below is a list of printers we've already established connections with. However, please note that we are continuously expanding our compatibility, so if you don't see your printer listed, feel free to reach out to us. We'll gladly collaborate with you to ensure compatibility with your specific printer model.

- Render to file
- Fuji C8 Frontiers
  - Fuji Frontiers -
- Noritsu Hot Folder
- Windows Printers
  - Some limitations depending on your printer.
- Epson DPOF Printer
- Fuji Fcim (v3) Printer
- Fuji Dx100
- Render to PDF

### Dashboard





- 1. Dashboard Information screen, tells you what is printing and what is queued for printing.
- 2. Device Overview Where go to add and edit devices
- 3. Device Queues Create and edit queues for load balancing
- 4. Batch Queues -
- 5. Batch Overview See previously printed order batches
- 6. Hot Folder Create and edit hot folders
- 7. Current Batch The current batch that is being produced
- 8. Next Batches Batches that are queued for production
- 9. Recent batches Recent batches that have been produced
- 10. Process Output Process log where you can see errors and
- 11. Status bar Process state of the current batch
- 12. Log out Log out button

### **Device Overview**

Here you can go to create a new device or edit an existing one.

PRODUCTION AGENT			_ = ×
DASHBOARD			
DEVICE OVERVIEW	ADD DEVICE ARCHIVE SELECTED DEVICE		
DEVICE QUEUES		Device Name Render to File 10 inch	Í
BATCH QUEUES	QR Codes individual Render to File Fuji Fuji C8 Printer	Device Status Online *	
BATCH OVERVIEW		Destination Location C:\Users\JamesC\Documents\Render\10 Inch	
HOT FOLDER	PDF Render Render to PDF Photo Ticket Render to PDF Digital output Render to File Render 8 Inch Render to File HP laser jet 1300 Windows Printer Fuji Demo Fuji C8 Printer Ticket Render No Tiling Photo Ticket to PDF NHF 12 inch Noritou Hot Folder Render 5 Inch Render to File Test Render Render to File	Apply Quantity Setting (create extra files)      Custom Save Location     Image Operations     Batch Card     Batch Gard     Tiling Options     Tiling Options	
	EPSON WF-2630 Series Windows Printer PhotoGate PhotoGate Digital Delivery NILLE & Lock Now Mariters Mark Eddar		
Production Agent Desktop 2024.0.3.218	SHOW ARCHIVED		0%

### **Archive Device**

You can archive devices from the above screen. Simply select an existing device that you wish to archive and click the archive selected device button. You can also see the archived devices by clicking the show archive devices at the bottom of the Device Overview screen. The archived device will show with an orange icon next to them. You can unarchive them by selecting one and clicking the unarchive selected device at the top of the Device Overview screen.



### **Adding a Device**

To add any device click 'add device' and a pop up will appear (See below).

### MaxLab Client User Guide

ADD A DEVICE		-	×
Render to File	Device Name Enter Device Name		
Windows Printer	Destination Location		
Epson DPOF Printer	Enter folder path 💼		
Fuji Fcim(v3) Printer	Apply Quantity Setting (create extra files)		
Fuji C8 Printer	CREATE		
PhotoGate Digital Delivery			
Noritsu Hot Folder			
Fuji DX100			
Render to PDF			
Render for Web			
Photo Ticket to PDF			

Choose the type of device you wish to add.

### **Render to File Device**

ADD A DEVICE		-	×
Render to File	Device Name Enter Device Name		
Windows Printer	Destination Location		
Epson DPOF Printer	Enter folder path 💼 🔁		
Fuji Fcim(v3) Printer (3)	Apply Quantity Setting (create extra files)		
Fuji C8 Printer	CREATE		
PhotoGate Digital Delivery			
Noritsu Hot Folder			
Fuji DX100			
Render to PDF			
Render for Web			
Photo Ticket to PDF			

- 1. This is the display name for the device
- 2. Path where the render files will be saved
- 3. Apply Quantity settings, if ticked this will create extra files if a quantity is applied to an image that is sent to this device
- 4. Create button.

### MaxLab Client User Guide

### **Windows Printer**

ADD A DEVICE				- 5	× ×
Render to File Windows Printer Epson DPOF Printer Fuji Fcim(v3) Printer Fuji C8 Printer PhotoGate Digital Delivery Noritsu Hot Folder Fuji DX100 Render to PDF Render for Web Photo Ticket to PDF	Device Name Select Printer Select Type Select Item Batching CREATE 5	Enter Device Name Select Windows Printer Standard Job	1 2 3 - 3 - 4		

- 1. Device Name This is the display name for the device
- 2. Select Printer Drop down with the available installed windows printers.
- 3. Select Type This is the type of print Standard or Photographic
  - a. Standard is for Ink Jet. A4 etc. It does not include handling, and logic that is specific to printing photographic products.
  - b. Photographic is for printing photos to a printer such as the DX100. It includes handling, and additional logic eg. Auto rotating to fit paper width, etc.
- 4. Select Item Batching Choose if you want it to batch per image or per job.
- 5. Create button.

### Window printers set up outside of MaxLab

Setting up DX100 or DE100 Windows Driver

How to add Sizes

- Go to Printers & Scanners
- 'Manage' the DX100 Printer

FUJIFI	LM DX100 EX		
	Open queue	Manage	Remove device

- Choose 'Printer properties' in the list of options
- Choose 'Advanced' Tab
- Click Printing Defaults... button at the bottom left
- Select the Paper size combo box, and click on 'User Defined' This will allow you to create some custom paper sizes that the DX100, and MaxLab can then use.

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Print Settings	
Paper Type	FUJIFILM Quality Dry Photo Paper (Glossy) ~
Image Quality	Standard ~
Color Management	Color Controls     O No Color Adjustment     O ICM     Advanced
Paper Size	127 x 178 mm (5 x 7 in)
Orientation	102 x 152 mm (4 x 6 in)         127 x 89 mm (5 x 3.5 in)         152 x 102 mm (6 x 4 in)         203 x 102 mm (8 x 4 in)         127 x 178 mm (5 x 7 in)         203 x 254 mm (8 x 10 in)         203 x 305 mm (8 x 12 in)         210 x 297 mm (8.3 x 11.7 in)         User Defined         5x8         5x4
	Advanced Settings
	Start DX Printer Maintenance Tool
Language	Auto Select Version 4.

### Set default Paper width for MaxLab

In the same modal as the previous instructions lead to, select a paper size that has the correct width value as the paper you have loaded. Eg. If 5" paper is loaded, choose any of the '5x\*' paper sizes. In the example, any of the following can be selected if 5" paper is loaded: 5x3.5, 5x7, 5x8, 5x5, 5x4

**NOTE**: You may also need to set this as the default paper size in 'Printing Preferences' as well, it differs per printer model.

#### **Batch Card**

Follow the steps on how to add sizes, add the required sizes necessary for the batch card size you want to print.

#### **Additional Notes:**

- Network printing is very hit and miss with the DX100 Use direct USB connection.
- NEED to set up print sizes that will be used in the Windows print driver interface. We are unable to add sizes from within MaxLab.
- Default Printer Settings Don't change
  - Border Setting (Borderless (Auto Expand)
  - Orientation Portrait
- DE100
  - Needs Item batching



- This is because if set to Job and the Job has different sizes in it the Printer takes ~1minute to continue - Setting to Item batching stops this (More testing required...?)
- DX100
  - Supports Job batching and will be faster / less downtime between prints for the same Job.

### **Epson DPOF Printer**

ADD A DEVICE			×
Render to File	Device Name Enter Device Name		
Windows Printer	Root Folder		
Epson DPOF Printer	Enter Root Folder path 💼 😰		
Fuji Fcim(v3) Printer	Presets Folder		
Fuji C8 Printer	Enter Presets Folder path 💼 🗿		
PhotoGate Digital Delivery	CREATE		
Noritsu Hot Folder			
Fuji DX100			
Render to PDF			
Render for Web			
Photo Ticket to PDF			

- 1. Device Name This is the display name for the device
- 2. Root Folder This should point at the SureLab Order controller 'Monitor' folder, this is the folder that the Order controller monitors and uses as it's hot folder, and is the output location where the Agent will save the rendered image files, and required data file necessary for DPOF
- 3. Presets Folder This should point at a folder that contains a ch\_data.csv file containing a list of all current presets configured within the Order controller. This is needed so that we can map MaxLab products to the correct 'Presets' within the Order controller, this is necessary as it is telling the Order controller the size of the print.
- 4. Create button.

