

New firmware release sunspot_release_6.21.13- 202407040743



Related links:
www.hp.com/go/latex/

For the HP Latex 630 printer series

July 2024

New versions of firmware and software for the HP Latex 630 Printer Series are available to download. HP recommends that all printers are upgraded to the new firmware and software as soon as possible.

Upgrade instructions

There are two options to update the firmware to the latest version.

Firmware update using a USB flash drive

1. Download the firmware package and store it on the USB flash.
 - Go to: <https://support.hp.com/us-en/drivers/selfservice/hp-latex-630-W-printer/2101610359> and download the latest firmware.
 - The firmware contains 2 files in a zip format: sunspot_release_6.21.13-202407040743_signed.z01, sunspot_release_6.21.13-202407040743_signed.zip. All these files need to be downloaded.
 - Select the two zip files and, using your compression software, decompress the two files to the location of your USB flash drive.

IMPORTANT: It is recommended to use decompression software such as WinRAR or 7.zip.

- The decompressed file should appear similar to: 'sunspot_release_6.21.13-202407040743_signed.bdl'
- Check that the file in the USB is not corrupted. Use an MD5 software to check it. MD5: f276f8104f48dfa873a8be6c7ea118f5

IMPORTANT: The USB flash drive should contain only one firmware file (.bdl) in the drive's root folder, and no other files (at least of 8 GB of capacity).

2. Connect the USB flash drive to the USB connector at the rear of the printer.
3. Go to the control panel and follow the sequence:



4. In the appearing screen press the file that refers to the new firmware.

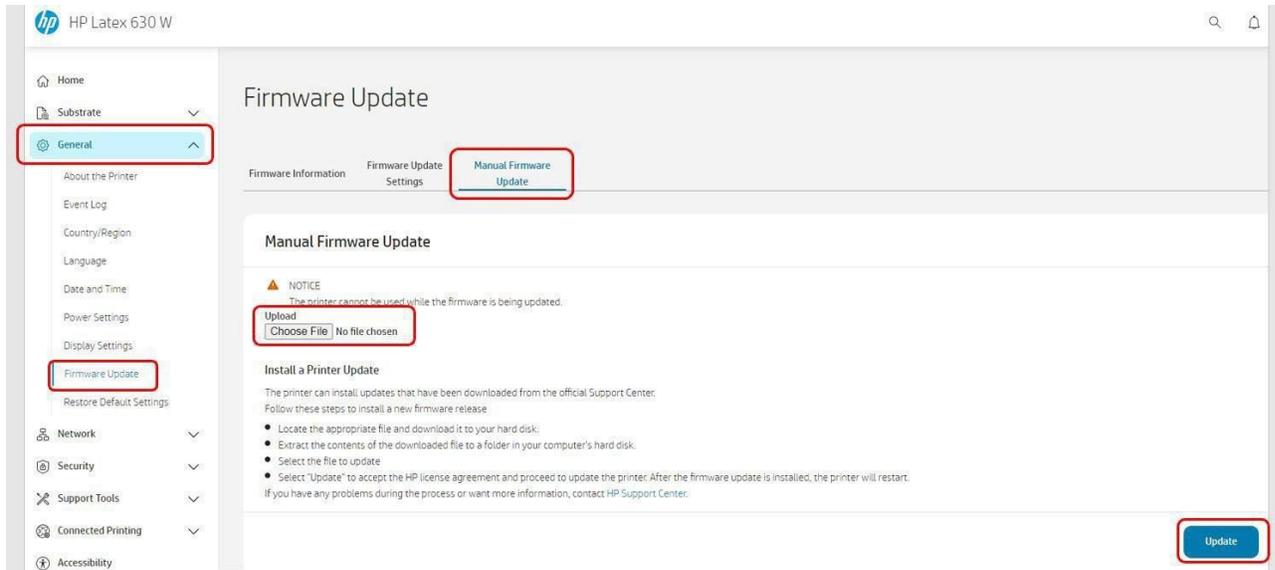
Specifications of the USB flash drive:

- USB 2.0 compatible.
- At least 8 GB capacity.
- FAT 32 preformatted.
- No hardware encryption.

