

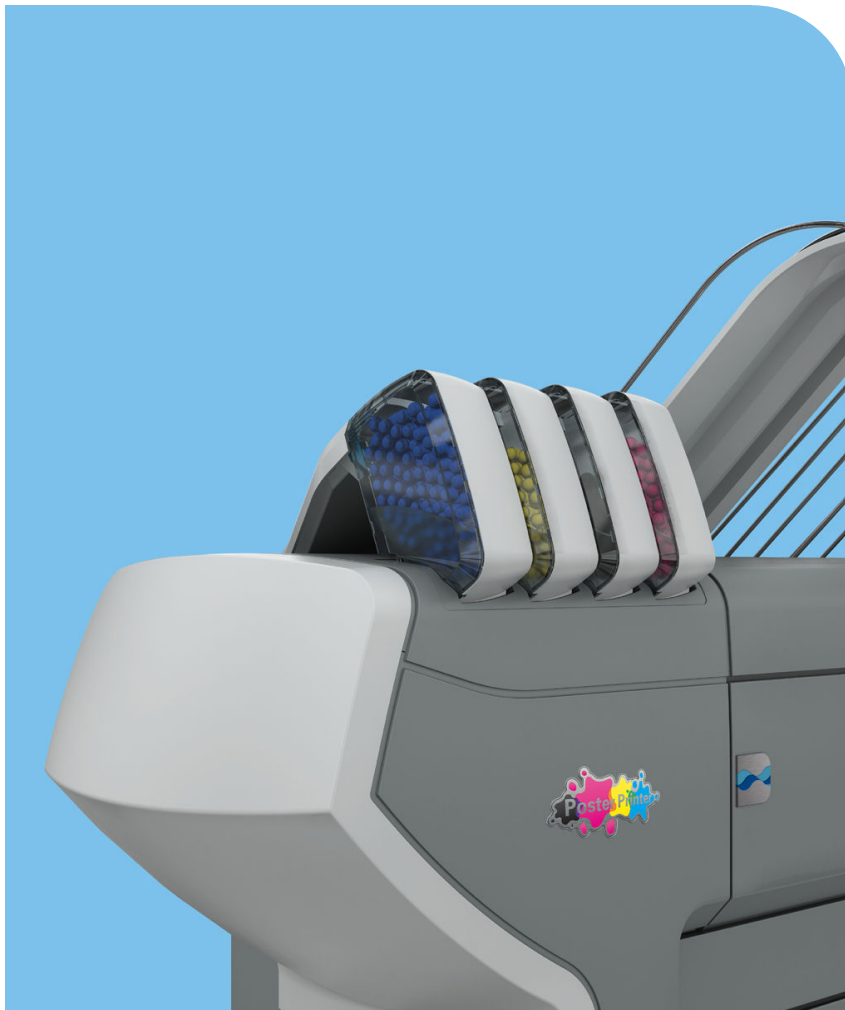


**Océ**  
ColorWave® 650  
Poster Printer

Instant Poster Power



**Canon**  
CANON GROUP



**User manual**  
Operating  
information

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# **Chapter 1**

## **Preface**

## Trademarks

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## Notes for the reader

### Introduction

This manual helps you to use the Océ ColorWave 650 Poster Printer. The manual contains a description of the product and guidelines to use and operate the Océ ColorWave 650 Poster Printer.

### Definition

#### Attention-Getters







Parts of this manual require your special attention. These parts can provide the following:




- Additional general information, for example, information that is useful when you perform a task.
- Information to prevent personal injuries or property damage.

### Note, Attention, and Caution

The words **Note**, **Attention** and **Caution** draw your attention to important information.

Overview of the attention-getters

Word	Icon	Indicates
<b>Note</b>		Tips or additional information about the correct use of the product.
<b>Attention</b>		Information to prevent property damage, for example damage to the product, documents, or files.
<b>Caution</b>		Information to prevent personal injuries. The <b>Caution</b> indication has several icons that warn against various hazards. The icons are shown below.
<b>Caution</b>		General hazard
<b>Caution</b>		Hot surface
<b>Caution</b>		Electric shock

Word	Icon	Indicates
Caution		Moving parts
Caution		Laser beam
		The use of heat-resistant gloves is mandatory when you carry out these actions.

### Safety information

Before using this Océ product, make sure that you read and understand the safety information which is part of the user documentation. You can download the safety information via <http://global.oce.com/support/> or, if applicable, find it on the user documentation CD/DVD that is delivered together with the machine or obtain the safety information from your local Océ representative. To avoid potential hazards, maintenance is strictly preserved to properly qualified and trained service technicians.

### Sustainability Information

Océ is focused on creating value for all stakeholders by realizing profitable, sustainable growth. The Océ strategy is aimed at optimizing business processes, strengthening its product portfolio and boosting distribution power. Sustainability underpins these strategic aims. A strong performance in sustainability contributes to operational efficiency as well as generating stronger product propositions and a more powerful market image. It is no coincidence that Océ embraced sustainability as part of its core proposition decades ago. You can find more information about the sustainability policy of Océ via [www.sustainability.oce.com](http://www.sustainability.oce.com).

# **Chapter 2**

## **Get to know the printing system**

## The Océ ColorWave 650 Poster Printer printing system

### Introduction

The Océ ColorWave 650 Poster Printer is a wide format TonerPearl printer that uses the patented Océ CrystalPoint technology. The Océ ColorWave 650 Poster Printer delivers effortlessly easy CrystalPoint quality prints on plain paper, with all-around productivity for a wide range of applications.

The patented Océ CrystalPoint technology combines the best of the world of Toner with the best of the Inkjet-world in an entirely sustainable process.

From the world of toner, the Océ CrystalPoint technology gives you water-fast, direct dry prints with an even stronger adhesion you are used to from Océ LED systems. Add the media independence, and consistency of output and Océ CrystalPoint technology capitalizes on the great aspects of the toner world.

From the inkjet-world, Océ CrystalPoint technology has adopted the accuracy of printing, and the cleanliness of the system (no ozone or system contamination).

## Illustration

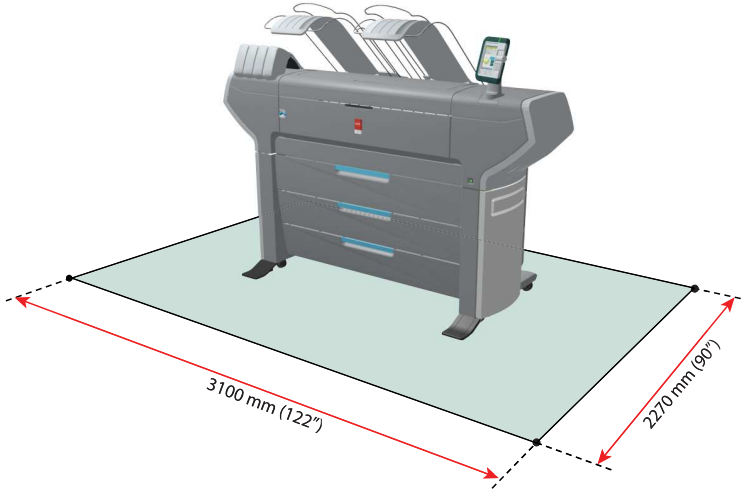


## The main components of the Océ ColorWave 650 Poster Printer printing system

Component	Description / Function
The Océ ColorWave 650 Poster Printer	Creates the printed output.
The Océ Express WebTools	<p>The Océ Express WebTools provide multiple users a remote view on the system and control on the system's workflow, without any need to install software.</p> <p>The 'System administrator' or the 'Key operator' can also use the Océ Express WebTools to install the system and fine-tune the system to optimally fit the customer's company workflow and processes.</p> <p>Use a recommended web browser to browse to the IP address or hostname of the Océ ColorWave 650 Poster Printer to get immediate access to the Océ Express WebTools.</p>

## Printer working area [Footprint]

The Océ ColorWave 650 Poster Printer requires a floor space / working area of at least 3100 mm x 2270 mm (122 inch x 90 inch).

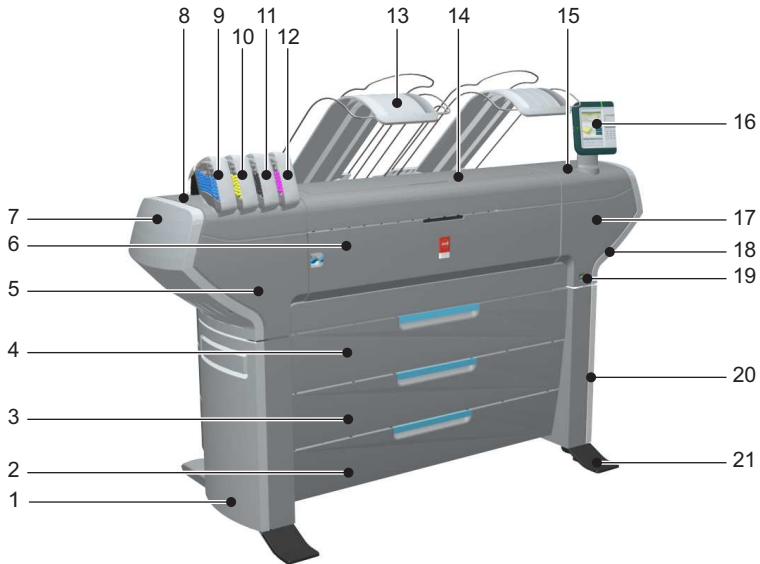




# The Océ ColorWave 650 Poster Printer hardware

## The printer hardware components (front)

### Illustration



### Component - function table

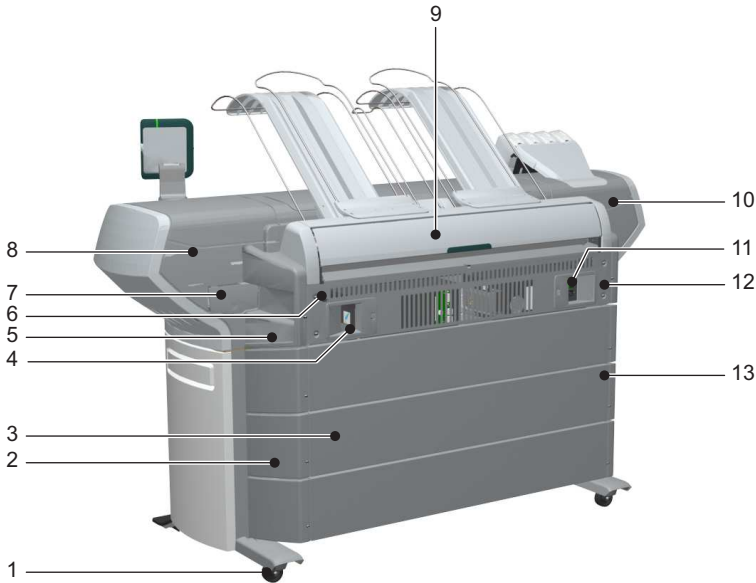
No.	Component	Description / Function
1	'Lower left cover'	
2	'Media drawer'	Media drawer that contains the media roll 5 and/or 6. (see <i>'The 'Media drawer''</i> on page 22)
3	'Media drawer'	Media drawer that contains the media roll 3 and/or 4. (see <i>'The 'Media drawer''</i> on page 22)

No.	Component	Description / Function
4	'Media drawer'	Media drawer that contains the media roll 1 and/or 2. (see <i>'The 'Media drawer' on page 22)</i> )
5	'Front left cover'	
6	'Front cover'	Door at front, used for error recovery
7	'Upper left cover'	
8	'Top left cover'	
9	'Toner cartridge' (cyan)	Toner cassette for cyan 'Océ TonerPearls®'
10	'Toner cartridge' (yellow)	Toner cassette for yellow 'Océ TonerPearls®'
11 / B	'Toner cartridge' (black)	Toner cassette for black 'Océ TonerPearls®'
12	'Toner cartridge' (magenta)	Toner cassette for magenta 'Océ TonerPearls®'
13	'Top delivery tray'	Top delivery tray for the printed output.  <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px; text-align: center;">i</div> <div> <p><b>Note:</b> It is possible to install an optional 'Receiving rack (basket)' or delivery tray.</p> </div> </div>
14	'Top cover'	Cover on top of the printer, used for error recovery. This cover gives access to the imaging section. (see <i>'The 'Imaging section' on page 24)</i> )
15	'Top right cover'	
16	"Operator panel"	The printer operator panel helps the operator to do the following. <ul style="list-style-type: none"> <li>■ set up the printer</li> <li>■ define media types and sizes, used on the Océ ColorWave 650 Poster Printer</li> <li>■ monitor the media availability</li> <li>■ monitor the toner stock</li> <li>■ control the Océ ColorWave 650 Poster Printer and the workflow</li> <li>■ perform maintenance tasks</li> <li>■ solve problems</li> </ul> (see <i>'The operator panel' on page 25)</i> )

No.	Component	Description / Function
17	'Front right cover'	
18	'Upper right cover'	
19	'On / Off switch'	Used to turn the printer on or off
20	'Lower right cover'	
21	'Foot'	




## The printer hardware components (back)

### Illustration



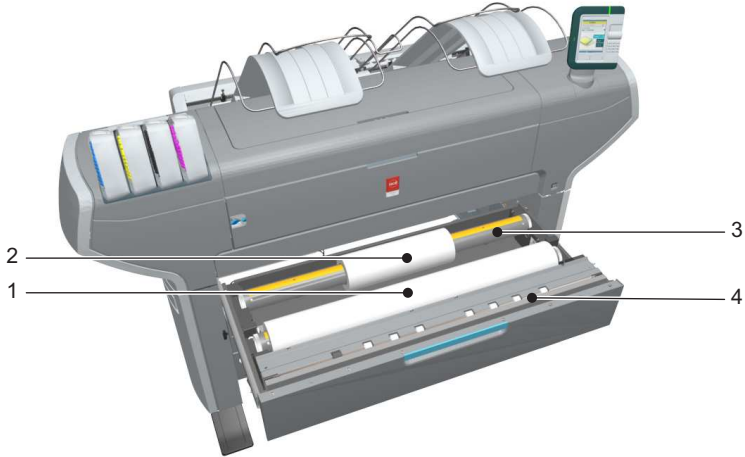
### Component - function table

No.	Component	Description / Function
1	'Wheel'	
2	'Left cover of the media drawer'	
3	'Back cover of the media drawer'	
4	'Connection panel'	The connection panel of the 'Océ PowerM Plus controller ' (high-end embedded controller)
5	'Back left cover'	
6	'Ventilation cover'	Covers the 'Océ PowerM Plus controller '
7	'Maintenance tray drawer'	
8	'Top back left cover'	

No.	Component	Description / Function
9	'Top back cover'	<p>Used for error recovery.</p> <p> <b>Note:</b> It is possible to install an optional 'Receiving rack (basket)' or delivery tray.</p> <p> <b>Note:</b> If you select 'External output (back)', the printed output is led through the slot below the 'Top back cover'.</p>
10	'Top back right cover'	
11 / B	'Power'	<p>The main power switch</p> <p> <b>Note:</b> Only use this switch when you need to connect or disconnect the main supply to the printer.</p>
12	'Back right cover'	
13	'Right cover of the media drawer'	

# The 'Media drawer'

## Illustration



## Component - function table



**Caution:**

Only use intact media rolls. Dented media rolls can damage the 'Imaging devices'.

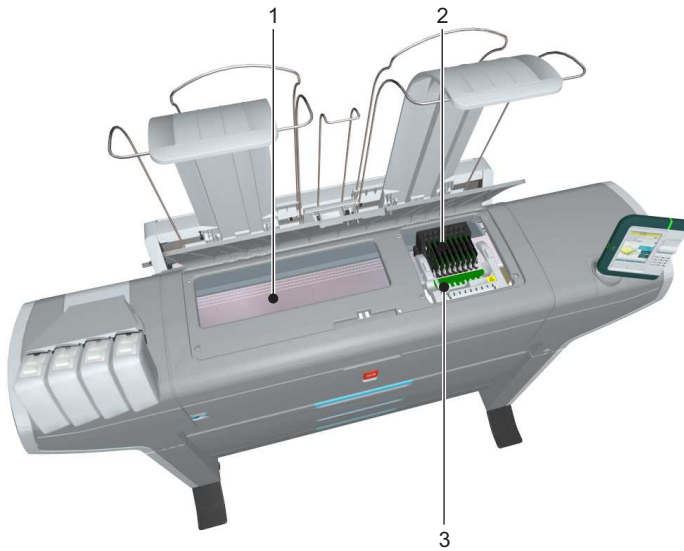
No.	Component	Description / Function
1	'Roll' 1	Media roll 3 or 5 in other media drawers
2	'Roll' 2	Media roll 4 or 6 in other media drawers
3	'Roll holder'	Carries the media roll

---

No.	Component	Description / Function
4	'Roll loading station'	<p data-bbox="672 203 1151 265">Groove integrated behind the front cover of the media drawer.</p> <p data-bbox="672 271 1151 333">To load new media on the printer, the operator must proceed as follows</p> <ul data-bbox="672 338 1151 538" style="list-style-type: none"><li data-bbox="672 338 1151 400">■ place the new media roll temporarily on the roll loading station</li><li data-bbox="672 405 1151 467">■ insert the roll holder into the new media roll</li><li data-bbox="672 473 1151 535">■ place the roll holder with the new media roll in the correct roll position</li></ul>

## The 'Imaging section'

### Illustration



[15] When you open the 'Top cover', you get access to the 'Imaging section'.

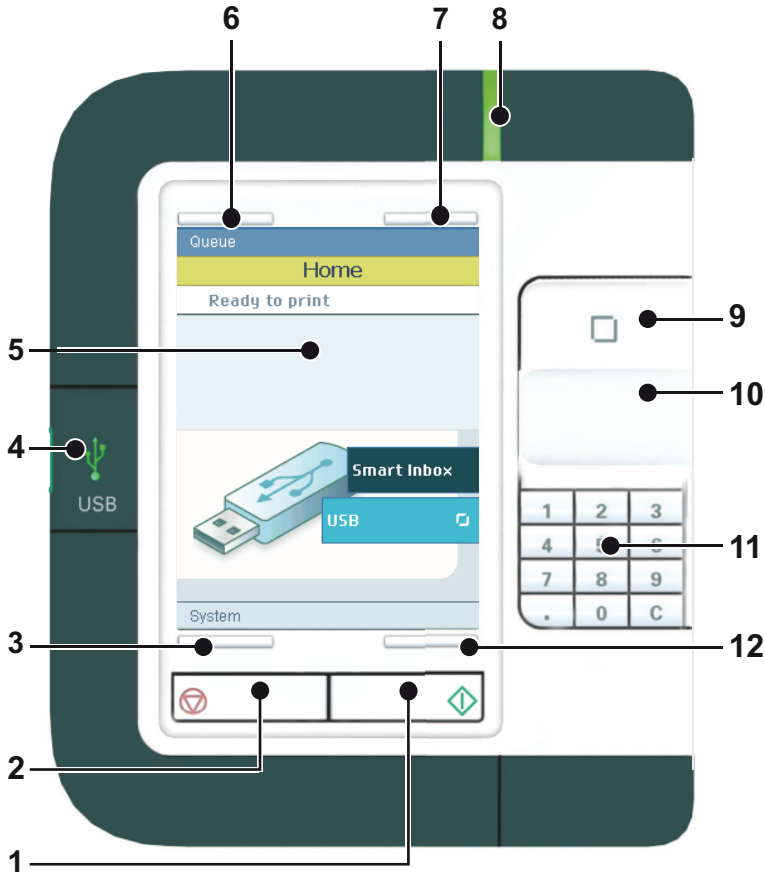
### Component - function table

Nr	Component	Description / Function
1	'Print surface'	The print surface is designed to keep the media that is printed on flat.
2	'Imaging devices'	The 8 Imaging devices jet the toner on the media.
3	'Imaging carriage'	Carriage that contains the 8 imaging devices



## The operator panel

### Illustration



### Component - function table

No.	Component	Description / Function
1	green button	The button with a green light that allows the operator to start a print job. The button lights up to attract attention when it becomes relevant and it can be pressed.

No.	Component	Description / Function
2	stop button	The button with a red light that allows the operator to stop a print job. The button lights up to attract attention when it becomes relevant.
3	lower left soft key	Button that allows the operator to select the option displayed in the lower left corner of the operator panel display.
4	USB flash drive interface	If you want to print files stored on a USB device, insert the USB device here.
5	operator panel display	The color display that displays information for the operator.
6	upper left soft key	Button that allows the operator to select the option displayed in the upper left corner of the operator panel display.
7	upper right soft key	Button that allows the operator to select the option displayed in the upper right corner of the operator panel display.
8	status light	Light that gives feedback on the status of the printer. <ul style="list-style-type: none"><li>■ A green light indicates that the printer is ready.</li><li>■ A green blinking light indicates that the printer is busy.</li><li>■ A red light indicates that operator attention is required.</li></ul>
9	confirmation button	Button that allows the operator to do the following. <ul style="list-style-type: none"><li>■ Open a setting.</li><li>■ Close and confirm the selected value of a setting.</li></ul>
10	scroll wheel	Wheel on the right side of the operator panel that allows the operator to do the following. <ul style="list-style-type: none"><li>■ Scroll through the settings.</li><li>■ Scroll through the setting values.</li></ul>

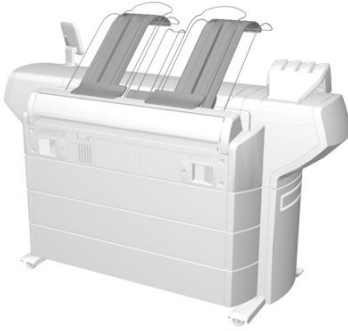
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No.	Component	Description / Function
11 / B	numeric buttons	Buttons with the numeric values 0-9, that allow the operator to do the following. <ul style="list-style-type: none"><li>■ Enter a numeric value, for example the number of sets.</li><li>■ Enter a numeric value of a setting.</li></ul>
	clear button(C)	With the clear button the operator can delete the last added numeric character.
12	lower right soft key	Button that allows the operator to select the option displayed in the lower right corner of the operator panel display.

## The output delivery

### Introduction

The Océ ColorWave 650 Poster Printer is delivered with a 'Top delivery tray' to collect your printed output.



The 'Top delivery tray' can collect 50 - 100 plain paper prints with a maximum length of 48" [1200 mm].



**Note:**

The media type you use influences the output capacity.

In the Océ Express WebTools, you can define the default 'Sheet delivery' for your printed output.

- If you select 'Top delivery tray' your printed output is by default delivered in the standard 'Top delivery tray'.
- If you select 'External output (back)' your printed output is by default delivered at the back of the printer. In that case you could expand your printer with one of the following finishing options.



**Note:**

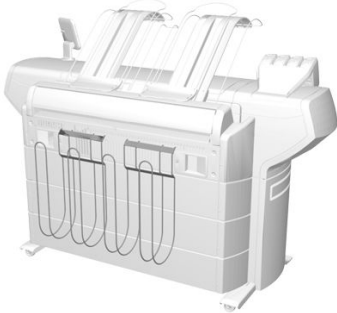

If you use 2 inch media cores instead of the standard 3 inch media cores, the printed output is automatically delivered at the back of the printer. The installation of one of the finishing options is then advised.




**Note:**

Some media (for example heavy or special media) are automatically delivered at the back of the printer.

## Output delivery options

'Receiving rack (basket)'	Illustration
<p>The 'Receiving rack (basket)' is hooked at the rear side of the printer. It can collect 2 - 5 prints. The 'Receiving rack (basket)' bends the printed output. Not all media types are appropriate for this finishing option.</p> <p><b>Note:</b> The 'Receiving rack (basket)' is not supported in combination with the delivery tray or take-up unit.</p>	
Océ delivery tray	Illustration
<p>The delivery tray is a flat tray behind the printer. The delivery tray can collect a maximum of 150 prints.</p> <p><b>Note:</b> The delivery tray is not supported in combination with the 'Receiving rack (basket)' or take-up unit.</p>	

Take-up unit	Illustration
<p>The take-up unit enables you to wind up your print job on a roll without cutting. This can be handy when you want to transport your prints or want to finish your prints at a later time. If your machine is equipped with the take-up unit, you must first set the machine to Roll-to-Roll mode. You can enable the Roll-to-Roll mode in the Océ Express WebTools.</p> <p> <b>Note:</b> The take-up unit is not supported in combination with the 'Receiving rack (basket)' or Océ delivery tray.</p>	<p>See <i>Introduction to the take-up unit</i> on page 32 and <i>Enable the Roll-to-Roll mode</i> on page 38.</p>

---

## The Océ ColorWave 650 Poster Printer printing system consumables

Consumable	Consumable part	Description
'Media'	'Roll'	Roll that carries the media. A roll can have a 2" core or a 3" core.
	'Core'	The core of the media roll is the cardboard inner part of the roll.
PP 'Toner'	PP 'Toner cartridge'	PP Toner cassette for cyan, yellow, black or magenta toner.
	'Océ TonerPearls®'	Solid and clean spherical-shaped toner inside the cartridge.

# The (optional) take-up unit

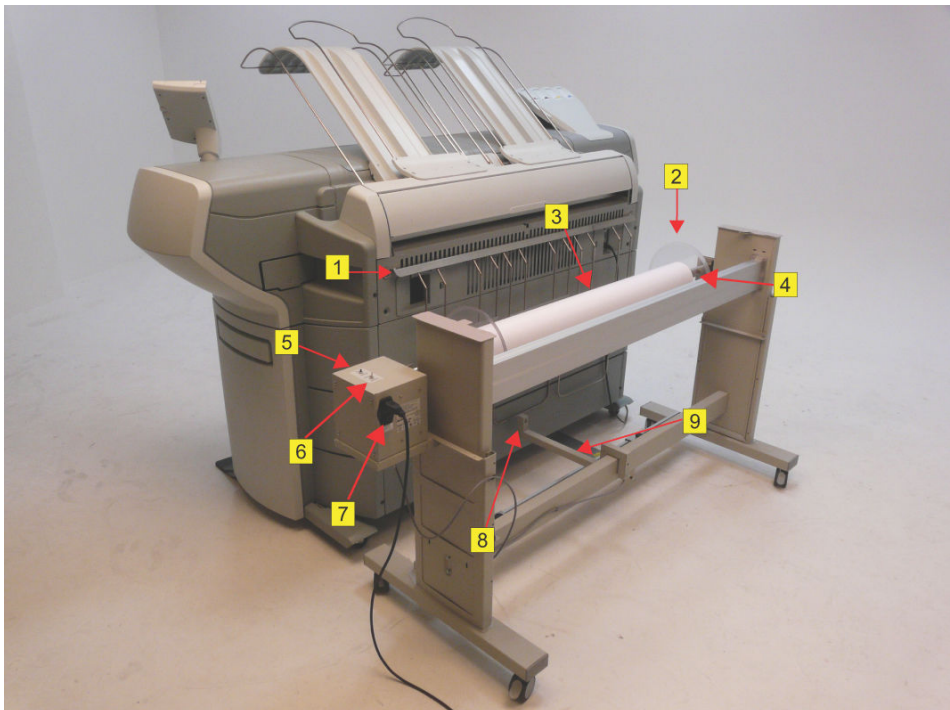
## Introduction to the take-up unit

### Introduction

The take-up unit allows the user to print in Roll-to-Roll mode. The unit rolls up your print jobs automatically on a core without cutting. This can be handy when you want to transport your prints or want to automatically clean-cut or trim your prints, laminate or mount an adhesive back to the prints. Before you can use the take-up unit, you must first put the printer into the Roll-to-Roll mode. You can enable the Roll-to-Roll mode in the Océ Express WebTools *'Enable the Roll-to-Roll mode'* on page 38.




By default, the printer is delivered in Roll-to-Sheet mode. In this mode, the machine cuts and delivers each print to the top delivery tray.

### Description of the main parts



[20] The take-up unit



	Part	Description
1	Paper Guidance Rack	The paper guidance rack guides the print from the external output to the take-up unit.
2	Flanges	The flanges make sure that your prints are wound up correctly.
3	Core	The core.
4	Scroller assy	The scroller assy holds the core on which you can wind your prints.
5	Manual feed button	The manual feed button allows you wind up manually.
6	Take-up direction switch	With this switch, you can choose the winding direction: <ul style="list-style-type: none"> <li>■ Reverse (your prints are winded print-side out).</li> <li>■ Forward (your prints are winded print-side in).</li> </ul>
7	Power switch 	The power switch  turns the take-up unit on and off. The take-up unit can only operate when the power switch  is in the 'I' position.
8	Sensor	The sensor enables the automatic take-up of your prints.
9	Positioning devices	The positioning devices connect the printer to the take-up unit.