### Further information on setting up Epson DPOF Printer

#### **Root Folder**

This should point at the SureLab Order controller 'Monitor' folder, this is the folder that the Order controller monitors and uses as it's hot folder, and is the output location where the Agent will save the rendered image files, and required data file necessary for DPOF

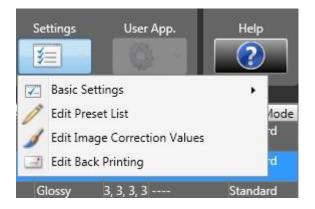
#### **Presets Folder**

This should point at a folder that contains a ch\_data.csv file containing a list of all current presets configured within the Order controller. This is needed so that we can map MaxLab products to the correct 'Presets' within Order controller, this is necessary as it is telling the Order controller the size of the print. *See below for more information on Presets & Presets file.* 



### Presets & Presets File

It is necessary to export this file, within SureLab Order controller click on 'Settings' and then 'Edit Preset List'



Presets will need to be set up for all sizes that need to be printed, once all sizes are configured a file can be generated using the 'Export' button.

eset Li	ist:											Default F	Preset: [1] 4	ахб Search Р
		No.	Preset Name	Priority	Split	Printer Type	Paper Width	Paper Length	Paper Type	Print	Verify	Index	CD/DVD	Prin
1		1	4хб			SL-D3000	4.00	6.00	Glossy	1	1			
		2	New			SL-D3000	4.00	3.50	Glossy	~	~			🗖 Veri
		3	New			SL-D3000	4.00	3.50	Glossy	~	~			Inde
	4	4	New			SL-D3000	4.00	3.50	Glossy	~	~			
		5	New			SL-D3000	4.00	3.50	Glossy	~	$\checkmark$			CD/
		6	New			SL-D3000	4.00	3.50	Glossy	4	1			
		7	New	-		SL-D3000	4.00	3.50	Glossy	~	~			Paper \
		8	New			SL-D3000	4.00	3.50	Glossy	~	~			
	4	9	New			SL-D3000	4.00	3.50	Glossy	~	~	-		
		10	New			SL-D3000	4.00	3.50	Glossy	~	~			Paper 1
		11	New			SL-D3000	4.00	3.50	Glossy	~	~			
		Pre	et Name New Paper	· Type			2	ter Type <mark>SL-D</mark>		•	alue			Sear
Prese No. 6 Print			Paper	L COMPANY OF THE OWNER			Border		Initial Co	orrection V				Sear
Prese No. 6 Print Prices	(sh	ieet)	Paper 0.00	lossy 🔹	i		2		Initial Co Nev	orrection V	dit			Sear
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Prese No. 6 Print Prices	(sh (sec	ieet) :/she	Paper 0.00 G et) 60 Print I S 0.00 Paper	ilossy 🔹 Mode tandard Size			Border 3.0 3.	0 0 3.0	Initial Co Nev Back Pri	orrection V v  v E how Only F nt v Ed	dit			
Prese No. 6 Print Trices Time (s	(sh sec)	ieet) :/she ieet)	Paper 0.00 G et) 60 Print I S 0.00 Paper 4	ilossy 👻 Mode tandard Size .00	× 3		Border	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v • E how Only F nt	dit avorites			Copy
Prese No. 6 Print Prices Time (s Index Prices	(sh [sec (sh For	ieet) :/she ieet) mat	Paper 0.00 G et) 60 Print I 5 0.00 Paper 4 4 V Index1 V S	Mode tandard Size .00	× 3		Border 3.0 3.	0 0 3.0	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites	Select		Copy
Prese No. 6 Print Trices Time (s Index I Prices	(sh [sec (sh For	ieet) :/she ieet) mat	Paper 0.00 G et) 60 Print S 0.00 Paper 4 4 Index1 Pa	Mode tandard Size .00 ecify the oper Size	x 3 output	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites	Select		Copy
Prese No. 6 Print Trices Time (! Trices ndex 1	(sh (sec (sh For •	neet) :/she neet) mat	Paper 0.00 G et) 60 Print 1 5 0.00 Paper 4 4 Index1 V Sp Pa	Mode tandard Size .00 wecify the oper Size .00	× 3	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites	Select		Cop
Prese No. 6 Print Prices index Prices ndex 1 5	(sh (sec (sh For •	neet) (/she meet) mat	Paper 0.00 G (et) 60 Print 1 5 0.00 Paper 4 4 1 Index1 • Sp Pa 4 0.00 4 4 4 0.00 4 4 0.00 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Mode tandard Size 00 ecify the oper Size 00 wto Fit	x 3 output	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites			Cop Clea Defau Expo
Prese No. 6 Print rices index I ndex I 5 CD/D	(sh (sec (sh For VD (sh	neet) /she meet) mat x	Paper 0.00 G (et) 60 Print 0.00 Paper 4 4 Index1 V Pa 4 0.00 Pa	Mode tandard Size .00 ecify the uper Size .00 uto Fit uper Lengt	x 3 output	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites		Print Order Sł	Copy Clea Defau Expo
Prese No. 6 Print rices ime (: index I rices CD/D rices	(sh (sec (sh For VD (sh ity	neet) /she meet) mat x	Paper 0.00 G (et) 60 Print 0.00 Paper 4 4 Index1 V Pa 4 0.00 Pa	Mode tandard Size 00 ecify the oper Size 00 wto Fit	x 3 output	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites		Print Order Sł Priority Order	Cop Clea Defau Expo
Prese No. 6 Print rices index I ndex I 5 CD/D	(sh (sec (sh For VD (sh ity	neet) /she meet) mat x	Paper 0.00 G (et) 60 Print 0.00 Paper 4 4 Index1 V Pa 4 0.00 Pa	Mode tandard Size .00 ecify the uper Size .00 uto Fit uper Lengt	x 3 output	t paper	Border 3.0 3.	0 0 0 olor	Initial Co New Back Pri Set Io	orrection V v  v E how Only F nt v Ed	dit avorites		Print Order Sł	Cop Clea Defau Expo

This will prompt you to save, a ch\_data.csv file will be generated & saved. MaxLab is able to read and parse this file and this needs to be placed in the 'Presets Folder' that was configured in Production Agent. Any time presets are updated (Added/Changed) a new preset file must be exported and saved



in the Presets Folder so that MaxLab knows the most current Presets configured in SureLab Order Controller.

### Fuji Fcim (v3) Printer

ADD A DEVICE		-	×
Render to File	Device Name Enter Device Name		
Windows Printer	Print Requests Path		
Epson DPOF Printer	Enter Print Requests Folder path 💼 😰		
Fuji Fcim(v3) Printer	Products Path		
Fuji C8 Printer	Enter Products Folder path 💼		
PhotoGate Digital Delivery	Whitespace Bleed 🛛 🕢		
Noritsu Hot Folder	CREATE 5		
Fuji DX100			
Render to PDF			
Render for Web			
Photo Ticket to PDF			

- 1. Device Name This is the display name for the device
- 2. Print Requests Path See information below
- 3. Products Path See information below
- 4. Whitespace bleed See information below
- 5. Create button.

### Further information on setting up Fuji Fcim (v3) Printer

### **Print Requests Path**

This is the folder that the FCIM system monitors for Jobs. It is shared as PrintRequests on the Labserver eg. \\labserver\PrintRequests

MaxLab will generate print jobs in this folder for the FCIM system to pick up (Processed Images + Data files)

The Agent needs access to this location.

### **Products Path**

This is the folder that the FCIM system uses to store information about products within the system. MaxLab needs this so that it can read and parse out the product information. It is located somewhere like this \\labserver\Fes\DataFiles\Products

The Agent needs access to this location.

#### Whitespace Bleed

As per FCIM documentation bleed needs to be incorporated to the rendered image before sending the FCIM for printing. See <u>Appendix A</u>.



This setting will control the behaviour of how the Agent will deal with bleed. If this is enabled, the rendered image will have a white border around it that matches the bleed incorporated dimensions. If not enabled, the Agent will use the same method as LSPrint whereby it will enlarge the image to match the bleed incorporated dimensions instead of rendering a white border. Settings

#### Appendix A

A sample list of various products with suggested pixel dimensions that incorporate the necessary bleed.