Firmware update using the Embedded Web Server

1. Download the firmware package and store it on the RIP PC's hard disk or another computer in the same LAN as the printer.
2. Access the Embedded Web Server by entering the IP address of the printer on a web browser.
3. In the Embedded Web Server, select General and then Firmware update > Manual firmware update.

NOTE: You may be required to enter the default PIN.



NOTE: You might be required to enter the PIN, which can be found on the label, at the rear of the printer.



4. Browse to select the downloaded .bdl file and click Agree.
5. A couple of reboots due to System Errors are needed to complete the installation.

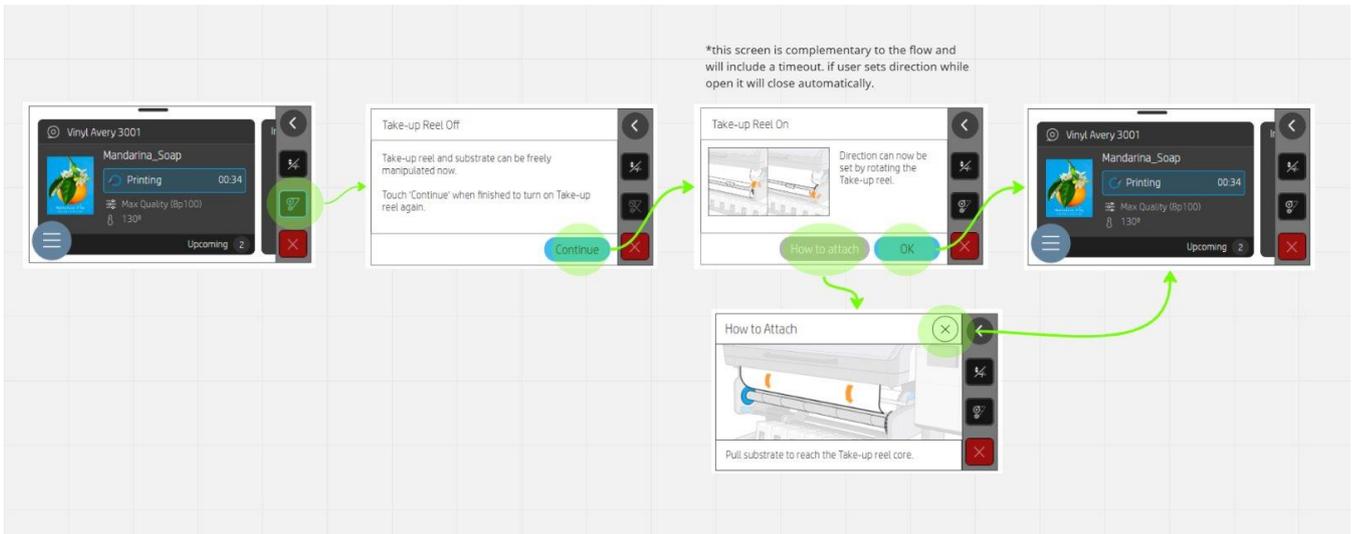
Main changes and improvements of this release are:

- New Take-Up-Reel Front Panel Workflow.
- Manual feed animations improvement
- Sheet load avoids backward movement (avoid unloading)
- Improvements when setting the right edge position from the front panel.
- Notify user if the leading edge is inside the curing zone and gives them options to correct it.
- Only allow manual load for textiles.
- Opening the curtain when printing and curing are cancelled to avoid touching the plot.
- Calibration status for input sources.
- Inform users when they try to change cloned profile settings while printing that profile.
- The number of clicks is reduced in the package download/install.
- Improved mismatches (white Printhead alert).
- Optimized Print & Cut margins.
- Display current curing temperature and curing target temperature in the job queue widget.
- Feedback on automatic recoveries.
- Support for very large jobs (disk management).
- Display estimated ink used (ml) on the Embedded Web Server printhead page.
- Low on ink setting to enable/disable notification on Front Panel.
- Included calibration status. PMK and Maintenance Cartridge status in service plot.
- Remote Control Panel.
- New order of apps in menu.
- Fix for System Error F0.01.01.02.
- CSAT button available.
- Compatibility with the new SAI Rip version 22 (4445v1).