## Connect the take-up unit to the printer

### Introduction

The take-up unit consists of two parts: the unit and the paper guidance rack. The paper guidance rack guides your print from the external output to the take-up unit to avoid damage to your print. It supports all available media sizes.

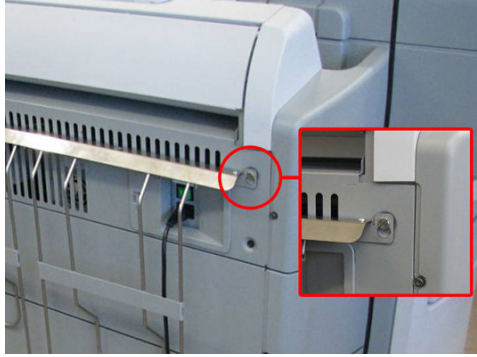

This section describes how to mount the paper guidance rack and how to connect the take-up unit to the printer.



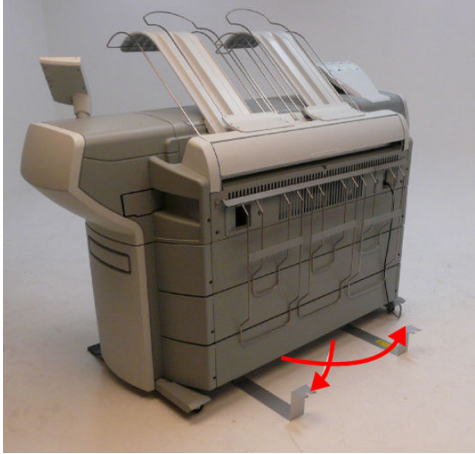

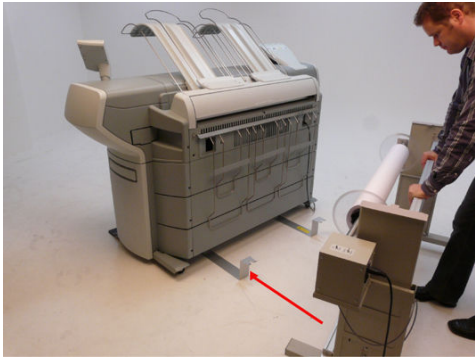
*Note:*


The paper guidance rack is not supported in combination with the 'Receiving rack (basket)' or Océ delivery tray. In this case you have to de-install the rack or Océ delivery tray first.

## Mount the paper guidance rack

Step	Action	Illustration
1	Mount the bracket on the bolts on both sides as indicated below.	 <p>If your machine is prepared for a delivery tray, the bolts for the rack are available as indicated in the figure.</p> 
2	Put the power cord and network cable behind the rack to prevent them from obstructing your print.	

### Connect the take-up unit

Step	Action	Illustration
1	Pull out the positioning devices.	
2	Connect the positioning devices with the strip.	
3	Move the take-up unit into position.	

Step	Action	Illustration
4	Tighten the bolts	 A photograph showing a person kneeling on the floor next to a large, light-colored printer. The person is using a red-handled tool to tighten bolts on a metal take-up unit attached to the printer. The printer has multiple paper trays on top and a large roll of paper in the take-up unit. The background is a plain, light-colored wall and floor.

## Enable the Roll-to-Roll mode

### Introduction

When you want to use the take-up unit, your printer has to be in the Roll-to-Roll mode. You can enable the Roll-to-Roll mode in the Océ Express WebTools. When you enable the Roll-to-Roll mode, the printer will not cut between pages.

This section describes how to enable the Roll-to-Roll mode in the Océ Express WebTools.

### Before you begin

Access the Océ Express WebTools. This setting can be edited by the Key Operator and the System Administrator.



*Note:*

When the Roll-to-Roll mode is enabled, each print job is delivered to the 'External output (back)'; even when you set the 'Top delivery tray' as output location for your prints.



*Note:*

To calibrate the printer, the Roll-to-Roll mode must be disabled.

### Enable the Roll-to-Roll mode

1. Go to 'Preferences' - 'System properties' - 'Job management' - 'Enable roll-to-roll mode'.
2. Click the checkbox to enable the Roll-to-Roll mode.
3. Click 'On'.
4. Click 'Ok'.

## Print a job in Roll-to-Roll mode

### Introduction

When you want to print a job in Roll-to-Roll mode, you must first prepare the take-up unit. For correct winding it is important that you choose a core with a width that matches the media you want to use. Then you can print and fine-tune the take-up unit.

Printing more than one job onto one roll

The printer automatically cuts your print when the time between jobs is more than three minutes. So if you want to print more than one job onto one roll, you can collect your jobs in a 'Smart Inbox'. When all your print jobs are collected, you can start printing.

Unattended/Overnight printing

The Roll-to-Roll mode allows you to print your print jobs unattended, for example overnight. Replace nearly empty cartridges with full ones, to avoid that the machine stops printing. You can use the nearly empty cartridge when you print attended print jobs.



**Note:**

To replace an empty cartridge during printing, pause the printer and replace the cartridge.



**Note:**

When you print in Roll-to-Roll mode, media drawer 1 is recommended.






**Caution:**



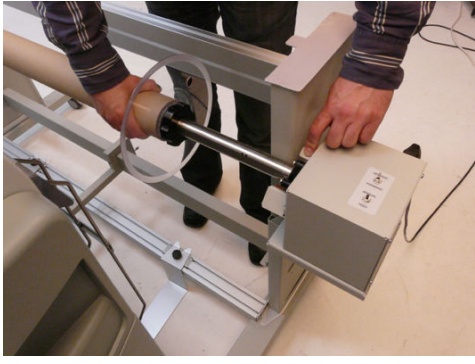
Not all media types are supported for Roll-to-Roll printing. Make sure that your media is on the list of recommended media types for the take-up unit. See: '[Recommended media types for the take-up unit](#)' on page 49.

### Prepare the take-up unit






Step	Action	Illustration
1	Switch on the take-up unit	
2	Select a 3" core with a width that matches the media roll you are going to use.	




Step	Action	Illustration
3	<p>Put the first flange onto the scroller bar approximately in the correct position. The media cores are positioned centred onto the bar. The flange consists of three parts and must be mounted in the following order:</p> <ul style="list-style-type: none"><li>■ 1. The flange</li><li>■ 2. The small ring -The ring is slightly conic and only fits one way.</li><li>■ 3. The locking ring</li></ul>	 A person is shown from the waist down, wearing a plaid shirt and dark trousers. They are standing at a light-colored table. They are holding a long, thin metal scroller bar with both hands. On the table, there is a roll of brown paper media core, a clear plastic flange, a small black ring, and a larger black locking ring. The person is in the process of sliding the clear flange onto the scroller bar.
4	<p>Put the core onto the scroller assy.</p>	 The person is shown from the waist down, holding the scroller bar with the clear flange already attached. They are carefully sliding the roll of brown paper media core onto the scroller bar, ensuring it is centered.
5	<p>Push the second flange onto the core.</p>	 The person is shown from the waist down, holding the scroller bar with the media core and the first flange. They are using their hands to push the second clear flange onto the other end of the media core, completing the assembly.



Step	Action	Illustration
6	<p>Tighten the flanges lightly.</p> <p><b>i</b> <i>Note:</i> You can fine-tune their position at a later stage when you tape your print onto the core.</p>	 <p>A person in a plaid shirt and dark pants is standing next to a white table. They are holding a large, light-colored cylindrical roller that is mounted on a metal stand with a handle. The person appears to be adjusting the tension or position of the roller.</p>
7	<p>Put the scroller assy in the unit on the right-hand side.</p>	 <p>A person in a plaid shirt and dark pants is standing next to a large, light-colored printer on wheels. They are holding a long, light-colored cylindrical roller and are in the process of inserting it into the right-hand side of the printer's internal mechanism.</p>
8	<p>Put the scroller assy in the unit on the left-hand side by pressing the leaf spring.</p>	 <p>A close-up view of a person's hands installing a roller into a printer. The person is using their left hand to press a metal leaf spring down, which allows the roller to be inserted into a slot on the left-hand side of the printer's internal mechanism.</p>

Print a job in roll-to-roll mode

Step	Action	Illustration
1	<p>Start your print job. Wait for your print job to come out of the external output.</p> <p> <b>Note:</b> Align the core roughly to the print by moving the winder</p>	
2	<p>When your print is long enough, tape the leading edge in the middle onto the core.</p> <p>How to tape your print onto the core depends on the selected winding direction.</p> <ul style="list-style-type: none"> <li>■ Reverse (your prints are winded print-side out).</li> <li>■ Forward (your prints are winded print-side in)</li> </ul>	 <p>[33] Print-side out</p>  <p>[34] Print-side in</p>
3	<p>Make sure that the media is taped flatly on the core to avoid creases during winding.</p> <p> <b>Note:</b> You can check the direction by pushing the manual feed button.</p>	

Step	Action	Illustration
4	<p>If necessary, reposition and tighten the flanges. For example, when the media is wider than the core.</p>	
5	<p>Check that the media creates a blouse between the printer and the take-up unit and if the unit winds up correctly. You must pay special attention to the edges, when the unit winds up your print job automatically the first time.</p> <p><b>i</b> <i>Note:</i> When the blouse reaches the sensor at the bottom, the take-up unit will wind your prints. You can also use the manual feed button to check the winding.</p>	
6	<p>Align the take-up unit by moving it to the left-hand side or right-hand side. The unit is correctly aligned when the blouse of your print is parallel to the printer.</p>	

## Finish a job in Roll-to-Roll mode

### Introduction

When your print job is ready, you finish your job with the following actions:

- Cut your print
- Remove the roll
- Set the printer back in Roll-to-Sheet mode (if necessary)

This section describes the above mentioned actions




**Note:**




Avoid touching the printed surface with your bare hands.


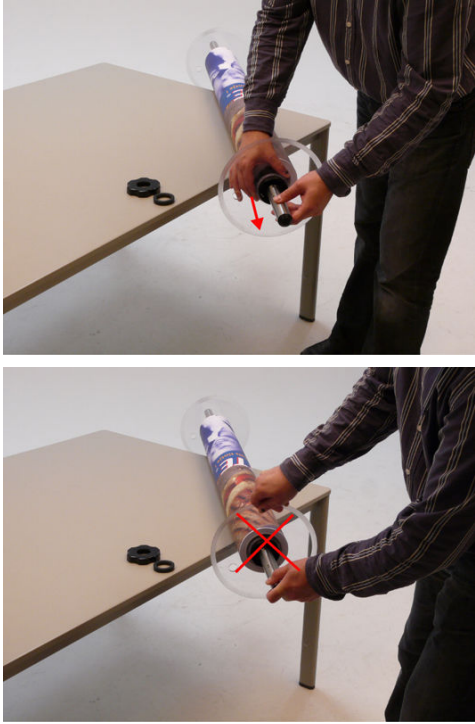

### Cut your print


1. Go to the 'Queue' on the 'Printer operator panel'.
2. Press the 'Pause & cut' button to cut your print and finish the roll-to-roll job.

### Remove the roll

Step	Action	Remarks
1	Hold the trailing edge of your print while you press the manual feed button. When the roll does not rotate anymore, your print is tightly wound.	

Step	Action	Remarks
2	Tape the trailing edge of the print onto the roll.	
3	Remove the roll from the unit by releasing the spring leaf.  <i>i</i> <b>Note:</b> Put the roll on a table	
4	Loosen the flanges. You can use the holes in the flanges.	

Step	Action	Remarks
5	<p>Push the flanges out of the core.</p> <p> <b>Note:</b> Remove the flanges with care. Do not pull on the transparent disk.</p>	
6	<p>Remove the scroller bar from the core.</p>	

Step	Action	Remarks
7	Put the roll with one end on the floor and tape the other end to eliminate any telescoping effect. The roll is now ready.	

### Set the printer back to Roll-to-Sheet mode

1. Go to 'Preferences' - 'System properties' - 'Job management' - 'Enable roll-to-roll mode'.
2. Click 'Off'.
3. Click 'Ok'.

## Disconnect the take-up unit from the printer

### Introduction

When the take-up unit or delivery tray are not installed for a long period of time, the positioning devices of the take-up unit might limit your access and transit. This section describes how to disconnect the take-up unit from the printer.

### Disconnect the take-up unit

1. Loosen the bolts of the positioning devices.
2. Disconnect the take-up unit and remove the unit from the printer.
3. Remove the strip that connects the positioning devices.
4. Push the positioning devices back under the machine.



[47] The positioning devices



## Recommended media types for the take-up unit

### Introduction

Océ machines and media are matched for the best quality and performance. Océ advises that you only use Océ approved media. You can receive a full list of the media that you can use in your printer (that includes plain paper, transparent paper, colored papers and different polyester films) from your Océ representative.



**Caution:**

Do not store the paper in rooms where temperature and humidity are high. Avoid dust and direct sunlight. Wrap unused paper in plastic to prevent it from absorbing moisture.

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### Recommended media types

Visit Océ on the internet at <http://mediaguide.oce.com> for the latest information on recommended media types.

## Specifications take-up unit

Dimensions	1650 mm x 650 mm x 900 mm (W x D x H) Roll Height = 750 mm (above knee)
Maximum speed	100 mm/s
Maximum roll weight	10 kg
Media range	See recommended media types for the take-up unit.
Media size	All media sizes compatible with the Océ ColorWave 650 Poster Printer. Minimum = 297 mm (12"), maximum = 1067 mm (42")
Core size	76 mm (3")
Recommended workroom conditions	20 - 28°C. 30 - 60 % R.H.
Roll quality	Achievable telescoping level is 2 mm. No starring/folding of the media edges Suitable for (semi-)automatic finishing
Winding principle	Slack winding Optical blouse detection triggering set winding action

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# The (optional) Océ delivery tray

## Correct use of the Océ delivery tray

### Introduction

Output quality issues may arise as a result of an Océ delivery tray setup that is unsuitable for your print job. For optimal results, it is advised to adjust the setup of the Océ delivery tray to the specifics of each print job.

Possible output problems include:

- **Your copies are not neatly stacked**
- **Your copies show dog ears at the edges**
- **Your pile of stacked copies is not flat, resulting in curved copies**



*Note:*

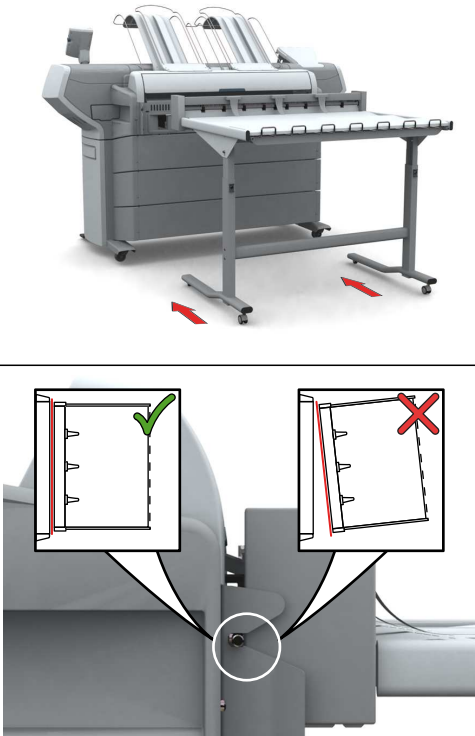
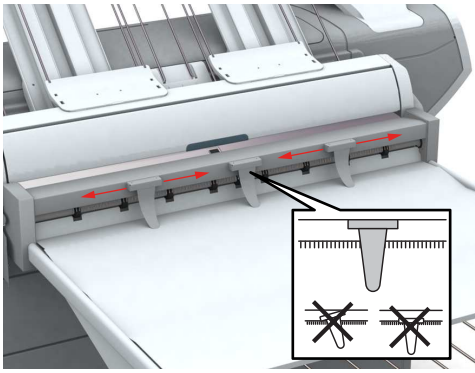
The Océ delivery tray is not supported in combination with any of the other output or finishing devices.

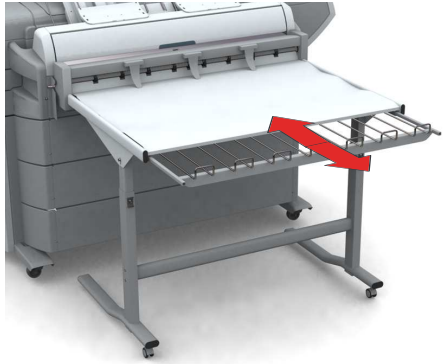


*Note:*

When using the Océ delivery tray, make sure the 'Sheet delivery' setting in the 'Preferences' - 'Print job defaults' tab is set to 'External output (back)' and the 'Finisher configuration type' setting in the 'Configuration' - 'Printer setup' tab is set to 'Copy delivery tray'.

Solve problems with the output delivery of your Océ delivery tray

Problem	Action	Illustration
<p>1</p> <p><b>Your copies are not neatly stacked</b></p> <p>To end up with neatly stacked print jobs, the correct attachment of the Océ delivery tray to your Océ ColorWave 650 Poster Printer is essential. Move the Océ delivery tray towards the rear side of the printer in a parallel fashion. Make sure you attach the Océ delivery tray to the printer as indicated in the figures. Following this procedure ensures an optimal positioning of the device and minimizes the chances of damaging your Océ delivery tray and Océ ColorWave 650 Poster Printer.</p>		
<p>2</p> <p><b>Your copies show dog ears at the edges</b></p> <p>Adjust the position of the left and right output guide flaps to suit the width of the media you print on. When an output guide flap is positioned exactly on the edges of your print output, this may result in dog ears. It is advised to leave the middle output guide flap in the exact middle of the Océ delivery tray.</p>		

Problem	Action	Illustration
3	<p><b>Your pile of stacked copies is not flat, resulting in curved copies</b></p> <p>Adjust the length of the delivery tray to your print job. Make sure the length is not shorter than the shortest print length in your print job. If the delivery surface is too small for the copies, this may result in curves or small creases in your print output.</p>	 The illustration shows a large-format printer with a delivery tray extended. A red arrow points to the tray's length, indicating it should be adjusted to match the print job length. The printer is grey and has a white paper tray. The delivery tray is a metal grid structure that can be extended or retracted. The red arrow is positioned over the tray, pointing towards the right, suggesting the tray should be extended further.



## **Chapter 3**

**Prepare the printing system for use and get started**

## Introduction

Before you can start printing, you will need to prepare the Océ ColorWave 650 Poster Printer.

It is necessary to learn how to move and connect the printer. You will need to know how to start the installation procedure and how to load the equipment onto the printer.

When you have taken all the necessary steps, you can perform a basic print job.



[52] Océ ColorWave 650 Poster Printer



# How to move the Océ ColorWave 650 Poster Printer

## Introduction



**Caution:**

If connected you must first switch off and disconnect the Océ ColorWave 650 Poster Printer. (see *Turn the printer on or off* on page 148)

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**Caution:**

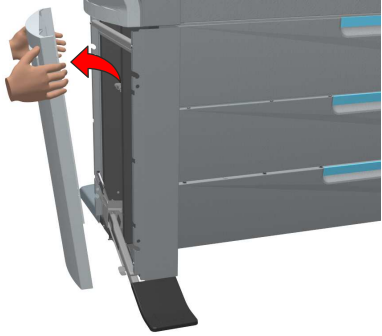
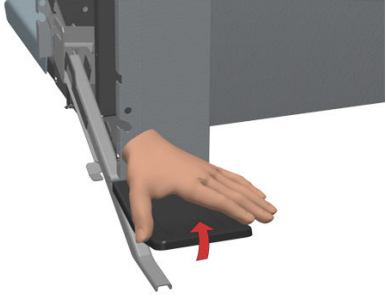
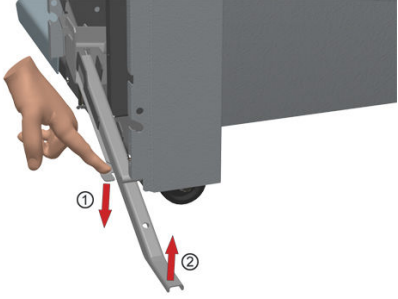
Close the media drawers.


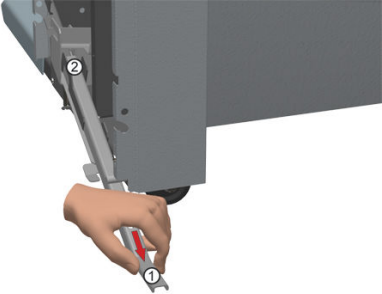
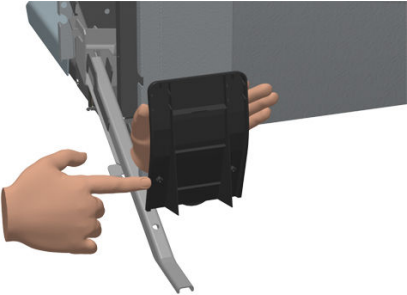
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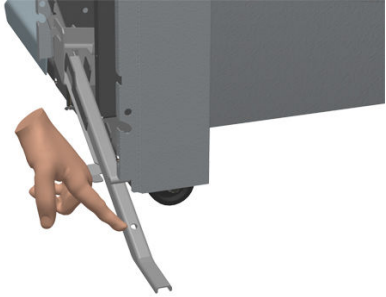
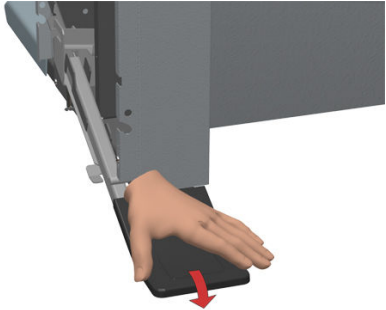
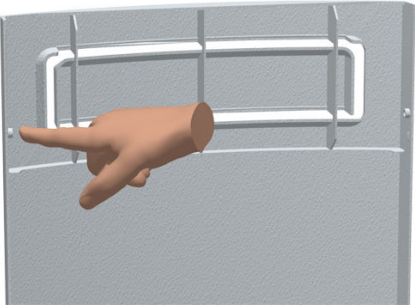


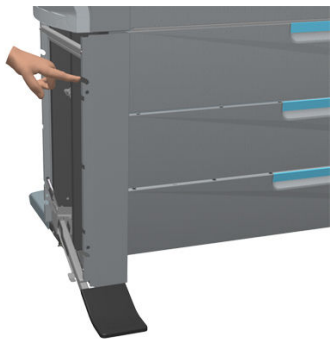
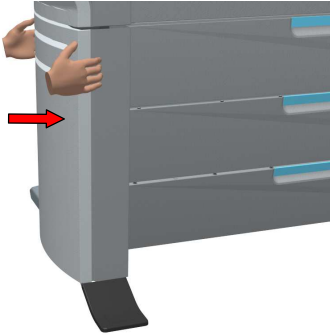
**Note:**

Be aware of the printer working area. (see *Printer working area [Footprint]* on page 16)

	Action	Illustration
1	Use both hands to pull at the 'Lower left cover'. Remove the 'Lower left cover'.	
2	Pull at the Foot cover. Remove the 'Foot' cover.	
3	Push the handle [1]. The 'Foot' snaps up [2].	
4	Repeat action 1 till 3 on the 'Lower right cover'	

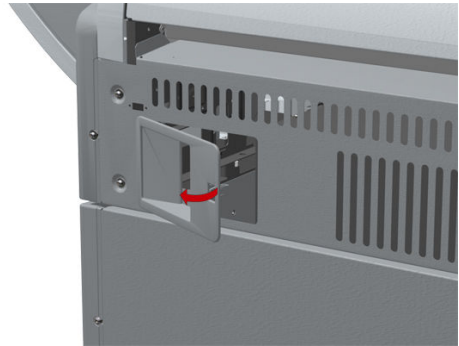
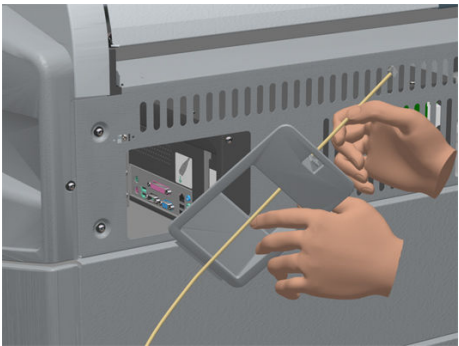
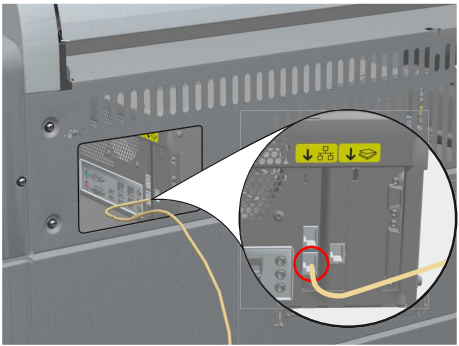
	Action	Illustration
5	<p>Move the Océ ColorWave 650 Poster Printer printer.</p> <p><b>i</b> <i>Note:</i> Be aware of the printer working area.</p>	
6	<p>Pull out the left 'Foot' [1] until it touches the ground and locks [2]. You should hear a click as it locks.</p> <p><b>i</b> <i>Note:</i> If you do not hear a click, place your foot on the foot of the printer [1] and at the same time push gently against the printer until you hear the click.</p>	
7a	<p>Replace the 'Foot' covers. Place the pin into the notch.</p>	<p>Pin:</p> 

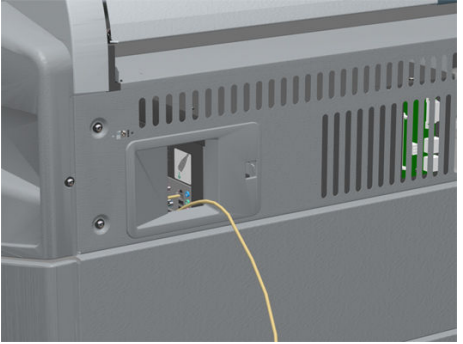
	Action	Illustration
7b		Notch: 
7c		
8a	Replace the 'Lower left cover'. Place the pin into the notch.	Pin: 

	Action	Illustration
8b		Notch: 
8c		
9	Repeat action 6 till 8 at the right hand side. Replace the 'Lower right cover'	

# Connect the Océ ColorWave 650 Poster Printer

## How to connect the network cable

	Action	Illustration
1	Remove the cover of the 'Connection panel' at the back of the printer.	 An illustration showing the back of a printer. A grey plastic cover on the left side of the connection panel is being lifted away from the main chassis. A red curved arrow indicates the direction of movement.
2	Lead the connection cable through the cover.	 An illustration showing a pair of hands. One hand holds a yellow network cable, and the other hand guides it through a rectangular opening in the grey plastic cover. The cover is held in place against the printer's chassis.
3	Connect one side of the network cable (UTP cable with a RJ45 connector) to the indicated network connection on the connection panel of the ' <b>Océ PowerM Plus controller</b> '. Connect the other side of the network cable to your company network.	 An illustration of the back of the printer's connection panel. A yellow network cable is plugged into an RJ45 port. A circular callout provides a magnified view of the port, showing a red circle around the RJ45 connector and yellow arrows pointing to the correct orientation for the cable.

	Action	Illustration
4	Replace the cover on the 'Connection panel'.	 A close-up photograph of the back of a grey electronic device. A yellow Ethernet cable is plugged into a network port. To the right of the port is a small, rectangular cover with a latch, which is the 'Connection panel' mentioned in the text. The device has a perforated metal grille for ventilation on the right side.

## How to connect the mains supply cable

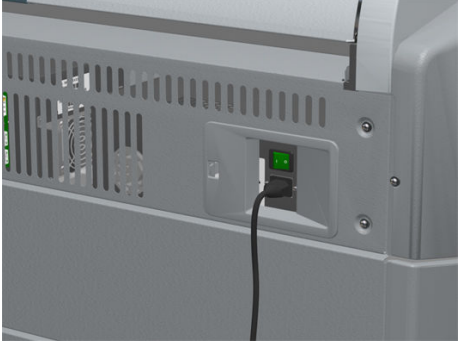
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**Caution:**

Before you connect the main power cable, please make sure the main power switch is in the "off" position.