Width	Length	Pixels W	Pixels L
3.5	5	1074	1524
3.5	7	1086	2136
4	4	1224	1224
4	6	1224	1824
4	7	1236	2136
4	8	1236	2436
4	10	1236	3036
5	4	1524	1224
5	5	1524	1524
5	6	1524	1824
5	7	1536	2136
5	8	1536	2436
5	9	1536	2736
6	4	1824	1224
6	5	1824	1524
6	6	1824	1824
6	7	1836	2136
6	8	1836	2436
6	9	1836	2736
8	8	2436	2436
8	10	2436	3036
8	12	2436	3636
10	7	3036	2136
10	8	3036	2436
10	12	3036	3636
10	13	3048	3948
10	15	3048	4548
11	8.5	3336	2586
11	14	3348	4248
11	17	3348	5148
12	14	3648	4248
12	15	3648	4548
12	17	3648	5148
12	18	3648	5448
12	26	3648	7848
12	36	3648	10848

# HALSYS

### Fuji C8 Printer

ADD A DEVICE		=	×
Render to File	Device Name Enter Device Name		Ê
Windows Printer	Spool Folder		
Epson DPOF Printer	Enter Spool Folder path 💼 😰		
Fuji Fcim(v3) Printer	Config Folder		
Fuji C8 Printer	Enter Config Folder path 💼 🗿		
PhotoGate Digital Delivery	Select Output Device Select output device 🔹		
Noritsu Hot Folder	Select Crop Mode NONE		
Fuji DX100			
Render to PDF	Auto Rotate to Fit 6		
Render for Web	Handle Bleed (7)		
Photo Ticket to PDF	Reverse Order Printing 8		-

- 1. Device Name This is the display name for the device
- 2. Spool Folder This is the folder that the C8 system monitors for Jobs. It is shared as C8Spool on the Labserver eg. \\labserver\C8Spool. MaxLab will generate print jobs in this folder for the C8 system to pick up (Processed Images + Data files)
- 3. Config Folder This setting is to identify the config folder for the C8 system, It is named C8Device and is usually within the same directory as the C8Spool folder. This folder should contain a FdiaDevice.ini which contains some basic information about the products, and devices for the C8 system.
- 4. Select Output Device The output device that should be used when sending jobs to C8.
- 5. Crop Modes
  - a. NONE No resize, image is rendered onto the product without resizing.
  - b. FILLIN Print area is filled with image and there may be image data lost if it does not match the aspect ratio of the print size.
  - c. FITIN Fits the image into the size selected, leaving it at its current aspect ratio. Will produce white space if the image is not the same aspect ratio as the print size.
- Auto rotate to fit Older versions of MS01 (pre version 3) don't automatically handle rotating different orientations of Images to fit the product width / paper channel. If your MS01 version is >3 then keep this setting off.
- Handle Bleed Older versions of MS01 (pre version 3) don't automatically handle bleed. If your MS01 version is >3 then keep this setting off.
- 8. Reverse printing Will do exactly that print in reverse, used for when producing books or magazines.
- 9. Create

Further information on setting up Fuji C8 Printer

### **Spool Folder**

This is the folder that the C8 system monitors for Jobs. It is shared as C8Spool on the Labserver eg. \\labserver\C8Spool

MaxLab will generate print jobs in this folder for the C8 system to pick up (Processed Images + Data files)



The Agent needs access to this location.

#### **Config Folder**

This setting is to identify the config folder for the C8 system, It is named C8Device and is usually within the same directory as the C8Spool folder. This folder should contain a FdiaDevice.ini which contains some basic information about the products, and devices for the C8 system.

The Agent needs access to this location.

#### **Select Output Device**

The output device that MaxLab should use when sending jobs to C8

#### **Crop Modes**

MS01 offers different crop modes

- NONE
  - No resize, image is rendered onto the product without resizing.
- FILLIN
  - Print area is filled with image and there may be image data lost if it does not match the aspect ratio of the print size.
- FITIN
  - Fits the image into the size selected, leaving it at its current aspect ratio. Will produce white space if the image is not the same aspect ratio as the print size.

#### Auto Rotate to Fit

Older versions of MS01 (pre version 3) don't automatically handle rotating different orientations of Images to fit the product width / paper channel. If your MS01 version is >3 then keep this setting off.

This option can be used so that Agent will be able to handle this, ticking this option shows the 'Map Product Sizes' button which can be used to enter the product size for related Fuji products. The Width entered for the Product is what will be used to rotate the image to fit.

If Auto Rotate to Fit is checked, then the resulting Image sent will be rotated to the fit product width. This product width, if not set will be parsed from the product code (eg. 10x8 = 10" width) - if the name is not in a suitable format then no action will be taken. In this case, a Fuji product can be manually assigned its sizes by using the 'Map Product Sizes' button.

#### **Handle Bleed**

Older versions of MS01 (pre version 3) don't automatically handle bleed. If your MS01 version is >3 then keep this setting off.

Agent can be instructed to handle Bleed, with this option enabled the Image will be rendered at an enlarged size to incorporate bleed.

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#### Map Products.

Having set up your Fuji C8 printer you will need to map all the print sizes in MaxLab to a size that is stored in your Fuji Frontier config file. You will need to do this in the device after it is created. Simply click on the Fuji device in Device Overview.

You will see the below screen, you need to click 'MAP PRODUCTS'

You will get the below screen appear. If you click the auto map button, MaxLab will map any known print sizes to the corresponding print sizes in the Fuji software.

### MaxLab Client User Guide

MAP PRODUCTS				_ 0	×
Search X	apped Only			CL	EAR
MaxLab Product	ą́z oĵ	Device Product C	ode	ĄĴZ OĴ9	
5 x 4 (5x4)	<b>»</b>	5x4		•	×
5 x 5 (5x5)	»	5x5		•	×
6 x 4 (6x4)	»	6x4		•	×
7 x 5 (7x5)	»	5x7		•	×
8 x 6 (8x6)	»	8x6		•	×
8 x 8 (8x8)	»	8x8		•	×
10 x 8 (10x8)	<b>&gt;&gt;</b>	10x8		•	×
12 x 8 (12x8)	<b>»</b>	12x8		•	×
11 x 14 (11x14)	<b>»</b>	12x16		•	×
10 x 7 (10x7)	»	10x7		•	×
6 x 8 (6x8)	»	6x8		•	×
Sample Proof 2 (8.3x11.7)	»	12x8		•	×
Sample Proof 1 (8.3x11.7)	»	12x8		•	<b>X</b> -
	ACCEPT	CANCEL			

Having let MaxLab do some of the work you can tick Unmapped Only and this will show you all the products that MaxLab hasn't been able to find a corresponding print size. These you can manually go through and assign by using the dropdown to change to a correct print size.



You may not have a correct print size which would mean this needs adding into the fuji software. When you are done click accept and it will save.



### **Photogate Digital Deliver**

Photogate functions as an automated digital image delivery system, transmitting any images sent to the device to undergo a digital fulfilment process. Subsequently, the end user receives an email containing a link to download and save their respective image.

ADD A DEVICE				-	×
Render to File	Device Name	Enter Device Name			
Windows Printer	CREATE		1		
Epson DPOF Printer					
Fuji Fcim(v3) Printer					
Fuji C8 Printer					
PhotoGate Digital Delivery					
Noritsu Hot Folder					
Fuji DX100					
Render to PDF					
Render for Web					
Photo Ticket to PDF					

1. Device Name - This is the display name for the device

### **Noritsu Hot Folder**

ADD A DEVICE					_ C	3	×
κender το File	Device Name	Enter Device Name				2	ŝ
Windows Printer	Magazine A Paper Width (Inches)	0	+-	ã		1	
Epson DPOF Printer							
Fuji Fcim(v3) Printer	Magazine B Paper Width (Inches)	0	+-				
Fuji C8 Printer	Magazine C Paper Width (Inches)	0	+=				
PhotoGate Digital Delivery	Magazine D Paper Width (Inches)	0	+-	5			
Noritsu Hot Folder	Hot Folder						
Fuji DX100	Enter Hot Folder path	e 🙆					
Render to PDF	Select Paper Fitting						
Render for Web	Real 🔹 7						
Photo Ticket to PDF	Sorter Number Surface	Render DPI	Add	Whitespace t	o Fit		
	0 +- 0 +-	- 0 +	÷				e)
	8 9	0		0			

- 1. Device Name This is the display name for the device
- 2. Magazine A Paper Width Width of paper in magazine A, in inches.
- 3. Magazine B Paper Width Width of paper in magazine B, in inches.
- 4. Magazine C Paper Width Width of paper in magazine C, in inches.