Details of main improvements

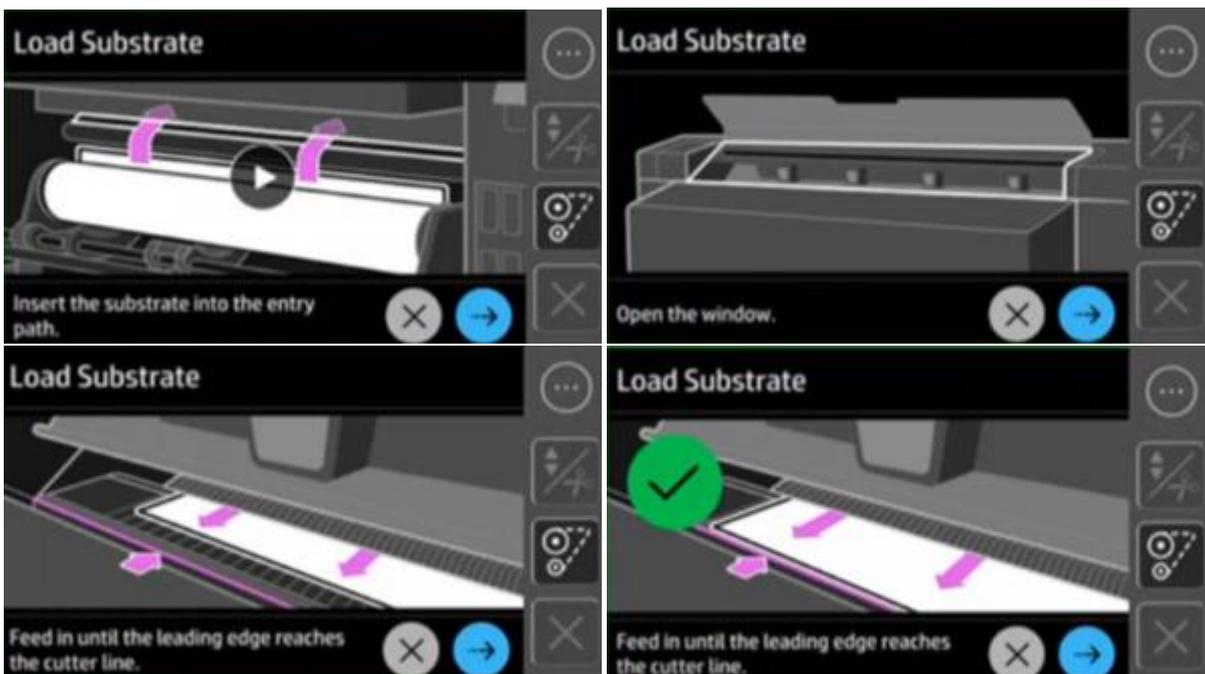
New Take Up Reel Front Panel Workflow

New Workflow to clarify the process of enabling and disabling TUR.



Manual feed animations improvement

New animations to clarify the process of manual feeding when loading substrate.



Sheet load avoids backward movement (avoid unloading)

Sheet load in HP Latex 630 Printer series fails most of the time (nearly 100%) because when media is rewound without back tension, skew is affected significantly. Therefore, the workflow which supports sheet loading to avoid having backward movements has been revised for both, manual and assisted feed.

Improvements when setting the right edge position

Some types of media cannot be detected with the media presence sensor of the carriage (transparent materials, some textiles, etc.). Therefore, a new option has been created to manually adjust the right edge position.

<Modify: <Paper source>>	
Type	<HP Universal>
Width (<mm/in.>)	<Unknown>
Length (<m/ft>)	<Unknown>
Size	<Unknown>
Right Edge Position (<mm/in.>) From -0.8 to 7.6	<input type="button" value="-"/> <input type="button" value="↑"/> <input type="button" value="↓"/> <input type="button" value="+"/> >
Tiling optimization	<input checked="" type="checkbox"/> Paper >

Cancel Done

User is notified if the leading edge is inside the curing zone and options are given to correct it.

If a user sends a job to print, and the front edge of the media is between "Ready Position" and beyond the end of the curing zone, a modal is displayed on the Front Panel with a "Resume" button and "Resolve" button:

- Resume: Printer will print as usual.
- Resolve: Printer shows the move and cut workflow and when the workflow finishes, the printer starts printing again.
- If the user does nothing for 1 minute in this menu, the printer will print as usual.

