Demo GUI User Guide

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Revision History

Doc. Version	SW Release	Date	Details
V4.01	R4.2.2	03-Jun-21	• Updated 2.2 Install Procedure • Added 2.3 Uninstall Procedure • Updated Revision History table to correct SW release version to R4.2.2 for the previous document release • Minor editorial updates
V4.00	R4.2.2	30-Apr-21	• Added 1.5 Glossary • Added 1.6 Additional Documentation or Access • Renamed 3.3 Start Demo GUI • Updated 3.6.11 Service Printhead to add a caution about heavy service • Renamed and updated 3.7.7.1 Set RIP Mode • Updated Figure 6 – Demo GUI in the Connected State • Updated Figure 22 – 10GB Network Card Present Checkbox • Minor editorial updates
V1.11	R4.0	25-Nov-20	• Updated 3.5.3 One Button Printing steps • Updated Figure 11 caption • Updated 3.7.7.2 Keep Wet Spit (KWS) Settings • Updated Figure 19 – Keep Wet Spit Settings • Added graphic to 3.7.7.4 Networking • Updated 3.8.7 Print Buffer Usage

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1 Introduction

This document is part of the OEM-facing documentation suite for Memjet DuraFlex® module-based printing systems. It describes how to install and operate the DuraFlex Demo GUI software.

1.1 Aim and Audience

The aim of this document is to provide Original Equipment Manufacturers (OEMs) with the necessary information to install and use the DuraFlex Demo GUI software to control their printing.

Demo GUI is intended to demonstrate DuraFlex module capabilities to OEMs and to facilitate quick printing immediately following installation. The Demo GUI is not a replacement for the OEM Printer Control Software that the OEMs will develop for their final products.

1.2 Prerequisites and Scope

The reader is expected to be familiar with Memjet inkjet printing technology, its applications, and implementation.

This document does not cover the design, installation, operation, troubleshooting, or servicing of a DuraFlex-based printing system.

1.3 Typographic Conventions

Throughout this document, the following typographic conventions are used:

`Code Character`	`Courier` font is used to identify HTTP GET and POST commands with associated arguments, 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 Highlighting	Yellow highlighting indicates sections that are new or updates in this version of the document, compared to the previous version.

1.4 Related Documentation

Other documents, besides this guide, provide further details for specific readers:

- *System Overview* – For OEM managers and non-technical personnel charged with evaluating the DuraFlex components for use within their products. This document describes the DuraFlex concept and Memjet-supplied DuraFlex components and gives an overview of the operational considerations. It introduces the components an OEM is required to design and manufacture to ensure the DuraFlex Modules function as designed in a DuraFlex-based print engine.
- *Mechanical and Fluidic Databook and Design Guide* – For mechanical design engineers and developers, providing details of the Memjet hardware modules and components (including printhead and maintenance system) and specifications of the ink delivery system fluidics.
- *Electrical Databook and Design Guide* – For electrical design engineers and developers, providing details of the Memjet power requirements, electronic assemblies, and connections.
- *Software Databook and Design Guide* – For software and firmware engineers who need to understand the software interfaces, commands, scripts, and reference software applications.
- *Demo GUI User Guide* – For OEM personnel using the DuraFlex Demo GUI reference application.
- *Installation and Commissioning Guide* – For OEM personnel who are installing and commissioning a new printing system.
- *Operations Guide* – For OEM engineers and operators to perform operational tasks.

- *Troubleshooting Guide* – For OEM engineers and technicians to identify symptoms and resolve issues.
- *Service and Repair Guide* – For OEM engineers and technicians to perform DuraFlex inspection and maintenance tasks and component and consumable replacement.
- *Job Submission Library Guide* – For OEM software engineers to incorporate the Job Submission Library (JSL) into their chosen Raster Image Processor (RIP).
- *Technical Bulletins* – For various audiences to announce product or process update or to provide specifics on single-subject technical topics.
- *CAD and Schematics* – For various audiences to provide detailed dimensions related to specific areas.

Note:	All technical documentation is available on your Memjet Partner Site.

1.5 Glossary

For terms, acronyms, and abbreviations used in this guide and some product-specific terms, see the *DuraFlex Glossary*.

Note:	This document is hyperlinked to the glossary. For offline reading, download the DuraFlex Glossary file from your Memjet Partner Site.

1.6 Additional Documentation or Access

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

If you need Partner Site 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 Install Demo GUI

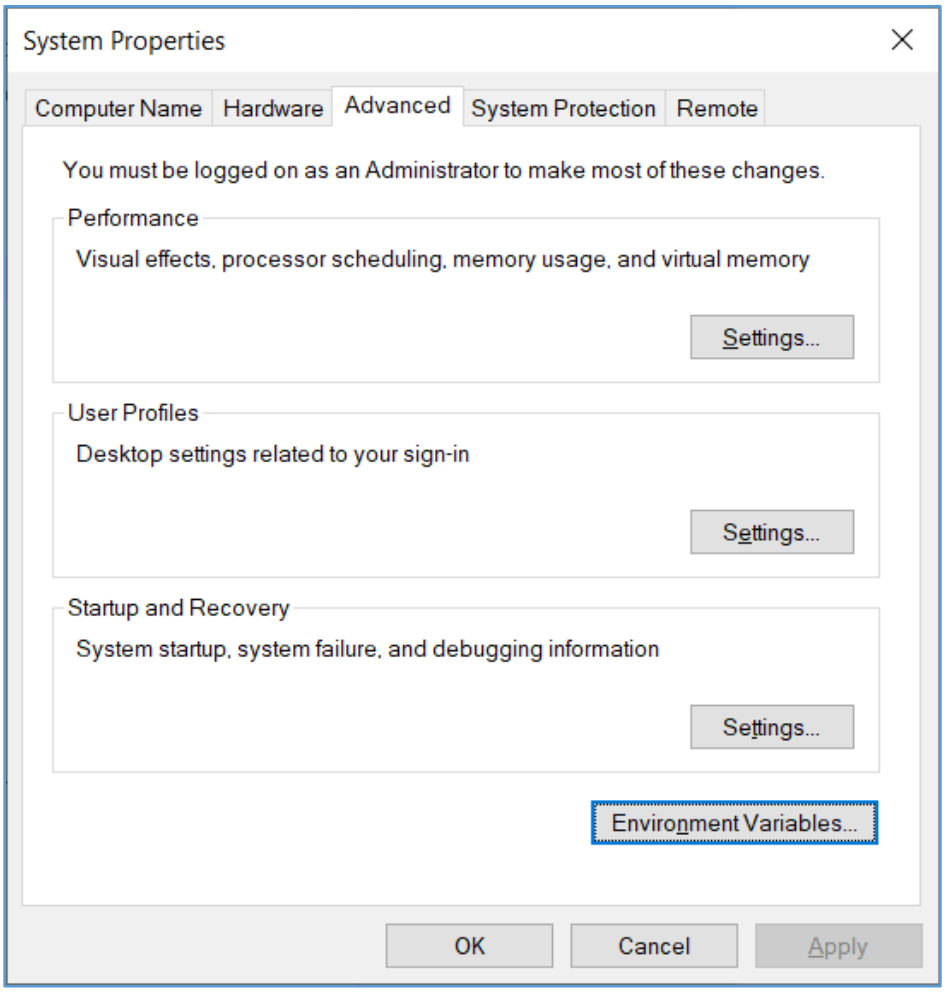
2.1 Prerequisites

Complete the following tasks before installing Demo GUI:

- Set up the Client PC running Windows 10 operating system.
- Perform the 1 GbE or 10 GbE network configuration steps in the *DuraFlex Installation and Commissioning Guide*, so that the system is using the 192.168.100.xxx subnet.
- Confirm that Java Runtime Environment (JRE) 1.8 is installed on the Client PC.
    - If not, download the installation file from: https://www.java.com/en/download/manual.jsp
- Add Java to the **Path** environment variable:

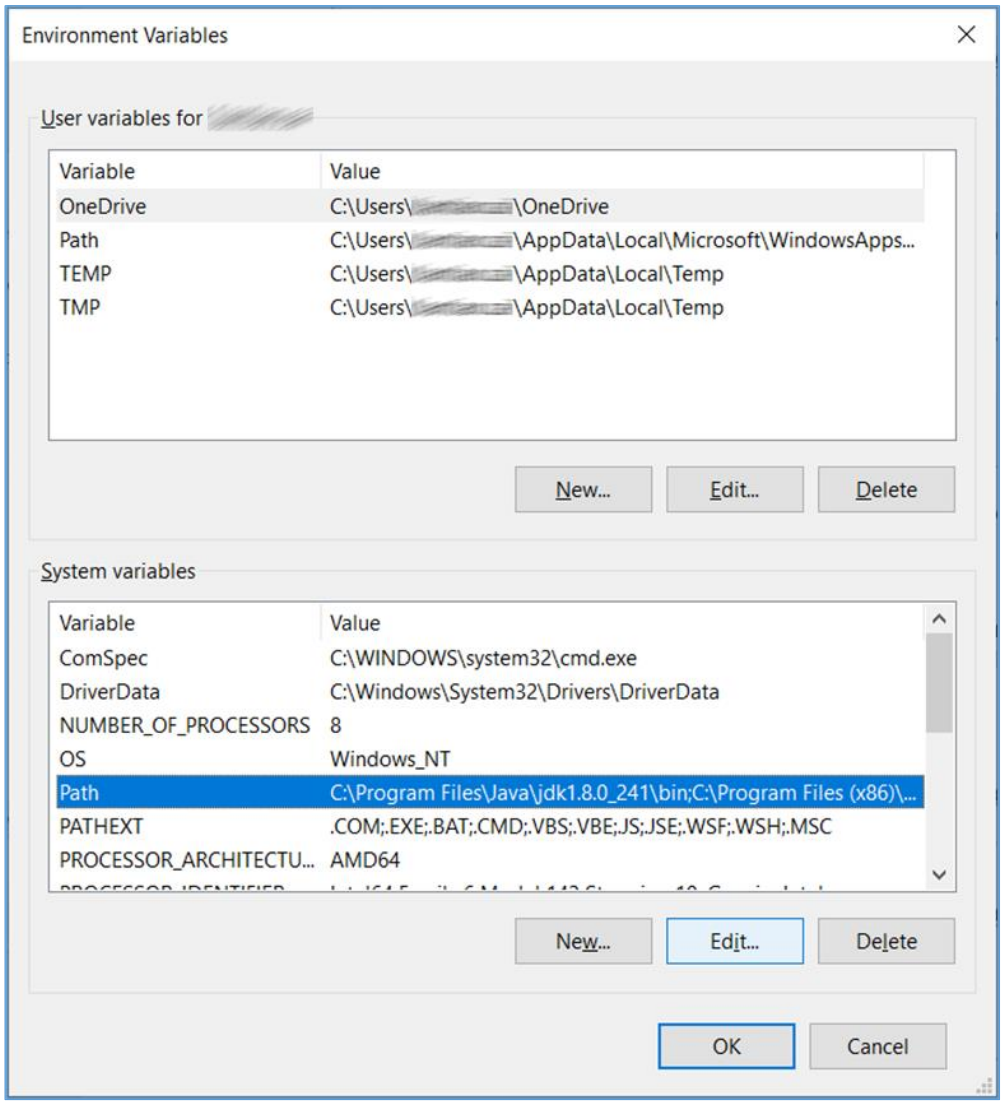
    a. Search for **Environment Variables** on the Client PC. The System Properties window displays.

Figure 1 – System Properties Window



b. Click **Environment Variables…**. The Environment Variables window opens.

Figure 2 – Environment Variables Window

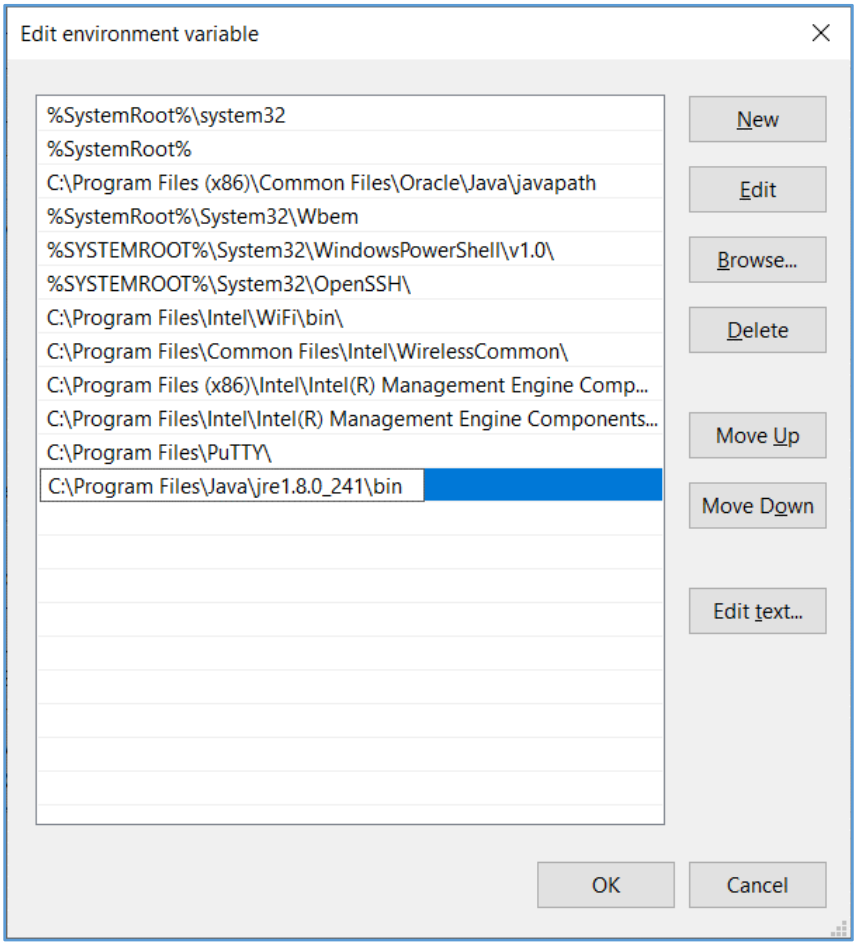


c. Under **System variables**, select **Path** and click **Edit…**. The Edit environment variable window opens.

d. Click **New** and add the path to Java `\bin` folder, e.g. `C:\Program Files\Java\jre1.8.0_241\bin`.

Your Java `\bin` may be different from the example. Be sure to add the correct path.

Figure 3 – Add New Environment Variable



e. Click **OK** on all the open windows.

2.2 Install Procedure

Every release of the DuraFlex software requires a new, compatible version of the Demo GUI software. Demo GUI software versions are numbered to match the base numbering of the released DuraFlex software. For example, DuraFlex software version R4.2.x requires Demo GUI software version R4.2.x-xy. OEMs must use the correct version of the Demo GUI software for a specific version of DuraFlex software. If the versions are mismatched, the software will not run.