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- 5. Magazine D Paper Width Width of paper in magazine D, in inches.
- 6. Hot Folder This should be configured to the input Hot folder path for the Noritsu hot folder. You can use the folder icon within the input box to allow browsing to the folder location.
- 7. Select Paper Fitting The Paper fitting type that should be sent for this Job to NHF from the following: Crop, Shrink, Real.
  - a. **Shrink**: The image may be resized so the whole image is printed on the paper. There is a possibility that the resultant print has white border on the end.
  - b. **Cut**: The image may be cropped in order to eliminate the presence of white border. Still maintain the aspect ratio of the image, so there is a possibility that the outer area of an image may not be printed.
  - c. **Real size**: Image is not resized.
- 8. Sorter Number Specify the number of prints to be sorted by the sorter. When 0 is specified the number specified in the printer will be used by default.
- 9. Surface Specify the paper surface to use for printing (1 to 4). The paper surface that the printer supports should be set. e.g. Silk, Glossy, etc.
- 10. Render DPi Set this to the DPi of the printer, if over magnification is required set the DPi slightly higher.
- 11. Add Whitespace to fit With this ticked if you send a mismatched print size it will add whitespace to make it fit the width of paper you are trying to print it on.

### Fuji DX100

ADD A DEVICE		-	۵	×
Render to File	Device Name Enter Device Name			
Windows Printer	Select Printer Select Windows Printer			
Epson DPOF Printer				
Fuji Fcim(v3) Printer	CREATE			
Fuji C8 Printer				
PhotoGate Digital Delivery				
Noritsu Hot Folder				
Fuji DX100				
Render to PDF				
Render for Web				
Photo Ticket to PDF				

- 1. Device Name This is the display name for the device
- 2. Select Printer Select the Fuji DX100 from the drop down.

Note that the DX100 is using the same interface as a windows printer so extra set up is required in windows. Please see windows printer setup on page 6 or <u>click here</u>.

### MaxLab Client User Guide

### **Render to PDF**

ADD A DEVICE			_	×
Render to File	Device Name	Enter Device Name		
Windows Printer	Destination Location		- <u>-</u>	
Epson DPOF Printer	Enter output folder path 🚔	2		
Fuji Fcim(v3) Printer	Page Orientation	Mixed	- <u>3</u>	
Fuji C8 Printer		Batch	= ≍ -	
PhotoGate Digital Delivery	File per		Ľ <b>(</b> 4)	
Noritsu Hot Folder				
Fuji DX100	CREATE 6			
Render to PDF				
Render for Web				
Photo Ticket to PDF				

- 1. Device Name This is the display name for the device
- 2. Destination Location This the location where the PDF will be saved
- 3. Page orientation Set the orientation of the renders there are three options:
  - a. Mixed
  - b. Landscape
  - c. Portrait
- 4. File per Choose if you want a pdf per image or per batch.
- 5. Apply Quantity settings, if ticked this will create extra files if a quantity is applied to an image that is sent to this device.
- 6. Create.

Device Name	PDF Render	
Device Status	Online	•
Destination Location		
C:\Users\JamesC\Documents\Render\PDF	]	
Page Orientation	Mixed	•
File per	Batch	•
Page Numbering 🔽 SETTINGS		
Apply Quantity Setting (create extra files)		

Having created the PDF device there are some extra settings that you will find if you click on the device. Here you can set:

- Page Numbering This will give you a basic page number on each page.
- Apply Quantity Settings With this ticked, the system will generate multiple pages of an image if there is a quantity associated with it.

### MaxLab Client User Guide

### **Render to Web**

ADD A DEVICE				×
Render to File	Device Name	Enter Device Name		
Windows Printer	CREATE			
Epson DPOF Printer				
Fuji Fcim(v3) Printer				
Fuji C8 Printer				
PhotoGate Digital Delivery				
Noritsu Hot Folder				
Fuji DX100				
Render to PDF				
Render for Web				
Photo Ticket to PDF				

1. Device Name - This is the display name for the device.

### **Photo Ticket to PDF**

ADD A DEVICE				-	×
Render to File	Device Name	Enter Device Name	]①		
Windows Printer	Destination Locati	on			
Epson DPOF Printer	Enter output folder	path 💼			
Fuji Fcim(v3) Printer	Page Orientation	Mixed	<u></u>		
Fuji C8 Printer	File per	Batch	₹ 💥		
PhotoGate Digital Delivery			4		
Noritsu Hot Folder					
Fuji DX100	CREATE 6				
Render to PDF					
Render for Web					
Photo Ticket to PDF					

- 1. Device Name This is the display name for the device
- 2. Destination Location This the location where the PDF will be saved
- 3. Page orientation Set the orientation of the renders there are three options:
  - a. Mixed
  - b. Landscape
  - c. Portrait
- 4. File per Choose if you want a pdf per image or per batch.
- 5. OCR Allow the text in your PDF's to be searchable.
- 6. Create.

Having created a device you can click on it and you will get the following options.

# HALSYS

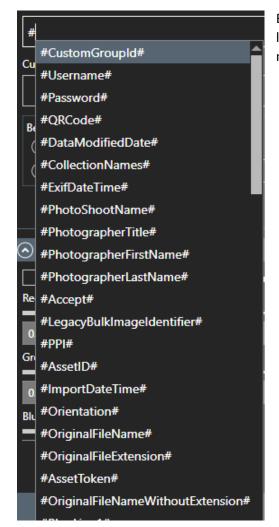
### **Standard Device settings**

### **Custom Save Location**

<ul> <li>Custom Save Location</li> </ul>	•
Custom filename	
Custom subfolder name	
Behaviour when chosen field	is empty
Error and stop	
Replace and continue	
	SAVE

Here you can set the filename of the render image and if you would like images to go into a subfolder.

• Custom filename

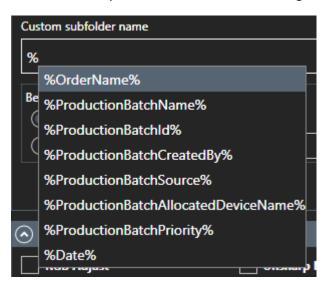


By typing # into the Custom filename box you will get a list of the available dynamic metadata, you can have more than one. e.g. #OriginalFileName##AssetID#



• Custom subfolder name

By typing % into the Custom subfolder name box you will get a list of the available dynamic metadata that is available, you can have more than one. e.g. %OrderName%%ProductionBatchCreatedBy%



- Behaviour when the chosen field is empty.
  - Error and stop This will stop the render process
  - Replace and continue Type in the box the test to be used, this is static text.
- Save

Having made the changes make sure you click save at the bottom of the custom save location box. You will see that there is a save button for each option box within the device.



Subfolders can be useful if you need images separated by class or year.

### **Image operation**

Here you can add any colour settings to a device, this will be applied to all images that go through this device.

Image Operations	
RGB Adjust	Unsharp Masking
Red	Amount
0.00	0.00
Green	Radius
0.00	0.00
Blue	
0.00	
	Saturation Adjust
Contrast	
0.00	0.00
Density	
0.00	-
Colour Management	
Select Colour Profile Sele	ct Colour Profile 🔹 🛨
Select Method Sele	ct Colour Profile M 🔻
	SAVE

- RGB Adjust
  - +-Red (+-Cyan)
  - +-Green (+-Magenta)
  - +\_Blue (+- Yellow)
  - $\circ$  +-Contrast
  - +- Density
- Unsharp Masking
  - Amount
  - Radius
- Saturation Adjust
- Colour Management
  - Select Colour Profile
  - Select Method
    - Apply
    - Embed
- Save



Having made the changes make sure you click save at the bottom of the Image Operation box. You will see that there is a save button for each box within the device.

### **Batch Card**

A batch card can either be printed/rendered at the start of the batch or at the end of the batch. A batch card has the following information printed on it.

Batch: Upload test\_1\_1 Device: Render to file Items: 51 Rendered: 2024-02-14 12:05:10Z Created: 2024-02-14 12:03:35Z Products: 10 x 8 (7), 8 x 6 (7), 5 x 4 (5), 7 x 5 (8), 6 x 8 (11), 4-4x3 (5), 2-5x3.5 (4), 4-3.5x2.5 (4)

<ul> <li>Batch Card</li> </ul>		•	
Enabled			
Start of Batch	1.00	Length (Inches)	
	SAVE		

- Enabled Tick if you require a batch card
- Start of Batch Will print at the start of the batch
- End of Batch Will print at the end of the batch
- Length Make sure this is set to larger than the minimum length your printer is able to print.
- Save

### **Batching Options**

<ul> <li>Batching Options</li> </ul>		
Enabled		
Batch size 1		
	SAVE	

You can use this option to divide the production batch into smaller segments. This helps in initiating printing tasks on your printer even before the entire production batch concludes rendering. For example, if you set the batching option to 10, it will print 10 images, then move on to the next 10. This will happen simultaneously.