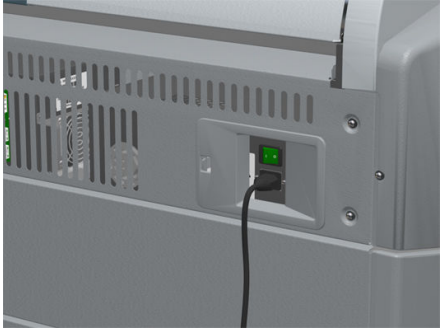
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	Action	Illustration
1	Plug in the 'Power' cable at the power connection on the 'Connection panel' at the back of the printer. Put the other side of the 'Power' cable into the socket.	



## Turn the printer on or off

### How to turn the printer on or off

'On / Off switch'	Illustration
<p>One 'On / Off switch' is located on the front of the printer. Use it to turn the printer on or off in your daily work.</p>	<p>'On / Off switch' [19]</p> 
<p>The other 'On / Off switch' is the green main power switch at the back of the printer. Only use this switch when you need to connect or disconnect the main supply to the printer.</p> <p>To disconnect the main supply:</p> <ul style="list-style-type: none"> <li>■ Use the green main power switch to turn off the printer.</li> <li>■ Disconnect the main supply cable.</li> </ul> <p>To connect the main supply:</p> <ul style="list-style-type: none"> <li>■ Connect the main supply cable.</li> <li>■ Use the green main power switch to turn on the printer.</li> </ul>	

# The installation procedure

## Introduction

### Overview of installation procedure

To install the printer and integrate the Océ ColorWave 650 Poster Printer system in your company network you must follow four main steps.

- Run the installation wizard from the printer operator panel.  
If you connect the network cable of your company network and you switch on your Océ ColorWave 650 Poster Printer for the first time, an installation wizard starts automatically.
- Complete the printer configuration in the Océ Express WebTools (from a workstation).
- Configure the regional settings of the Océ ColorWave 650 Poster Printer.
- Print all demo plots or a selection of the demo plots that are most relevant to the customer. Also print a file of the customer.

---

# Run the installation wizard from the operator panel

## Introduction

If you integrate the printer according to a network policy, please contact your network administrator to get information about the network infrastructure and parameters. As a network administrator, refer to the **Océ Large Format Systems Connectivity Manual** for information about the different network infrastructures and configurations.



## Before you begin



**Note:**

You can change the position and the angle of the operator panel.





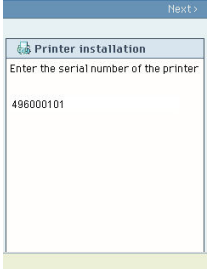
Open the 'Front cover' [6] of the Océ ColorWave 650 Poster Printer and locate the serial number of the printer.


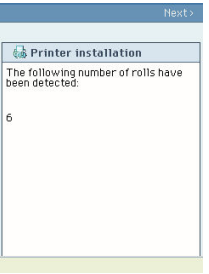
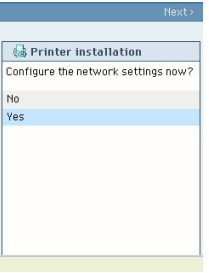

You can find the serial number on the barcode sticker next to the modification sticker.


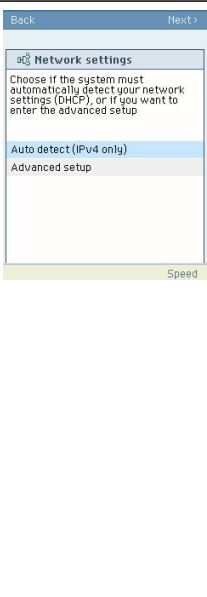

Write down the printer serial number. (496000XXX)

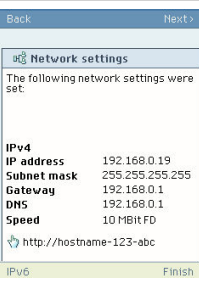
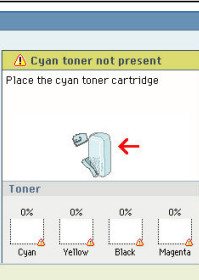
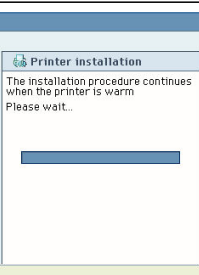

You need the serial number to complete the installation wizard.




## How to run the installation wizard

	Action	Illustration
1	<p>If you connect the network cable to your company network and you switch on your Océ ColorWave 650 Poster Printer for the first time, an installation wizard starts automatically.</p> <p>Use the 'Upper right softkey' to go to the next step.</p>	
2	<p>Use the 'Scroll wheel' to select the correct language for your printer user interface.</p> <p>Use the 'Upper right softkey' to go to the next step.</p>	
3	<p>Use the 'Scroll wheel' to confirm your language selection.</p> <p>Use the 'Upper right softkey' to go to the next step.</p>	
4	<p>Use the 'Numeric keys' to enter the serial number of the printer. You can find the serial number behind the 'Front cover' on the right hand side.</p> <p>Use the 'Upper right softkey' to go to the next step.</p> <p> <b>Note:</b> To change or replace the last digit, select the 'Red stop key' to delete the last digit.</p>	

	Action	Illustration
5	<p>Use the 'Numeric keys' again to enter the serial number of the printer for verification purpose. Use the 'Upper right softkey' to go to the next step.</p>	 <p>The screenshot shows a screen titled 'Printer installation' with a 'Next &gt;' button in the top right. Below the title, it says 'For verification, enter the serial number of the printer again.' The serial number '496000101' is displayed on the screen.</p>
6	<p>The printer operator panel displays the number of rolls detected. Use the 'Upper right softkey' to go to the next step.</p>	 <p>The screenshot shows a screen titled 'Printer installation' with a 'Next &gt;' button in the top right. Below the title, it says 'The following number of rolls have been detected:' followed by the number '6'.</p>
7	<p>Use the 'Scroll wheel' to select 'Yes' when asked if you want to configure the network settings now. Use the 'Upper right softkey' to go to the next step.</p>	 <p>The screenshot shows a screen titled 'Printer installation' with a 'Next &gt;' button in the top right. Below the title, it asks 'Configure the network settings now?' with two options: 'No' and 'Yes'. The 'Yes' option is highlighted with a blue bar.</p>
8	<p>If you entered a password in the 'Configuration' - 'Connectivity' - 'Passwords' - 'Password to change network settings' setting in the Océ Express WebTools, you must enter the correct password before you can configure the network settings.</p>	 <p>The screenshot shows a screen titled 'Network settings' with 'Cancel' and 'Next &gt;' buttons in the top left and right respectively. Below the title, it says 'This functionality is password protected. Enter the password and press 'Next'.' There is a text input field labeled 'Password' below the prompt.</p>

	Action	Illustration
9	<p>The following message is displayed:                      'This wizard assists you to connect the printer to the network'.                      Use the 'Upper right softkey' to go to the next step.</p>	
10	<p>Select one of the following options.</p> <ul style="list-style-type: none"> <li>■ 'Auto detect (IPv4 only)'                      Use the 'Scroll wheel' to select 'Auto detect (IPv4 only)' if the system must automatically detect your network settings. Confirm your entry with the 'Confirmation key' above the 'Scroll wheel'.                      Use the 'Upper right softkey' to go to next step and continue with step 11.</li> <li>■ 'Advanced setup'                      Use the 'Scroll wheel' to select 'Advanced setup' if you want to configure the network settings manually. Confirm your entry with the 'Confirmation key' above the 'Scroll wheel'.                      Use the 'Upper right softkey' to go to the next step. You must now first follow the procedure to enter the network settings manually. (see <i>'Configure the network settings manually'</i> on page 73)</li> </ul>	
11 / B	<p>The following message is displayed:                      'Auto network discovery in progress'</p>	

	Action	Illustration
12	<p>The printer operator panel now displays the network settings.</p> <p>Record the IP address (for example, 134.188.26.173). You need this IP address to access the 'Océ Express WebTools' later in order to complete the printer configuration.</p> <p>Use the 'Upper right softkey' to finish the network installation procedure and to continue with the printer installation.</p>	
13	<p>The following message is displayed: 'Place the cyan toner cartridge'</p> <p>A comparable message is displayed for all other cartridges.</p> <p>Follow the steps as indicated in the wizard to complete the installation of the printer.</p> <p>For more information about specific steps please refer to the following sections.</p> <p><i>'Load or replace a toner cartridge' on page 169</i></p> <p><i>'Replace the maintenance tray' on page 173</i></p>	
14	<p>If the toner cartridges are placed correctly, the following message is displayed: 'The installation procedure continues when the printer is warm'.</p> <p>This procedure takes several minutes.</p>	
15	<p>After warming up, open media drawer 1.</p> <p>'Load the supplied installation media on roll 1' (see <i>'Load a media roll' on page 155</i>)</p> <p><b>i</b> <i>Note:</i> Only roll position 1 can be used for calibrations. You must use a media roll with size A0 or larger.</p> <p><b>i</b> <i>Note:</i> Only use Océ 'Media' for reliable calibrations (LFM090, A0 or larger).</p>	

	Action	Illustration
16	<p>The printer will do the calibration automatically. You do not need to keep this printed calibration chart.</p> <p> <b>Note:</b> The calibration will take several minutes. The printed output is led through the 'External output (back)'.</p>	
17	<p>The following message in the 'Home' screen is displayed: 'Ready to print'.</p>	
18	<p>Continue with the following procedure: <i>'Complete the printer configuration in the Océ Express WebTools' on page 84.</i></p>	

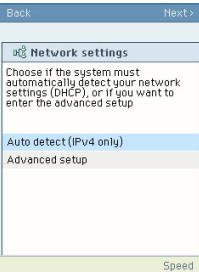
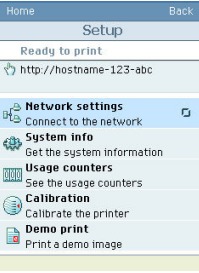
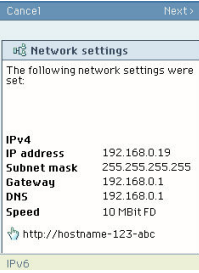



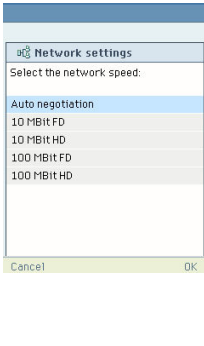
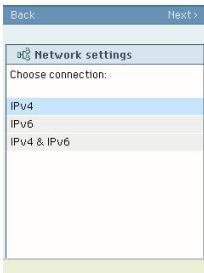
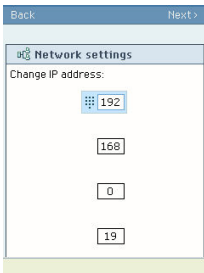
# Configure the network settings manually

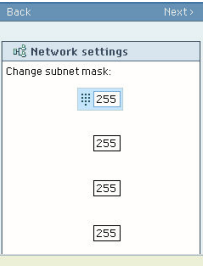
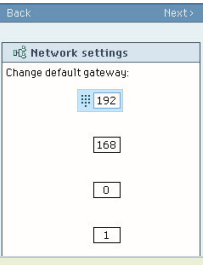
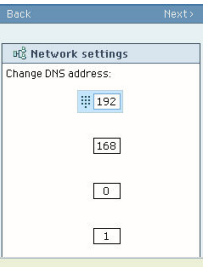
## Introduction

If you want configure the network settings manually, please contact your network administrator to get information about the network infrastructure and parameters.

## How to configure the network settings manually

	Action	Illustration
1	Use the 'Scroll wheel' to select 'Advanced setup' if you want to configure the network settings manually. Confirm your entry with the 'Confirmation key' above the 'Scroll wheel'.	 <p>The screenshot shows a menu titled 'Network settings' with options: 'Auto detect (IPv4 only)' and 'Advanced setup'. The 'Advanced setup' option is highlighted in blue. Navigation buttons 'Back' and 'Next &gt;' are visible at the top.</p>
2	Use the 'Scroll wheel' to select 'Network settings'. Confirm your entry with the 'Confirmation key' above the 'Scroll wheel'.	 <p>The screenshot shows a 'Setup' menu with various options. 'Network settings' is highlighted in blue. Other options include 'System info', 'Usage counters', 'Calibration', and 'Demo print'. Navigation buttons 'Home' and 'Back' are visible at the top.</p>
3	The printer operator panel displays the following message: 'The following network settings were set:'. Use the 'Upper right softkey' to go to next step.	 <p>The screenshot shows a confirmation screen titled 'Network settings' with the message: 'The following network settings were set:'. The settings listed are: IPv4, IP address (192.168.0.19), Subnet mask (255.255.255.255), Gateway (192.168.0.1), DNS (192.168.0.1), and Speed (10 MBit FD). Navigation buttons 'Cancel' and 'Next &gt;' are visible at the top.</p>

	Action	Illustration
4	<p>The printer operator panel displays the following message: 'This wizard assists you to connect the printer to the network'. Use the 'Upper right softkey' to go to next step.</p>	
5	<p>Use the 'Scroll wheel' to select your network speed.</p> <ul style="list-style-type: none"> <li>■ 'Auto negotiation' (strongly recommended)</li> <li>■ '10 MBit FD'</li> <li>■ '10 MBit HD'</li> <li>■ '100 MBit FD'</li> <li>■ '100 MBit HD'</li> </ul> <p>Confirm your entry with the 'Confirmation key' above the 'Scroll wheel' Use the 'Upper right softkey' to go to the next step.</p>	
6	<p>Use the 'Scroll wheel' to select the connection. Confirm your selection with the 'Confirmation key' above the 'Scroll wheel'. Use the 'Upper right softkey' to go to the next step.</p>	
7	<p>Enter your IP address. Use the 'Scroll wheel' to select the first numeric field. Confirm your selection with the 'Confirmation key' above the 'Scroll wheel'. Use the 'Numeric keys' to enter the first value of your IP address. Confirm your entries with the 'Confirmation key' Repeat this procedure for the other numeric fields until you have entered the complete IP address. Use the 'Upper right softkey' to go to the next step.</p>	

	Action	Illustration
8	<p>Enter your subnet mask.</p> <p>Use the 'Scroll wheel' to select the first numeric field. Confirm your selection with the 'Confirmation key' above the 'Scroll wheel'.</p> <p>Use the 'Numeric keys' to enter the first value of your subnet mask.</p> <p>Confirm your entries with the 'Confirmation key'</p> <p>Repeat this procedure for the other numeric fields until you have entered the complete subnet mask.</p> <p>Use the 'Upper right softkey' to go to the next step.</p>	 <p>The screenshot shows a screen titled 'Network settings' with a 'Back' button on the left and a 'Next &gt;' button on the right. Below the title is a sub-header 'Change subnet mask:'. There are four numeric input fields stacked vertically. The top field is highlighted in blue and contains the number '255'. The other three fields are white and also contain the number '255'.</p>
9	<p>Enter your default gateway.</p> <p>Use the 'Scroll wheel' to select the first numeric field. Confirm your selection with the 'Confirmation key' above the 'Scroll wheel'.</p> <p>Use the 'Numeric keys' to enter the first value of your default gateway.</p> <p>Confirm your entries with the 'Confirmation key'</p> <p>Repeat this procedure for the other numeric fields until you have entered the complete default gateway.</p> <p>Use the 'Upper right softkey' to go to the next step.</p>	 <p>The screenshot shows a screen titled 'Network settings' with a 'Back' button on the left and a 'Next &gt;' button on the right. Below the title is a sub-header 'Change default gateway:'. There are four numeric input fields stacked vertically. The top field is highlighted in blue and contains the number '192'. The other three fields are white and contain the numbers '168', '0', and '1' respectively.</p>
10	<p>Enter your DNS address.</p> <p>Use the 'Scroll wheel' to select the first numeric field. Confirm your selection with the 'Confirmation key' above the 'Scroll wheel'.</p> <p>Use the 'Numeric keys' to enter the first value of your DNS address.</p> <p>Confirm your entries with the 'Confirmation key'</p> <p>Repeat this procedure for the other numeric fields until you have entered the complete DNS address.</p> <p>Use the 'Upper right softkey' to go to the next step.</p> <p>You can now continue with step 12 of the installation wizard procedure. (see <i>'Run the installation wizard from the operator panel'</i> on page 67)</p>	 <p>The screenshot shows a screen titled 'Network settings' with a 'Back' button on the left and a 'Next &gt;' button on the right. Below the title is a sub-header 'Change DNS address:'. There are four numeric input fields stacked vertically. The top field is highlighted in blue and contains the number '192'. The other three fields are white and contain the numbers '168', '0', and '1' respectively.</p>

## Unpack a media roll



**Caution:**

Handle the media roll with care. A dented media roll can damage the imaging devices.



**Caution:**

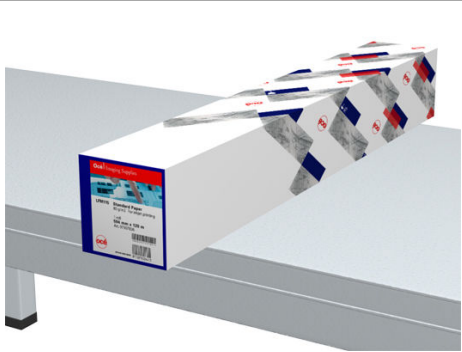
Please note down the media code (for example LFM090) indicated on the sticker on the media box. You need this code to select the correct media type on the printer operator panel.

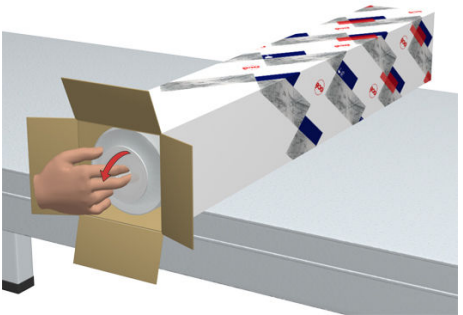
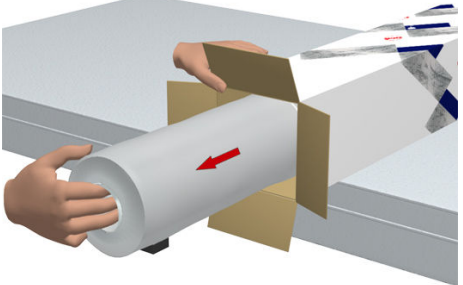


**Note:**

Always write the correct media name and media code inside the core, after you unpack the media roll. This way, if you replace a media roll before it is empty and you want to reuse it later, you will have the correct media information available.

### How to unpack a media roll

	Action	Illustration
1	Place the media box on a table and open it.	

	Action	Illustration
2	Remove the plug from the media roll.	 An illustration showing a hand reaching into a cardboard box to remove a white circular plug from the end of a media roll. The media roll is partially unrolled and is wrapped in clear plastic. The box is open, and the hand is positioned to pull the plug out.
3	Carefully remove the media roll from the box.	 An illustration showing a hand pulling the media roll out of the cardboard box. The media roll is partially unrolled and is wrapped in clear plastic. The box is open, and the hand is positioned to pull the roll out.
4	Remove the other plug and the plastic around the media roll.	

## Load a media roll

### How to load a media roll

---



**Caution:**

Do not use dented media rolls to prevent damage to the imaging devices.

---



**Caution:**

Do not open the media drawer during the print process. When the last print is delivered, wait until the status light on the printer operator panel stops blinking before opening the media drawer.

---



**Caution:**

Do not open more than one media drawer at the same time to prevent overbalance of the printer.

---



**Caution:**

It is very important to select the media type with the correct media code (for example LFM090). You can find the media code of the new media roll on the sticker on the media box. The media code represents a specific media profile that the Océ ColorWave 650 Poster Printer uses to optimize the printed output for the corresponding media type. If the correct media code is not available on your printer operator panel, you must first make a new media profile available on the printer operator panel. (see [Make a new media profile available on the printer operator panel](#) on page 168)




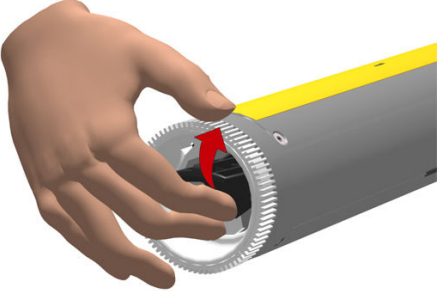
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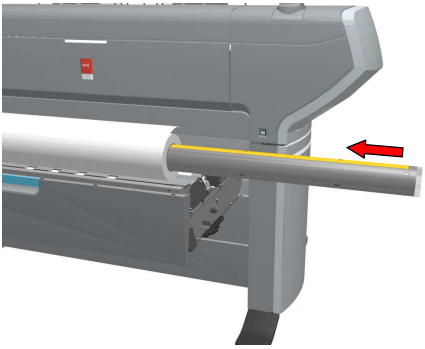
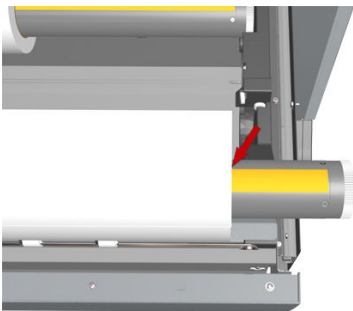
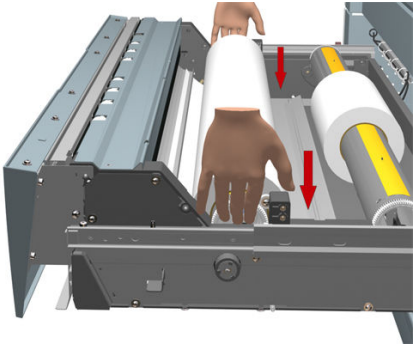


**Warning:**

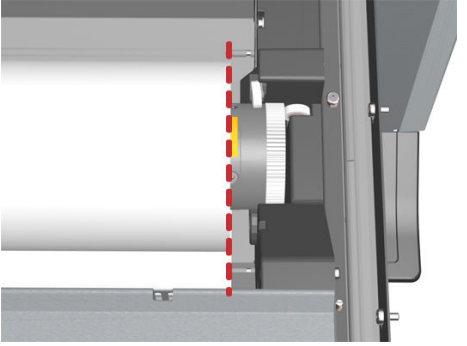
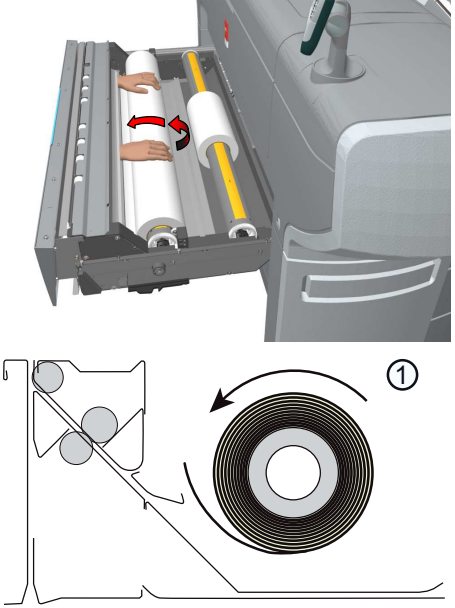
Watch your fingers when you handle the media roll.

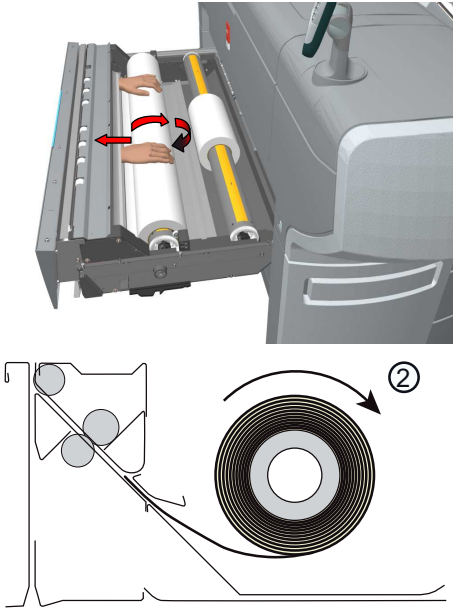

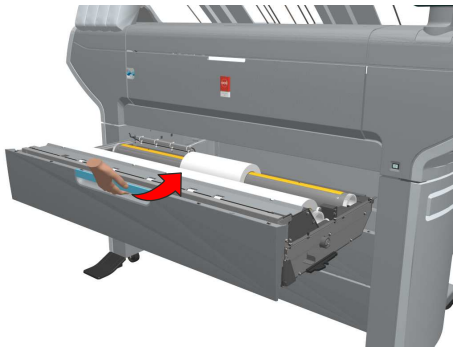
---


	Action	Illustration
1	<p>Open the correct media drawer to load the new media roll.</p> <p> <b>Note:</b> Make sure you have written the correct media name and media core inside the core. This way, if you replace a media roll before it is empty and you want to reuse it later, you will have the correct media information available.</p>	
2	<p>Place the new media roll on the roll loading station.</p>	
3	<p>Pull the handle of the roll holder locking mechanism towards you.</p>	

	Action	Illustration
4	Slide the roll holder in the core of the new media roll.	 A side-view illustration of a printer's media roll assembly. A grey roll holder is being pushed onto a yellow core of a white media roll. A red arrow points to the right, indicating the direction of insertion.
5	Align the roll with the correct size indicator on the roll holder (At the left and right hand side). Release the handle of the locking mechanism.	 A close-up illustration of the roll holder assembly. The roll holder is positioned on the yellow core. A red arrow points to a locking handle on the right side, which is being released.
6	Remove the tapes from the new media roll. Use both hands (as indicated) to place the media roll in the media drawer.	 An illustration showing a person's hands placing a media roll into a media drawer. The roll is being inserted from the top of the drawer. Red arrows point downwards from the hands, indicating the direction of movement.



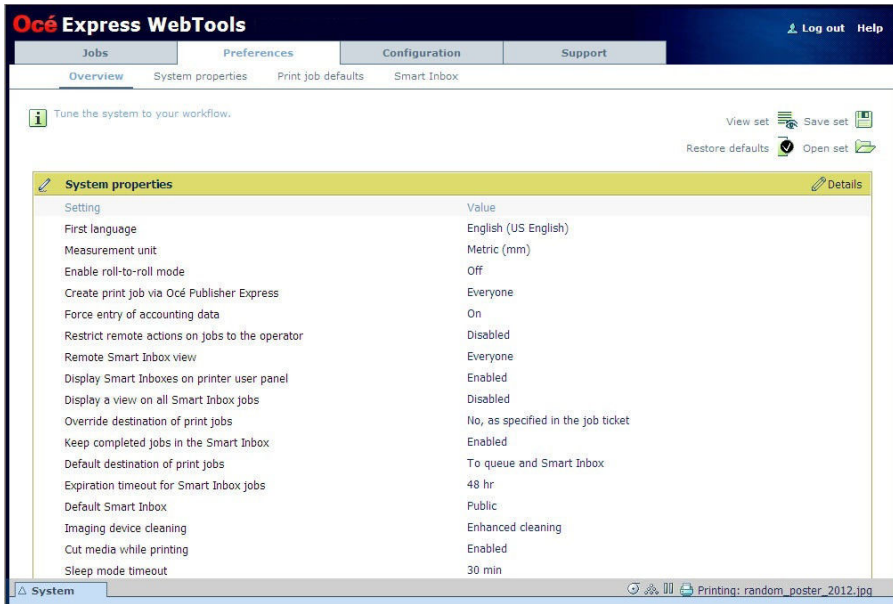
	Action	Illustration
7	Keep the media tight on the roll and in line with the side edge.	
8	Use both hands to turn the media roll backwards until the media flap has passed the metal paper guide (1).	

	Action	Illustration
9	<p>Use both hands to slide the media under the metal paper guide. A "beep" confirms the correct paper transport (2).</p>	
10	<p>Close the media drawer.</p> <p> <b>Note:</b> Do not open the 'Media drawer' while the machine is loading the roll.</p>	

	Action	Illustration
11 / B	<p>The following screen appears on the printer operator panel.</p> <p><b>Note:</b> When you load a media roll the printer automatically detects the roll width. If the detected roll width is not a standard width, the printer selects the next smaller roll width that is supported by the printer.</p> <p><b>Note:</b> Configure the media type of the media roll you loaded.</p>	

## Complete the printer configuration in the Océ Express WebTools

1. Open a web browser on a workstation connected to the network.
2. Enter the following address: “http://<Océ ColorWave 650PP IP address>” (for example http://134.188.26.173) to access the Océ Express WebTools.