Note:	Memjet recommends removing previous versions of Demo GUI before installing a new one to avoid confusion. See Section *2.3 Uninstall Procedure*.

To install the Demo GUI:

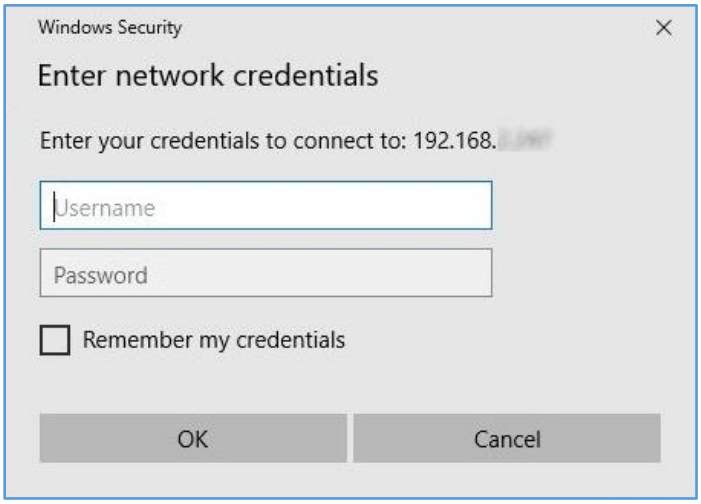
1. Use a 1 Gigabits/sec Ethernet (1 GbE) cable to connect the Windows 10 Client PC to the DuraFlex printing system.
2. Mount the DuraFlex folder on the Client PC.
   a. Open File Explorer and type the IP address of DuraFlex in the address bar. For example,

      `\\192.168.100.200`

   b. Once connected, enter the credentials (`duraflex` for both username and password), select **Remember my credential**, and click **OK**. This will save a shortcut to the DuraFlex printing system on the PC Desktop.
   c. Repeat step a and b, instead of using the IP address, use the Host Name. For example, `rs20300062.local` or `rs20300062` (the suffix `.local` is optional).

Note:	If the DuraFlex folder is not mounted, only the default ICC Profile and Dither files will be available in the Internal RIP mode.

Figure 4 – Enter Network Credentials Window



3. Extract the provided `dfGui-Rx.x.x-xy.zip` package into the `dfGui-Rx.x.x-xy` folder.

   The characters `x.x.x-x` show Demo GUI version number, and character `y` indicates the supported Web Handling System (For example, N indicates no web handler).

Note:	Do not move the `dfGui.exe` file from the `dfGui-Rx.x.x-xy` folder. It should always stay in the same folder with the `kenmarecat.exe` file.

4. Double-click the `dfGui.exe` icon to launch Demo GUI. If desired, create a desktop shortcut to the `dfGui.exe` for easy access.

2.3 Uninstall Procedure

Note: Different versions of the Demo GUI can coexist on the Client PC with no issues. However, Memjet recommends removing previous versions to avoid confusion.

To uninstall the Demo GUI:

1. Delete the `dfGui-Rx.x.x-xy` folder.
2. Browse to the Desktop and delete the shortcut to the `dfGui.exe` file.
3. If desired, delete the `dfGui-Rx.x.x-xy.zip` package.

3 Demo GUI Operation

3.1 Prerequisites

Be sure to fulfill the following requirements before using Demo GUI:

- Determine the DuraFlex hostname, which has been set during the installation.
- Assign an IP address to the DuraFlex system.

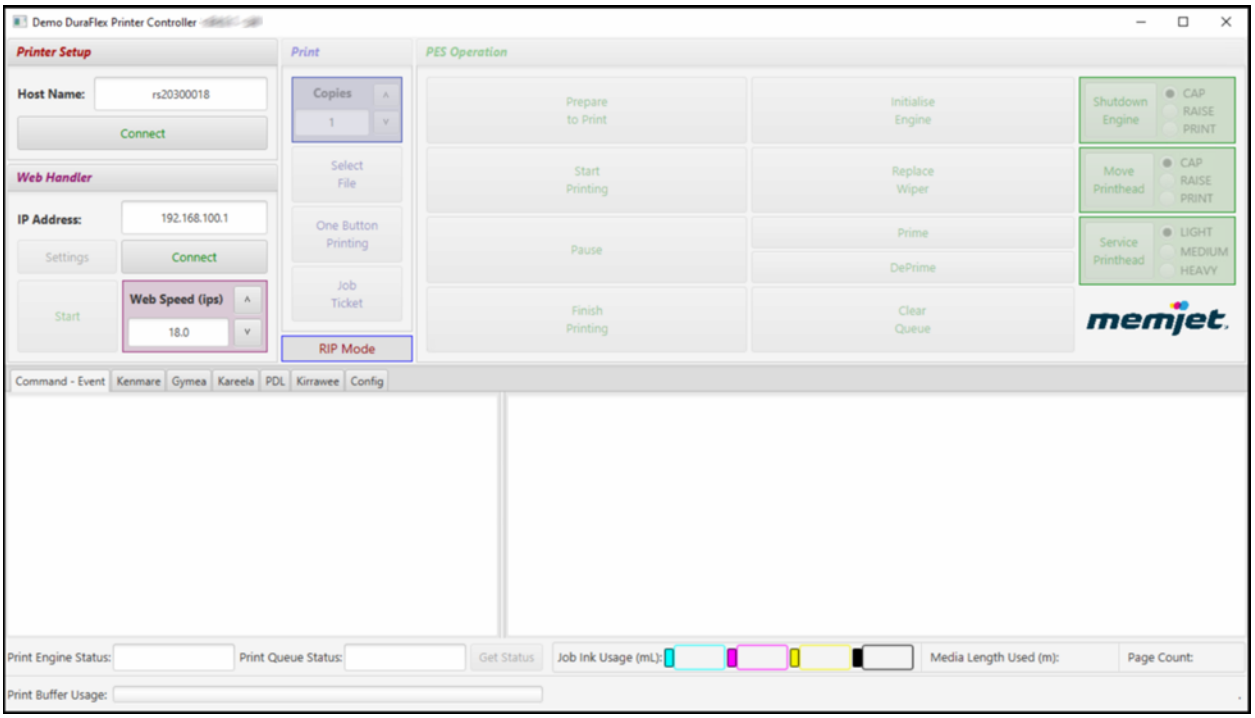
For more information about hostname or network setup, see the *DuraFlex Installation and Commissioning Guide*.

3.2 Demo GUI Overview

Figure 5 shows an overview of DuraFlex Demo GUI, which includes the following:

- Title Bar (with version and web handler information)
- Printer Setup Pane
- Print Pane
- PES Operation Pane
- Web Handler Pane
- Command – Event Tab, Logs, and Config Tab
- Status Bar

Figure 5 – Overview of Demo GUI



3.3 Start Demo GUI

To connect the Demo GUI to the DuraFlex system, in the Printer Setup pane (*Figure 5*):