Only allow manual load for textiles.

If a textile media type is selected, the printer will only allow it to use manual load.

Open vapor curtain when printing and curing cancel to avoid touching the plot

When a plot is being printed and then it is suddenly cancelled (both printing and curing) or when it has been fully printed and the curing is cancelled, the curtain stays closed, and it makes the plot be smeared (the curtain removes its ink) when it makes contact with the curtain, and the curtain also gets stain.

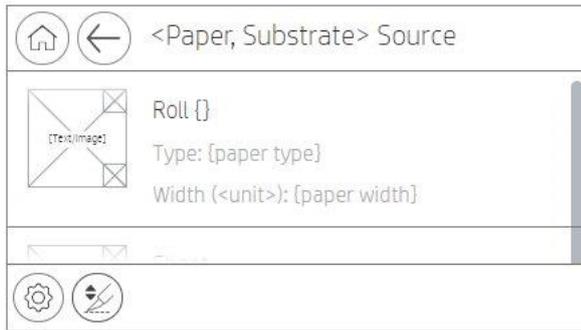
From now on, the printer will automatically open the curtain when both printing and curing or just curing are cancelled.

Calibration status for input sources

In the input card, the color calibration status of a media has been added:



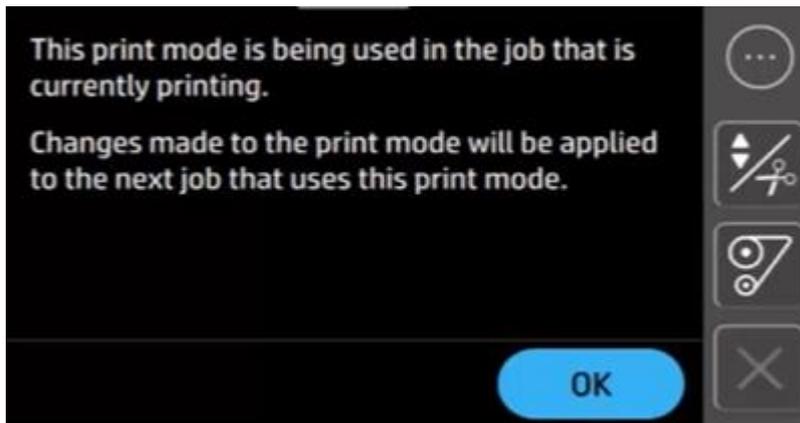
Paper_OutputOptionsNoBatchLoad_2



Inform the user when they try to change cloned profile settings while printing with that profile

On previous releases, users could modify the settings of the Paper mode while printing with that profile. These changes are not being applied to the current job; they would be applied in the following job.

In this firmware, a message will pop up during the process letting the user know that changes will be applied in the next job and on.



Improved mismatches (white Printhead alert)

From this Firmware and onwards:

- Jobs will not be printed if white printhead is not installed.
- When trying to print a non-white job but the white printhead is installed, the printer will recommend to the user to swap the white printhead by a dummy printhead to avoid ink damage/waste.

Optimized Print & Cut margins

By default, Print & Cut jobs are sent from RIP with the following job Settings configuration:

- Top Margin: 5.4 cm
- Bottom Margin: 7.5 cm

This allows external cutters to retrieve the sheet to perform cut.

When Print & Cut jobs are tailgated, those margins became less usable as the remaining output has enough length to be managed by external cutters.

To avoid media waste when tailgating Print & Cut jobs, the proposal is to override Rip defined margins to a shorten distance between plots and leave them around 3 cm.