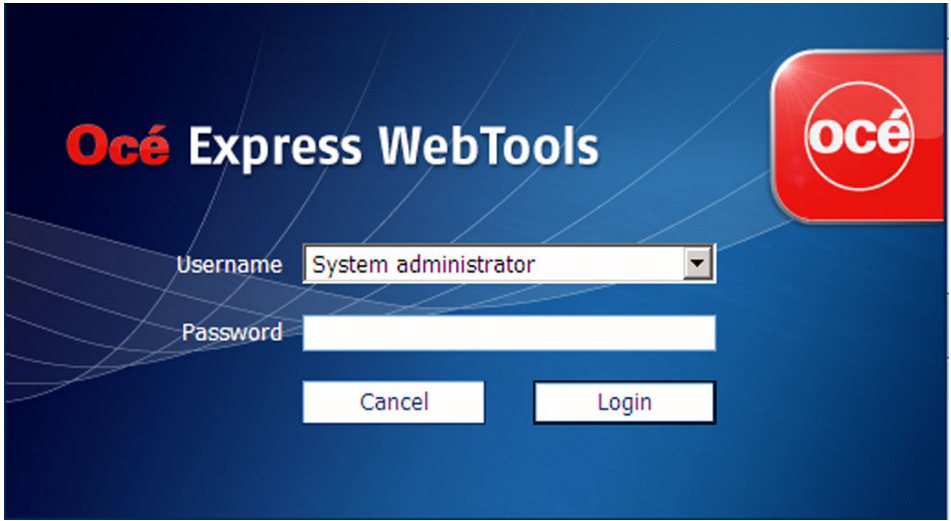


### Note:

If the Océ Express WebTools do not appear, contact the network administrator to check the network parameters. Check if the Océ ColorWave 650 Poster Printer network settings have been registered in the network infrastructure.

3. Select 'Configuration' - 'Connectivity'.
4. In the 'Identification' section, click 'Edit'.

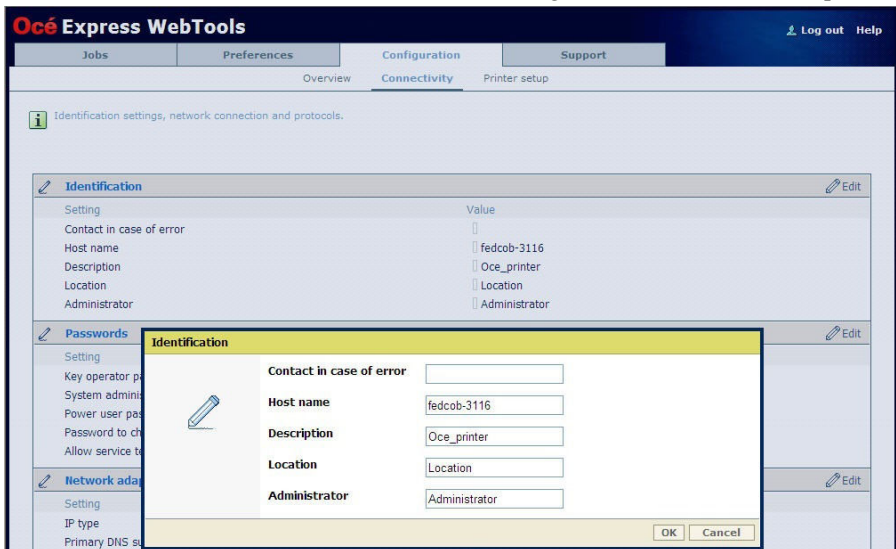
- Use the password 'SysAdm' or the new password to logon as System administrator.



**Note:**

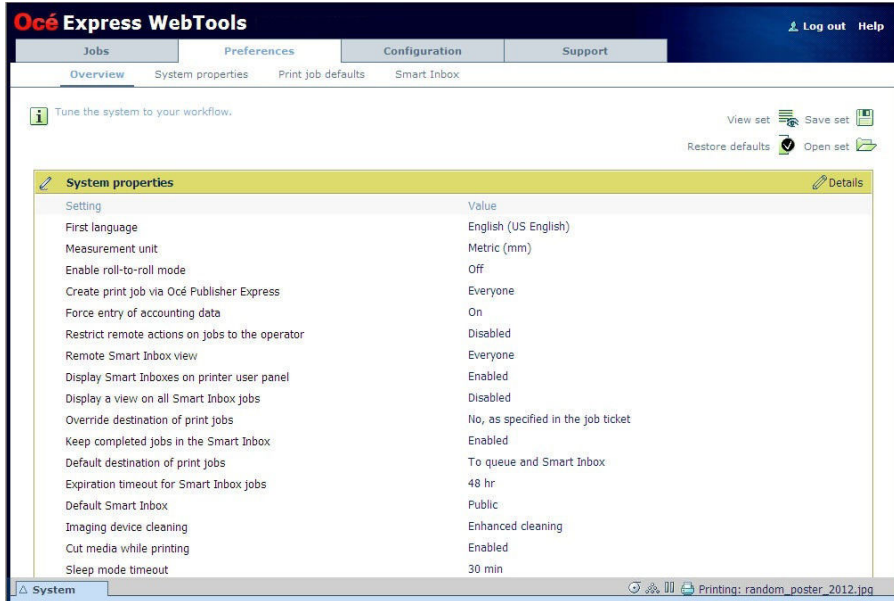
It is advised to change the password. (see *'Change the password for authorized users'* on page 120)

- Once logged in, enter the printer 'Host name' (for example: OceColorWave650PP) in the 'Identification' window in order to address the Océ ColorWave 650 Poster Printer by its 'Host name'. You can define the other settings if needed. Restart is required.



- Turn the printer off and on to restart the Océ ColorWave 650 Poster Printer printing system.

8. Wait until the system is ready again.
9. Enter the following address: “http://<Océ ColorWave 650PP Hostname>” (for example http://OceColorWave650PP) in the workstation web browser:  
If the Océ Express WebTools appear, the printer is integrated in the network and ready for use.



If an error page ('Page cannot be displayed') appears, contact the network administrator. Check the Host name and the other web browser security and network settings. Refer to the Océ Large Format Systems Connectivity Manual, “Chapter 2 - Windows TCP/IP environment” for technical information about the Océ ColorWave 650 Poster Printer integration in a network environment.

## Configure the regional settings of the Océ ColorWave 650 Poster Printer

### Purpose

The regional settings are configured during the installation of your printer. If you want to change the initial configuration, you can do so in the 'Regional settings'.

Define the regional settings for the printer in the following order:

- 'First language' and 'Second language' of the printer operator panel
- 'Measurement unit'
- 'Time zone'

If you change the 'Time zone', you must reboot the system before setting the 'Current date and time'.

- 'Current date and time'
- 'Time format'



#### *Note:*

Every time you change the 'Measurement unit', the controller recalculates the values from millimeter to inches and vice versa. If you reverse to the original value of this setting a slight calculation difference can occur due to rounding differences.

### How to define the regional settings

1. Open the 'Preferences' - 'System properties' tab.
2. Click on 'Edit' in the 'Regional settings' section or click on the setting you want to edit, for example 'First language'.
3. Modify the settings. You can choose between:
  - settings that are commonly used in the USA
  - or settings that are commonly used in the rest of the world.
4. Click 'Ok' to confirm or 'Cancel' to reject your entries.

## Print the Customer Analysis Tool (CAT) demo print

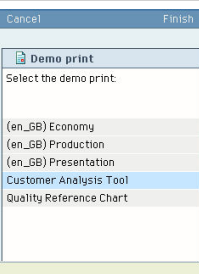
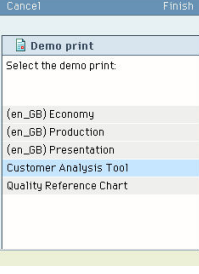

### When to do

Once you have installed the printer and prepared it for use, you can print the Customer Analysis Tool demo print. You can use this demo print to check if the Océ ColorWave 650 Poster Printer works correctly.

### How to print the Customer Analysis Tool (CAT) demo print

	Action	Illustration
1	From the 'Home' screen on the printer operator panel, select the 'System' tab with the lower left soft key.	
2	Select the 'Setup' tab with the upper right soft key.	
3	Use the 'Scroll wheel' to select 'Demo print' and confirm with the 'Confirmation key' (above the 'Scroll wheel').	



	Action	Illustration
4	Use the 'Scroll wheel' to select 'Customer Analysis Tool'.	 <p>A screenshot of a printer's control panel showing a 'Demo print' menu. The menu has a 'Cancel' button at the top left and a 'Finish' button at the top right. Below the buttons, it says 'Demo print' and 'Select the demo print:'. There is a list of options: '(en_GB) Economy', '(en_GB) Production', '(en_GB) Presentation', 'Customer Analysis Tool', and 'Quality Reference Chart'. The 'Customer Analysis Tool' option is highlighted with a blue background.</p>
5	Press 'Finish' to print the 'Customer Analysis Tool' demo print.	 <p>A screenshot of a printer's control panel showing a 'Demo print' menu. The menu has a 'Cancel' button at the top left and a 'Finish' button at the top right. Below the buttons, it says 'Demo print' and 'Select the demo print:'. There is a list of options: '(en_GB) Economy', '(en_GB) Production', '(en_GB) Presentation', 'Customer Analysis Tool', and 'Quality Reference Chart'. The 'Customer Analysis Tool' option is highlighted with a blue background.</p>
6	Select '< Back' and 'Home' to return to the 'Home' screen.	 <p>A screenshot of a printer's control panel showing the 'Home' screen. At the top, there is a 'Queue' button. Below it, the word 'Home' is displayed in a yellow bar. Underneath, it says 'Ready to print'. There is a large blue arrow pointing to the right. Below the arrow, there is a 'Smart Inbox' button and a 'USB' button. At the bottom, there is a 'System' button.</p>

## Result

Evaluate the 'Customer Analysis Tool' demo print. Check if the print does not show any of the following output quality problems:

- *'Banding across the print with differences in color and gloss'* on page 301
- *'Horizontal, wavy lines across your print'* on page 303
- *'Thin horizontal, colored or white lines across your print'* on page 305

If no output quality problems occur, the installation procedure is finished. Your Océ ColorWave 650 Poster Printer is now ready for use.



# **Chapter 4**

## **Configure the printing system**

# Introduction to the Océ Express WebTools

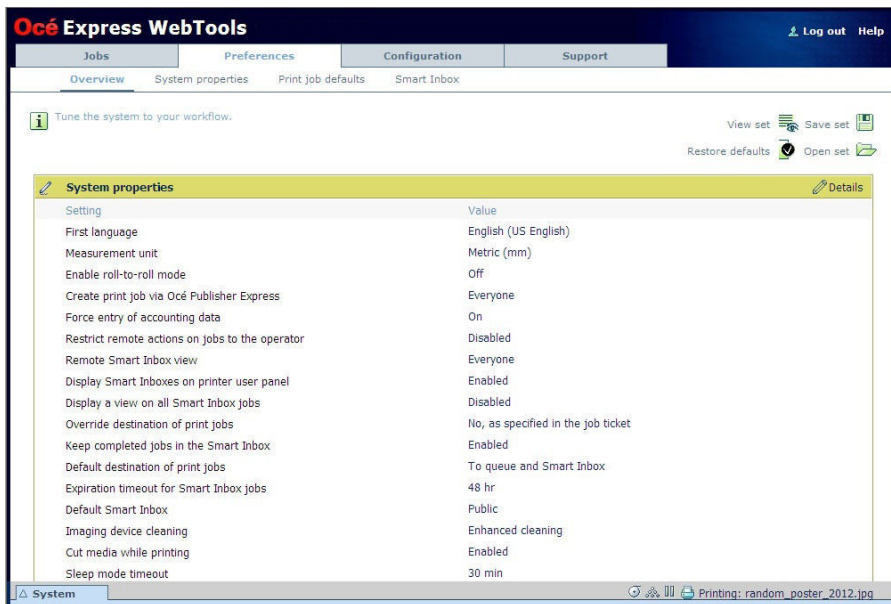
## Purpose of the Océ Express WebTools

### Definition

The Océ Express WebTools is an application that runs embedded on the Océ ColorWave 650 Poster Printer.

This application gives you access to the settings to manage the configuration and preferences of the Océ ColorWave 650 Poster Printer. To change settings in the Océ Express WebTools you must log in using one of three predefined user roles because the settings are all password protected. (see *'User roles and authorizations'* on page 117)

### Illustration



### 'Jobs' tab

Editable for any user. For some specific actions you must log in as a Key operator.

When you access the 'Jobs' tab you can see 4 different sections.

- The Océ Publisher Express section.

To submit a new job click 'Create new job'. A new window opens, where you can define some basic job settings and where you can browse to the files you want to print.

- The 'Jobs - Queue' section.  
This section gives an overview of the jobs in the queue, waiting to be printed. The buttons on top of the 'Jobs - Queue' section allow you to move a selected job to the top of the queue or to delete the job. If you click 'Delete all' all jobs are deleted from the queue.
- The 'Smart Inbox' section.  
This section gives an overview of every 'Smart Inbox' that currently contains one or more print jobs. You can select a print job in the Smart Inbox and use the buttons on top of the Smart Inbox section to print, edit or delete the job.  
When you click 'Open Smart Inbox' you can create a new Smart Inbox that immediately appears in the Smart Inbox section.  
If you click 'Delete all' in the 'View all' Smart Inbox all jobs are deleted from all Smart Inboxes.



**Note:**

The 'View all' Smart Inbox is only available if you enable the 'Preferences' - 'System properties' - 'Job management' - 'Display a view on all Smart Inbox jobs' setting.

## 'Preferences' tab

Editable for Key operator and Power user. (see *'User roles and authorizations'* on page 117)

The 'Preferences' tab contains the default settings to fine-tune the system to optimally fit your company's workflow and processes.

Tab	Groups
'Preferences'	<ul style="list-style-type: none"> <li>■ 'Overview' Summary of the settings organised in different groups.</li> <li>■ 'System properties'</li> <li>■ 'Print job defaults'</li> </ul>

## 'Configuration' tab

Editable for System administrator and Power user.

The 'Configuration' tab contains the settings to install the system in your infrastructure, according to your standards. These settings are configured during installation and do not need frequent adjustment.

Tab	Groups
'Configuration'	<ul style="list-style-type: none"><li data-bbox="476 353 1106 420">■ 'Overview' Summary of the settings organised in different groups.</li><li data-bbox="476 420 1106 451">■ 'Connectivity'</li><li data-bbox="476 451 1106 482">■ 'Printer setup'</li></ul>

### 'Support' tab

Editable for System administrator and Power user.

The 'Support' tab contains the tasks that involve contact with Océ or reseller.

Tab	Groups
'Support'	'About' <ul style="list-style-type: none"> <li>■ Information about the Océ ColorWave 650 Poster Printer system software version.</li> <li>■ Counters. The Total Area Click or 'TAC' is a click that is a function of print volume (square meter) and of toner coverage (grams /square meter).</li> <li>■ Included licenses.</li> </ul>
	'Counter history' <ul style="list-style-type: none"> <li>■ Overview of the consumables used per printed job.</li> </ul>
	'Media' <ul style="list-style-type: none"> <li>■ Configure media settings.</li> <li>■ Overview of the media profiles active on the system.</li> <li>■ Management of media profiles.</li> </ul>
	'Update' <ul style="list-style-type: none"> <li>■ Information about the current Océ ColorWave 650 Poster Printer system software version.</li> <li>■ Update the system software.</li> <li>■ Operating system patches.</li> </ul>
	'Licenses' <ul style="list-style-type: none"> <li>■ License details</li> <li>■ Information to order a new license</li> <li>■ Installation of a new license</li> </ul>
	Remote Service <ul style="list-style-type: none"> <li>■ Configure the 'Proxy server'</li> <li>■ Check connection with 'Océ Remote Service'</li> <li>■ Allow or disallow Remote assistance</li> <li>■ 'Download log files'</li> </ul>

### 'System' tab

Accessible for any user.

Open the 'System' tab in the lower left corner of the screen to get an overview of the current status of the printing system.

- The toner status.
- The available media on the printer.
- The system status (for example 'Printer paused', 'Ready to print', 'Sleeping...').
- The active job.
- The E-shredding status.
- The Roll-to-Roll mode status.
- The Océ Remote Service status.



## The system requirements

### Introduction

You can use an Internet browser to open the home page of the Océ Express WebTools. Depending on the Internet browser you use, you must set the required minimum browser security settings as indicated below.



**Note:**

The minimum system requirements are a 3 GHz Pentium 4 with 1 Gbyte RAM and Windows XP.



**Note:**

Preferred web browsers are Internet Explorer 7 (and newer) and Firefox 7 (and newer).



**Note:**

You must enable cookies and Javascript.

### Set the minimum browser security settings for Internet Explorer 7 and newer

Step	Action	Value
1	Select Tools / Internet Options / Security / Local intranet / Custom Level	
2	<b>ActiveX controls and plug-ins</b>	
	Binary and script behaviors	Enable
3	<b>Downloads:</b>	
	File download	Enable
4	<b>Miscellaneous</b>	
	Allow META REFRESH	Enable
	Launching applications and unsafe files	Enable
	Use Pop-up blocker	Disable
5	<b>Scripting</b>	
	Active scripting	Enable

### Set the minimum browser security settings for Firefox 7 and newer

Step	Action	Value
1	Select Tools / Options	
2	<b>Main</b>	
	Show the downloads window when downloading a file	Recommended
3	<b>Content:</b>	
	Load images automatically	Enable
	Enable Javascript	Enable
4	<b>Privacy</b>	
	Accept cookies from sites	Enable

# Set another language for the Océ Express WebTools

## Introduction

The language setting of the internet browser you use defines the language in which the user interface of the Océ Express WebTools is displayed.



**Note:**

This language setting does not influence the language on the printer operator panel. On the operator panel, you can only toggle between the 'First language' and the 'Second language'. You can define the values for the 'First language' and the 'Second language' in the regional settings of the Océ Express WebTools (see '[Configure the regional settings of the Océ ColorWave 650 Poster Printer](#)' on page 130).



**Note:**

If the selected language cannot be supported, the standard user interface language for the Océ Express WebTools will be US English.

## Purpose

Change the language setting of the user interface of the Océ Express WebTools.

## How to change the language setting in Microsoft Internet Explorer

1. Open Microsoft Internet Explorer.
2. Select Tools menu - Internet options. The internet options window appears.
3. Make sure the General tab is selected.
4. Click the Languages button in the lower part of the window. Another window opens.
5. Select the language of your choice. A new language can be added to the list with the Add button.
6. Move the newly added language up in the list to the top position.
7. Click OK to confirm or Cancel to close both windows again.
8. Click Refresh in the toolbar or open another page. The language of the application will be changed.



**Note:**

The Internet options may be found under a different menu depending on which version of Microsoft Internet Explorer version you use.

## How to change the language setting in Mozilla Firefox

1. Open Mozilla Firefox.
2. Select the Extra menu - Options. The Options window appears.
3. Click the Advanced button and make sure you have selected the General tab.
4. In the Languages section click the Choose... button. Another window opens.
5. Select the language of your choice. A new language can be added to the list with the Add button.
6. Move the newly added language up in the list to the top position.
7. Click OK to confirm or Cancel to close both windows again.
8. Click Reload in the toolbar or open another page. The language of the application will be changed.

---

## How to edit a setting

1. Browse to the settings group you want to edit, for example 'Preferences' - 'System properties' - 'Regional settings'.
2. Click directly on the value of a setting if you want to edit a single setting  
or  
click 'Edit' in the settings group bar to access a window for all settings in the group if you want to edit more settings in the settings group.

**Note:**

Before you can edit a setting or a settings group, you must log on as an authorized user.

3. Modify the setting or settings.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## View and check the settings

### Purpose

View and check the settings and the values that are stored when you save the settings file.

### When to do

View and check the settings:

- Before you save the settings and the values in the Océ Express WebTools.
- To check which settings are no longer set to the factory default value.



*Note:*

Not all settings are stored in the settings file. The network settings are excluded from the file because the network settings cannot be transferred to another printer. The passwords for authorized users and the passwords for remote scan destinations are excluded from the file for security reasons. License information is not included in the file either.

### How to view and check the settings

1. Open the 'Configuration' tab or the 'Preferences' tab.
2. Click on 'View set' in the upper right-hand corner of the screen. A window opens.
3. Scroll through the list of settings. The first column displays the setting and the second column displays the values. A "\*" indicates that the value of the setting is different than the original factory default value.



*Note:*

You can print the information with the standard print function of your browser.

---

## Save the settings in a file

### Purpose

Save the settings and the values that you configured in the Océ Express WebTools in a file.

### When to do

Save the settings in a file to:

- Duplicate the settings very easily to another printer of the same type.



**Note:**

Not all settings are stored in the settings file. The network settings are excluded from the file because the network settings cannot be duplicated to another printer. The passwords for authorized users are excluded from the file for security reasons. License information is not included in the file either.

### How to save the settings in a file

1. Open the 'Configuration' tab or the 'Preferences' tab.
2. Click on 'Save set' in the upper right-hand corner of the screen. A window opens.
3. Navigate to a location on the network to store the file.
4. Save the settings<hostname of printer><date>.xml file. The file name is not fixed. You can change the name if required.
5. Click 'Ok' to confirm or 'Cancel' to close the window without saving the file.

## Load the settings from a file

### Purpose

Load the settings and the values for the Océ Express WebTools from a file.

### When to do

Load the settings from a file to:

- Duplicate the settings to another printer of the same type.



*Note:*

When you are logged in as a Key operator you can only load the Key operator settings. When you are logged in as a System administrator you can only load the System administrator settings. To load all the settings that are stored in the file you must log in as a Power user.



*Note:*

Not all settings are stored in the settings file. The network settings are excluded from the file because the network settings cannot be duplicated to another printer. The passwords for authorized users are excluded from the file for security reasons. License information is not included in the file either.

### How to load the settings from a file

1. Open the 'Configuration' tab or the 'Preferences' tab.
2. Click 'Open set' in the upper right-hand corner of the screen. A secondary window opens.
3. Navigate to a location on the network and select the settings file.
4. Click 'Ok' to load the settings file or 'Cancel' to close the window without loading the settings file.

In some cases a reboot dialog appears.

### Result

The values of the settings in the settings file overwrite the current values. The network configuration settings of the system and the passwords are not loaded to prevent connectivity problems and to guarantee the integrity of the passwords.



## Restore the factory defaults

### When to do

- If you want to restore the factory default settings and values of the Océ Express WebTools.



**Note:**

When you are logged in as a Key operator you can only restore the Key operator settings. When you are logged in as a System administrator you can only restore the System administrator settings. To restore all the factory default settings you must log in as a Power user.

### How to restore the factory defaults

1. Click the 'Configuration' tab or the 'Preferences' tab.
2. Click 'Restore defaults' in the **top-right hand corner** of the screen. A secondary window is opened.
3. Click 'Ok' to restore the factory default settings or 'Cancel' to close the window without restoring the factory defaults.

## Update the Océ ColorWave 650 Poster Printer software

### Introduction

If you receive software update CDs or DVDs, you can follow the procedure below to update the Océ ColorWave 650 Poster Printer software.



**Caution:**

You must wait approximately 15 minutes. Do not touch anything while the installation is in progress.

---



**Note:**

Before you can start an update, you must log on as system administrator or power user.



**Note:**

The software update procedure can take quite some time.



**Note:**

The system checks the current software version and displays a warning message when necessary. A software upgrade or downgrade is not possible in all situations.

### Open the update wizard

When you start the update:

1. Open a web browser on a workstation connected to the network.
2. Enter the address: “http://<Océ Productname address>” (for example http://134.188.26.173) or “http://<Océ Productname Hostname>” (for example http://OceColorWave650PosterPrinter) to access Océ Express WebTools.
3. Click on the 'Support' - 'Update' tab in Océ Express WebTools and log on as system administrator (default: “SysAdm”).  
Once you have logged in correctly, you can find the current software version and installation date.
4. Click on the 'Update' button. A wizard will open to help you install the updates and patches.

## Update the Océ ColorWave 650 Poster Printer software

Once you have opened the update wizard:

1. Click on “OK”. A dialog window appears.
  - If you want to update the software of the **operating system**, click on the upper “Browse...” button. Browse to the directory where the operating system software upgrade file is located. Select the correct file. Click 'Open'.
  - If you want to update the **software**, click on the lower “Browse...” button. Browse to the directory where the software upgrade file is located. Select the correct file. Click 'Open'.
2. Click on “OK”.

You must wait approximately 15 minutes for the files to upload. The progress bar, at the bottom of the page, indicates the progress.
3. When the upload is finished, click on “OK”. A dialog window appears.
4. Click on “OK” to start the installation. When you do this, a warning message appears. The printer operator panel now displays the message 'Do not switch off the system.', 'The system is installing the software.', 'This may take a while.'. When the software update is finished, the warning message disappears.



### **Caution:**

You must wait for approximately 15 minutes. Do not touch anything while the installation is in progress.

---

5. Click on “OK” to return to Océ Express WebTools.

## Result

Your software update is finished.



### **Note:**

There is no specific user feedback on the result of the software update. Please check the current software version of your system in the 'Support' - 'Update' tab.











## The system monitor



### Introduction

You can open the system monitor to get an overview of the current status of the printing system. When you click on the 'System' tab in the lower left corner of the screen, the system monitor pops-up.



The system state (for example: 'Printing:') is displayed in the upper right corner of the system monitor section of the Océ Express WebTools.

### Overview of the system states



State	Icon	Description
'User intervention required'		The user is requested to go to the printer and follow the instructions displayed on the operator panel.
'System memory is full'		Status message when printer does not print because the system memory is full.
'Out of toner'		Status message when printer does not print because the printer is out of toner.
'Sleeping...'		Energy saving state: State when not all functionality is available due to printer sleeping.
'Warming up...'		State when not all functionality is available due to printer warming up.
'Initializing...'		State when the system software is initializing.
'Printer paused'		The system pauses the print queue but keeps access to all other functionality.
'Processing...'		The system is receiving or processing data.
'Ready to print'		State when there is no active job and no waiting job. When a job arrives, no user intervention is needed to start printing.
'Printing:' <job-name>		State when a print job is active.

State	Icon	Description
'Processing:' <job-name>		The system is processing the job data.
'Receiving:' <job-name>		The system is receiving the job data.


### The toner states

Icon	Description
	Toner OK
	Toner low, empty or cartridge not present.


### Remote service states

Icon	Description
no icon	'Remote Service' is either disabled or enabled and connected to Océ.
	'Remote Service' is enabled, but could not connect to Océ.
	Remote assistance to the system is enabled and currently accepting a connection.

### The E-shredding states

Icon	Description
no icon	E-shredding is disabled.
	E-shredding is enabled or busy. A tooltip is available with extra information.

## The Roll-to-Roll states

Icon	Description
no icon	The system is in Roll-to-Sheet mode
	The system is in Roll-to-Roll mode. The printer will not cut between pages. The take-up unit can be used.

## Shut down or restart the system

To remotely shut down the printing system you can click 'Shut down' in the 'Support' tab.

When the printing system is on, you can also use this button to restart the system.



**Note:**

A login is required to restart or shut down the system.

## Remote Service

### Introduction

The Océ Express WebTools offers remote services (from the Océ ColorWave 650 Poster Printer to Océ).

You can find these settings at the 'Preferences' - 'System properties' tab under the header 'Service' and for the proxy settings at the 'Configuration' - 'Connectivity' tab under the header 'Remote Service'.

This functionality will only work if the 'Remote Service' license is active. See ['Check your licenses' on page 317](#)

'Remote Service' has the following configuration options available for the system administrator:

- 'Configure proxy'
- 'Check connection'
- 'Allow remote assistance': Allow remote assistance from Océ to the Océ ColorWave 650 Poster Printer.
- 'Download log files': Download the online services log files from the Océ ColorWave 650 Poster Printer.