This is unrequired for Render to File devices.



### **Tiling Options**

Here you can set if you want tile images onto a page. This is useful when producing photo tickets for QR and EXIF workflows or if you want to fill up a sheet.

Tiling Options	•
Enabled     Horizontal Tiling Only     Horizontal Tiling Only     Whitespace on Heigh     Stack Sort     Leave this off if you are unsure.	
DPI	300
Paper Width (inches)	5.00 + -
Paper Length (inches)	5.00 + -
	SAVE

- Enabled
- Horizontal Tiling Only
- Whitespace on height
- Stack Sort
- DPI
- Paper Width
- Paper length

### **Device Queues and Product Routing**

Here we will discuss what device queues are, and how to set them up and how we can apply product routing to these.

We talk about *devices* a lot in this document. A device could typically be a *printer* but it could also be a USB writer, a render-to-file device, a DVD writer, or even a hotfolder for some other product output.

### What are Device Queues?

Device queues are a very powerful way of controlling the routing of products to devices, with the following key advantages:

- Allow the system to automatically route prints to the correct printer based on product routing rules
- Manually send batches to a queue instead of to a specific device- allowing multiple compatible devices to be available to each batch sent.
- Gain control of production by enabling or holding queues based on paper sizes which are loaded
- Automatically and semi automatically load-balance between multiple compatible devices.



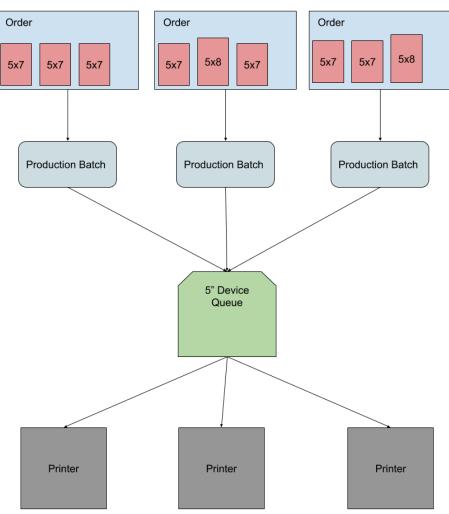
Although this can handle many sophisticated scenarios, the setup can be as simple or as complex as required. In its simplest form, device queues can exist without any associated rules, and be manually managed. This would still allow automated load balancing of fulfilment between all of the devices in a device queue, this is because you can send a production batch directly to a queue, similar to being able to send a production batch directly to a device.

#### Example 1 - Simple load balancing

This example highlights using device queues for automated load balancing between multiple devices/printers.

*I have 3 Fuji DX100 printers, and an agent running each printer. without Device queues, I would need to send each batch to a specific device and handle the load balancing between devices myself.* 

With Device queues, I can add all 3 devices to a single device queue and then send batches to that queue instead of a specific device - now all 3 devices are able to pick up any batches submitted to that queue. The batches assigned to the queue will be load balanced and fed to one of the 3 devices assigned - whichever is free and ready to pick up a batch.



Device routing example

This shows load balancing & automated routing of production batches to available printers in a way that distributes the workload between all 3 printers.



### **Creating Device Queues**

A Device queue can be created from within the Device Queues page in Production Agent, click the 'Add Queue' button and then choose a name for the Device queue, you will also need to choose the media type (Print/Digital - *note that RenderToFile can be used for either*) - Once done hit OK.

Now that a Device queue has been created, you can set up 'Device Routing' by assigning devices to the queue.

### **Queue Status**

- Active The queue is currently Active, and devices are actively being assigned work from this queue.
- **On Hold** The queue is currently on hold, work can be assigned to this queue but devices will \*not\* be assigned work from this queue.
- **Enabled** When 'Off' work will not be assigned to devices from this queue, and work can not be submitted to this queue.

### What is Product Routing?

Product routing describes how you define which products go where in the production workflow. Setting up product routes will allow work to be separated and batched in a way that allows it to be produced, this is required in the case where an order contains products that cannot be produced together by the same device-paper pairing.

### **Setting up Product Routes**

In the Device queues page in Production Agent you can assign products to a device queue - these product routes describe which products should be routed to this queue for fulfilment. This will allow separating work so that it can be produced.

### Example:

*I have 1 Fuji DX100 printer on a single agent - I need to print 5" and 6" products, to allow this I need to separate all of my 5" prints and my 6" prints so I can produce them.* 



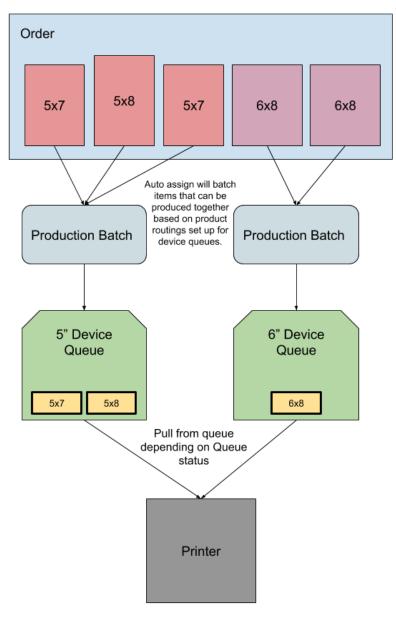
I have created two device queues, one named 5" and one named 6" - I add all 5" products to the product routing for my 5" device queue, and all 6" products to the product routing for my 6" device queue. I assign my single Fuji DX100 printer to both device queues.

I have 5" paper currently loaded in my DX100 and I am going to print my 5" products first - I set the 6" device queue to On Hold and the 5" queue to Active. Now when I go to send work to Production (From the Edit screen, or when releasing Orders to Production) I can choose 'Auto Assign' in the Device drop down list - this will now use my defined product routings to separate the work and route to the correct queues. In this example, I am sending two Orders that have a mix of 5" & 6" products. When sent, two batches will be created - one containing all 5" products and routed to my 5" queue, and one containing all 6" products and routed to my 6" queue.

As my 5" queue is currently active, the agent is pulling from this queue to feed my DX100 - all of my 5" work submitted to the 5" queue is produced.



When I want to print my 6" products, I can set the 5" queue to On Hold, change the paper in the printer and then set my 6" queue to Active - this will configure the agent to start pulling and producing from the 6" queue.



Product routing example

This shows the routing of items in an order with products that cannot be produced together/by the same device-paper pairing.

The two concepts can work independently, or together depending on the needs of the lab.

Once device queues and product routes are set up as required, the system is able to run the production workflow with a high degree of automation.



### **Using Device Queues and Product Routing**

Here we will discuss how the two concepts combine together, and how they can be used in production. A Lab may want one, or many of these depending on the needs of the lab.

### **Automated Device Load Balancing**

Device load balancing means distributing the workload between two or more devices, whilst this can be achieved by someone manually assigning production batches to different devices, this can be error prone, confusing, or slow especially in a high volume lab. Setting up device queues allows this to be achieved in an automated way that saves time and allows for a high degree of automation within the production workflow.

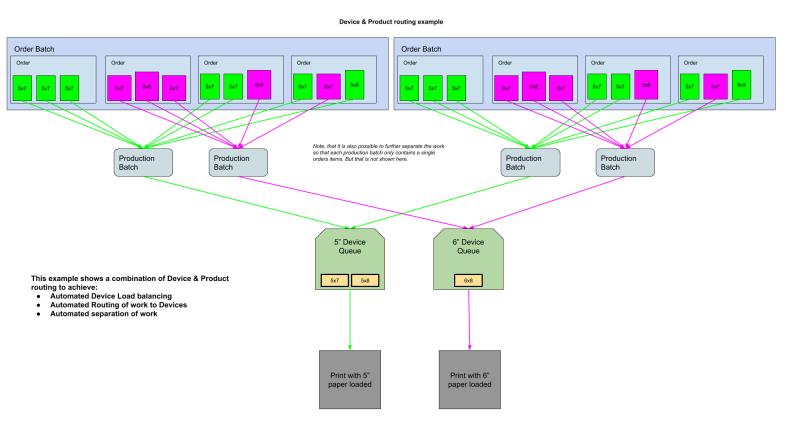
### **Automated Routing of work to Devices**

Automated routing means that work can be sent to production and will automatically be routed to the correct device/s for fulfilment. Setting up product routes allows this to be automated.