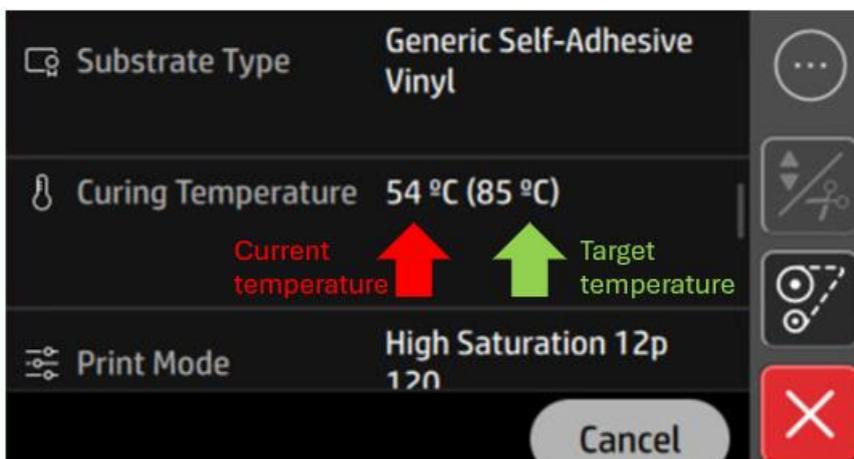
Now, in this firmware, those 3 cm are set up by default when:

1. Print & Cut plot
2. Tailgating
3. User enable optimize for media waste option

*Margin optimization will never modify raster data. Will only play with margins defined in Job Settings

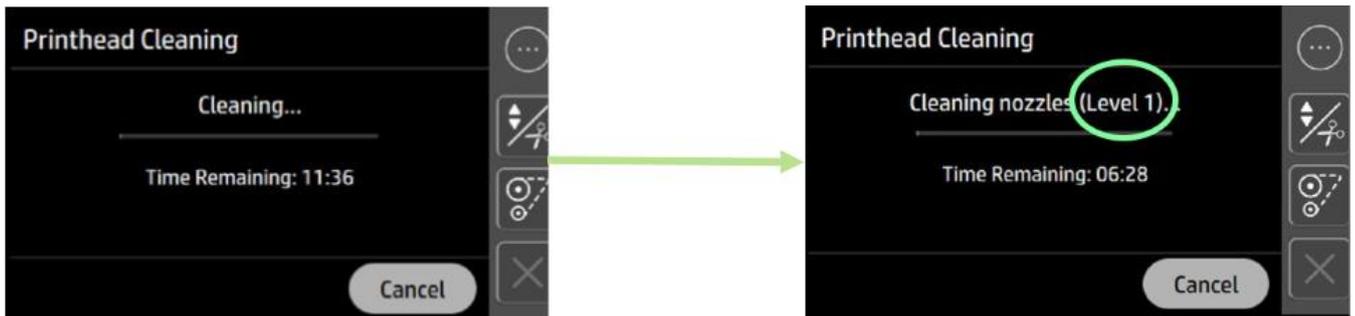
Display current curing temperature and curing target temperature in the job queue widget

Current curing temperature and curing target temperature added in the Job settings.



Feedback on automatic recoveries

When a user triggers an action that involves a printhead recovery, the printer will show detailed information on every servicing action being done. If the printer needs to do more servicing at the end of that level, the number of the parenthesis will increase by 1 (max 3 Levels) besides the estimated time.



Support for very large jobs (disk management)

Fix for bug when very large jobs (10-50% usage of the Hard Disk) are sent one after the other which did not allow printing.

Display estimated ink used (ml) on the Embedded Web Server printhead page

Through the Embedded Web Server:

- User navigates to Support Tools > Reports and Pages > Download tab and should see Printhead Information.
- Estimated ink used is now visible in "Current printhead Information (III).

- Remote Control-Panel
- Network** ^
- Network Summary
- Network Settings
- Network Security
- Proxy Settings
- Primary Ethernet
- Advanced Settings
- Security** ^
- Password Settings
- General Security
- Access Control
- Certificate Management
- Support Tools** ^
- Reports and Pages
- Online Resources
- Service Support
- Connected Printing** v
- Accessibility

Reports and Pages

Download

- Calibration Report
- Connectivity Status Report
- Service Information
- Event Log
- Job Log
- Network Configuration Report
- Network Security Report
- Printhead Information
- Maintenance Status Report
- HP Supplies Status Report
- Usage Report
- Web Access Test Report
- Open Source Licenses

Printhead Information

Model Name: HP Latex 630 W

Product information

Date
Product Name
Serial Number
Firmware Version
Product Number
Service ID

Current Printhead Information (I)