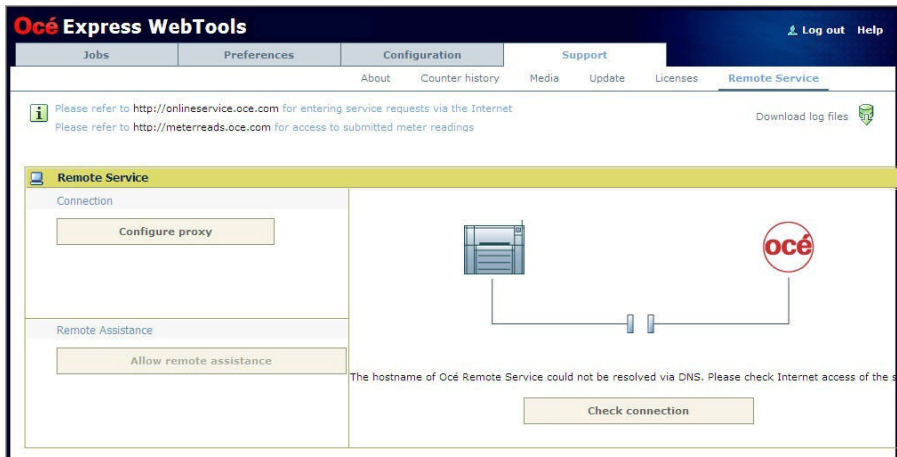


**Note:**

Log on as system administrator to set up a (secure internet) connection.



## Illustration



### 'Configure proxy' (applicable if proxy settings are required)

1. Set up the proxy server:
  - 'Proxy enabled'
  - 'Proxy hostname' please enter the fully qualified hostname of the proxy server
  - 'Proxy port'
2. Authentication setup (if needed):
  - 'Proxy requires authentication'
  - 'Proxy authentication: user'
  - 'Proxy authentication: password'
  - 'Proxy authentication: domain'
3. Click 'Ok' to finalize proxy configuration.

### 'Check connection'

1. After 'Configure proxy' setup (if applicable), it is possible to test the connection. Click on 'Check connection' to test the connection between the Océ ColorWave 650 Poster Printer and Océ. The result is given (within 30 seconds): 'The system is connected to Océ Remote Service'.



**Note:**

Now the system is able to send data to Océ. Examples: Océ Meter Manager information or Océ 'Remote Service'.



*Note:*

For the online viewing and approval of meter reads and/or service call entry via the Web, please refer to the Océ website of your country. It is preferable to create an account: “My account”. After creating the account, access can be requested for both services.



*Note:*

Feedback on the status of the connection and tooltip information are given in system monitor.

### 'Allow remote assistance'

1. Click on 'Allow remote assistance' to allow remote access from Océ to the Océ ColorWave 650 Poster Printer system. The Océ ColorWave 650 Poster Printer will now listen for remote access activities from Océ. It will inform the user whether it has accepted a connection.
2. When a connection with Océ has been established, a remote service operator (i.e. service technician) is able to operate the Océ ColorWave 650 Poster Printer as if he were at the customer's site.
3. Click on 'Stop remote assistance' to stop the remote access session from Océ to the Océ ColorWave 650 Poster Printer system.



*Note:*

Since a remote assistance session is established via a point-to-point connection, only this specific system, and none of the other systems at the customer's site, can be reached.



*Note:*

Thanks to the 'Stop remote assistance' button, the customer always stays in control. The connection can be terminated at any time.

### 'Download log files'

1. Click on 'Download log files':  
The system creates a zip file that contains the relevant technical and audit log files in a text format.  
The zip file can be saved locally.

---

# Network and security settings

## The 'Configuration' tab in the Océ Express WebTools

### Configure the network settings in the Océ Express WebTools

#### Introduction

Some of the network settings are configured during the installation of your system. If you want to change the initial configuration or if you want to define more network settings, you can do so under the 'Configuration' tab.

#### How to configure the network settings in the Océ Express WebTools

1. Click 'Configuration' - 'Connectivity'.
2. Click 'Edit' in the group bar to access the 'Edit' window. You can edit all the settings of the settings group in one window.  
or
3. To edit only one setting, click a single setting value in the expanded list.



**Note:**

Log on as System administrator or Power user in the Océ Express WebTools.

For example, click on the value of the 'Enable DHCP' setting to display a window where you can change the value.



**Note:**

This window also contains a short explanation of the setting.

4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## Set the 'Network duplex mode' and the 'Network speed'

### Introduction

Use the Océ Express WebTools to set the 'Network speed' and 'Network duplex mode' for your network adapter.

### Before you begin



*Note:*

Gigabit ethernet (1000 Mbit/s) is supported, but only by automatic detection.



*Note:*

For this procedure, you need to log in as a System Administrator or Power User.

### Set the 'Network duplex mode' and 'Network speed'

In the Océ Express WebTools:

1. Open the 'Configuration' - 'Connectivity' tab.
2. Click on 'Edit' in the 'Network adapter' section or click on the Network speed and duplex mode setting.
3. Select the correct value. 'Automatic detection' is default.
4. Click on 'Ok' to confirm or 'Cancel' to reject your entries.

# Access and passwords

## User roles and authorizations

### Introduction

The settings in the Océ Express WebTools can be configured and managed to enable the optimal performance of the Océ ColorWave 650 Poster Printer.

You can view all the settings in the Océ Express WebTools but when you want to edit a setting, a message appears. This message indicates that the setting is password protected. You must log in, before you have the rights and authorizations to change a setting. Logging in requires a password.



#### **Caution:**

The operator can enable (for example after installation) the possibility for Service to reset the passwords without reinstallation. In such cases, a specific setting (accessible for Service) that allows password resetting becomes visible. If the operator did not enable this and passwords are lost, reinstallation is necessary.

### Overview of user roles and authorizations

The table below displays the different user roles and the authorizations that belong to the role.

User role	Description
'Key operator'	Besides the normal use of the system, the Key operator takes care of the system's daily maintenance and is authorized to change all default settings in the 'Preferences' tab of the Océ Express WebTools.
'System administrator'	The System administrator takes care of the integration of the system into the IT-infrastructure of the customer. The System administrator is authorized to change all settings in the 'Configuration' tab of the Océ Express WebTools.
'Power user'	The Power user is authorized to access all functionality of the Océ Express WebTools, except the Service settings.



#### **Note:**

You do not need a password for the normal use of the system.

## Log in as an authorized user

### Purpose

In order to have write access for certain groups of settings, you must log in as an authorized user. There are 3 user roles, System administrator, Key operator and Power user who have authorization to edit specific groups of settings. You do not need to log in before you start a session. The system will only display a message when you need to log in to perform an action.

### Before you begin

Navigate through the tabs and select the value of a setting you wish to change.

### How to log in as an authorized user

1. After you click the value of the setting you want to edit, a log in window appears.
2. You can select a user role from the drop down list.



*Note:*

The user role with the required authorization is already selected.

3. Enter the password.



*Note:*

If the password is entered incorrectly, a message appears. You can enter the password again.

4. Click 'Ok' to confirm your entry.



*Note:*

Once you have logged in, the log in lasts for the duration of the browser session. If you have not been active for more than 30 minutes, the session expires and you need to login again.



*Note:*

For security reasons it may be useful to periodically change the password for the 3 access modes (Key operator, System administrator, Power user) to the Océ Express WebTools.

## Log out after your session

### Purpose

When you have finished the modification of a setting, it is advised to log out again.

### How to log out after you have finished your session

1. Click the log out hyperlink in the **top right-hand corner** of the screen.  
or
2. Close the screen of your internet browser.

## Change the password for authorized users

### When to do

For security reasons it is advised to periodically change the password for the 3 access modes (Key operator, System administrator, Power user) to the Océ Express WebTools.



#### **Caution:**

The operator can enable (for example after installation) the possibility for Service to reset the passwords without reinstallation. In such cases, a specific setting (accessible for Service) that allows password resetting becomes visible. If the operator did not enable this and passwords are lost, reinstallation is necessary.

---

### How to change the password for authorized users

1. Click 'Configuration' - 'Connectivity' - 'Passwords'.
2. Expand the 'Passwords' section.
3. Depending on the password you want to change, select 'Key operator password', 'System administrator password' or 'Power user password'. A secondary window appears.
4. Log in as Key operator to change the key operator password. The default key operator password is KeyOp.  
Log in as System administrator to change the system administrator password. The default system administrator password is SysAdm.  
Log in as Power user to change all the passwords. The default power user password is PowUsr.



#### **Note:**

The passwords are case sensitive. You can only use characters from the following range:

A-Z

a-z

0-9

\_ - ~ ! ? @ # \$ % ^ \* + = , . : ; / [ ] ( ) { }

No other characters may be used.

5. Enter the new password twice to confirm your input. The password is hidden.
6. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



---

## Define the IP type

### Introduction


In addition to IPv4, the printer also supports IPv6. You can choose to use either IPv4 or IPv6, but Océ Express WebTools also allows you to use both simultaneously. For more information on the differences between IPv4 and IPv6, please consult the Connectivity manual.



**Note:**

IPv6 is not compatible with 'Access control' and 'IPsec'.

### Set up IP type preferences

1. Go to 'Configuration' - 'Connectivity'.
2. Go to the 'Network adapter' bar and look for the 'IP type' entry
3. Click .
4. Choose 'IPv4', 'IPv6' or 'IPv4 and IPv6 both enabled' and click 'Ok' to confirm your choice.



**Note:**

As long as only 'IPv4' is enabled, 'IPv6' settings remain hidden and vice versa.

## Enable Access control

### Introduction

With 'Access control' disabled, any host within your network has direct access to the Océ ColorWave 650 Poster Printer. With 'Access control' enabled, you are able to choose up to 5 hosts that are allowed to communicate with the Océ ColorWave 650 Poster Printer through your network. This amount of hosts allows for flexible configuration:

- 2 mandatory hosts: the Print server and the Scan server
- 1 host that is used by the 'System administrator' to configure the Océ ColorWave 650 Poster Printer
- 2 mandatory hosts:

For each of the hosts, you can decide whether the communication from this host to the system needs to be encrypted by IPsec.

You can enable 'Access control' in the Océ Express WebTools.



**Note:**

The option to enable 'Access control' as well as the 'Access control' settings are only visible and configurable if the 'Configuration' - 'Connectivity' - 'Network adapter' - 'Enable DHCP' setting is disabled.



**Note:**

'Access control' is not compatible with 'IPv6'. To change the IP type, please see: ['Define the IP type'](#) on page 121



**Note:**

'Configuration' of the 'Access control' settings is only available to the 'System administrator'.




**Caution:**

To prevent unauthorized access to these settings via the printer operator panel, please ensure that the 'Password to change network settings' is set.

---

### Enable 'Access control'

1. Open Océ Express WebTools and log in as 'System administrator' or as 'Power user'.
2. Open the 'Configuration' - 'Connectivity' tab.

3. Go to the 'Network security' bar.
4. Click on  Edit in the upper right-hand corner of the section.
5. Change the 'Access control' setting from 'Disabled' to 'Enabled'.

# Access control and IPsec settings

## Introduction

When 'Access control' is enabled, you can edit the 'Access control' settings.



**Caution:**

To prevent unauthorized access to these settings via the printer operator panel, please ensure that the 'Password to change network settings' is set.

## 'Access control' and 'IPsec' settings

The following settings for 'Access control' are available for each of the 5 stations:

Setting	Description
"Access control station X : Enable"	'Enable or disable communication of this host with the printer.'
"Access control station X: IP address"	'The IPv4 address of this host is allowed to connect to the printer.'
"IPsec station X"	Enable or disable 'IPsec'. 'IPsec' is a security protocol that encrypts the communication between the host and the printer.
"Access control Preshared key"	'The key for encryption of this host connected via IPsec. If empty, the default preshared key is used.'



**Note:**

'Enable or disable IPsec. IPsec restricts access to the printer over IPv4. It also encrypts the communication between the hosts and the printer. Note that when IPv6 is enabled also, traffic over IPv6 is not restricted, nor encrypted.'

Additionally the following 'IPsec' settings are available. (For details on these settings, please consult the Security manual)

Setting	Description
'Default pre-shared key'	This is the default key for encryption of hosts connected via 'IPsec'. This key holds for all stations whose preshared key is unspecified.

Setting	Description
'IKE SA lifetime'	Security association lifetime in seconds
'Protocol SA lifetime'	Protocol security association lifetime in seconds

# E-shredding

## Enable or disable the e-shredding function

### Introduction


The e-shredding function allows you to securely erase jobs from the system. This prevents unauthorized people from recovering the deleted jobs. When the e-shredding function is enabled, you can select an e-shredding algorithm. You can enable the e-shredding function in the Océ Express WebTools. By factory default, the e-shredding function is disabled.



**Note:**

E-shredding requires the Océ ColorWave Security Pack license. Without such a license, the setting will not be available.

### How to enable the e-shredding function

1. Go to 'Configuration' - 'Connectivity' - 'E-shredding'.
2. Click .
3. Click the radio button for 'Enabled' or 'Disabled'.



**Note:**

When e-shredding is enabled, the system may require more time to process jobs.

---

## Select the e-shredding algorithm

### Introduction


The e-shredding function allows you to securely erase jobs from the system. This prevents unauthorized people from accessing the deleted jobs.

You can select one of the following algorithms.

- 'Gutmann'.  
All jobs on the system are erased in 35 overwrite passes.
- 'DoD 5220.22-M'.  
All jobs on the system are erased in 3 overwrite passes.
- 'Custom' allows you to define the number of passes manually.

The factory default is 'DoD 5220.22-M'.

### How to select the E-shredding method

1. Go to 'Configuration' - 'Connectivity' - 'E-shredding' - 'E-shredding algorithm'.
2. Click .
3. From the list, select the required method.

## Specify the number of overwrite passes


### Introduction

The e-shredding function allows you to erase jobs from the system. This prevents unauthorized people from accessing the deleted jobs. You can manually enter the required number of overwrite passes. Therefore, the setting 'E-shredding algorithm' must be set to 'Custom'. The more passes you define, the more reliable the erasing of jobs is. However, more passes take more time. You can enter any number from 1 to 35. The factory default is 3.

### Before you begin

Make sure that 'Custom' is selected as the e-shredding algorithm.

### How to specify the number of overwrite passes

1. Go to 'Configuration' - 'Connectivity' - 'E-shredding' - 'E-shredding custom number of passes'.
2. Click .
3. Enter the required number of overwrite passes.



# Configure the printer

## The 'System properties' tab in the Océ Express WebTools

### What you need to know about default settings (Océ Express WebTools)

#### Definition

Before you send print jobs to the Océ ColorWave 650 Poster Printer, remember the following.

The values defined in the Océ Express WebTools are default values for the general system behavior. You can define a number of job settings in the Océ printer drivers or the Océ job submission tools. The settings defined in the printer drivers or the job submission tools always overrule the settings defined in the Océ Express WebTools.

## Configure the regional settings of the Océ ColorWave 650 Poster Printer

### Purpose

The regional settings are configured during the installation of your printer. If you want to change the initial configuration, you can do so in the 'Regional settings'.

Define the regional settings for the printer in the following order:

- 'First language' and 'Second language' of the printer operator panel
- 'Measurement unit'
- 'Time zone'

If you change the 'Time zone', you must reboot the system before setting the 'Current date and time'.

- 'Current date and time'
- 'Time format'



#### *Note:*

Every time you change the 'Measurement unit', the controller recalculates the values from millimeter to inches and vice versa. If you reverse to the original value of this setting a slight calculation difference can occur due to rounding differences.

### How to define the regional settings

1. Open the 'Preferences' - 'System properties' tab.
2. Click on 'Edit' in the 'Regional settings' section or click on the setting you want to edit, for example 'First language'.
3. Modify the settings. You can choose between:
  - settings that are commonly used in the USA
  - or settings that are commonly used in the rest of the world.
4. Click 'Ok' to confirm or 'Cancel' to reject your entries.

# Define the display languages of the printer

## Introduction

The Océ Express WebTools allow you to define the 'First language' (the default display language) and the 'Second language' (the alternative display language) for the printer operator panel.

The 'First language' and the 'Second language' defined in the Océ Express WebTools are also the display languages that are available on the printer operator panel. You can toggle between these two languages using the operator panel.

## Before you begin

Access the Océ Express WebTools. This setting can be edited by the Key Operator and the System Administrator.

## How to define the default and the alternative display languages in the Océ Express WebTools

1. Select 'Preferences' - 'System properties' - 'Regional settings'.
2. Click the value for 'First language',  
or
3. Click 'Edit' in the 'Regional settings' bar to access a window for all regional settings.
4. Select the first display language that you can choose for the operator panel from the drop down list.
5. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.
6. Repeat the same steps to define a second display language for the operator panel.

# Enable account management in the Océ Express WebTools

## Introduction

To enable account management, you must define a number of settings in the 'Job management' settings group.

## Definition


Use the account management settings in Océ Express WebTools to link account information to your job. The account information requirements are defined and managed by the administrator in Océ Account Console (see: ['Summary of Océ Account Console' on page 243](#)).

## How to enable account management

Open the 'Preferences' - 'System properties' tab and click on 'Edit' in the 'Job management' settings group bar.

Setting	Value	Description
'Force entry of accounting data for print jobs'	'On'	When 'On', it will only be possible to print jobs that have valid accounting data. All print jobs will be forced to go to the 'Smart Inbox'. If you use Océ Publisher Express to send your print job, you must enter the required accounting data in the 'Workflow' section of the 'Create new job' window. If you want to print a job from a USB mass storage device, your USB print job is sent to the 'Smart Inbox' and you must enter the requested accounting data.
	'Off'	No accounting data is required for print jobs.

## Accounting data missing

If the required accounting data is missing, the  icon is displayed in front of the job in the 'Smart Inbox'. To enter the missing accounting data, select the job and click 'Edit'.

---

# Enable Print from USB

## Introduction

You can enable or disable 'Print from USB' in Océ Express WebTools.



**Note:**

The default setting for 'Print from USB' is 'Enabled'.

## Enable or disable 'Print from USB'

1. Go to 'Preferences' - 'System properties'.
2. In the 'Printer properties' block, look for the 'USB direct print' entry.
3. Click .
4. Choose 'Enabled' or 'Disabled' and click 'Ok' to confirm your entry or 'Cancel' to reject your entry.

## Configure the 'Media request timeout'

### Introduction

The operator panel displays a message with a media request when the requested media is not available on the printer.

- If the 'Media request timeout' setting is disabled, the media request will be displayed on the operator panel until it is resolved.
- When the 'Media request timeout' setting is enabled (default), you can enter a media request time-out value in seconds. If the media request is not resolved within the media request timeout period, the 'Action after media request timeout' setting determines if the printer either deletes the job from the job queue or puts the job in attention state.

### When to do

Enable the 'Media request time-out' setting if print productivity is an important factor.

### How to configure the 'Media request timeout'

In Océ Express WebTools:

1. Open the 'Preferences' - 'System properties' tab.
2. Click on 'Edit' in the 'Printer properties' section or click on the 'Media request timeout' setting.
3. When you enable the setting, you must enter a time period as well. If you choose to disable the setting, the time period will not be adjustable.
4. Click on 'Ok' to confirm or 'Cancel' to reject your entries.

### How to configure the 'Action after media request timeout'

In Océ Express WebTools:

1. Open the 'Preferences' - 'System properties' tab.
2. Click on 'Edit' in the 'Printer properties' section or click on the 'Action after media request timeout' setting.
3. Select 'Put the job on attention state' or 'Delete the job'.
4. Click on 'Ok' to confirm or 'Cancel' to reject your entries.

---

## Configure the 'Printer panel time-out'

### Introduction

The printer operator panel can automatically return to the Home screen. When this setting is disabled, the panel never returns to the Home screen automatically.



*Note:*

When enabled, the printer operator panel returns to the Home screen when the keys and the scroll wheel are not activated during the specified time-out period.

### When to do

Enable the setting and define a suitable time-out period that does not interfere with the print productivity.

### How to configure the 'Printer panel time-out'

1. Open the 'Preferences' - 'System properties' tab.
2. Click on 'Edit' in the 'Printer properties' section or click on the 'Printer panel time-out' setting.
3. When you enable the setting, you must enter a time period as well. If you choose to disable the setting, the time-out period will not be adjustable.
4. Click on 'Ok' to confirm or 'Cancel' to reject your entries.

# Configure Automatic wake-up

## Introduction

You can use Automatic wake-up to start up the printer automatically each workday. The wake-up time and workdays are configurable.

## How to configure Automatic wake-up

1. Click 'Preferences' - 'System properties'.
2. Click 'Edit' in the 'Printer properties' bar or click the value of the Automatic wake-up setting.
3. When you enable the setting, you must enter the following settings on the 'Printer properties' bar as well: 'Wake-up time', 'First working day' and 'Last working day'
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



---

# Configure the energy save modes of the Océ ColorWave 650 Poster Printer

## Introduction

The Océ ColorWave 650 Poster Printer offers two energy save modes that you can set if the printer is idle for a defined period. The configuration of the timers prevents unnecessary power consumption. You can adjust the value of the timers.

## When to do

Sleep mode timer (Default value 30 minutes).

The Océ ColorWave 650 Poster Printer uses minimal energy, because the power supply of the printer is turned off. The power supply of the embedded Océ ColorWave 650 Poster Printer controller ('Océ PowerM Plus controller') remains on. The printer needs to warm up when it wakes up from the sleep mode.

Energy save mode timer (Default value 1 minute).

Both the printer and the Océ ColorWave 650 Poster Printer controller remain turned on. The Océ ColorWave 650 Poster Printer uses less energy than in normal operating mode, but the printer uses more energy than in sleep mode. The advantage of the energy save mode over the sleep mode is that the printer usually needs just a few seconds to wake up. Only when the printer has not been used for more than 1 hour does the printer need more time to wake up.



### *Note:*

The value you set for the sleep mode timer must be higher than the energy save mode value. If the value of the sleep mode is lower than the energy save mode, the printer skips the energy save mode and goes into sleep mode. The power consumption will be lower but it will also take the printer a bit longer to wake up again.

## How to configure the time-out value of the energy save modes

1. Click 'Preferences' - 'System properties'.
2. Click 'Edit' in the 'Printer properties' bar or click the value of the 'Sleep mode time-out' setting or the 'Energy saving mode time-out' setting.
3. Enter a new value in the Edit window and click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



*Note:*

If you access the Edit window by clicking the value of the setting you want to change, the Edit window displays the minimal and maximal value you can select.



*Note:*

When the Océ ColorWave 650 Poster Printer is in the energy save mode, there are two ways to activate the system.

- press a key on the printer operator panel.
- send a job.

---

## Configure the media sizes

### Introduction

You must indicate in the Océ Express WebTools the following settings.

- The core size of the media rolls
- The media sizes



**Note:**

The media sizes and core sizes can only be edited by the Key Operator or Power User.

### How to define the core size of the media

1. Navigate to 'Configuration' - 'Printer setup' in the Océ Express WebTools.
2. Click 'Edit' in the 'Media' bar or click the value of the "Two-inch core used" setting if you also use 2 inch cores.  
The standard roll core size for the Océ ColorWave 650 Poster Printer is 3 inch. If "Two-inch core used" is enabled, the printer will ask the used core size when loading a media roll.
3. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

### How to define the media sizes

1. Navigate to the 'Support' - 'Media' tab in the Océ Express WebTools.
2. Click on the value of the 'Supported media sizes' setting. A new window opens.
3. Select a media series from the drop-down list. For each of the standard media series ('ANSI small', 'DIN', 'ANSI mixed' or 'DIN Carto') a set of media sizes is enabled.
4. You can enable or disable media sizes to fine-tune the system to your environment. The media series will then automatically change into a 'Custom' media series.
5. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



**Note:**

You cannot disable media sizes that are currently loaded on the printer.



**Note:**

When you load a media roll the printer automatically detects the roll width. If the detected roll width is not a standard width, the printer selects the next smaller roll width that is supported by the printer.



*Note:*

When you load a media roll with a size that was not yet enabled in the media series, the system automatically adds the new media size to the custom media series.

# Configure jobs

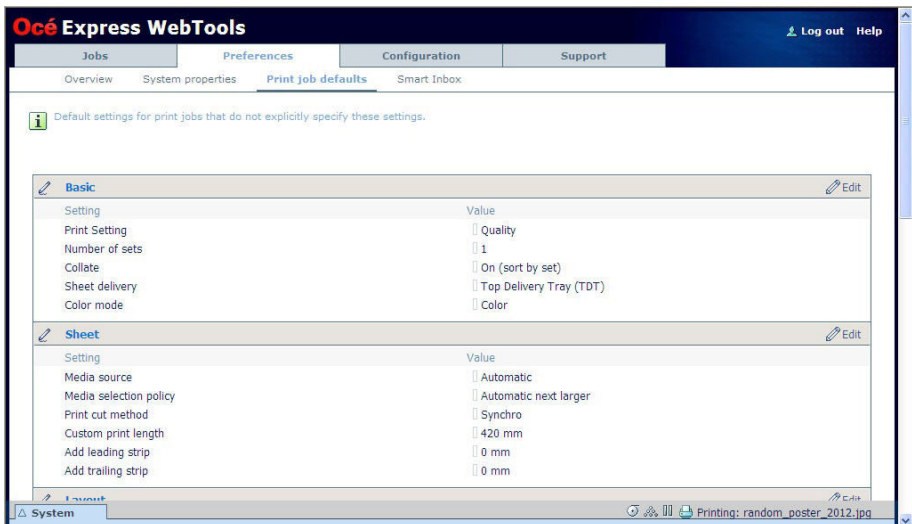
## Relevant settings in the Océ Express WebTools

### Set the default print job settings

#### Definition

You can use the Océ Express WebTools to configure the default values for the print job settings. The print job settings are grouped under the 'Preferences' - 'Print job defaults'. You can find a short explanation of the most important print job defaults below. When you define print job settings in the printer drivers or the job submission tools, these values always overrule the default values defined in the Océ Express WebTools.


#### Illustration



#### Overview of the 'Print job defaults' - 'Basic'

Editable for Key operator and Power user.

'Preferences' - 'Print job defaults' - 'Basic'

Setting	Description
'Number of sets'	Enter the default value for the number of times you want your jobs to be printed.
'Collate'	<ul style="list-style-type: none"> <li>■ Select 'On (sort by set)' if your printed output must be sorted by set (123 - 123).</li> <li>■ Select 'Off (sort by page)' if your printed output must be sorted by page (11 - 22 - 33).</li> </ul>
'Sheet delivery'	<ul style="list-style-type: none"> <li>■ Select 'Top Delivery Tray (TDT)' if your printed output must default be delivered in the Top delivery tray.</li> <li>■ Select 'External output (back)' if your printed output must default be delivered at the back of the printer. Select this option if you want to use the optional 'Receiving rack (basket)' or delivery tray.</li> </ul> <p> <b>Note:</b> If you use 2 inch core media, the output is always delivered at the back of the printer.</p>
'Color mode'	(see <i>'Set the 'Color mode' ' on page 269)</i>
'Print setting'	(see <i>'Set the 'Print setting' ' on page 270)</i>

**Overview of the 'Print job defaults' - 'Sheet'**

Editable for Key operator and Power user.

'Preferences' - 'Print job defaults' - 'Sheet'

Setting	Description
'Media source'	<p>The 'Media source' setting can be used to select the default output material and format. The 'System' screen of the printer operator panel will show you what rolls are currently loaded.</p> <p>You can select 'Automatic' or you can select a specific roll number that the Océ ColorWave 650 Poster Printer must use by default.</p>

Setting	Description
'Media selection policy'	<p>If you select 'Media source': 'Automatic' you can also set the 'Media selection policy' setting.</p> <p>When you select 'Automatic next larger' the printer automatically selects the media roll with the exact media size for your print job. If the media roll with the exact media size is not available the next larger media roll on the printer is selected.</p> <p>When you select 'Automatic exact fit' the printer automatically selects the media roll with the exact media size for your print job. If the media roll with the exact media size is not available a media request pops up.</p>
'Print cut method'	<ul style="list-style-type: none"> <li>■ Select 'Standard' to cut the print to a standard media size (DIN, ANSI, ...)</li> <li>■ Select 'Synchro' to cut the print at the end of the image. The system cuts at the measured length of the original times the scale factor.</li> <li>■ Select 'Custom' (numeric) to cut the print on a specified length. The print length is defined by value of the setting 'Custom print length'.</li> </ul>
'Custom print length'	Print length if the 'Print cut method' is set to 'Custom'.
'Add leading strip'	When you enter a value, the Océ ColorWave 650 Poster Printer adds a blank strip of the specified length at the beginning of the output.
'Add trailing strip'	When you enter a value, the Océ ColorWave 650 Poster Printer adds a blank strip of the specified length at the bottom of the output.