### **Automated Separating of work**

Separating work can be necessary if an Order contains products that cannot be produced together by the same device-paper pairing. Setting up product routes allows the separation of work, by product, to be fully automatic when sending to production.

### Diagram showing an example of all 3 combined





### **Semi Automatic Routing**

In addition to the previous features, you can also include the option to use multiple devices for routing products. For example, if you have two 8-inch printers, you can choose which one the production batch goes to. Also, if there are products not assigned to any device, you can decide what to do with them when you release the production batch in MaxLab Client.

Batch option	Batch options				
	Production Batch name: Test Knockout Images NOT PNG Routing: Auto Assign with status Created and priority Normal				
Sort options	5				
Sorting on Defau	It Sort Order and then by Default Sort Order				
Routing	Routing				
3 Batches will be g	generated.				
8 and 12 Inch	8 and 12 Inch (DeviceQueue)				
▷ 5 and 10 Inch	5 and 10 Inch (DeviceQueue)				
▷ Unallocated	Render to File 10 inch (Device) -				
	RELEASE				

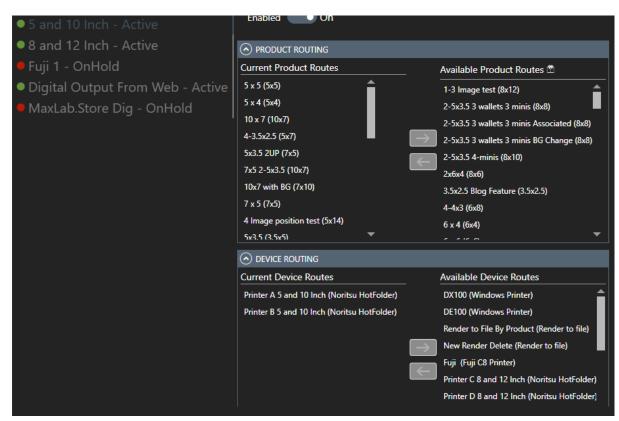
### Above is the producing orders modal in Maxlab Client

As you can see above we have three devices that products will routed too.

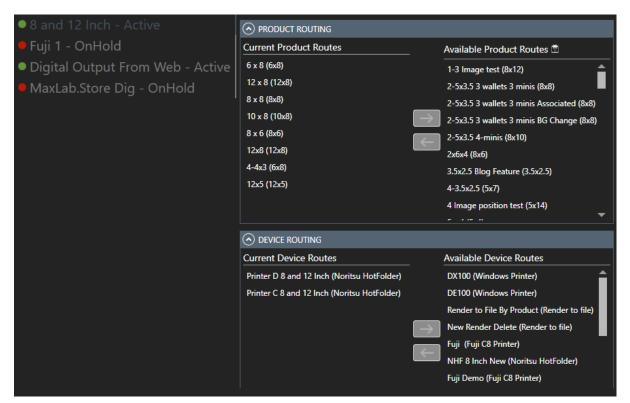
- 8 and 12 Inch
- 5 and 10 Inch
- Unallocated

### Below is the 5 and 10 inch queue in Production Agent





Below is the 8 and 12 inch queue in Production Agent



Any products in the production batch that aren't routed to a device queue will go into the unallocated queue and you can choose from the drop down which device they will go to.



### **Batch Queues**

### **Batch Overview**

This is where you can see all the batches that have been produced through MaxLab.

PRODUCTION AGENT									_ & ×
DASHBOARD									
DASHBUARD									
DEVICE OVERVIEW						Y Stat	us: All Y Devio	es: All Y Device Queues: All Y	Last Month
DEVICE QUEUES		STATUS	PRIORITY	CREATED DATE	CREATED BY	ALLOCATED DEVICE	NO. OF ITEMS	TARGETS	
	7792 School Name Here_15 Upload end to end School QR-2	2 Produced	Normal	02/22/2024 10:20:27	Administrator	Render 5 Inch		Render 5 Inch	â
BATCH QUEUES	7791 School Name Here_15 Upload end to end School QR-1	4 Produced	Normal	02/22/2024 10:20:26	Administrator	PhotoGate		Digital Output From Web	
	7790 School Name Here_15 Upload end to end School QR-1			02/21/2024 14:04:32				Digital Output From Web	
BATCH OVERVIEW	7789 School Name Here_15 Upload end to end School QR-2			02/20/2024 10:33:24				Digital Output From Web	
	7788 School Name Here_15 Upload end to end School QR-1			02/20/2024 10:33:24				Digital Output From Web	
HOT FOLDER	7787 School Name Here_15 Upload end to end School QR-2	Produced	Normal	02/20/2024 10:25:40	Administrator	Render 5 Inch		Render 5 Inch	
	7786 School Name Here_15 Upload end to end School QR-1			02/20/2024 10:25:40		PhotoGate		Digital Output From Web	
	7785 HS7 Grey1_6_1	Created	Normal	02/20/2024 10:21:53	Administrator			MaxLab.Store Dig	
	7784 School Name Here_15 Upload end to end School QR-1	Produced	Normal	02/20/2024 10:17:48	Administrator	Render 8 Inch		Render 8 Inch	
	7783 School Name Here_15 Upload end to end School QR	Produced	Normal	02/20/2024 09:16:47	Administrator	PhotoGate		PhotoGate	
	7782 Groups and Inds Upload	Produced	Normal	02/19/2024 17:24:59	Administrator	PhotoGate		PhotoGate	-
	7781 Upload end to end School QR_2	Produced	Normal	02/19/2024 16:36:53	Administrator	PhotoGate		PhotoGate	
	7780 Upload end to end School QR_1	Produced	Normal	02/19/2024 16:25:31	Administrator	PhotoGate		PhotoGate	
	7779 Upload end to end School QR	Produced	Normal	02/19/2024 16:22:50	Administrator	PhotoGate		PhotoGate	
	7778 Demo Dual Groups_5-2	Produced	Normal	02/19/2024 16:04:44	Administrator	Render 8 Inch		Render 8 Inch	
	7777 Demo Dual Groups_5-1	Produced	Normal	02/19/2024 16:04:43	Administrator	PhotoGate		Digital Output From Web	
	7746 Demo Dual Groups_5	Produced	Normal	02/15/2024 13:35:01	Administrator	Render 8 Inch		Render 8 Inch	
	7745 Upload test_1_1	Produced	Normal	02/14/2024 12:03:35	Administrator	Render to file		Render to file	
	7713 Numbered images_4	Produced	Normal	02/12/2024 14:43:41	Administrator	Fuji Demo		Fuji Demo	
	7681 Numbered images_3	Produced	Normal	02/12/2024 14:35:01	Administrator	Fuji Demo		Fuji Demo	
	7652 HS7 Grey1_6	Produced	Normal	02/12/2024 13:04:42	Administrator	Render 8 Inch	588	Render 8 Inch	
	7651 Demo Dual Groups_4_1	Produced	Normal	02/12/2024 13:04:10	Administrator	Render 8 Inch	609	Render 8 Inch	
	7650 PNG Upload_1	Produced	Normal	02/12/2024 13:03:48	Administrator	Render 8 Inch		Render 8 Inch	
	7649 PNG Upload	Produced	Normal	02/12/2024 13:02:57	Administrator	Render 8 Inch	90	Render 8 Inch	
	7640 Sports Images PNG_9	Produced	Normal	01/17/2024 14:32:31	Administrator	Render 8 Inch		Render 8 Inch	
	7639 PNG Webshop Upload_2_6	Produced	Normal	01/17/2024 14:23:45	Administrator	Render 8 Inch		Render 8 Inch	
· · · · · · · · · · · · · · · · · · ·									
					10( •	REVIOUS 1	EXT Page 1.		
Production Agent Desktop 2024.0.7.221									0%

You have access to the following option via a right click on the production batch, use the checkbox to select multiple production batches to perform an action to.