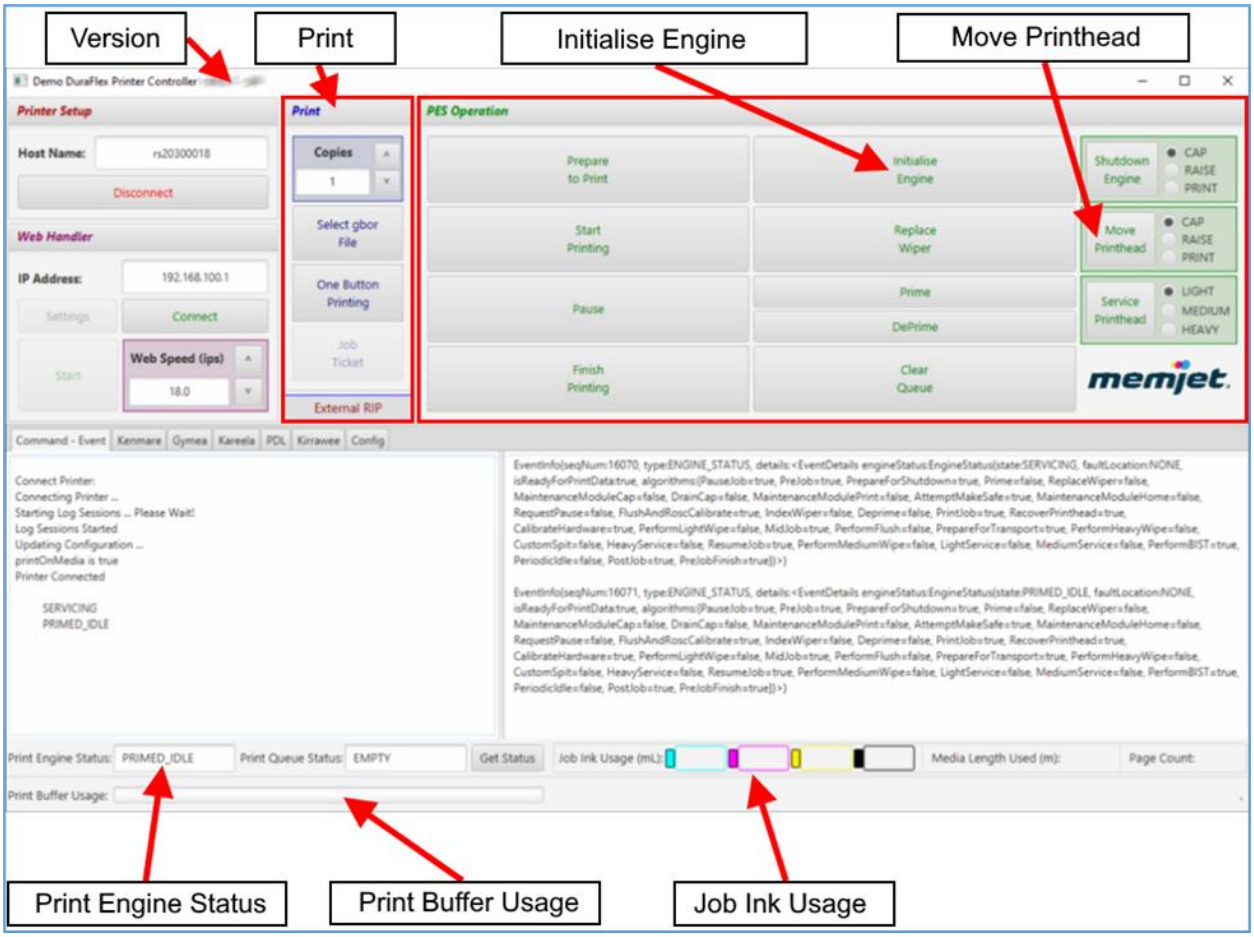
1. Enter the DuraFlex **Host Name**. For example, `rs20300018` or `rs20300018.local`

   Alternatively, you can also enter the IP address.

2. Click **Connect**.

Figure 6 shows the Demo GUI screen when the connection to DuraFlex system is successful. The Print and PES Operation sections are enabled after the connection is established.

Figure 6 – Demo GUI in the Connected State



3.4 Configure the Web Handler

In general, web handling systems are available from several vendors and each system can be configured differently. Therefore, it is not possible to develop a generic program that works with all types of web handling systems. The current Demo GUI provides a limited number of web handling systems supported by Memjet.

The identifying letter at the end of the version number in the title bar indicates the Memjet-configured web handler model supported by the Demo GUI. For example, “N” indicates “No Web Support.”

Please refer to the table below to see the identifying letter for each supported web handler.

Table 1 – Supported Web Handlers

Identifying Letter	Web Handler
N	No Web Support
L	Lemorau

Use the Web Handler pane to connect to a supported web handler.

1. Enter the web handler's IP address in the **IP Address** field.
2. To the right of the Speed (ips) field, enter a value or click the arrows to set the web handling speed (unit: inches per second).
3. Click **Connect** to establish the connection (*Figure 5*).
4. Click **Start** or **Stop** to manually control the web handler.

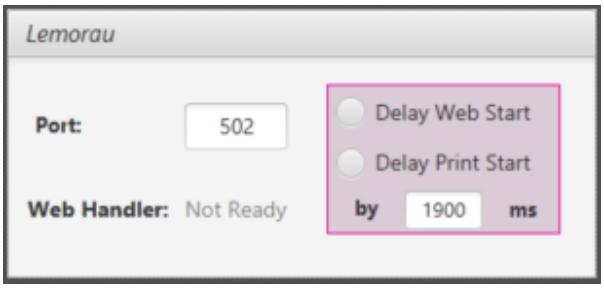
If the web is supported, the Demo GUI automatically starts the web before printing, and stops it after printing, when paused, or during mid-job servicing.

To configure automatic web handler settings:

1. Click **Settings** to open the Web Handler Settings window.

   This window is different for each type of web handler and depends on its supported functionalities. *Figure 7* shows one example of Web Handler Settings window.

Figure 7 – Example Web Handler Settings Window



2. Use the Web Handler Settings window to configure the settings described in the following sections.

3.4.1 Add Delay

There are two options:

- **Delay Web Start:** the Demo GUI sends the Start Printing command first, waits for the delay period set in the text field in milliseconds, and then starts the web. This option is useful when the web handler responds quickly and starts moving the media immediately. In this case, delaying the web prevents wasting media, as it will start right before the printhead reaches the media.
- **Delay Print Start:** the Demo GUI starts the web first, and then starts printing after the delay set in the text field. This option is useful when the web handler is slow to respond. In this case, printing needs to be delayed until the media starts moving and reaches its nominal speed.

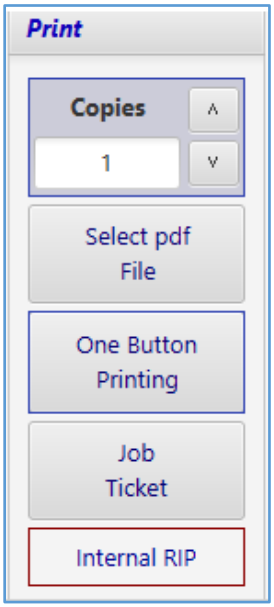
3.4.2 Change Port

Demo GUI uses Modbus protocol to communicate with the web handler. The default port for the Modbus is 502. You can change the port if necessary.

3.5 Print Pane Options

The Print pane allows you to print PDF or GBOR files with only a few clicks. It also allows you to view the current print mode.

Figure 8 – Print Pane



3.5.1 Number of Copies

Enter a value in **Copies** to set the number of prints.

3.5.2 Select PDF or GBOR File

When DuraFlex is in the Internal RIP mode, this button shows **Select pdf File**. Click **Select pdf File** to choose a PDF file. Then Demo GUI sends the PDF file to the DuraFlex system and the internal RIP prepares the PDF file for printing.

Similarly, when DuraFlex is in the External RIP mode, this button shows **Select gbor File.** Click **Select gbor File** to choose a GBOR file. GBOR file has already been through the RIP process, and the Demo GUI sends it directly to the DuraFlex system for printing.