## Overview of the 'Print job defaults' - 'Layout'

Editable for Key operator and Power user.

'Preferences' - 'Print job defaults' - 'Layout'

Setting	Description
'Scale'	'Scales the image with a defined percentage or automatically to the media size.' (100% is no scaling)

Setting	Description
'Rotation'	'Rotates the image counterclockwise. Select one of the 'auto rotate' modes to print faster due to less media transport. Select 'auto rotate media saving' to use the media in the most efficient way.' (see <i>'Set the 'Rotation' mode'</i> on page 278)
'Alignment'	'Aligns the image on the media.' (see <i>'Set the 'Alignment' mode'</i> on page 279)
'Mirror'	'When 'on', the image is mirrored along the vertical axis (the media transport direction).'
'Horizontal shift'	'Shifts the image in the horizontal direction (after alignment to one of the positions given in 'Alignment').'
'Vertical shift'	'Shifts the image in the vertical direction (after alignment to one of positions given in 'Alignment').'



---

# Set the Color management settings

## Introduction

In most cases, you define the color management settings for a print job during the job submission process. You can select the color management settings in your print job submission application (Océ WPD or Océ Publisher Select) and if the Océ Job Ticket is enabled, these settings will overrule the default settings that you defined in the Océ Express WebTools. If a file is sent to the printer without any color management settings or if the Océ Job Ticket is disabled, the default color management settings in the Océ Express WebTools are used to get a good output result.

The color management settings give information to the printer how the output should be printed.

You can find more detailed information about color management issues in the following modules

- *'What is Color management?'* on page 280
- *'What is an input profile / standardization?'* on page 281
- *'What is Color feel?'* on page 284
- *'Definition of rendering intents'* on page 286
- *'What is an output profile?'* on page 291
- *'Color management settings in the Océ Express WebTools'* on page 292
- *'Color management settings and job submission'* on page 293
- *'Priorities in the color management settings'* on page 295
- *'Color management settings for TIFF and JPEG files' (RGB input)'* on page 297
- *'Color management settings for TIFF and JPEG files' (CMYK input)'* on page 298
- *'Color management settings for PostScript and PDF files (RGB input)'* on page 299
- *'Color management settings for PostScript and PDF files (CMYK input)'* on page 300

## Color management settings

The color management settings in the Océ Express WebTools are predefined settings that give an optimal output result for different file types.

Click 'Preferences' - 'Print job defaults' to define the following settings.

- 'Color management settings for TIFF and JPEG files'
- 'Color management settings for PostScript and PDF files'



# **Chapter 5**


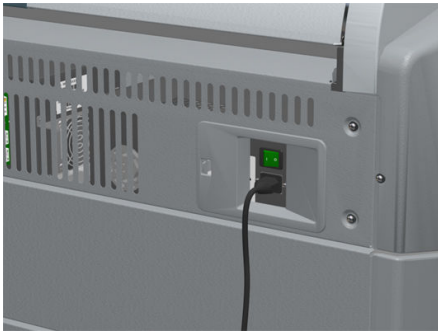
## **Use the printing system**

# The Océ ColorWave 650 Poster Printer

## Set up the printer

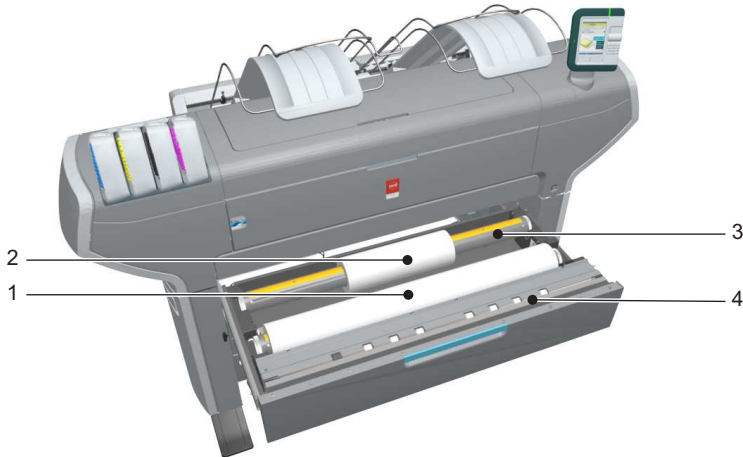
### Turn the printer on or off

#### How to turn the printer on or off

'On / Off switch'	Illustration
<p>One 'On / Off switch' is located on the front of the printer. Use it to turn the printer on or off in your daily work.</p>	<p>'On / Off switch' [19]</p> 
<p>The other 'On / Off switch' is the green main power switch at the back of the printer. Only use this switch when you need to connect or disconnect the main supply to the printer.</p> <p>To disconnect the main supply:</p> <ul style="list-style-type: none"><li>■ Use the green main power switch to turn off the printer.</li><li>■ Disconnect the main supply cable.</li></ul> <p>To connect the main supply:</p> <ul style="list-style-type: none"><li>■ Connect the main supply cable.</li><li>■ Use the green main power switch to turn on the printer.</li></ul>	

## The 'Media drawer'

### Illustration



### Component - function table



**Caution:**

Only use intact media rolls. Dented media rolls can damage the 'Imaging devices'.

No.	Component	Description / Function
1	'Roll' 1	Media roll 3 or 5 in other media drawers
2	'Roll' 2	Media roll 4 or 6 in other media drawers
3	'Roll holder'	Carries the media roll

No.	Component	Description / Function
4	'Roll loading station'	<p data-bbox="611 202 1093 265">Groove integrated behind the front cover of the media drawer.</p> <p data-bbox="611 269 1093 333">To load new media on the printer, the operator must proceed as follows</p> <ul data-bbox="611 336 1093 536" style="list-style-type: none"><li data-bbox="611 336 1093 400">■ place the new media roll temporarily on the roll loading station</li><li data-bbox="611 404 1093 467">■ insert the roll holder into the new media roll</li><li data-bbox="611 471 1093 536">■ place the roll holder with the new media roll in the correct roll position</li></ul>

## Load weight and ergonomic advice

### Ergonomic advice



**Caution:**

The maximum load weight per roll position is 20 kg (44 lb).

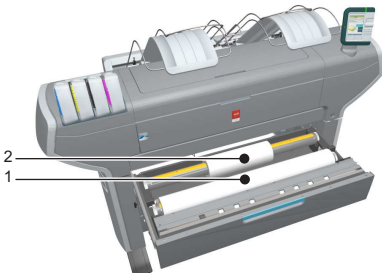


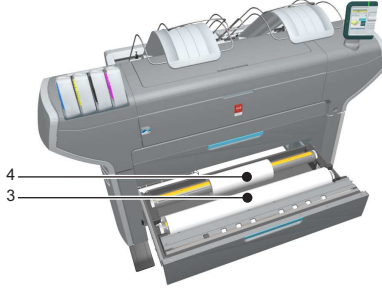
**Warning:**

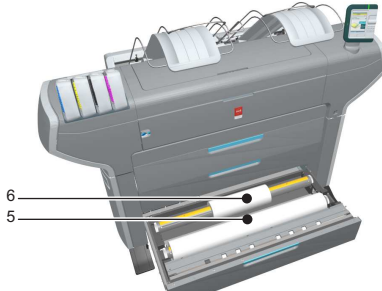
When lifting and positioning rolls weighing more than 10 kg (22 lb), always use two people.

Multiple front loadable rolls.

Multi-roll media feeding. 1 - 6 rolls (Free configurable).

	Roll	Maximum load weight per position
 <p>[150] Media drawer that contains the media roll 1 and/or 2.</p>	1	20 kg
	2	10 kg

	Roll	Maximum load weight per position
 <p>[151] Media drawer that contains the media roll 3 and/or 4.</p>	3	10 kg
	4	5 kg

	Roll	Maximum load weight per position
 <p>[152] Media drawer that contains the media roll 5 and/or 6.</p>	5	10 kg
	6	5 kg



## Unpack a media roll



**Caution:**

Handle the media roll with care. A dented media roll can damage the imaging devices.



**Caution:**

Please note down the media code (for example LFM090) indicated on the sticker on the media box. You need this code to select the correct media type on the printer operator panel.

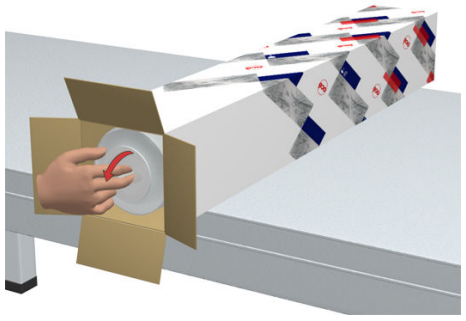
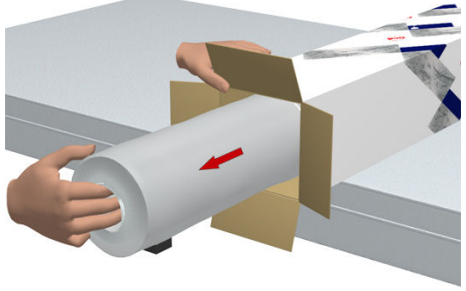


**Note:**

Always write the correct media name and media code inside the core, after you unpack the media roll. This way, if you replace a media roll before it is empty and you want to reuse it later, you will have the correct media information available.

### How to unpack a media roll

	Action	Illustration
1	Place the media box on a table and open it.	

	Action	Illustration
2	Remove the plug from the media roll.	 An illustration showing a hand reaching into a cardboard box to remove a white circular plug from a media roll. The media roll is partially visible, wrapped in clear plastic, and is secured by a white and blue striped strap. The box is open, and the hand is positioned to pull the plug out of the roll.
3	Carefully remove the media roll from the box.	 An illustration showing a hand carefully sliding a media roll out of a cardboard box. The media roll is wrapped in clear plastic and has a red arrow pointing to the right, indicating the direction of the roll. The hand is positioned to guide the roll out of the box.
4	Remove the other plug and the plastic around the media roll.	

---

## Load a media roll

### How to load a media roll

---

**Caution:**

Do not use dented media rolls to prevent damage to the imaging devices.

---

**Caution:**

Do not open the media drawer during the print process. When the last print is delivered, wait until the status light on the printer operator panel stops blinking before opening the media drawer.

---

**Caution:**

Do not open more than one media drawer at the same time to prevent overbalance of the printer.

---

**Caution:**

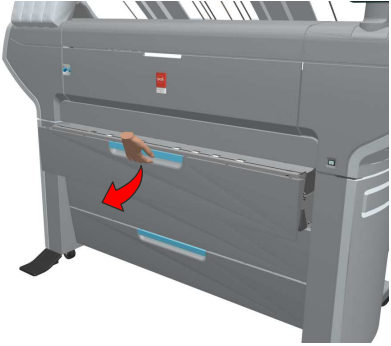

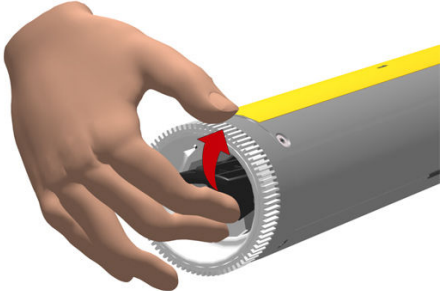
It is very important to select the media type with the correct media code (for example LFM090). You can find the media code of the new media roll on the sticker on the media box. The media code represents a specific media profile that the Océ ColorWave 650 Poster Printer uses to optimize the printed output for the corresponding media type. If the correct media code is not available on your printer operator panel, you must first make a new media profile available on the printer operator panel. (see *Make a new media profile available on the printer operator panel* on page 168)

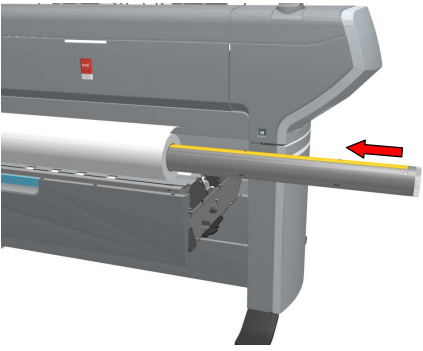
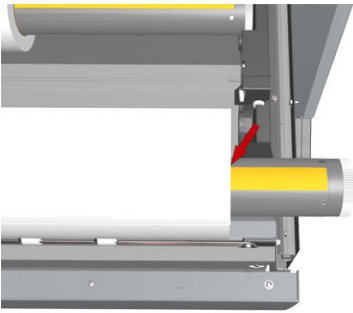
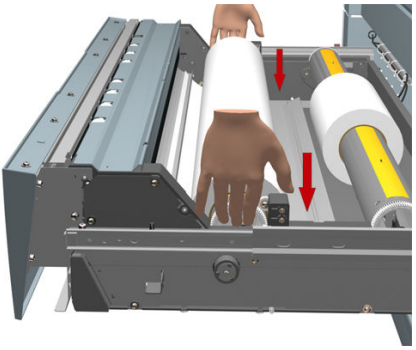
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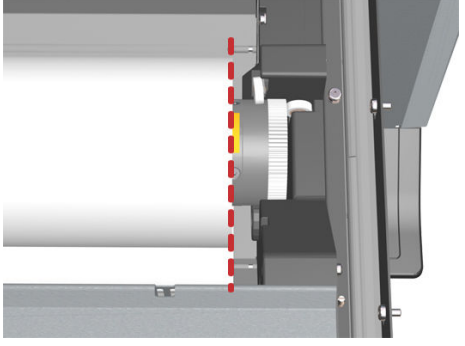
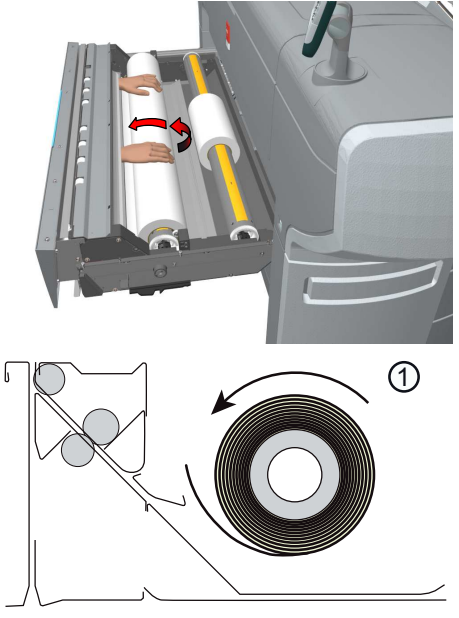
**Warning:**

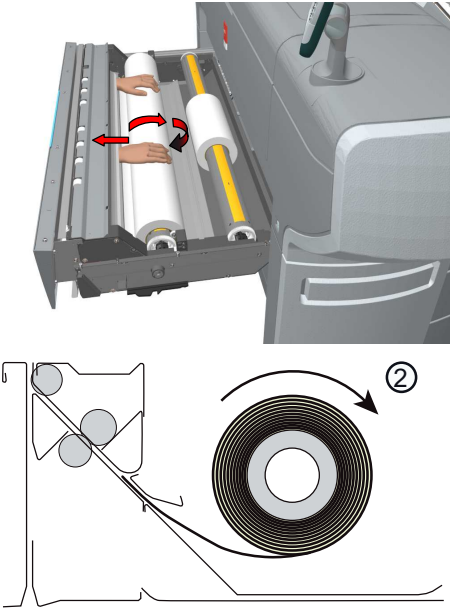

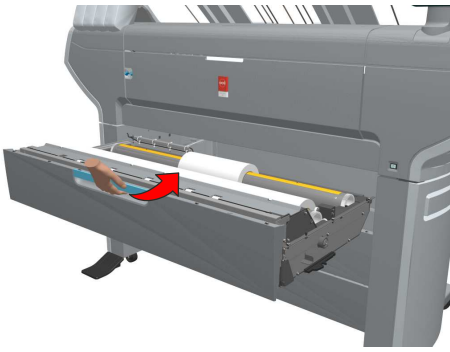
Watch your fingers when you handle the media roll.


---

	Action	Illustration
1	<p>Open the correct media drawer to load the new media roll.</p> <p><b>i</b> <i>Note:</i> Make sure you have written the correct media name and media core inside the core. This way, if you replace a media roll before it is empty and you want to reuse it later, you will have the correct media information available.</p>	 A 3D illustration of a large industrial printer. A hand is shown pulling open one of the front-loading media drawers. A red arrow points to the right, indicating the direction the drawer opens.
2	<p>Place the new media roll on the roll loading station.</p>	 A 3D illustration of the printer with the media drawer open. A roll of white media is being placed onto the roll loading station inside the drawer. A yellow line indicates the path of the media.
3	<p>Pull the handle of the roll holder locking mechanism towards you.</p>	 A close-up 3D illustration of a hand pulling a grey handle with a gear-like texture towards the viewer. A red arrow points to the right, indicating the direction of movement.

	Action	Illustration
4	Slide the roll holder in the core of the new media roll.	 A 3D illustration of a printer's media roll assembly. A grey roll holder is being pushed onto a yellow core of a white media roll. A red arrow points to the right, indicating the direction of insertion.
5	Align the roll with the correct size indicator on the roll holder (At the left and right hand side). Release the handle of the locking mechanism.	 A close-up 3D illustration of the roll holder assembly. A red arrow points to a locking handle on the right side of the roll holder, which is being released.
6	Remove the tapes from the new media roll. Use both hands (as indicated) to place the media roll in the media drawer.	 A 3D illustration showing a person's hands placing a media roll into a media drawer. Red arrows indicate the downward movement of the hands and the roll into the drawer.

	Action	Illustration
7	Keep the media tight on the roll and in line with the side edge.	
8	Use both hands to turn the media roll backwards until the media flap has passed the metal paper guide (1).	

	Action	Illustration
9	<p>Use both hands to slide the media under the metal paper guide. A "beep" confirms the correct paper transport (2).</p>	 <p>The illustration shows a top-down view of the media drawer being opened. A person's hands are shown sliding a roll of media under a metal paper guide. Red arrows indicate the direction of movement. Below this, a schematic diagram shows the media roll being guided into the drawer, with a circular arrow and the number 2 indicating the correct paper transport direction.</p>
10	<p>Close the media drawer.</p> <p> <b>Note:</b> Do not open the 'Media drawer' while the machine is loading the roll.</p>	 <p>The illustration shows the media drawer being closed. A red arrow points to the drawer handle, indicating the direction to push it shut.</p>

	Action	Illustration
11 / B	<p>The following screen appears on the printer operator panel.</p> <p><b>Note:</b> When you load a media roll the printer automatically detects the roll width. If the detected roll width is not a standard width, the printer selects the next smaller roll width that is supported by the printer.</p> <p><b>Note:</b> Configure the media type of the media roll you loaded.</p>	 <p>The illustration shows a printer operator panel screen. At the top right is a 'Next &gt;' button. Below it is a 'New media' section with a refresh icon. The text reads: 'New media detected on roll 1'. Below this is an instruction: 'Press 'Next' if the displayed media type is correct. If not, press 'Other media''. There is an icon of a roll of media and the text: 'Océ Black Label (LFM020) 3" core'. At the bottom right of the screen is an 'Other media' button.</p>



## Remove a media roll

### How to remove a media roll

**Caution:**


Do not open the media drawer during the print process. A padlock is displayed at the printer operator panel and the status light flashes.

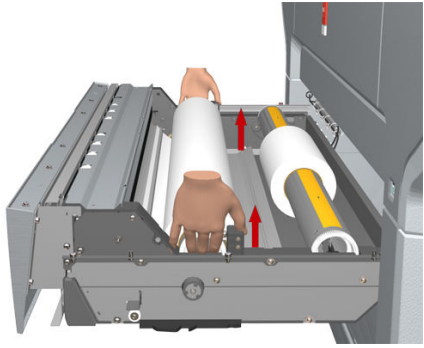
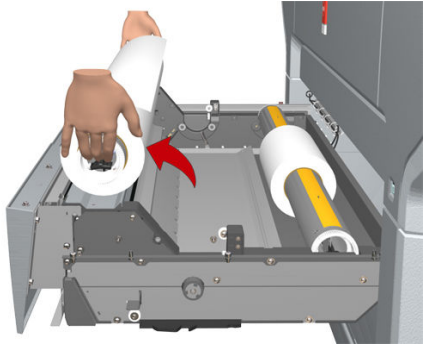
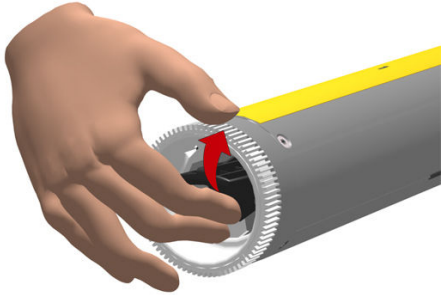
**Caution:**

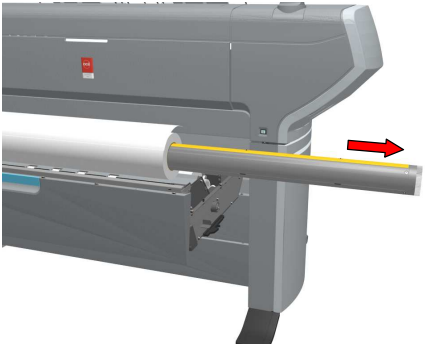
Do not open more than one media drawer at the same time to prevent overbalance of the printer.

**Warning:**

Watch your fingers when you handle the media roll.


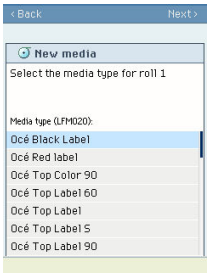
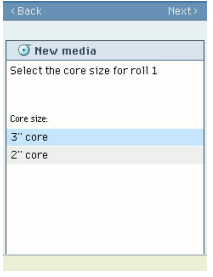
	Action	Illustration
1	Open the media drawer that contains the media roll that you want to remove.	


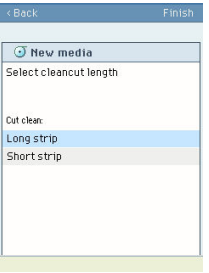


	Action	Illustration
2	Roll back the media manually to remove the media from the metal paper guide. Then, use both hands (as indicated) to lift the roll holder with the media roll.	
3	Put the roll holder with the media roll on the roll loading station.	
4	Pull the handle of the roll holder locking mechanism towards you.	

	Action	Illustration
5	Remove the roll holder from the core of the media roll.	 A 3D illustration of a printer's roll loading station. A grey roll holder is shown being pulled away from the core of a white media roll. A yellow line highlights the core, and a red arrow points to the right, indicating the direction of removal.
6	Remove the media roll from the roll loading station.	

# Define the media type and the core size

## How to define the media type and the core size

	Action	Illustration
1	<p>If the displayed media type and core size is correct you can press 'Next &gt;' and go to step 4. Otherwise, press 'Other media' and continue with step 2.</p>	
2	<p>Use the 'Scroll wheel' to select the correct media type from the list and confirm your entry with the 'Confirmation key'.</p> <p><b>Note:</b> If the correct media type is not available on your printer operator panel, you must first make a new media profile available on the printer operator panel. (see <a href="#">'Make a new media profile available on the printer operator panel'</a> on page 168)</p>	
3	<p>Use the 'Scroll wheel' to select the correct core size for your new media roll and confirm your entry with the 'Confirmation key'.</p> <p><b>Note:</b> The standard roll core size for the Océ Color-Wave 650 Poster Printer is 3".</p> <p><b>Note:</b> This step is displayed only when the setting 'Two-inch core used' is enabled.</p>	

	Action	Illustration
4	<p>Use the 'Scroll wheel' to select the clean-cut length for your new media roll and confirm your entry with the 'Confirmation key'</p> <p> <b>Note:</b> Select 'Long strip' for new media.</p>	
5	<p>Press 'Finish' and return to the 'Home' screen.</p> <p> <b>Note:</b> When the strip is cut, the new media is ready for use.</p>	

# The delivery destination

## Introduction

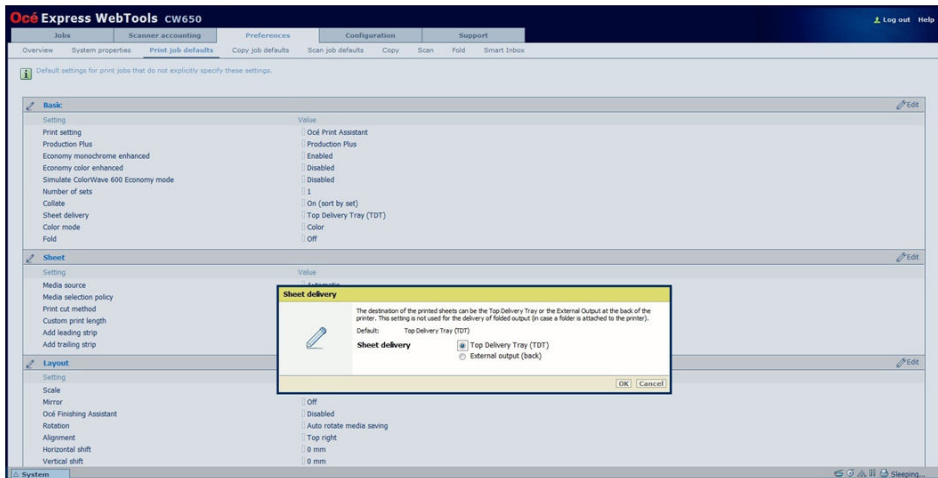
There are four factors that can influence the delivery destination of the printed output.

1. The media profile of the media you use.  
Some media profiles require a specific output delivery. If the correct media profile is available on your printer operator panel, the Océ ColorWave 650 Poster Printer automatically selects the correct output delivery.  
If the correct media is not available on your printer operator panel, you can download the media profile from the Océ website (see ['Download a media profile from the Océ website'](#) on page 254) and install the media profile to the 'Océ PowerM Plus controller' (see ['Install a media profile'](#) on page 255).
2. The media roll core size of the media you use.
3. The 'Sheet delivery' setting that you defined in the Océ Express WebTools.  
To set the default 'Sheet delivery', select the 'Preferences' - 'Print job defaults' tab.
4. When you define print job settings in the printer drivers or the job submission tools, these values always overrule the default values defined in the Océ Express WebTools.



### Note:

If your output is delivered through the 'External output (back)' (even if you set the 'Top delivery tray' as output location for your prints), please check whether Roll-to-Roll mode is enabled since Roll-to-Roll mode forces a 'Sheet delivery' through the 'External output (back)'.



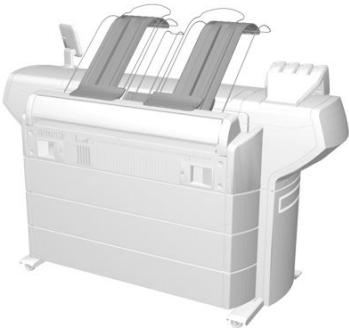
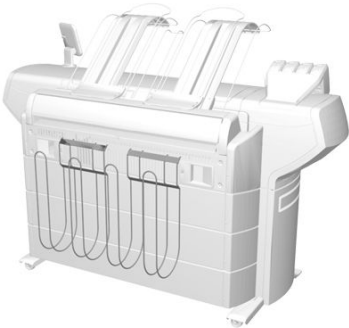
[179] 'Sheet delivery' in Océ Express WebTools

## The output delivery



### Caution:

The following table gives an overview of the common output delivery destination. If the media profile of the media you use requires a specific output delivery, the common delivery destination will be overruled.

When the media roll you use has a	and the default 'Sheet delivery' is	Then the printed output
3" roll core	'Top Delivery Tray (TDT)'	is delivered at the 'Top Delivery Tray (TDT)' 
3" roll core	'External output (back)'	is led through the slot below the 'Top back cover' at the back of the printer.
2" roll core	'Top Delivery Tray (TDT)' or 'External output (back)'.	