Printhead	Warranty	Service Code	Status	Error Code ID	Product Number
1 - Optimizer-Optimizer	See Warranty Notes	eWooT6XG84pCfZhes0kaQ==	OK	524288	4UJ94A
2 - Overcoat-Overcoat	In Warranty	XWVRqvw5yCF0gmaYyug==	OK	0	4UV96A
3 - Black-Cyan	See Warranty Notes	PAXuBgzNly7imdlisu+JQrQ==	OK	524288	4UV95A
4 - Light Cyan-Light Magenta	Out of Warranty	UGaI1N5FQgc7+ZKJ7DUQ==	OK	524288	4UV97A
5 - Magenta-Yellow	In Warranty	fzIEJrDTjDyGixyMdWIOA==	OK	0	4UV96A
6 - White-White	In Warranty	6c93RecRvDE0Yz9VbGO+Hg==	OK	589824	Y0U21-60137

Current Printhead Information (II)

Printhead	Product Name	Serial Number	Last Insertion	First Install Date	Warranty Date
1 - Optimizer-Optimizer	HP 836	321101220759021	20-06-2023 1:00:06 PM	14-05-2023 2:00:00 AM	10-12-2024
2 - Overcoat-Overcoat	HP 836	321129221057207	20-06-2023 1:00:07 PM	14-05-2023 2:00:00 AM	10-12-2024
3 - Black-Cyan	HP 836	320125231123261	20-06-2023 1:00:08 PM	14-05-2023 2:00:00 AM	05-02-2025
4 - Light Cyan-Light Magenta	HP 836	320126232021145	20-06-2023 1:00:09 PM	14-05-2023 2:00:00 AM	05-02-2025
5 - Magenta-Yellow	HP 836	320125231528085	20-06-2023 1:00:10 PM	14-05-2023 2:00:00 AM	05-02-2025
6 - White-White	Auxiliary white printhead	000001230000000	14-11-2023 5:28:14 PM	26-02-2023 1:00:00 AM	13-06-2025

Current Printhead Information (III)

Printhead	Used Non-HP Ink	Used Expired Ink	Estimated Ink Used (Milliliters)	Warranty Spent
1 - Optimizer-Optimizer	No	Yes	770	100%
2 - Overcoat-Overcoat	No	No	940	100%
3 - Black-Cyan	No	Yes	1094	100%
4 - Light Cyan-Light Magenta	No	No	1710	100%
5 - Magenta-Yellow	No	No	1464	100%
6 - White-White	No	No	0	100%

Low on ink setting to enable/disable notification on Front Panel

User navigates to Settings> Supplies: New setting added through which the low on ink notification can be disabled or enabled, showing fewer notifications to the user if disabled.



Included calibration status. PMK and Maintenance Cartridge status in service

Through the Embedded Web Server:

- User navigates to Support Tools > Reports and Pages > Download tab and should see Service Information listed below.
- Through this menu, the user can see a preventive Maintenance Usage section listing all printer PMKs with a usage value in % and a Maintenance Cartridge section showing the consumable status.

Calibration Report

Model Name: HP Latex 630 W

Product information

Date
Product Name
Serial Number
Firmware Version
Product Number
Service ID

General Calibration Status

Type	State
LS2K	DONE
PEN_ALIGN_AUTO_COLORS	NOT_DONE
PEN_ALIGN_AUTO_COLORS_EXTRA_FLUIDS	NOT_DONE
PEN_ALIGN_AUTO_EXTRA_FLUIDS	NOT_DONE
PEN_ALIGN_AUTO_WHITE	NOT_DONE

Substrate Calibrations

Name	Color	Advance
Generic Backlit Banner	INVALID	NOT_DONE
Generic Backlit PP & PE Synthetics	INVALID	NOT_DONE
Generic Backlit Paper	INVALID	NOT_DONE
Generic Backlit Polyester Film	INVALID	NOT_DONE
Generic Backlit Self-Adhesive Vinyl	INVALID	NOT_DONE

Maintenance Status Report

Model Name: HP Latex 630 W

Product information

Date
Product Name
Serial Number
Firmware Version
Product Number
Service ID

Preventative Maintenance Usage

	Usage
Maintenance Block A	8 %
Maintenance Block B	4 %
Maintenance Block C	2 %
Maintenance Block D	1 %
Clean and Lubricate Carriage Rod	38 %
Clean Platen	33 %
Clean Encoder Strip	0 %