Note:	The DuraFlex system's internal RIP supports the files only in PDF/X-1a format. If the selected PDF file is not in this format, the internal RIP will not process the PDF, and no errors will be reported.

When the job is successfully queued, the **Print Queue Status** in the Status Bar changes to `JOB_QUEUED`. *Figure 9* shows the Status Bar when a job is in the queue.

Figure 9 – Status of Print Engine and Print Queue

You can select multiple PDF files before starting a print job and select new PDF files while the DuraFlex system is printing the previously selected files.

3.5.3 One Button Printing

To use the **One Button Printing** option:

1. In the Demo GUI Print pane, set the number in the Copies field.
2. Select PDF or GBOR file.
3. In the Demo GUI, locate the Print Queue Status field.
4. Wait until the status becomes `JOB_QUEUED`.
5. If the Client PC network can guarantee 2.6 Gigabits/sec data throughput or higher (which is generally the case when a 10Gb/s connection is used), skip this step:

   Wait until the print job is completely moved to the buffer (*Figure 11*).

   - While the print job is moving to the print buffer, the progress bar is red.
   - When the print job fully moves to the print buffer or when the print buffer is full, the progress bar is green, indicating that the job is ready to be printed.

Note:	Currently the Print Buffer Usage is updated only when DuraFlex is in the External RIP mode.

6. Click **One Button Printing**.

Figure 10 – Red Progress Bar Shows Print Buffer Filling Up

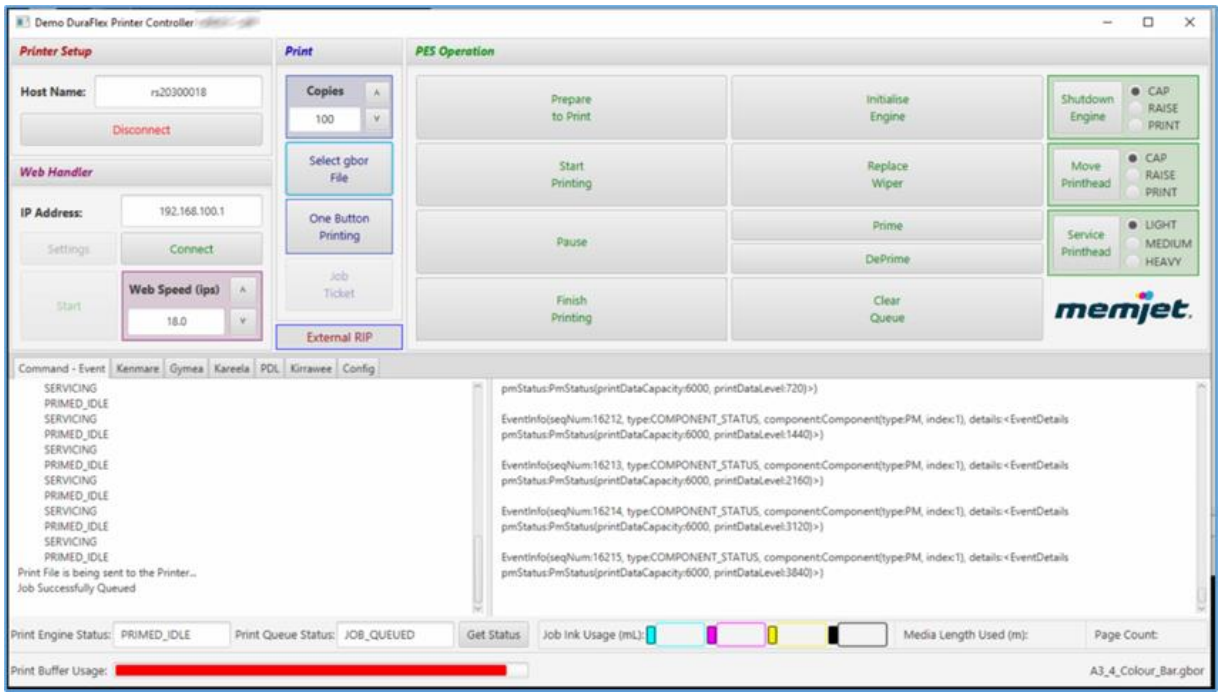
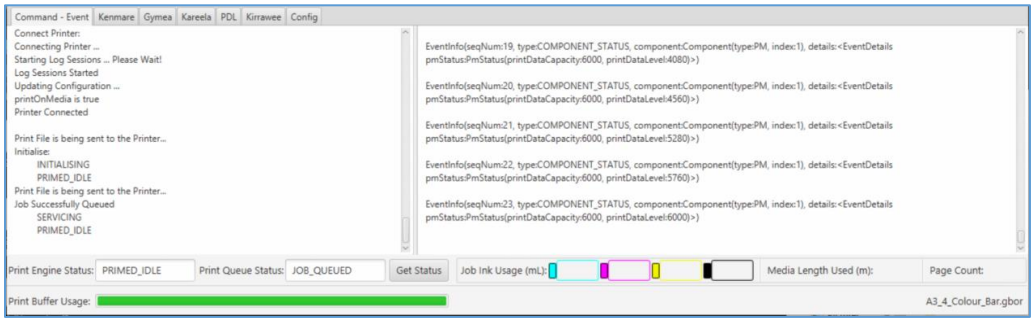


Figure 11 – Green Progress Bar Shows Job Uploaded to Print Buffer or Print Buffer is Full



The **One Button Printing** option simplifies the printing process. The software performs all the steps required for printing a job in sequence. It is the equivalent of performing the following steps separately:

1. Click **Prepare to Print**. Wait until the print engine is in `PRINT_READY` state.
2. Click **Start Printing**. Wait until the job is printed and print engine is in `SESSION_COMPLETE` state.
3. Click **Finish Printing** to complete the printing session.

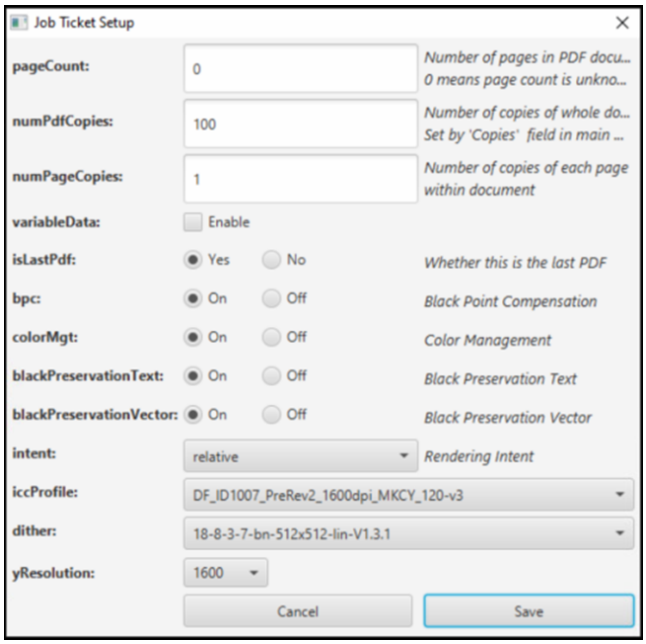
Note:	If a Web Handler is enabled, the button will also automatically start and stop the web.

For more details on the buttons mentioned above, refer to Section *3.6 PES Operation Pane Options*.

3.5.4 Customize the Job Ticket

When DuraFlex is in Internal RIP mode, the OEM can customize the RIP process by setting the job ticket parameters. To view and set parameters for a print job, click **Job Ticket** to open the Job Ticket Setup window.

Figure 12 – Job Ticket Setup Window



These settings are applied to the file that is processed by the internal RIP and printed. The **iccProfile** and **dither** dropdown lists show the ICC Profile and Dither files that are available.