## Make a new media profile available on the printer operator panel

### How to make a new media profile available on the printer operator panel

1. Download the correct media profile from the Océ website. (see *'Download a media profile from the Océ website'* on page 254)
2. Install the correct media profile to the Océ ColorWave 650 Poster Printer embedded controller. (see *'Install a media profile'* on page 255)
3. Click the check box of a media profile and click the 'Enable' button in the toolbar above the media profiles list to make the media profile available on the printer operator panel.



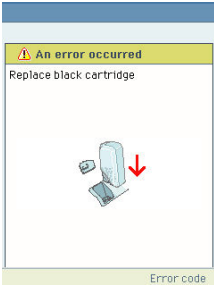

## Load or replace a toner cartridge


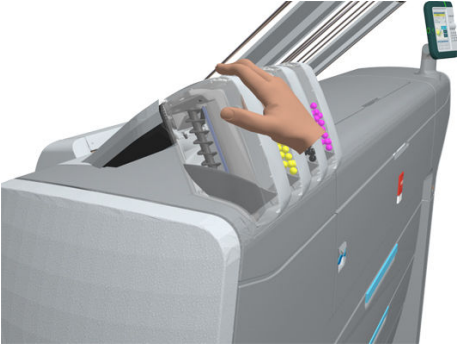

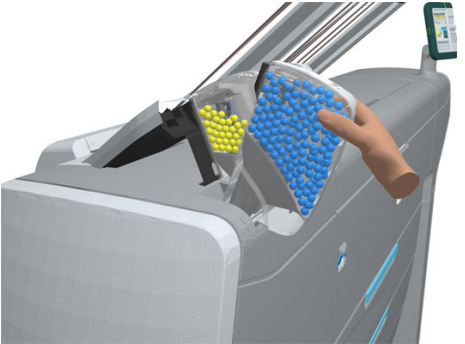
### Illustration




Nr	Component	Description / Function
9	'Toner cartridge' (cyan)	Toner cassette for cyan 'Océ TonerPearls®'
10	'Toner cartridge' (yellow)	Toner cassette for yellow 'Océ TonerPearls®'
11 / B	'Toner cartridge' (black)	Toner cassette for black 'Océ TonerPearls®'
12	'Toner cartridge' (magenta)	Toner cassette for magenta 'Océ TonerPearls®'

## How to load or replace a toner cartridge

	Action	Illustration
1	The printer operator panel displays a request when you must load or replace a toner cartridge.	 <p>The illustration shows a printer's operator panel displaying an error message. The message reads: "An error occurred" followed by "Replace black cartridge". Below the text is a small icon of a printer with a red arrow pointing down to the cartridge slot. At the bottom of the panel, it says "Error code".</p>
2	Use Poster Printer toner. Unpack the toner cartridge.  <i>i</i> <b>Note:</b> Please do not throw away the empty packaging of the new toner cartridge. This packaging is used as maintenance tray.	 <p>The illustration shows a rectangular, silver-colored toner cartridge. The top of the cartridge has a red label that reads "Océ TonerPearis PP Black". Below the label, the words "Poster Printer" are printed in a large, bold, black font with a splatter effect. The bottom of the cartridge features various icons and text, including a barcode and recycling symbols.</p>

	Action	Illustration
3	Remove the red transport clip.	 A photograph of a light grey toner cartridge. A red plastic transport clip is attached to the front-left side. The cartridge is shown from a slightly elevated angle, highlighting the red clip and the dark blue interior of the cartridge housing.
4	Remove the empty toner cartridge.	 A 3D illustration of a hand reaching into the open front of a printer. The hand is pulling out a grey toner cartridge. The printer's interior shows several slots for different colored cartridges (yellow, cyan, magenta, black). A smartphone is visible on the right side of the printer's top panel.
5	Place the new toner cartridge.   <b>Note:</b> You must place the toner cartridge in the correct color position. The toner cartridges have fixed positions.	 A 3D illustration of a hand placing a new blue toner cartridge into the printer. The cartridge is being inserted into the blue slot. The printer's interior shows the yellow and cyan slots. A smartphone is visible on the right side of the printer's top panel.

	Action	Illustration
6	<p>When the new toner cartridge is placed correctly, the following message is displayed on the printer operator panel.</p> <p>'Replace the maintenance tray. Use the packaging of the new toner cartridge.'</p> <p>Follow the instructions in the wizard. (see <i>'Replace the maintenance tray'</i> on page 173)</p>	 <p>The illustration shows a screenshot of a printer's operator panel. At the top, there is a 'Next &gt;' button. Below it, a message box titled 'Replace maintenance tray' contains the text: 'Replace the maintenance tray. Use the packaging of the new toner cartridge. Press 'Next' to start'. An illustration below the text shows a maintenance tray being inserted into the printer. At the bottom right of the message box, there is an 'OK' button.</p>


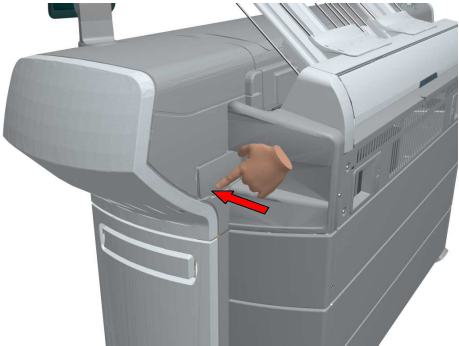
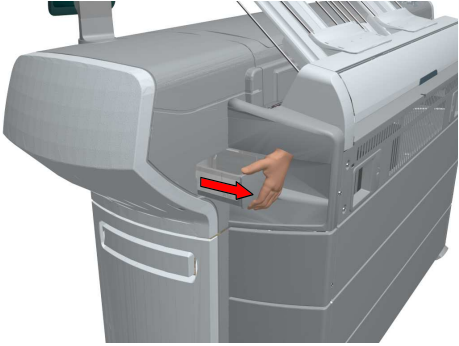
## Replace the maintenance tray

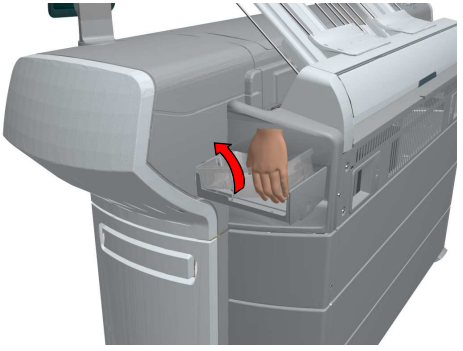
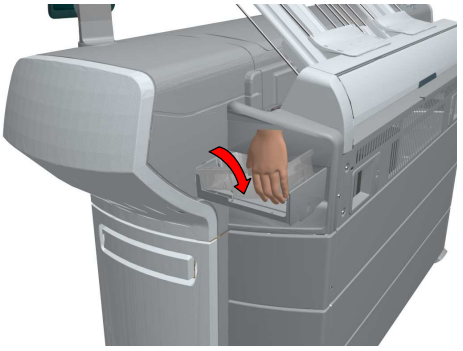
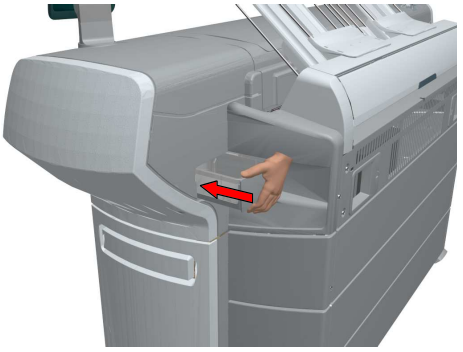
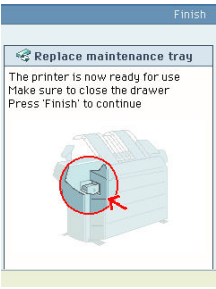
### Illustration



No.	Component	Description / Function
7	'Maintenance tray drawer'	When imaging devices start up in the morning, they need toner to reach a status where they can perform at maximum print quality. This is done with a so-called pressure pulse wipe sequence. The toner used to reach Ready-to-Print is gathered in the waste tray. During the course of the day, some toner is needed to keep the imaging devices in good shape.

## How to replace the maintenance tray

	Action	Illustration
1	The printer operator panel displays a request when you must replace the maintenance tray.	
2	Follow the instructions in the wizard.  <b>i</b> <i>Note:</i> Please note that the 'Maintenance tray drawer' is located at the rear side of the Océ ColorWave 650 Poster Printer printer. Push the 'Maintenance tray drawer' to open it.	
3	Pull the 'Maintenance tray drawer' open.	

	Action	Illustration
4	Lift the old maintenance tray out.	
5	Place the empty maintenance tray.	
6	Push the 'Maintenance tray drawer' shut.	
7	<p>When the new maintenance tray is positioned correctly, use the 'Upper right softkey' to continue.</p> <p>The old maintenance tray can be disposed of as part of regular office waste.</p>	


## Define the correct media for your jobs

### Definition

To achieve optimal output quality, make sure that you install and define the correct media type on the printer.

Make sure you define the correct media type for your job. Check if the media type (with the correct media size) that you defined in your job is available on the printer.

When productivity with different media sizes is the most important requirement.	
1	Load up to 6 media rolls on the printer with different media sizes and the same media type.
2	Use the 'Landscape' orientation to print a job on a media size that is one size smaller than the media defined on the system. For example, A1 prints in landscape on A0 and A2 prints in landscape on A1. You are not required to cut the media by hand.
3	Use the 'Auto rotate landscape' setting or the 'Auto rotate landscape with additional 180° rotation' in the Océ Express WebTools or the job submission tools to rotate the orientation automatically.

When productivity is the only important requirement.	
1	<p>Load and define two or more media rolls on the printer with the same media size and the same media type.</p> <p> <b>Note:</b> When roll 1 is empty, the printer switches automatically to roll 2.</p>



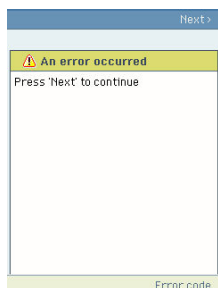
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# Solve problems with the printer

## Introduction

### Introduction

If there is a problem with the printer that the operator can solve, the printer operator panel displays the following message.



Please follow the instructions on the printer operator panel step by step. For additional information about some instructions or the location of specific covers or doors, please refer to the following modules:

- *'Open a cover or drawer'* on page 178.
- *'Pull up the 'Top delivery tray' and open the 'Top cover''* on page 181.
- *'Close the 'Top cover' and flap back the 'Top delivery tray''* on page 183.
- *'Cut the media'* on page 191

# Open a cover or drawer

## Introduction

The media drawers and certain covers must only be opened if you are asked to do so in a wizard on the printer operator panel.



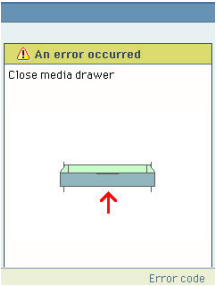
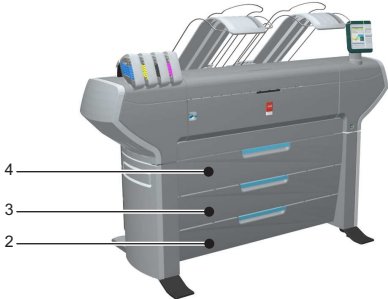
**Caution:**

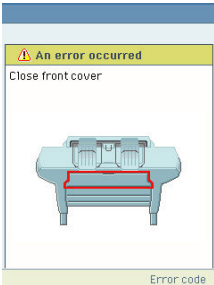

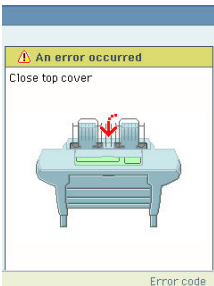

When you open one of the indicated covers or drawers while you are not in a wizard, the system produces a warning signal. The red LED on the printer operator panel illuminates.

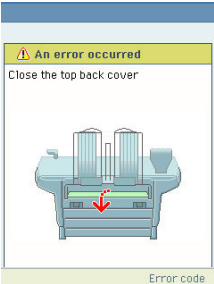



**Caution:**

When you open one of these covers or drawers during printing, the printer stops and the printer operator panel shows one of the warnings that are listed in the table below. Once you have closed, the indicated cover or drawer, the print is cut and the print job is sent to printer again.

Displayed warning	Position of the component
	<p>'Media drawer' [2, 3, 4]</p>  <p><b>Note:</b> Normally you open a media drawer to load or replace a media roll or in case of a media jam.</p>

Displayed warning	Position of the component
 <p>An error occurred Close front cover</p> <p>Error code</p>	<p>'Front cover' [6]</p>  <p>6</p> <p><b>Note:</b> Normally you open the front cover in case of a media jam.</p>
 <p>An error occurred Close top cover</p> <p>Error code</p>	<p>'Top cover' [14]</p>  <p>14</p> <p><b>Note:</b> Normally you open the top cover in case of a media jam to check the print surface (see '<a href="#">Check and clean the print surface</a>' on page 185).</p>


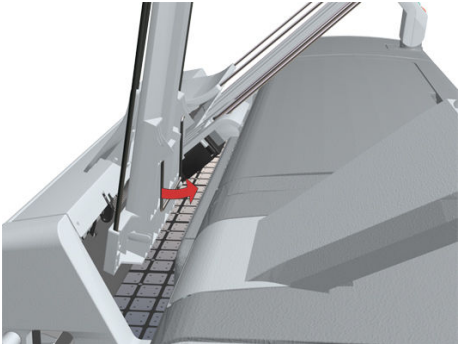
Displayed warning	Position of the component
 <p data-bbox="343 475 404 487">Error code</p>	<p data-bbox="568 203 786 234">'Top back cover' [9]</p>  <p data-bbox="577 653 1084 748"><b>Note:</b> Normally you open the top back cover in case of a media jam.</p>

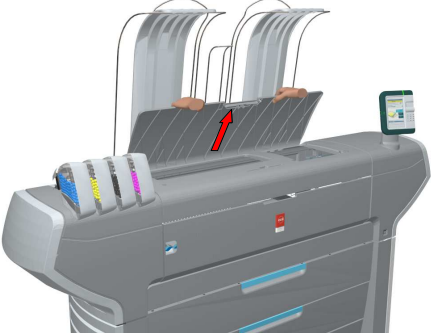
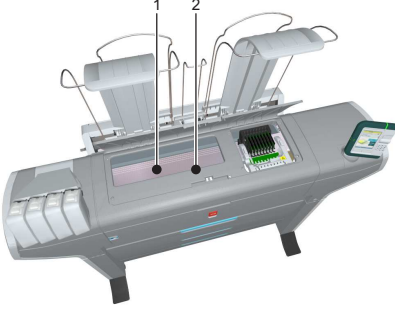
## Pull up the 'Top delivery tray' and open the 'Top cover'

### Introduction

If you want to check or clean the print surface, you need to pull the 'Top delivery tray' up and open the 'Top cover' delicately.

### How to pull up the 'Top delivery tray' and open the 'Top cover'

	Action	Illustration
1	Pull up the left part of the top delivery tray.	
2	Lock the left part of the top delivery tray with the metal locking mechanism. Repeat step 1 and 2 for the right part of the top delivery tray.	

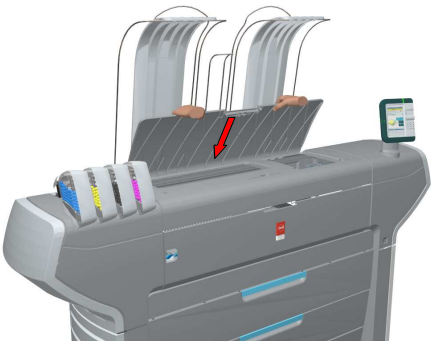
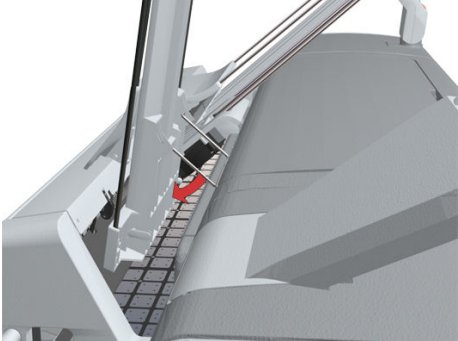
	Action	Illustration
3	Open the 'Top cover'.	 A 3D illustration of a grey printer. The top cover is shown in an open position, hinged upwards. A red arrow points to the top edge of the cover, indicating the direction to pull it up. The printer has a control panel on the right side and a paper tray on the left.
4	<i>'Check and clean the print surface'</i> on page 185 [1].	 A 3D illustration of the same printer, viewed from a slightly different angle. The top cover is open. Two vertical lines with circular heads at the bottom point to specific locations on the print surface. Line 1 points to the left side, and line 2 points to the right side. The printer's control panel and paper tray are also visible.



## Close the 'Top cover' and flap back the 'Top delivery tray'

### Introduction

Once you have checked and cleaned the print surface, you want to close the 'Top cover' and place the 'Top delivery tray' back in its right position.

### If you are ready

	Action	Illustration
1	Close the 'Top cover'.	
2	Unlock the metal locking mechanisms of the left and the right part of the 'Top delivery tray'.	

	Action	Illustration
3	<p>Flap back the left part and the right part of the top delivery.</p> <p> <b>Note:</b> If the left part and the right part of the 'Top delivery tray' are not in the same position, you can adjust the 'Top delivery tray'. (see <a href="#">'Adjust the 'Top delivery tray'' on page 188</a>)</p>	



## Check and clean the print surface

### Introduction

The print surface must be checked and cleaned regularly. Cleaning the print surface can also help to resolve an error.

### When to do

When a media jam occurs or when there is pollution on your printed output, one of the steps to solve the problem is to clean the print surface.

### Required tool

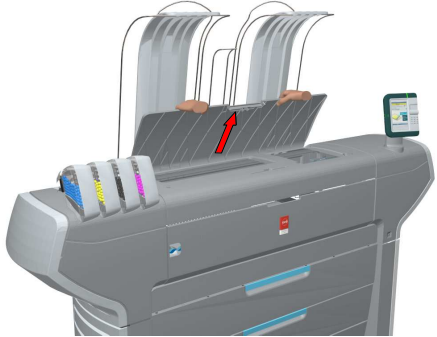
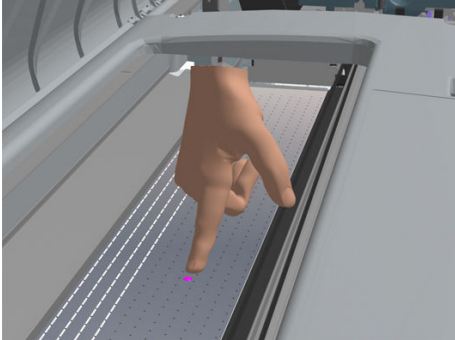

- Clean card

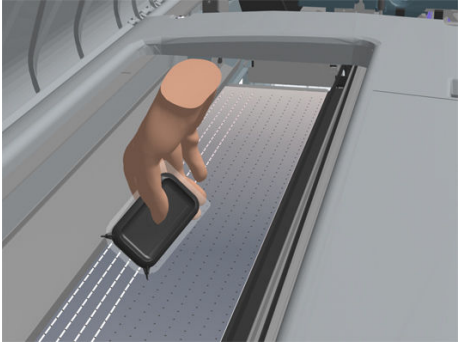
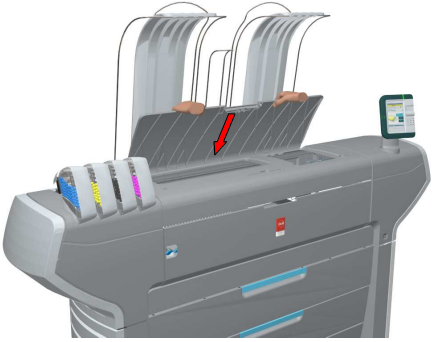
### Illustration



[213] Clean card

## How to check and clean the print surface

	Action	Illustration
1	Remove the top delivery tray and open the 'Top cover'. (see <i>'Pull up the 'Top delivery tray' and open the 'Top cover''</i> on page 181)	 An illustration of a large-format printer with its top cover open. A red arrow points upwards from the top cover, indicating the direction to pull it up. The printer has several paper trays on the left and a control panel on the right.
2	Check whether there are toner drops on the print surface.	 A close-up illustration of the printer's print surface. A hand is pointing to a small, bright pink dot on the surface, representing a toner drop. The surface has a grid of small holes.
3	Remove the toner with the clean card. The pollution should be removed from the print surface, into the direction of the 'Top left cover'. You can find the clean card in the clean card holder underneath the 'Top cover' (left-hand side).	 A close-up illustration of the printer's print surface. A hand is using a black plastic clean card to wipe the surface. The card is being moved from right to left, as indicated by a white arrow. The toner drop is being pushed towards the left side of the surface.

	Action	Illustration
4	Check if the holes in the print surface are open. If not: Use the pins of the clean card to open the holes.	 A close-up illustration of the printer's print surface. A hand is shown holding a black clean card with two orange pins. The hand is using the pins to push up the small holes in the perforated metal surface. The print surface is a long, narrow tray with a grid of small holes.
5	Place the clean card back in the clean card holder.	
6	Close the top cover and replace the top delivery tray. (see <i>'Close the 'Top cover' and flap back the 'Top delivery tray' on page 183</i> )	 An illustration of the printer from a side-front perspective. The top cover is closed. The top delivery tray is shown in a flap-back position, indicated by a red arrow. The printer has a control panel on the right side and a paper tray on the left side.

## Adjust the 'Top delivery tray'

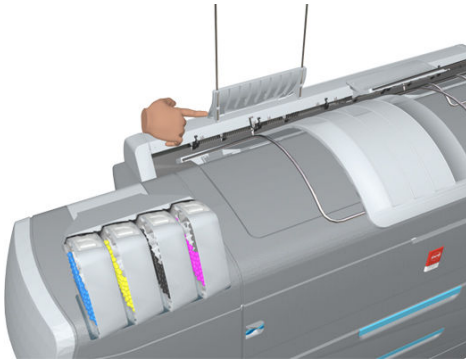
### Introduction

It is sometimes necessary to adjust the 'Top delivery tray' in order to get the best performance.

### When to do

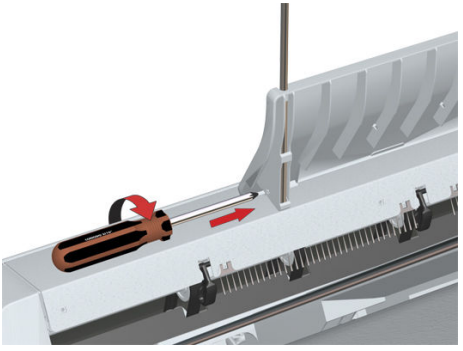
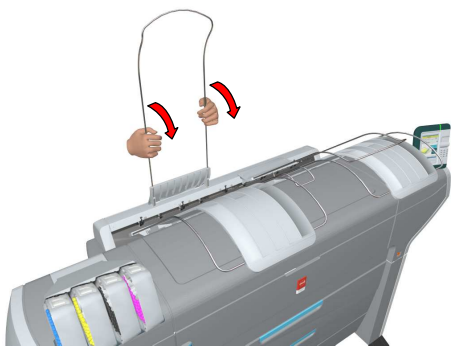
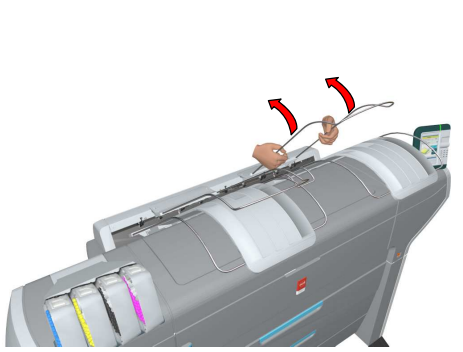
If your prints are curling up, you can adjust the 'Top delivery tray'. The right adjustment will stop the printed output from curling.

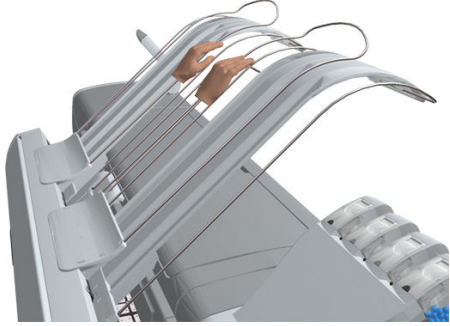
### Illustration



### How to adjust the Top delivery tray

	Action	Illustration
1	Pull up the metal guide of the 'Top delivery tray'.	A 3D illustration of the printer's top delivery tray, similar to the one above. Two red arrows point upwards from the metal guides on the left side, indicating the direction to pull them up. A hand is shown at the top of the tray.

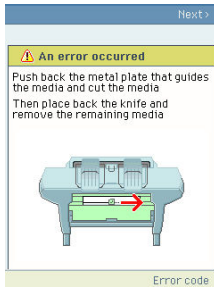
	Action	Illustration
2	Use your finger or the cross screwdriver to adjust the position of the metal guide (both sides).	 A close-up illustration of the top delivery tray mechanism. A metal guide is being adjusted. A red arrow points to the right, indicating the direction of adjustment. A screwdriver is shown inserted into a slot on the side of the metal guide, with a red arrow indicating the direction of rotation.
3	Flap the metal guide back in order to check whether the adjustment is correct.	 An illustration of the top delivery tray mechanism. A hand is shown flapping the metal guide back. Red arrows indicate the direction of movement.
4	Repeat step 1 to 3 for the second metal guide.	 An illustration of the top delivery tray mechanism. A hand is shown adjusting the second metal guide. Red arrows indicate the direction of movement.

	Action	Illustration
5	<p>Check if both metal guides are in the same position. Check whether they are parallel to the top delivery plates below the guides. Adjust the positions of the guides if necessary.</p>	 An illustration showing a person's hands adjusting a metal guide on the top delivery tray of a printer. The tray is tilted upwards, and the hands are positioned to move a curved metal guide. Below the tray, several sheets of paper are visible, stacked in a tray.

## Cut the media

### Introduction

When a media jam occurs, one of the steps to solve the problem is to cut the jammed media. The printer operator panel displays the following message.



### How to cut the media

	Action	Illustration
1	Use your right hand to push down the metal plate that guides the media. Use your left hand to cut the media from left to right with the knife behind the front cover.	<p>The illustration shows a close-up of the printer's media path. A hand is shown pushing down on a metal plate (indicated by a red arrow and the number 1). Another hand is shown using a knife to cut the media from left to right (indicated by a red arrow and the number 2).</p>
2	Again, push down the metal plate that guides the media to place the knife back into the original position.	
3	Follow the instructions on the printer operator panel.	

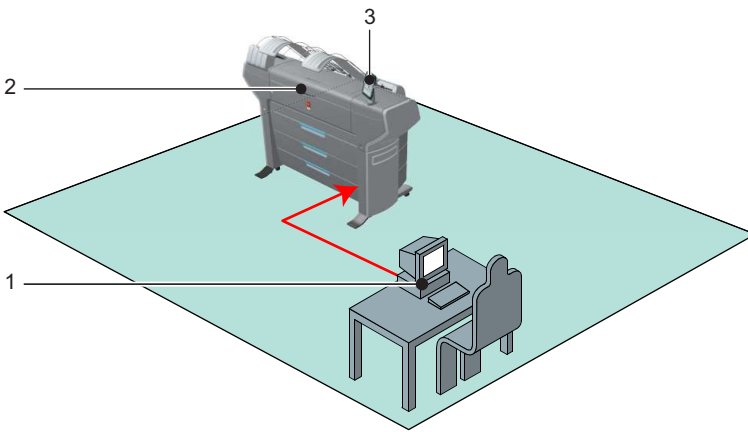
# Print jobs

## Create, manage and print jobs

### Introduction

In a normal workflow environment you can identify several components that enable you to create, manage and print jobs.

