



Software Release Notes

Rev #: 1.<mark>01</mark>

SW Version: R5.3.3

Date: 26 August 2025

Software Release Notes Page 2 of 9

© Copyright 2025 Memjet Technology Limited.

VersaPass, DuraLink, DuraFlex, DuraBolt and DuraCore are registered trademarks of Memjet Technology Limited.

This document is provided to the recipient subject to and in accordance with the terms of

- Non-Disclosure agreement
- Provision of Technical Documentation and Samples Standard Terms and Conditions; and/or
- Component OEM Agreement

signed by recipient and Memjet.

To the extent permitted by law, this document is PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF ACCURACY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF ANY THIRD-PARTY INTELLECTUAL PROPERTY RIGHTS.

Memjet will not be liable for any misstatements or omissions, including but not limited to misstatements or omissions in relation to instructions for the operation, use or maintenance of any equipment, samples, components, or software. Recipient acknowledges and agrees that whilst care has been taken in compiling this information, it may contain estimates and draft information, and may not be current, accurate or complete. The information contained herein is subject to change without notice.

In the event of any conflict between the terms of this document and any executed agreement between recipient and Memjet, the terms in such executed agreement shall control and prevail. For the sake of clarity, only warranties expressly made in executed agreements will be binding on recipient and Memjet. Nothing herein should be construed as constituting an additional warranty.

Revision History

Doc. Version	SW Release	Date	Details
V1.00	R5.3.3	10 Dec 2024	First release
V1.01	R5.3.3	26 Aug 2025	Minor reference corrections





Software Release Notes Page 3 of 9

Contents

1	intro	roduction				
	1.1 1.2	Typographic ConventionsAdditional Documentation or Access				
2	New	Features and Improvements	4			
	2.1	Adds support for "just in time" Printing	4			
3	Bug	Fixes	5			
	3.1 3.2 3.3 3.4	No Longer Need Workaround to use TRANSACTIONAL TOF Sync Mode No Longer Faults if Pause Request happens Near End of Print Job Corrects Prepage Declog Calculations that could lead to a DATA_UNDERRUN Allows for use of Inverted TOF Sensor When Using the	5			
	medi	iaPresentSensorEdgeGate				
	3.5 3.6	Fixes Case Where a Non-Printing Fault Would Not Cancel the Print Job Fixes KWS when NoEjectZones are Enabled				
	3.7	Fixes Custom Spit Bar Margins When Right NoEjectZone is Set				
4	Kno	wn Issues	6			
5	Soft	ware Installation and Upgrade	7			
	5.1	Prerequisites	7			
	5.2	Installation/Upgrade Procedure	7			
	5.3	Set RIP Mode	8			
		Figures				
-	•	- Connect LiveUSB Drive via USB Port				
-10	HIPO X	- SOT PIP WOOD IN THE ISLIN FILE	~ ~			



Introduction Page 4 of 9

1 Introduction

DuraFlex® software version R5.3.3 upgrades the DuraFlex system to include "Just In Time" print capability, along with some other improvements.

1.1 Typographic Conventions

Throughout this document, the following typographic conventions are used:

Code	Courier font is used to identify HTTP GET and POST commands with associated arguments,	
Character	as well as references to source code, job states, registry settings, directory/file names, XCI	
	commands, and XML settings.	
Bold	Text that appears on-screen in the user interface is shown in bold font. This includes UI buttons,	
	engine states, warning codes, and fault codes.	
Yellow (Yellow highlighting indicates sections that are new or updates in this version of the document,	
Highlighting	compared to the previous version.	

1.2 Additional Documentation or Access

For additional product-related technical documents, go to your Memjet Partner Site.

If you need access, enter a case in Service Desk (https://OEMsupport.memjet.com), send an email to Memjet Customer Support (customer.support@memjet.com), or contact your Technical Account Manager.

2 New Features and Improvements

This section describes enhancements made to the software in this release.

2.1 Adds support for "just in time" Printing

With this release, DuraFlex now has the ability to support a single page in the datapath pipeline within the engine such that it is possible to develop a system that works with page data that is fed "just in time" (before a TOF arrives) to print a single page. Please see the "DuraFlex JIT Printing Guide V1.00_24May24.pdf" in the DuraFlex documentation for more detailed information.