3.5.5 Print Mode Indicator

The Print Mode Indicator shows the current print mode of the DuraFlex print unit. The print modes include **Internal RIP** and **External RIP**.

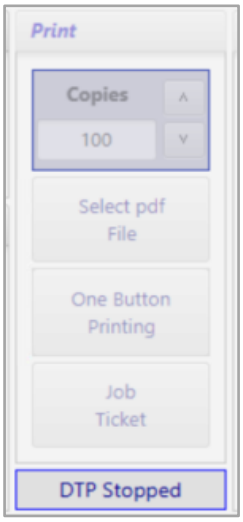
When print mode is changing from one to the other, the Demo GUI automatically issues a `dtpStop` command. During the change, wait until the Demo GUI shows **DTP Stopped** and the desired print mode is enabled.

DTP Stopped displays only in transition from one print mode to the other.

Figure 13 – Print Mode Enabled or Disabled

Internal RIP mode enabled. Job Ticket button enabled.

External RIP mode enabled. Job Ticket button disabled.



Print mode disabled during transition.

3.6 PES Operation Pane Options

The options in PES Operation section correspond to the functions of DuraFlex Print Engine Supervisor (PES) interface.

Figure 14 – PES Operation

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3.6.1 Prepare to Print

When you click **Prepare to Print**, the printhead moves to the PRINT position. This prepares the DuraFlex system for printing by changing the print engine status from `PRIMED_IDLE` to `PRE_JOB`, then `PRINT_READY`. This is the first step to print a file. When you click **Prepare to Print**, the software also passes the current **Web Speed (ips)** value to the print engine, which is used to dynamically adjust the KWS level during the printing.

3.6.2 Start Printing

Click **Start Printing** to change the print engine status from `PRINT_READY` to `PRINTING`, which means the system is running a printing job.

When the printing job is complete, the status becomes `SESSION_COMPLETE`.

3.6.3 Pause

Click **Pause** to change the print engine status to `PAUSING`, while the system continues to print all the buffered pages and then prepares to pause printing. When printing is paused, the print engine status becomes `PAUSED` and remains there, until you click **Start Printing**.

During pause, the printhead remains in the PRINT position. You can choose to move printhead to the CAP position by enabling the **CAP** option and clicking **Move Printhead**. If the printhead is capped during pause, you need to move the printhead to the PRINT position by enabling the **PRINT** option and clicking **Move Printhead** before leaving the pause state and starting to print. You need to click **Start Printing** to leave the pause state and start printing again.

If **One Button Printing** was used to initiate printing and the Web Handler was enabled, clicking **Pause** also stops the web, and clicking **Start Printing** will start the web.

3.6.4 Finish Printing

When the print engine status is `PRINTING` or `SESSION_COMPLETE`, click **Finish Printing** to end the print session. The status will change back to `PRIMED_IDLE`.

If you are using the **One Button Printing** option with web handling enabled, when you click **Finish Printing**, it will stop the web.

While a job is being printed, a red border around the **Finish Printing** button is shown, highlighting that you can stop or abort the printing by clicking this button.

3.6.5 Initialize Engine

When the print engine status is `OFF`, click **Initialise Engine** to change the status to `INITIALISE`. Initializing the print engine may take a few minutes, and if initialization is successful, at the end the status will become `PRIMED_IDLE` or `DEPRIMED_IDLE`.

3.6.6 Replace Wiper

Click **Replace Wiper** to move the wiper cartridge to its SERVICE position. After replacing the wiper, enable the **CAP** option and click **Move Printhead** to move the wiper cartridge to its HOME position.

3.6.7 Prime and Deprime

When print engine status is `PRIMED_IDLE` or `DEPRIMED_IDLE`, click **Prime** to fill the printhead with ink or click **Deprime** to remove ink from printhead.

3.6.8 Clear Queue

Click **Clear Queue** to remove all existing jobs from the print queue.

3.6.9 Shutdown Engine

Click **CAP** and click **Shutdown Engine** to set the print engine status to `OFF`.

Click this button when the print engine enters the `FAULT` state and needs to be in the `OFF` state before it can be initialized.

Currently, only the **CAP** option for this command is available.

3.6.10 Move Printhead

Click **CAP**, **RAISE**, or **PRINT**. Click **Move Printhead** to bring the printhead to the specified position.

3.6.11 Service Printhead

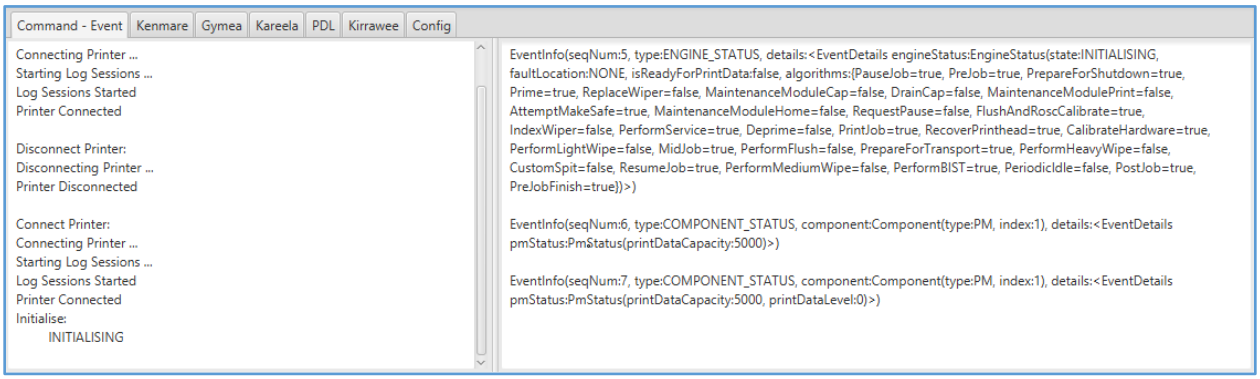
Click **LIGHT**, **MEDIUM**, or **HEAVY**. Click **Service Printhead** to perform the printhead service.

CAUTION:	A heavy service consumes significant waste ink and time and is not needed during normal operations.

3.7 View Logs, Commands, Events, and Configuration

The **Command – Event** tab, the logs, and the **Config** tab help you view the communications between the software front-end and back-end and the log messages from printing applications.

Figure 15 – Command – Event Tab

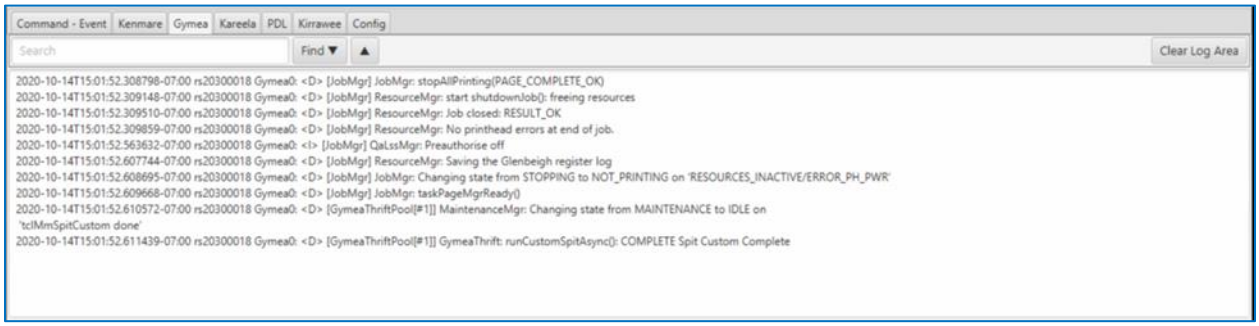


3.7.1 Commands – Event Tab

The **Command – Event** tab displays the commands that Demo GUI sends to the printing system and the events that are returned. The commands display on the left side of the text area, and the events show on the right side. The center divider is adjustable (*Figure 15*).