	ID	NAME	STATUS
~	7792	School Name Here_15 Up	load end to end School OR-2. 2. Produced
	7791	School Name Here_15 Up	View Logs
	7790	School Name Here_15 Up	Reallocate Device
	7789	School Name Here_15 Up	Reallocate Device Queue
	7788	School Name Here_15 Up	Change Status
	7787	School Name Here_15 Up	20
	7786	School Name Here_15 Up	Delete Selected

- View Logs You can view the production logs to check for any errors
- Reallocate Device Change the printer the production batch is allocated to, you can then resend to a different device
- Reallocate Device Queue If using routing can use this to reallocate the production batch to a different queue



- Change Status
  - $\circ$  ~ Send to Production Send the production batch to it's allocate device.
  - $\circ$   $\;$  Hold Place the production batch on hold
  - Cancelled Cancel the production batch
- Delete Selected Delete selected production batches

### **Hot Folder**

You can set up hot folders in MaxLab to produce a single size using a simple drag and drop of your images into a hot folder, there is no ability to apply any colour corrections.

This addition was made for a particular process. If you need more details, please reach out to Halsys.

		ADD HOT FO	DLDER			
	DELETE SELECTED HOT FOLDER		HOT FOLDER			
•	20x8	Hot Folder	Enabled		On	
•	32x8	Hot Folder	Hot Folder Path		D:\Hot Folders\20x8	<b>-</b>
			Product		20x8	•
			Device		Render 8 Inch (Device)	•
			Backup Folder Pat	<b>n</b> [	D:\Hot Folders\Backup	<b>1</b>
			Hot Folder Type		Product	
			SAVE			

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ADD A HOT FOLDER _ 🗖				×
Hot Folder Path	Enter hot folder path			<b>-</b>
Hot Folder Type	Product			•
Product				•
Device				•
Backup Folder Path	Enter optional backup folder pat	th		<b>-</b>
CREATE				

### **MaxLab Glossary of Terms**

Keyword	Description
A	
Analyser View	The Single image view within the Edit Screen. It is used for fine colour correcting and cropping where more focus is needed on each individual image; checking for blinks and zooming in on faces etc. See also <u>Gallery view</u> .
AD-Hoc Collection	A collection that is created across multiple collection, normally created after a search for assets.
Asset Badge	Edited,Corrected,Rotated,Printed,Ordered ?? Visual indicators of the status of an Asset shown on the thumbnail screen on both Edit and Library screen https://learn.fotoware.com/02_FotoWeb_8.0/Working_with_your_assets/How_asse t_markers_work
Asset	<ul> <li>An Asset is normally a Digital Image (JPEG or PNG) with an associated set of metadata. There can be many types of Asset depending on their source or purpose:</li> <li>Reference Asset</li> <li>Stock Asset</li> </ul>
Asset Type	Disambiguation: this differs from File Type or Image Type - see also <u>Asset Version</u> Asset Types can include • WIP • WIP
Asset Status	<ul> <li>Rejected</li> <li>Accepted</li> </ul>

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D	
Delivery -Batch or Direct (school photography)	<ul> <li>For School photography operations</li> <li>Batch delivery - deliver the printed products to the school so they can be handed directly to students,</li> <li>Direct Delivery - via mail or courier to parents homes.</li> </ul>
Delivery Notes	Notes that may accompany an Order to define and describe any special actions that are required during the fulfilment and distribution.
Derivative Asset	Created from the Original Asset but are not identical to it. A derivative may be; colour corrected, cropped or rendered in a product, etc. The primary difference to a Surrogate Asset is that derivatives have undergone an action that changes the content of the Asset from the original.
Digital Asset Store	A computer-system storage mechanism in which Assets, including any Surrogates and Derivatives are catalogued, indexed and stored for later retrieval.
Digital Distribution	<b>Method of Fulfilment and Distribution</b> . Digital distribution denotes the electronic transferral of Assets over a network connected or using machine-readable media. There can be multiple purposes for this distribution.
Dynamic Text	Used in Products. Denotes an area of text on a Product that is linked to a field of metadata and changes to display the defined metadata specific to each Asset.
Ε	
Edit Screen	Referred to in the UI as Edit View what you get to when you Open a collection from the Library screen
EXIF	Exchangeable Image File Format (EXIF) is a standard that specifies the formats for images, sound and ancillary tags used by digital cameras. The metadata tags defined in the EXIF standard cover a broad spectrum; (i) date and time information recorded by the current date and time set on the capture device, (ii) camera settings including static information such as the camera model and make, and information that varies with each image such as orientation (rotation), aperture, shutter speed, focal length, metering mode, and ISO speed information, (iii) thumbnail for previewing the picture on the camera's LCD screen, in file managers, or in photo manipulation software, (iv) descriptions, (v) copyright information, and (vi) geo-location tags.
F	
Face Detection	Process by which the faces of people are located within a digital image. Differs from <b>face recognition</b> as only the location and not the identity is found.
File Type	File Type or file format could include jpeg, png, mov
Filter	Reduces the results of a search to a sub-selection based on a keyword(s) parameter.
Fulfilment	The performance of a task where a type of goods is produced. Such goods include Assets that have been; Printed, Burnt to CD, placed in Product in Digital File, etc.
G	

Gallery View	A view within the Edit Screen which shows thumbnails and allows multiple selection and grouping operations to be performed See also <u>Analyser View</u>
1	
Image Owner	Holder of the copyright to an Asset. Typically either System Owner or Customer.
Image Type	Disambiguation- see also Asset Type and File Type Image Types can include Individual Group Teacher Usages: used in Layout designer for Linked Assets
Import	The act of adding images to the MaxLab system and associating any data with the images. Background operations are also performed such as indexing data and generating thumbnails.
Index Card/Print	A single print depicting all of the images in a particular group - might be a class, school or production batch
IPTC (IIM)	The International Press Telecommunications Council (IPTC) Information Interchange Model (IIM) is a set of metadata attributes that can be applied to images, text and other media. The Adobe Systems standard for the XMP metadata format uses IIM attributes as the core data structure ("IPTC Core").
J	
Job	Refers to a unit of work that encompasses one or multiple photoshoots occurring at a particular location or booking, such as a school or an event. This concept serves as a pre-shoot phase in the workflow, serving essential functions like the creation of tickets and establishing connections between data and images during the import process.
L	
Layout Designer	Application for creating Artwork for images which can be dynamic or static and applied at the time of rendering
Library Screen	Lists the <u>static collections</u> , and shows thumbnails of the assets in the collection. Collections can be opened in the Edit Screen from here. It also allows searching on metadata and ad-hoc collections to be opened.
М	
Multi-Kit	Variation where there are multiple Photographers at a single Photo-shoot each of which require their Assets to be processed differently.
Multi-Node Album	<b>Product</b> . Similar to a Multi-Node Layout but usually includes an Asset that covers a spread (two adjacent pages) along with multiple other smaller dimensioned Assets.
Multi-Node Layout	<b>Product</b> . Denotes a Product that includes multiple Assets, usually with the same or related Subjects. Will not typically include any breaks (pages, sheets of paper, etc.)
	1

Multi-Node Photobook	<b>Product</b> . Denotes a Product that utilises more than two pages and will typically include a variety of relevant Stock Assets.				
0					
Order	Images that make up a customer's purchase, created automatically through a sales platform or manually via order builder.				
Order Batch	Multi orders processed into one set for speed of production.				
Original Asset	Asset in form that is identical to the import state. May then be used for the generation of Surrogate, Derivative, or Working Assets. Might also be flagged as Reference, Stock, or Setup Asset.				
Р					
Pack/Package	A group of sub-products sold together as a single saleable item with a single SKU				
Panel Print	See Multi-Node Layout, usually the same image rendered onto a sheet to make up a pack.				
Photo-Shoot	A Photo-shoot may be an occasion, event or location with particular Products. This entity will have identifying metadata and utilise a Workflow that can be customised based on the conditions available for the selected Workflow. A Photo-Shoots forms the basis of a Job that can be imported into the computer-system.				
Preferred Products	Indicates Products that may be explicitly or automatically determined as preferred.				
Print	Method of Fulfilment. Denotes any type of fulfilment that uses any type of Printer. Print may include any types of goods/media (Paper, Mugs, etc.) that are fulfilled.				
Production Agent	Application / service for managing production devices and production batches sent from MaxLab				
Product	Encompasses any element or feature applied to an image during the production process. This can include a variety of items such as layouts, multi-node layouts, packs, or digital outputs. Essentially, it refers to any component that contributes to the final composition or presentation of the image.				
Product Template	A preset format for a Product that does not have to be recreated each time it is used. Allows for the rapid production of Products in which there may be minor alterations to a product (such as text of logos).				
Proof Card	<b>Product</b> . Relates to a single Subject and may include a large preview of a relevant Asset and smaller previews of all the available Products and their pricing from which a selection may be made for an Order. <b>Multi-pose Proof Card</b> , similar to a Proof Card but shows multiple large Asset previews with the same Subject.				
R					
Reference Asset	Denotes or relates to a conventional type of Asset that is regularly reused in different Photo-shoots or Workflows. May be used to demonstrate the brand image of the System Owner or as how Assets that are processed by the computer-system should appear.				