Please be aware of the following **IMPORTANT** changes:

Hardware Parameter changes:

The Kareela hardware parameter config file hwparamstore.json file format has changed from R5.2.2 as follows.

- The fileFormatVersion has changed from 41 to 63. (NB: the intervening format versions apply to DuraBolt releases.)
- The interpage spit bars are now specified in micrometres instead of lines. This means the
 size and frequency of the maintenance can be designed based on measured distances rather
 than values that are specific to the job being printed. To convert existing settings based on a
 known job resolution, multiply delayLines, periodLines,and heightLines by (25400μm / job
 resolution in DPI) to get the new delayUm, periodUm and heightUm values.
- There is a new optional pesSettingsFactoryDefaults section. This defines a single parameter, defaultPepQueueMaxPages which is used to configure the maximum capacity of the page queue in the Print Engine Pipeline. For normal printing this can be set to values between 4 and 10. Setting it to 2 configures "just in time" printing mode.

Job submission:

26-Aug-25

Memjet Confidential

© 2025 Memjet Technology Ltd. This document and information contained herein are the confidential and proprietary property of Memjet Technology Ltd.





Bug Fixes Page 5 of 9

Print data must be sent to this system using JSL_R12.5.2 or later, which has been updated to support "just in time" printing.

3 Bug Fixes

The section includes corrections implemented in this release.

3.1 No Longer Need Workaround to use TRANSACTIONAL TOF Sync Mode

Using the TOF setting of TRANSACTIONAL mode used to require a workaround to set the TOF mode first to ALL_PAGES and print a job. Now, TRANSACTIONAL mode can be used directly, without the workaround.

3.2 No Longer Faults if Pause Request happens Near End of Print Job

This fixes a fault that could occur if a pause was requested too close to the end of a print job when there were not enough pages left to print to properly pause. Now, there will be no fault and the print job will continue to print the rest of the pages in the job.

3.3 Corrects Prepage Declog Calculations that could lead to a DATA_UNDERRUN

Previously, if the "First Page Prepage Gap" was computed to be an even number of lines, and the "Secondary Page Prepage Gap" was an odd number of lines, a DATA_UNDERRUN could occur. This has been fixed so no special calculations have to be made to avoid the mismatch of an even and odd number of lines.

3.4 Allows for use of Inverted TOF Sensor When Using the mediaPresentSensorEdgeGate

There was a bug in the setup of the mediaPresentSensorEdgeGate when coupled with using an Inverted TOF Sensor that meant only a non-inverted TOF sensor could be used. This has been fixed so an Inverted TOF sensor can now be used when using the mediaPresentSensorEdgeGate.

3.5 Fixes Case Where a Non-Printing Fault Would Not Cancel the Print Job

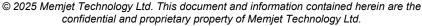
If the DuraFlex enters a fault state that is not due to a job fault or a fault while executing an algorithm, the print job remains in the PRINTING state instead of being cancelled. One example case of this would be if the IDS was disconnected during a print job. This has been fixed.

3.6 Fixes KWS when NoEjectZones are Enabled

An issue was found that caused KWS to be set incorrectly when NoEjectZones were used to limit the print width of the printhead. This could lead to unexpected dehydration. This has been fixed.



26-Aug-25







Known Issues Page 6 of 9

3.7 Fixes Custom Spit Bar Margins When Right NoEjectZone is Set

Custom spit bars were not extending to the full printable zone on the right side when NoEjectZones were used. This fix allows the full printable width for the custom spit bars.

4 Known Issues

No known issues



5 Software Installation and Upgrade

5.1 Prerequisites

CAUTION: The software upgrade will delete any existing data.

Follow the instructions in this section to install or upgrade the DuraFlex system software.

Perform the following tasks before a new software installation or upgrade:

- Create a DPCA LiveUSB drive according to the instructions in the DuraFlex Installation and Commissioning Guide.
- Record the Datapath PCA serial number from the label on the electrical enclosure.
- Save any configuration file or logs, e.g. hwparamstore.json, etc.
- Save a copy of the PrinterKeyStore file. For details on this process, please see Section 6.6 of the DuraFlex Installation and Commissioning Guide.
- Save any custom ICC profiles or dither profiles.