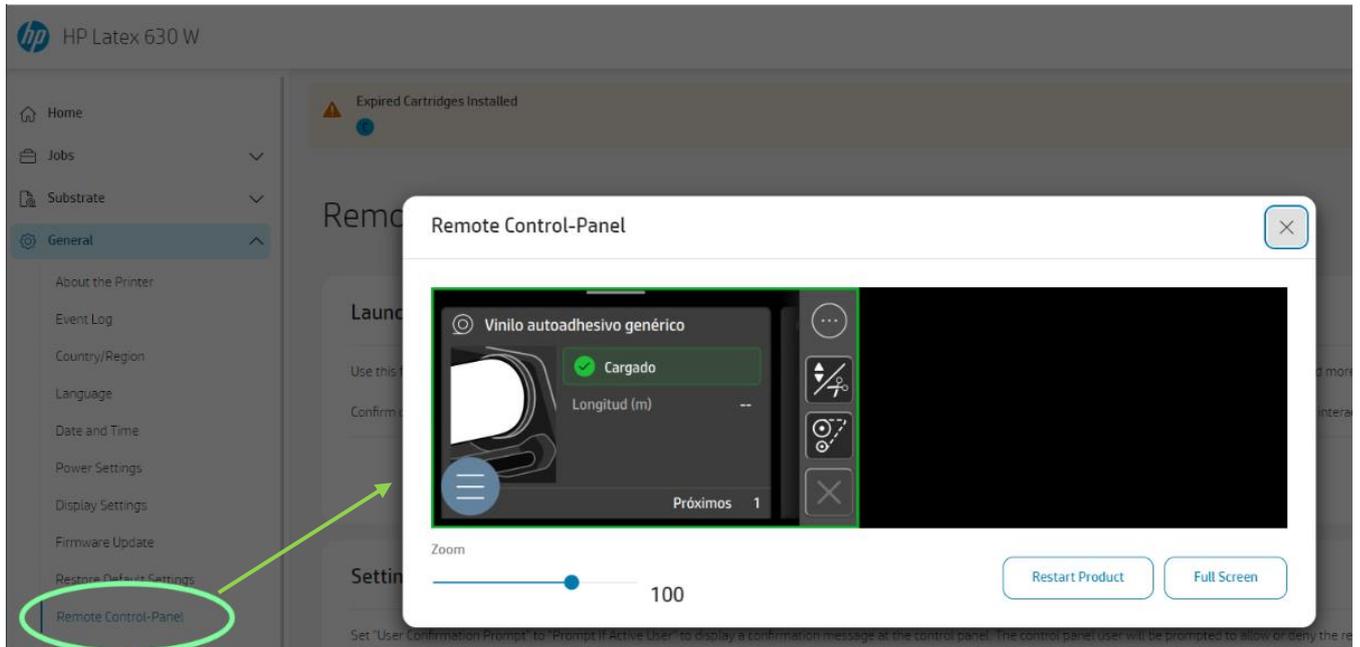
Maintenance Cartridge

State
Level
Part Number

OK
31 %
4UV99A

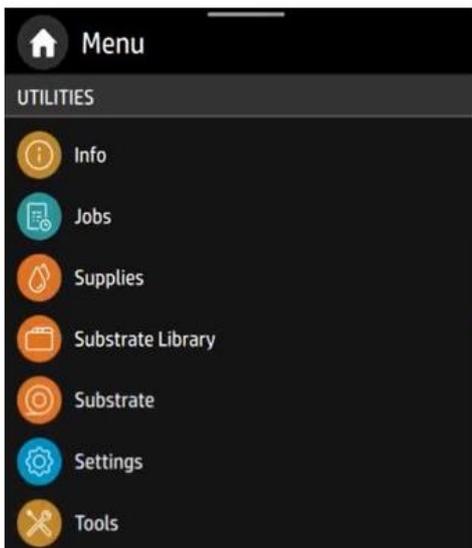
Remote Control Panel

Users will have remote access to the printer via EWS > general > Remote Control-Panel:

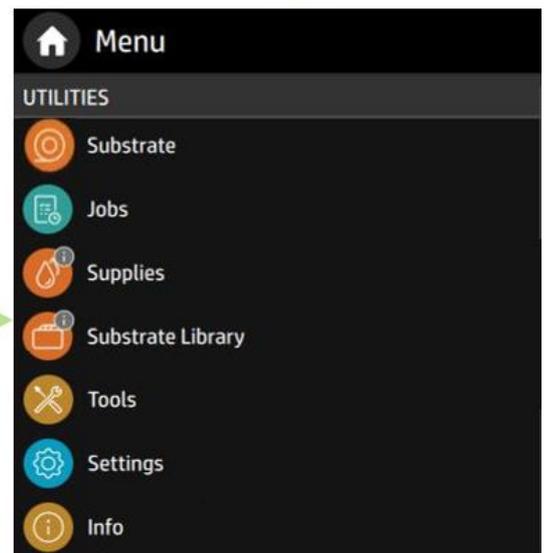


New order of apps in menu

Before:



After:

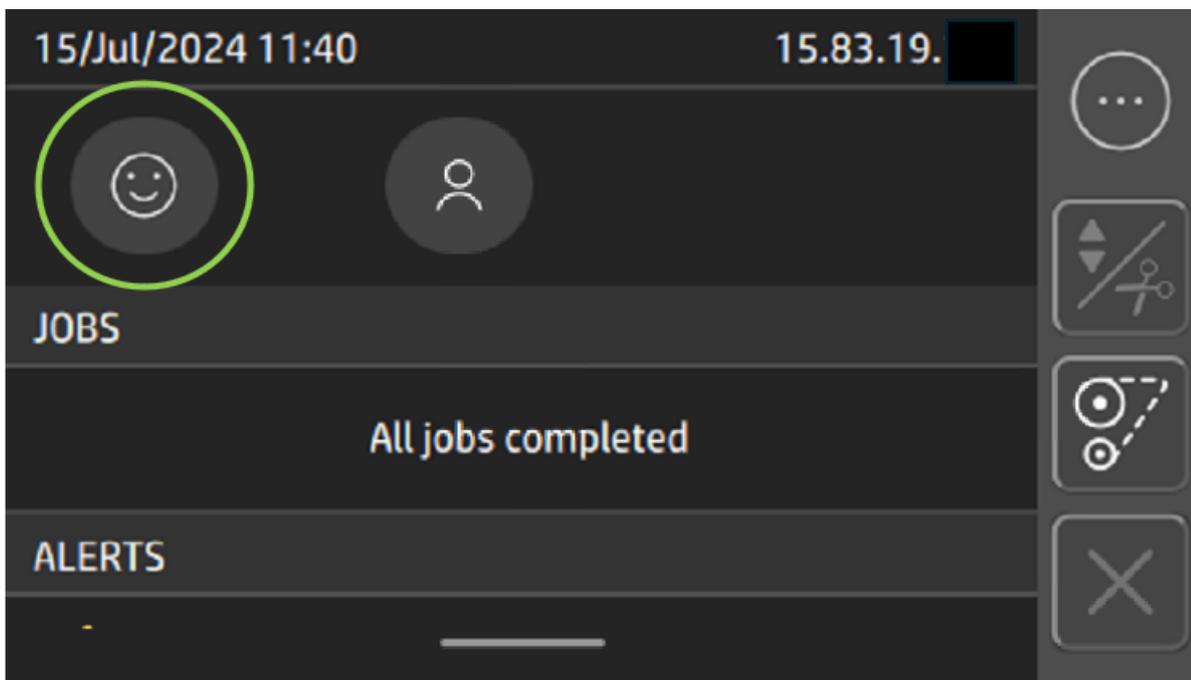


Fix for System Error F0.01.01.02

This release fixes System Error F0.01.01.02 appearing in certain scenarios during the initialization of the Ink Delivery System.

CSAT available

Customer satisfaction feedback is now available on top of the notification menu.



Compatibility with the new SAI Rip version 22 (4445v1)

A new Flexi SAI Rip version 22 was recently published at the official SAI website. This version requires the installation of BR3.1 to be compatible with the printer.