The Kenmare, Gymea, Kareela, PDL, and Kirrawee tabs display log messages for the DuraFlex system. Each tab allows searching and can be individually cleared if you click **Clear Log Area** on the top right corner. The figure below shows the **Gymea** tab as an example.

Figure 16 – Gymea Tab



3.7.2 Logs for Internal RIP

Click **Kenmare** to view log messages related to internal RIP process. Kenmare is the internal RIP software of the DuraFlex printing system.

3.7.3 Logs for Printer Control Software

Click **Gymea** to view log messages related to printer controller. Gymea is the printer controller software that drives the DuraFlex system to print.

3.7.4 Logs for PES Software

Click **Kareela** to view log messages about PES software. Kareela is the DuraFlex Print Engine Supervisor application.

3.7.5 Logs for PDL

Click **PDL** to view log messages related to the Printer Development Language (PDL).

3.7.6 Logs for Hardware

Click **Kirrawee** to view hardware-related log messages. Kirrawee is the software that controls the hardware in DuraFlex printing system.

3.7.7 Configuration Tab

Click **Config** to configure the operations the OEM can perform.

3.7.7.1 *Set RIP Mode*

Starting from software release R4.2.x, the print unit will initially boot in the 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, you can also 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:

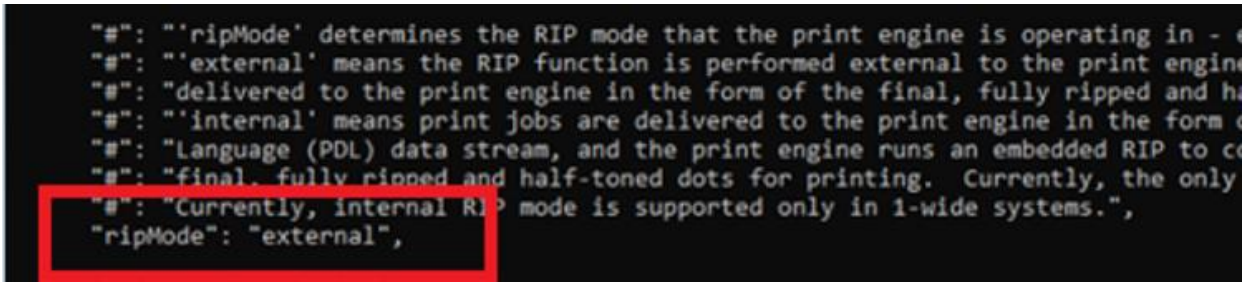
   a. Run the command to open the text editor:

   ```
   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 17*.

Figure 17 – Set RIP Mode in the JSON File



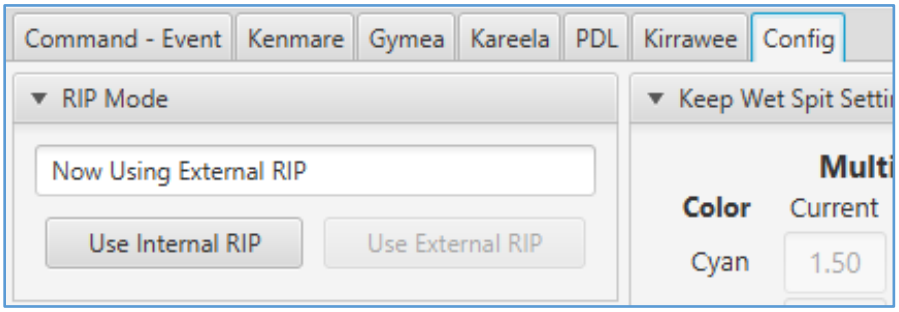
   Similarly, if the internal RIP mode is intended, set the `ripMode` variable to "`internal`".

   c. Save the `hwparamstore.json` and exit from the `vi` text editor.

Note:	It is a new feature in R4.2.x that the OEM must update the `ripMode` variable in the `hwparamstore.json` file to set the RIP mode.

4. In the Demo GUI connected to the print engine, select the **Config** tab.

Figure 18 – Switch Between Print Modes



5. In the RIP Mode section, enable the same mode that you have set in `hwparamstore.json`:

   - To enable the Internal RIP mode, click **Use Internal RIP**.
   - To enable the External RIP mode, click **Use External RIP**.

   To change the print mode, the print unit must be in the `OFF` state. Otherwise, a shutdown confirmation shown in the figure below will pop up, and you need to click **Yes** to shut down the print engine.

Figure 19 – Shutdown Confirmation Window

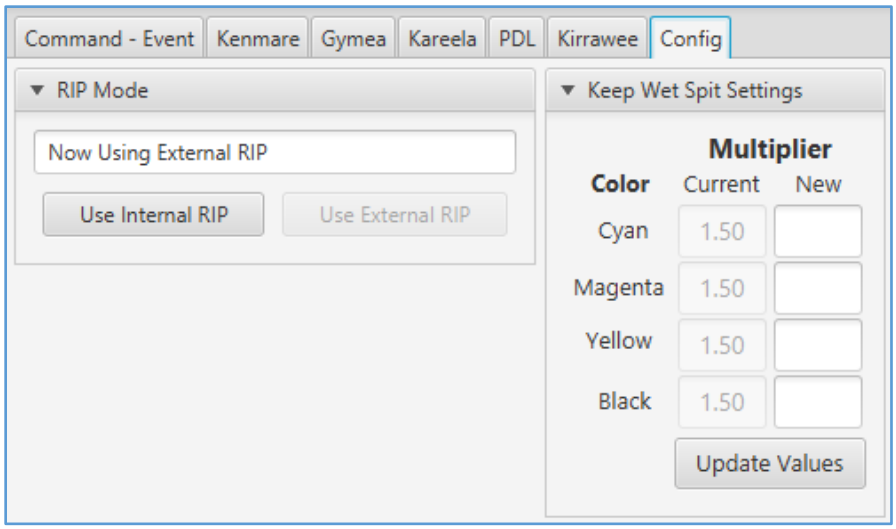
Note:	Alternatively, run the `dtpStop` command in the PuTTY terminal, power cycle the system, and run `dtpUseInternalRip` or `dtpUseExternalRip` depending on the RIP mode that you have set in `hwparamstore.json`.

3.7.7.2 *Keep Wet Spit (KWS) Settings*

1. In the Demo GUI connected to the print engine, select the **Config** tab.
2. Locate the Keep Wet Spit Settings section (*Figure 20*).

   The value shown in the **Current** column under **Multiplier** is the KWS user multiplier currently in use.

Figure 20 – Keep Wet Spit Settings



3. During installation, the OEM may decide to set KWS user multiplier to **3.33** for cut-sheet system or **1.5** for roll-to-roll. These values can maintain printhead health, but may be higher than the final setting and may need further adjusting.

   To set the multiplier, enter the desired value into the **New** column under **Multiplier** for each ink color. Click **Update Values** to apply changes.

Note:	The KWS user multiplier for each ink color can be set independently. The value range of multiplier is from **1.0** to **9.99**. The multiplier can be a decimal value. Exception happens when each user multiplier is set to **0**, it will disable KWS.

4. After setting the initial KWS level, perform the dehydration test to reduce the KWS level and ensure that the printhead passes the test.

   For more information about the dehydration test, see the *DuraFlex Operations and Troubleshooting Guide*.

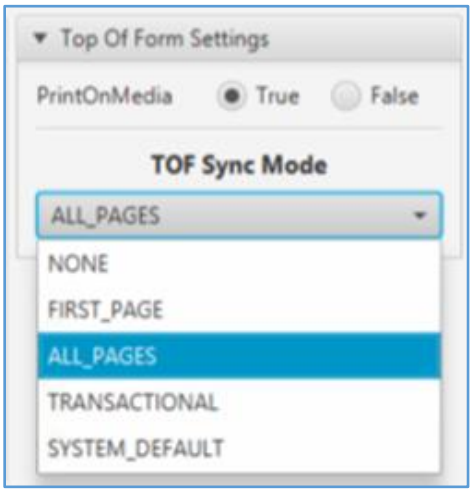
5. Print to verify.
6. If adjustment is required, change the multiplier and click **Update Values**. Print and verify again.

3.7.7.3 *Top of Form (TOF) Settings*

When you set the **PrintOnMedia** to **True**, this ensures that the ink is ejected from the printhead only if the media is present under the printhead. This setting is useful for the cut-sheet systems to prevent the ink from ejecting on the belt when media is not present. If **PrintOnMedia** to is set to **False**, once the media is detected by the TOF sensor, the entire image will be printed even if the media length is shorter than the image length. In this situation, the rest of the image will be printed on the belt.

The **TOF Sync Mode** dropdown menu includes different modes for the TOF triggers. For example, selecting **NONE** means that the TOF triggers will be ignored. This setting is usually used for the roll-to-roll systems. The **ALL_PAGES** setting expects a TOF trigger for printing each page of a job. This setting is usually used for the cut-sheet units. The **SYSTEM_DEFAULT** will use the mode that is selected in the `hwparamstore.json` configuration file.

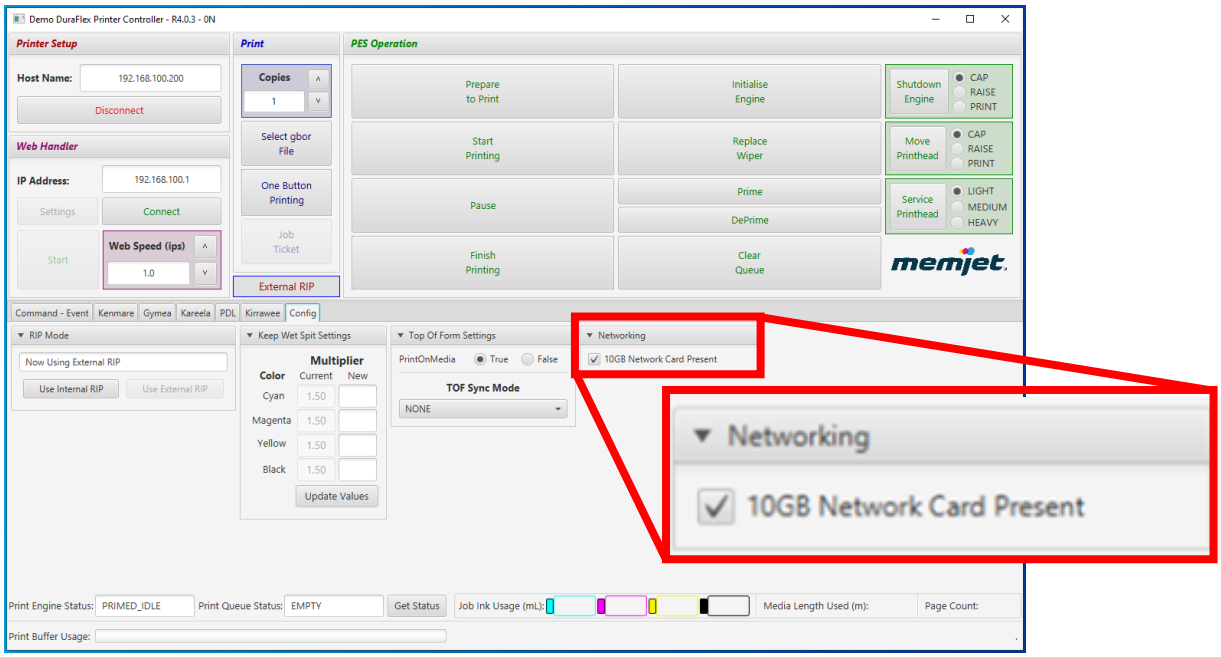
Figure 21 – Top of Form Setting



3.7.7.4 *Networking*

If a 10Gb card is present on the Client PC, select the **10Gb Network Card Present** checkbox (*Figure 22*). This will allow the Demo GUI to use the 10Gb card to upload GBOR files when the printer is in the External RIP mode.

Figure 22 – 10GB Network Card Present Checkbox



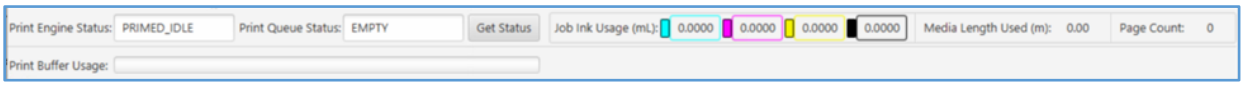
However, if the card is not present, deselect the checkbox and the Demo GUI will use the 1Gb connection to upload the GBOR files instead.

In the Internal RIP mode, the PDF files are always uploaded using the 1Gb connection.

3.8 Status Bar Fields

The Status Bar fields show the statuses of print engine, print queue, job ink and media usage, page count, print buffer usage, and the last printed file name. You can also refresh the print engine status manually.

Figure 23 – Status Bar



3.8.1 Print Engine Status

The Print Engine Status field shows the status of the DuraFlex print engine.

3.8.2 Get Status

Click **Get Status** to retrieve the status of the print engine.

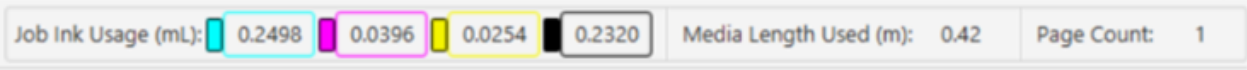
3.8.3 Print Queue Status

The Print Queue Status field shows the status of the queue.

3.8.4 Job Ink Usage

The Job Ink Usage bar shows the amount of ink (unit: milliliters) for each color used in the last print job.

Figure 24 – Job Ink Usage, Media Length, and Page Count



3.8.5 Media Length Used

Media Length Used shows the amount of media (unit: meters) used in the last print job (*Figure 24*).

3.8.6 Page Count

Page Count shows the number of pages printed in the last job (*Figure 24*).

3.8.7 Print Buffer Usage

The Print Buffer Usage status bar (*Figure 25*) shows the amount of memory in the print buffer that is allocated to the print job. While the print job is uploading to the print buffer, the status bar length increases and is shown in red. When the job is fully uploaded or the print buffer is full, the status bar turns green. As the print Job is being printed, the status bar length decreases.

Note:	If the Client PC network throughput to upload the image is lower than 2.6 Gigabits/sec (when generally happens when a 10Gb/s connection is not used), printing should start after the print job is fully uploaded in the print buffer, i.e. the status bar shows in green, to ensure data underrun does not occur.

3.8.8 Last Printed File Name

View the last printed file name in the lower right corner of the status bar. The figure below shows an example, where the file name is `A3_4_Colour_Bar.gbor`.

Figure 25 – File Name on the Status Bar