5.2 Installation/Upgrade Procedure

To install or upgrade software:

- 1. Set up the system network.
- 2. Power off DuraFlex.
- 3. Insert the DPCA LiveUSB drive into the USB port on the printing system.

Figure 1 - Connect LiveUSB Drive via USB Port



- 4. Power on the DuraFlex system.
- 5. Log in to DuraFlex using PuTTY with username duraflex from the Client PC.

Note: Alternatively, you can also use Windows 10 SSH if that is available.

No password is required. When the login is successful, the PuTTY terminal should respond with a shell prompt: [duraflex@servername ~]\$

6. In the PuTTY terminal, enter the command below to install the new software on DuraFlex:

dtpDpcaSwInstaller

7. Wait for the PuTTY terminal to display the following response indicating the upgrade is complete:

Installation Complete Press Return to quit

8. While the DPCA LiveUSB drive is still inserted, press Enter.

26-Aug-25

Memjet Confidential

© 2025 Memjet Technology Ltd. This document and information contained herein are the confidential and proprietary property of Memjet Technology Ltd.





- 9. Wait until the print unit boots from the DPCA LiveUSB drive again and obtains an IP address.
- 10. Ping the IP address of the print unit. Verify that the print unit successfully responds.
- 11. Power off the print unit.
- 12. Remove the DPCA LiveUSB drive.
- 13. Power on the print unit and wait until the print unit boots up.
- 14. Edit the hwparamstore.json file to configure the DuraFlex print unit:
 - a. From the Client PC, use PuTTY to log in to DuraFlex.
 - b. In the PuTTY terminal, use the text editor to open the file:

```
sudo vi /opt/memjet/kareela/data/hwparamstore.json
```

- c. Refer to the *DuraFlex Installation and Commissioning Guide*, specifically Section 6, Configure the Printing System, to make necessary changes.
- d. Save and close the file.
- 15. Copy the PrinterKeyStore file back onto the printer. See Section 6.6 of the *DuraFlex Installation* and Commissioning Guide.

5.3 Set RIP Mode

Starting from software release R4.2.x, the print unit will initially boot in Technictl mode. Therefore, it is required to set the RIP mode to internal or external.

1. Log in to DuraFlex using PuTTY with the credentials (duraflex for both username and password).

When the login is successful, the PuTTY terminal should respond with a shell prompt: [duraflex@servername ~]\$

Note: Alternatively, use Windows 10 SSH if that is available. For example, ssh duraflex@192.168.100.200

2. Change directory to the hwparamstore.json file location:

```
cd /opt/memjet/kareela/data
```

- 3. Open and edit the hwparamstore.json file:
 - a. Run the command to open the text editor:

```
sudo vi hwparamstore.json
```

b. Change the value of the ripMode variable to match the desired RIP mode.

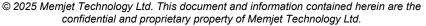
For example, if changing the RIP mode to the external RIP mode, set the ripMode variable to "external"; as shown in *Figure 8*.

Figure 2 – Set RIP Mode in the JSON File

```
"#": "'ripMode' determines the RIP mode that the print engine is operating in -
"#": "'external' means the RIP function is performed external to the print engine
"#": "delivered to the print engine in the form of the final, fully ripped and he
"#": "internal' means print jobs are delivered to the print engine in the form
"#": "Language (PDL) data stream, and the print engine runs an embedded RIP to co
"#": "final, fully ripped and half-toned dots for printing. Currently, the only
"#": "Currently, internal RI > mode is supported only in 1-wide systems.",
"ripMode": "external",
```

Memjet Confidential

26-Aug-25







Similarly, if the internal RIP mode is intended, set the ripMode variable to "internal".

- c. Save the hwparamstore.json and exit from the vi text editor.
- 4. Use the PuTTY terminal to enable the same RIP mode that you have set in hwparamstore.json.
 - a. Disable the current RIP mode:

dtpStop

- b. Power cycle DuraFlex.
- c. Enable the internal or external RIP mode:

dtpUseInternalRip or dtpUseExternalRip