as in which an Asset is re-represented or depicted in an alternative form; at a ular DPI for printing, with artwork and or text etc. ased Access Control (RBAC) is an approach to restricting computer-system to authorised users. Roles are created for various functions. The permissions				
form certain functions are assigned to specific roles. Users are then assigned ticular roles, and through those role assignments are granted the permission form the relevant functions. Since a User is not assigned permissions directly ally acquire them through their role (or roles) the management of individuals is ser of assigning only those roles that are needed. This simplifies common User gement operations, such as adding a user or changing their company role.				
<b>Product</b> . Denotes a Product that is similar to a Composite. Combines multiple Assets into a single Product and that typically shows each of the chosen Assets in a grid format with a single Asset taking dominance (usually by relative size/dimensions) over the other Assets. The Product will rotate through each of the Assets to provide a version where each of the Assets included is provided with dominance. Each variation of the Rotational Composite will typically include dynamic text that is relevant to the dominant Asset.				
<b>Product</b> . A digital compact disc, USB memory stick or image transfer that includes Assets from a Photo-shoot that have been resized to a smaller format and any associated metadata, to be uploaded to a school CRM system.				
Stock Keeping Unit In the field of <u>inventory management</u> , a <b>stock keeping unit (SKU)</b> is a distinct type of item for sale -wikipedia				
Used to hold any or all data about an Asset. This can include any modifications to th Asset file, EXIF/IPTC data or other types of metadata. The benefit of using a Sidecar File is that the metadata does not need to be contained with the image and can be manipulated separately. The disadvantage is that this does also mean that the metadata contained within them can become lost or divorced from the Asset file. Sidecar file data can also sometimes be stored in a database rather than files to reduce the risk or loss at the expense of some flexibility.				
A fixed Collection of Assets that does not change dynamically. The Assets within eac Job may automatically be designated as a Static Collection for retrieval and reference but those Assets may then belong to multiple other Static or Dynamic Collections.				
Denotes or relates to a conventional <b>type of Asset</b> that is regularly reused in different Products. May be used to demonstrate the brand image of the System Owner or indicate a piece of Stock Photography that is used for specific purposes such as the satisfying of creative needs like stereotypical or contextual scenes relating to the situation in which Assets are typically captured.				
Refers to a technique for increasing the quantity of search results by reducing the supplied keyword search term to the base element of the word (the Stem) and then using that element to identify similarly appropriate terms.				
Describes the content of an Assetfor example a school student would be the subject of an asset taken in a school's photo shoot.				

Subject Metadata	a Metadata of an Asset relating to the Subject or multiple Subjects.				
Subject Token	Token assigned to the subject of an image which can be used externally to MaxLab -for example of a proofcard - to identify multiple images for a single subject and used as an access password.				
Supervisor	<b>User Role</b> . A person assigned a Role with elevated permissions to influence the computer-system with a particular aim to manage Operators and the Workflow.				
Surrogate Asset	Assets that originate from an Original Asset or a Derivative Asset and are typically used in combination with metadata. They usually provide a preview in the form of a thumbnail or downsized version that can be quickly transferred.				
System Administrator	<b>User Role</b> . A person assigned a Role with the majority or all of the permissions needed to influence and direct the operation of the computer-system.				
System Integration	Process of exchanging data between two or more computer-systems to leverage further benefits out of the original applications. May mean either the receiving or transmission of Assets and/or their metadata to automate a business process such as providing order and invoicing information to a finance system.				
System Owner	Individual or entity that is licensed to operate an instance of their selected services. Different System Owners may operate to different business models.				
System Pre-set	Denotes a pre-defined set of instructions or parameters for the operation of various parts of the computer-system. Might include Channels or Workflows.				
Т					
Tagging Tag	Colloquial term given to the process of adding metadata generally and in particular the adding of keywords to Assets.				
Token	Disambiguation: see <u>Asset Token</u> <u>Subject Token</u>				
Tracking Sheet	Is a printable document that provides a detailed overview of the components included in a specific order.				
U					
User	<b>See Person</b> . A User is a person who interacts with the computer-system via the associated Applications. There may be many differing types of User depending on their Role. Every User will need to authenticate using their Credentials. A User may be either an employee of the System Owner or a Customer.				
User Credentials	The unique combination of input data that can be used to verify and authenticate the identity of a User and determine their Role and thus their Permissions.				
User Generated Asset	Indicates an Asset that is uploaded to the computer-system by a User on an ad-hoc basis and outside normal automated procedures.				
User Permission	Permissions are assigned to Roles that are then assigned to Users. Particular Permissions may be assignable to Users outside the definition of their Role.				

User Profiling	Tracking of interactions by Users with the computer-system and associated applications to determine some of their preferences. Such preferences may then determine default options and setup of screens. Differs from User Statistics.				
User Role (Role)	Determined by Role-based Access Control. A User may have one or many Roles that determine their permissions to interact within the computer-system. Roles may include Administrators, Operators, or Basic Users plus any sub-sets and variations.				
User Statistics	Refers to statistical information and metrics for a single person or multiple people and their interactions with the computer-system. Used for the reporting of their actions to the employees of the System Owner but may also be used by the manufacturer to determine how the computer-system is utilised.				
w					
Watermarking/spoiler	Often used to protect Assets by applying a translucent logo or image over the top of a Surrogate or Derivative to prevent it being copied or reused without authorisation.				
Web API	An API (Application Programming Interface) is a set of routines and data structures that is provided by an application library or operating system in order to support the building of applications. A Web API is a type of API that is communicated over a HTTP protocol. A Web API is typically a defined set of HTTP request messages along with a definition of the structure of the response messages, typically expressed in either JSON (JavaScript Object Notation) or XML (Extensible Markup Language). Modern Web APIs have typically moved away from SOAP-based services towards REST-style communications. Web APIs allow for the rapid combination of multiple services into new applications known as Mashups.				
Web Service	A Web service is a method of communication between two electronic devices over the web (internet). A Web service is a software system designed to support interoperable machine-to-machine interaction over a network. It has an interface described in a machine-processable format - specifically Web Services Description Language, known by the acronym WSDL. Other systems interact with the Web service in a manner prescribed by its description (WSDL) using SOAP messages, typically conveyed using HTTP with an XML serialization.				
Working Asset	An Asset that is currently in metamorphosis due to either being in a state of automated processing or an action of rendering or fulfilment.				
Workflow	A pre-determined set of stages and actions that a Job will undertake. Actions that are taken within each stage of a Workflow may change dynamically based on either a Workflow Condition of a Workflow Customisation. Workflows may be designed from scratch or using a Workflow Template.				
Workflow Condition	Defines a dynamic change in the Workflow action based on a field of the Asset Metadata used in combination with the Controlled Vocabulary. Assuming an Asset meets the parameters of a condition the action that the Workflow takes may alter.				
Workflow Customisation	Indicates the customisation of a Condition of a Workflow Stage for a particular instance of its usage. A customisation will typically be made per Photo-shoot or per Photo-shoot Instance. Workflow Stages cannot be added or removed.				
Workflow Stage	A single stage of the Workflow. Each stage may have a related computer-system service or Web API with which it interacts to perform the associated actions.				

### MaxLab Client User Guide

Workflow Template	A set Workflow that can be easily duplicated and reused.		
x			
ХМР	The Extensible Metadata Platform (XMP) is a metadata data structure standard developed by Adobe Systems Inc. Allows the storage of standardised and proprietary information relating to the contents of a digital file within the file itself. The standard is based on XML and is therefore highly extendable. Standardised sections of XMP are managed by relevant standards organisations, such as the IPTC for both the IPTC Core and IPTC Extension schema components of XMP. The XMP schema allows for multiple other standards and data structures (EXIF, IPTC IIM, etc.) to be stored and permits each of the Applications that interact with a digital Asset to store its own information without affecting information that belongs to other Applications.		

### **Document Revisions**

Rev	Date	Ву	Notes
1	2024-02-12	JC	Created Doc
2	2024-05-02	JC	Updated to v2024.1.2