### Illustration



No.	Function	Component	Application
1	Create and manage jobs	Océ Express WebTools	<ul style="list-style-type: none"><li>■ 'Océ Publisher Express'</li><li>■ Access to 'Queue' and Smart Inbox</li></ul>
		Workstation / server	<ul style="list-style-type: none"><li>■ ONYX ProductionHouse</li><li>■ ONYX PosterShop</li><li>■ 'Océ Publisher Select'</li><li>■ Océ WPD</li><li>■ Océ PostScript® 3 Driver</li></ul>
2	Print jobs	Océ ColorWave 650 Poster Printer	



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No.	Function	Component	Application
3	Manage jobs	Printer operator panel	■ Access to 'Queue' and Smart Inbox

**Note:**

Detailed information about job submission applications and Océ printer drivers can be found in

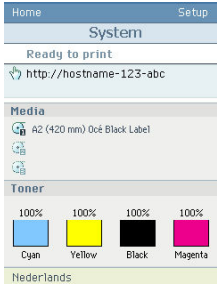
- the ONYX ProductionHouse documentation
- the ONYX PosterShop documentation
- the Océ WPD2 Online Help
- the Océ WPD2 User manual
- the Océ PostScript® 3 Driver Online Help
- the 'Océ Publisher Select' Online Help
- the 'Océ Publisher Select' User manual

# The system monitor and the system states

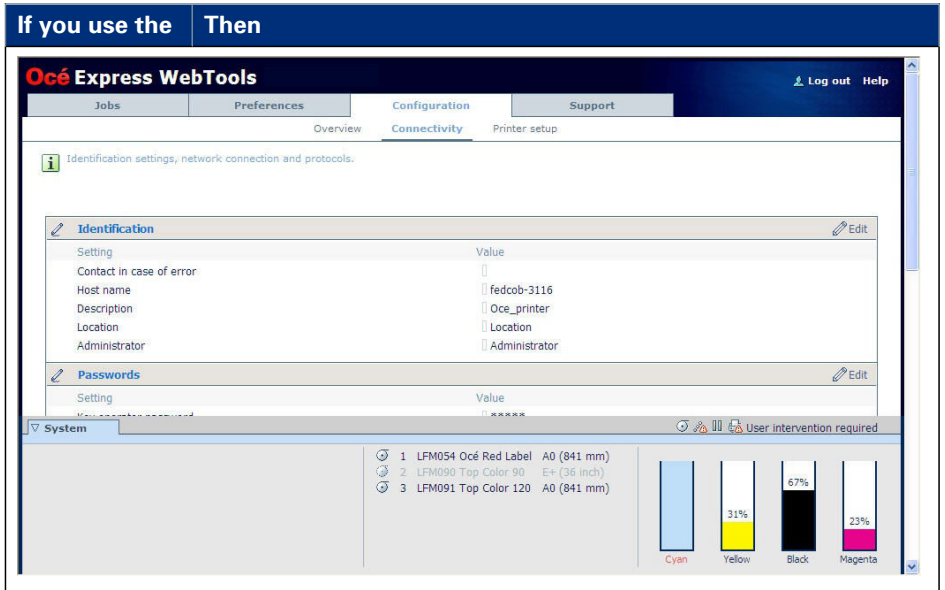
## Introduction

You can activate the system monitor to get an overview of the current status of the printing system.

## How to activate the system monitor

If you use the	Then
Printer operator panel	From the 'Home' screen select 'System' with the 'Lower left softkey'.
	

If you use the	Then
Océ Express WebTools	Click on the 'System' tab in the lower left corner of the screen. The system monitor pops-up.



## How to view the system states













The system states provide you with additional information about the printer. The system state messages are displayed on the printer operator panel and in the Océ Express WebTools.

1. On the printer operator panel.  
The system state (for example: 'Ready to print') is displayed on the 'Home' screen of the printer operator panel.





2. In the Océ Express WebTools.  
The system state (for example: 'Printing:') is displayed in the upper right corner of the system monitor section of the Océ Express WebTools.



## Overview of the system states

State	Icon	Description
'User intervention re-quired'		The user is requested to go to the printer and follow the instructions displayed on the operator panel.
'System memory is full'		Status message when printer does not print because the system memory is full.
'Out of toner'		Status message when printer does not print because the printer is out of toner.
'Sleeping...'		Energy saving state: State when not all functionality is available due to printer sleeping.
'Warming up...'		State when not all functionality is available due to printer warming up.
'Initializing...'		State when the system software is initializing.
'Printer paused'		The system pauses the print queue but keeps access to all other functionality.
'Processing...'		The system is receiving or processing data.
'Ready to print'		State when there is no active job and no waiting job. When a job arrives, no user intervention is needed to start printing.
'Printing:' <job-name>		State when a print job is active.
'Processing:' <job-name>		The system is processing the job data.
'Receiving:' <job-name>		The system is receiving the job data.


## The toner states

Icon	Description
	Toner OK
	Toner low, empty or cartridge not present.


## Remote service states

Icon	Description
no icon	'Remote Service' is either disabled or enabled and connected to Océ.
	'Remote Service' is enabled, but could not connect to Océ.
	Remote assistance to the system is enabled and currently accepting a connection.

## The E-shredding states

Icon	Description
no icon	E-shredding is disabled.
	E-shredding is enabled or busy. A tooltip is available with extra information.

## The Roll-to-Roll states

Icon	Description
no icon	The system is in Roll-to-Sheet mode
	The system is in Roll-to-Roll mode. The printer will not cut between pages. The take-up unit can be used.

# Set up print jobs

## What you need to know before you send your print jobs

### Definition

Before you send print jobs to the Océ ColorWave 650 Poster Printer, remember the following.

- The values defined in the Océ Express WebTools are default values for the general system behavior. You can define a number of job settings in the Océ printer drivers or the Océ job submission tools. The settings defined in the printer drivers or the job submission tools always overrule the settings defined in the Océ Express WebTools.
- Make sure that you define the correct print setting mode for your job.  
(see *'Set the 'Print setting' ' on page 270*)
- Make sure that you define and load the correct media for your job.  
(see *'Overview of the media related settings' on page 248*)
- Make sure that you define the correct job settings. For example, orientation, rotation, and media type.



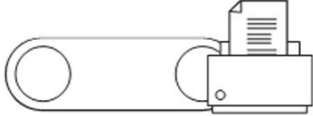

### Note:

When the requested media type is not available on the printer, the printer will give a media request. Depending on the 'Media request time-out' settings in the Océ Express WebTools (see *'Configure the 'Media request timeout' ' on page 134*), the printer waits until the media is loaded or the print job will be sent to the queue (hold to) after the time-out has expired.

## The 'Smart Inbox' and Jobs Queue concept

### Definition

You can use the 'Smart Inbox' for customized job management.

Concept	The Jobs Queue	The Smart Inbox
Metaphor	Production belt 	Personal mailboxes 
User intention	<ul style="list-style-type: none"> <li>■ get the job printed as soon as possible</li> </ul>	<ul style="list-style-type: none"> <li>■ send jobs to the system</li> <li>■ organize jobs</li> </ul>
Used to	<ul style="list-style-type: none"> <li>■ get feedback of printer progress</li> <li>■ cancel requests</li> <li>■ change priority (local)</li> </ul>	<ul style="list-style-type: none"> <li>■ keep together sets of documents from various origins</li> <li>■ organize documents over various Smart Inboxes, to easily retrieve jobs</li> <li>■ reprint jobs or change settings of jobs that are already sent to the printer</li> </ul>

### Jobs in a Smart Inbox

You can use Smart Inboxes to manage your jobs. When you open the 'Jobs' tab in the Océ Express WebTools the Smart Inbox section displays an overview of the Smart Inboxes. Define one or more Smart Inbox names that allow you to easily organize and access your jobs.

All print jobs sent via printer drivers, applications or one of the Océ Publisher job submitters are placed in a Smart Inbox.

In the printer driver, application or job submitter you can select the Smart Inbox you want to print to. The 'Preferences' - 'System properties' - 'Job management' - 'Override destination of print jobs' setting determines whether a job is also sent to the jobs queue

immediately. When a print job is kept in the Smart Inbox, you can start the print job manually on the printer operator panel or in the Océ Express WebTools.

### Smart Inbox functionality

#### 'View job information'

To view the job information click on the job name in the Smart Inbox.

#### 'Delete'

To delete a job from the Smart Inbox select the job and click 'Delete'.

#### 'Edit'

To edit the job settings of a job select the job and click 'Edit'. A window opens where you can change a limited number of job settings.

#### 'Print'

To print a job select the job and click 'Print'. The job is copied to the Jobs Queue. The job remains in the Smart Inbox. The 'Preferences' - 'System properties' - 'Job management' - 'Keep completed jobs in the Smart Inbox' setting determines if jobs that have been printed will be kept in the Smart Inbox for reprint or not.



#### *Note:*

The icon in front of the job name provides status information about the job. Detailed information about the status is displayed in the tooltip.



#### *Note:*

When a Smart Inbox contains many jobs you can sort the jobs by clicking on a column name (for example: 'Job name' or 'Time created'). You can also change the display method of the jobs in the Smart Inbox. Select 'List view' if you want to display all jobs. Select 'Group view' if you want to display only the groups of your sort criterion in the Smart Inbox.

#### 'Delete all'

If you click 'Delete all' in the 'View all' Smart Inbox all jobs are deleted from all Smart Inboxes.



#### *Note:*

The 'View all' Smart Inbox is only available if you enable the 'Preferences' - 'System properties' - 'Job management' - 'Display a view on all Smart Inbox jobs' setting.



## Job Queue functionality

### 'View job information'

To view the job information click on the job name in the queue.

### 'Top'

To increase the print priority of a job in the queue you can select the job and click 'Top' to place the job on top of the queue.

### 'Delete'

To delete a job from the Job Queue select the job and click 'Delete'.

### 'Delete all'

To empty the Jobs Queue completely, click on the 'Delete all' button.



#### *Note:*

The icon in front of the job name provides status information about the job. Detailed information about the status is displayed in the tooltip.



#### *Note:*

When a job is printed, the job is removed from the Jobs Queue.

# Use Smart Inboxes in a multiple-user environment

## Introduction

A multiple-user environment is a working environment where users directly send jobs to the printer and collect their own prints. In this environment it is important for a user to have easy access to his personal jobs.

## Illustration



## How to set up the Smart Inboxes in a multiple-user environment

1. Open the 'Preferences' - 'System properties' tab and select 'Edit' in the 'Job management' bar.
2. Enter the following values (example).

Setting	Value
'Restrict remote actions on jobs to the operator'	<input type="checkbox"/>
'Create print job via Publisher Express'	<input checked="" type="checkbox"/>
'Remote Smart Inbox view'	<input checked="" type="checkbox"/>
'Display Smart Inboxes on printer panel'	<input checked="" type="checkbox"/>
'Display a view on all Smart Inbox jobs'	<input type="checkbox"/>
'Keep completed jobs in the Smart Inbox'	<input checked="" type="checkbox"/>

Setting	Value
'Expiration time-out for Smart Inbox jobs'	For example: 48 hours
'Override destination of print jobs'	'No, as specified in the job ticket'
'Default destination of print jobs'	'To queue and Smart Inbox'
'Default Smart Inbox'	'Public'

# Use Smart Inboxes in a repro environment

## Introduction

A repro environment is a work environment where a repro operator handles all the jobs. In this environment the repro operator can use the 'Smart Inbox' to organize his daily work.

## Illustration



## How to set up the repro workflow

1. Open the 'Preferences' - 'System properties' tab and select 'Edit' in the 'Job management' bar.
2. Enter the following values (example).

Setting	Value
'Restrict remote actions on jobs to the operator'	<input checked="" type="checkbox"/>
'Create print job via Publisher Express'	<input type="checkbox"/>
'Remote Smart Inbox view'	<input checked="" type="checkbox"/>
'Display Smart Inboxes on printer panel'	<input checked="" type="checkbox"/>
'Display a view on all Smart Inbox jobs'	<input checked="" type="checkbox"/>
'Keep completed jobs in the Smart Inbox'	<input checked="" type="checkbox"/>

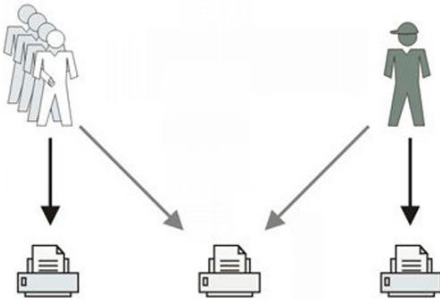
Setting	Value
'Expiration time-out for Smart Inbox jobs'	For example: 48 hours
'Override destination of print jobs'	'Only to Smart Inbox'
'Default destination of print jobs'	'Only to Smart Inbox'
'Default Smart Inbox'	'Public'

# Use Smart Inboxes in a multiple-user and repro environment

## Introduction

A multiple-user and repro environment is a working environment where both users directly send jobs to the printer and collect their own prints and the system is also used by a repro operator. In this environment it is important for a user to have easy access to his personal jobs, but it is also important for the repro operator to have an overview of all jobs.

## Illustration



## How to set up the end-user and repro workflow

1. Open the 'Preferences' - 'System properties' tab and select 'Edit' in the 'Job management' bar.
2. Enter the following values (example).

Setting	Value
'Restrict remote actions on jobs to the operator'	<input checked="" type="checkbox"/> Depends on customer requirements
'Create print job via Publisher Express'	<input checked="" type="checkbox"/>
'Remote Smart Inbox view'	<input checked="" type="checkbox"/>
'Display Smart Inboxes on printer panel'	<input checked="" type="checkbox"/>

---

Setting	Value
'Display a view on all Smart Inbox jobs'	<input checked="" type="checkbox"/>
'Keep completed jobs in the Smart Inbox'	<input checked="" type="checkbox"/>
'Expiration time-out for Smart Inbox jobs'	For example: 48 hours
'Override destination of print jobs'	'No, as specified in the job ticket'
'Default destination of print jobs'	'To queue and Smart Inbox'
'Default Smart Inbox'	'Public'

## Open or create a Smart Inbox

### Open or create a Smart Inbox in the 'Smart Inbox' section

1. Select the 'Jobs' tab.
2. In the 'Smart Inbox' section click 'Open Smart Inbox'.
3. Click on the blank field to open a drop-down list with all Smart Inboxes available on your system that contain one or more jobs. You can open an existing Smart Inbox from the list or you can type the name of a new Smart Inbox.
4. Press **Enter** or click on 'Smart Inbox'.  
The Smart Inbox is now displayed in the 'Smart Inbox' section.

### Open or create a Smart Inbox in Océ Publisher Express

1. Select the 'Jobs' tab.
2. Click on 'Create new job' in the Océ Publisher Express section.
3. In the 'Workflow' section click on the Smart Inbox field to open a drop-down list with all Smart Inboxes available on your system that contain one or more jobs. You can open an existing Smart Inbox from the list or you can type the name of a new Smart Inbox.
4. Click 'Ok' to send the print job to the Smart Inbox.  
The Smart Inbox is now displayed in the 'Smart Inbox' section.



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## Delete a 'Smart Inbox'

### How to delete a Smart Inbox

1. Select the 'Jobs' tab.
2. To delete a Smart Inbox click on the X - button at the right side of the 'Smart Inbox' bar.



*Note:*

When you delete a 'Smart Inbox', you only delete the view on the 'Smart Inbox', but not the content. To permanently delete the jobs from a 'Smart Inbox' you must select the jobs in the 'Smart Inbox' and click 'Delete'.

## Use ONYX Workflow Software to send a print job

ONYX ProductionHouse or ONYX PosterShop offers powerful and reliable print workflow solutions, like automated print-and-cut workflow, superior color profiling and improved file management. These applications also have a driver for the Océ ColorWave 650 Poster Printer.



**Note:**

More information about how to install, configure and use ONYX ProductionHouse or ONYX PosterShop is available in the documentation of these products. Enter the correct settings in ONYX ProductionHouse or ONYX PosterShop to send a print job to the Océ ColorWave 650 Poster Printer

Setting	Value
port type	"TCP/IP Printer"
port name	"CW"

## Use Océ Publisher Express to send a print job

### Introduction

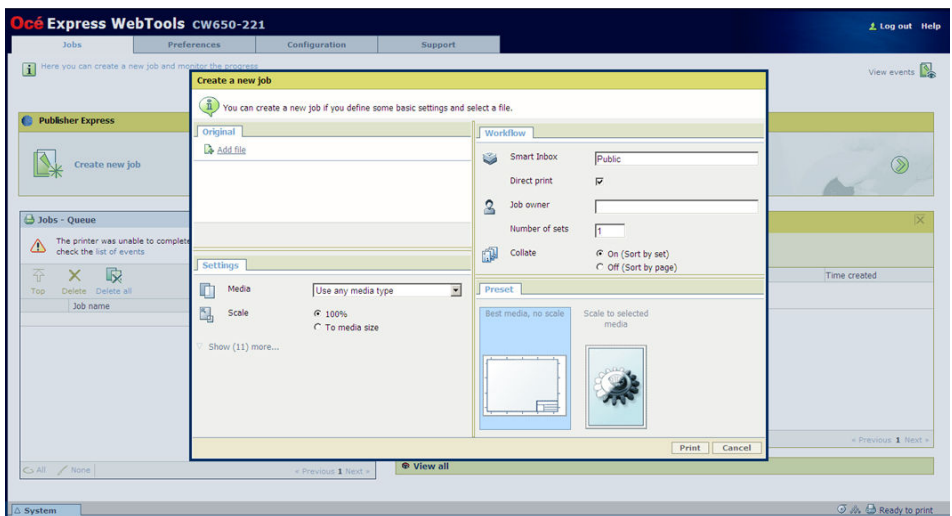
Océ Publisher Express is a job submitter that is integrated in Océ Express WebTools.



**Note:**

When you use Océ Publisher Express to submit a print job, the maximum job size is 2 GigaByte.

### Illustration



### How to use Océ Publisher Express to send a print job

Step	Action	Remarks
1	Open the 'Jobs' tab,	This tab displays the following. <ul style="list-style-type: none"> <li>■ The Océ Publisher Express section.</li> <li>■ An overview of all jobs that are currently available in the 'Jobs - Queue'.</li> <li>■ An overview of all the Smart Inboxes that currently contain one or more jobs.</li> </ul>
2	Click on 'Create new job' in the Océ Publisher Express section.	A separate window opens.

Step	Action	Remarks
3	Click on 'Add file' and use the <b>Browse...</b> button to select the file you want to print. Repeat this action to add more files to the job.	You can print documents with the following data formats <ul style="list-style-type: none"><li>■ - TIFF - .tif</li><li>■ - PostScript 3 - .ps (licensed)</li><li>■ - PDF - .pdf (licensed)</li><li>■ - JPEG - .jpg, .jpeg</li></ul>
4	Select the 'Preset' and change the 'Settings' if necessary.	Job settings that you change in Océ Publisher Express always overrule the default settings defined in the Océ Express WebTools.
5	In the 'Workflow' section enter the name of the Smart Inbox you want to print to and click 'Ok' to send the print job to the Smart Inbox.	If you enter a name that does not match with any of the existing Smart Inboxes, a new 'Smart Inbox' with that name is created and your print job is sent to that newly created 'Smart Inbox'.

## Use Océ Publisher Select to send a print job

### Introduction

Océ provides Océ Publisher Select as a Job Submission software application that allows you to send print jobs to your Océ ColorWave 650 Poster Printer.



**Note:**

More information about how to install, configure and use the Job submission application is available in the documentation provided with Océ Publisher Select.

- the Océ Publisher Select Online Help
- the Océ Publisher Select User manual

### How to use Océ Publisher Select to send a print job

Step	Action	Remarks
1	Start the Océ Publisher Select application.	Browse to Start - Programs - Océ Publisher Select
2	Configure the default template.	You can define a set of settings to be applied by default to every document added to a job in Océ Publisher Select.
3	From the main application window ('Jobs'), click 'New' or open a saved job to display the 'New Job' window.	In this 'New Job' window, you can create, edit, preview, save and print jobs. The window is divided into 3 sections: <ul style="list-style-type: none"> <li>■ 'Job Composition'</li> <li>■ 'Job Information'</li> <li>■ 'Print Preview'</li> </ul>

Step	Action	Remarks
4	<p>In the 'Job Information' section set the 'Job name', the 'Smart Inbox' and the number and order of the job copies. You can also add a banner page by set, and edit the banner if necessary.</p>	<ul style="list-style-type: none"> <li>■ The default 'Job name' is the name of the first file you added to the job. You can customize the 'Job name'.</li> <li>■ Every job submitted by Océ Color-Wave 650 Poster Printer is automatically sent to a 'Smart Inbox' on the printer controller. The 'Direct print' option sends it to the printer queue. For each job, you must specify a name for the 'Smart Inbox' to be used or created on the controller. By default, the 'Smart Inbox' is the user login. You can customize the 'Smart Inbox'.</li> </ul>
5	<p>From the 'Job Composition' section, click 'Add' and browse to the document you want to print. You can load one file, several files or a complete folder at once.</p>	
6	<p>Click 'Add Documents' to add the document to the Job.</p>	<p>If you added all documents that you want to print to the Queue, click 'OK'.</p>
7	<p>If you want to change the job settings of documents in the Job, select the documents and click 'Edit'.</p>	<p>A separate window opens where you can adjust the job settings of the selected documents. You can change the settings per document and click 'Apply' to assign the settings to the selected document.</p>
8	<p>Click 'OK' to revert to the Océ Publisher Select window.</p>	
9	<p>Click 'Print'.</p>	<p>Once the job is submitted to the printer, you can follow its status in the 'Submitted jobs' section, and then in the 'History' window.</p>



**Note:**

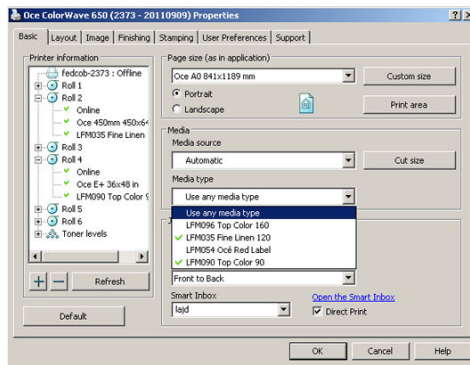
You can download the latest Océ Publisher Select from the Océ website <http://global.oce.com> (go to <http://global.oce.com/products/wideformat/WFPSSoftware>)

# Use the Océ Wide format Printer Driver for Microsoft® Windows® to send a print job

## Introduction


Océ provides the Océ Wide format Printer Driver that allows you to send print jobs to your Océ ColorWave 650 Poster Printer. This driver is a mixed raster-vector HP-GL/2 printer driver that allows you to print from any application under Windows 7, Windows XP®, Windows Vista®, Windows Server® 2003, Windows Server® 2008, Windows Terminal Server®, Novell 6.x, Citrix Presentation Server 4.x or Citrix XenApp to your Océ printer.

## Illustration



## How to use the Océ WPD1 to send a print job

Step	Action	Remarks
1	Open the file that you want to print in the source application.	AutoCAD® 2000 and higher or any other Windows application.
2	From the 'File' menu of the application, click 'Print'.	
3	Select the Océ ColorWave 650 Poster Printer in the 'Printer' area of the 'Print' dialog box.	
4	Click 'Properties'.	You can define the default print job settings in the Océ Express WebTools.

Step	Action	Remarks
5	In the 'Smart Inbox' section enter the name of an existing 'Smart Inbox' or enter a new name.	Click the 'Smart Inbox' hyperlink, 'Open the Smart Inbox', to access the 'Smart Inbox' in use. The hyperlink opens, in a new window, your web browser and the 'Smart Inbox' section from the printer controller.   <b>Note:</b> The 'Smart Inbox' section of the printer controller lists all the Smart Inboxes created for the printer.
6	In the 'Image' tab, click on the 'More' button and activate 'Océ Ticket enabled' to overrule the default values for the job settings.	
7	Check all tabs in the driver and change the default settings if necessary.	
8	Click on 'OK' to send the print job to the Jobs Queue.	



**Note:**

More information about how to install, configure and use the driver is available in the documentation provided with the Océ Windows® Printer Driver.

- the Océ WPD Online Help
- the Océ WPD User manual



**Note:**

You can download the latest Océ drivers from the Océ website <http://global.oce.com> (go to <http://global.oce.com/products/wideformat/WFPSSoftware>)



## Use the Océ PostScript® 3 Driver to send a print job

### Introduction

Océ provides the Océ PostScript® 3 Driver that allows you to send print jobs to your Océ ColorWave 650 Poster Printer.



**Note:**

You need a license to be able to print PostScript® files on the Océ ColorWave 650 Poster Printer.

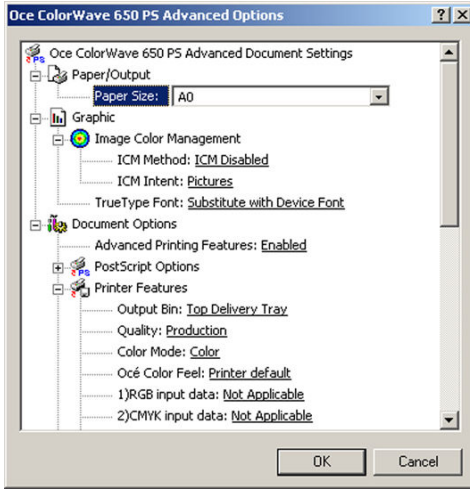


**Note:**

More information about how to install, configure and use the driver is available in the documentation provided with the Océ PostScript® 3 Driver.

- the Océ PostScript® 3 Driver Online Help
- the Océ PostScript® 3 Driver Installation manual

### Illustration



### How to use the Océ PostScript® 3 Driver to send a print job

Step	Action	Remarks
1	Open the file that you want to print in the source application.	
2	From the 'File' menu of the application, click 'Print'.	
3	Select the Océ ColorWave 650 Poster Printer PostScript driver in the 'Printer' area of the 'Print' dialog box.	
4	Click 'Properties' and 'Advanced'.	When you select Properties you can make settings for the print job.
5	Activate the Océ Job Ticket to overrule the default values for the job settings.	
6	Check and change the Printer Features settings if necessary.	
7	Click on 'OK' to send the print job to the Smart Inbox or the Jobs Queue.	



**Note:**

More information about how to install, configure and use the driver is available in the documentation provided with the Océ PostScript® 3 Driver.

- the Océ PostScript® 3 Driver Online Help
- the Océ PostScript® 3 Driver Installation manual



**Note:**

You can download the latest Océ drivers from the Océ website, <http://global.oce.com> (go to <http://global.oce.com/products/wideformat/WFPSSoftware>).

# Use FTP to send a print job

## Introduction

The Océ ColorWave 650 Poster Printer supports printing through FTP. If you send your print job through FTP, the default Océ Express WebTools settings are used if the setting is missing in the print job.



**Note:** You must enable printing through FTP in the Océ Express WebTools. To do so, navigate to the 'Configuration' - 'Connectivity' tab and look for the 'FTP' section. Here, you can also configure additional 'FTP' settings.

## How to send a print job via FTP

You can print the files through FTP in the following ways.

- Via a command line prompt
- Enter the address **ftp://<hostname or IP address> /jobs** in your workstation browser.
- Via an FTP application
- From a Web browser

The Océ ColorWave 650 Poster Printer has a dedicated FTP Jobs folder. You cannot delete or change this folder. It is created at installation and protected. The most convenient way to print files through FTP is to drag and drop the files or to copy and paste the files, into this 'Jobs' folder on the FTP site of your Océ ColorWave 650 Poster Printer controller. The documents in the folder are printed on the Océ ColorWave 650 Poster Printer.

## Web browsers that support job submission through FTP

Level of functionality	Web browser	Operation
Supports drag and drop of files	Microsoft Internet Explorer Mozilla Firefox	Drag the jobs into the 'Jobs' folder on the FTP site of your Océ ColorWave 650 Poster Printer.
Supports copy and paste of files.	Microsoft Internet Explorer Mozilla Firefox	Paste the jobs into the 'Jobs' folder on the FTP site of your Océ ColorWave 650 Poster Printer.

## Use LPR to send a print job

### Introduction

The Océ ColorWave 650 Poster Printer supports printing through LPR. If you send your print job through LPR, the default Océ Express WebTools settings are used if the setting is missing in the print job.



**Note:**

You must enable printing through LPR in the Océ Express WebTools. To do so, navigate to the 'Configuration' - 'Connectivity' tab and look for the 'LPD' section. Here, you can also configure additional settings.

### How to send a print job via LPR

Type the following line command after the Command prompt: **lpr -S** <hostname or IP address> **-P** <print queue name> <file name>.



**Note:**

You can use any name for <print queue name>, for example **jobs**.

## Specifications drivers and job submission software

### Océ drivers

Software environment	Required driver	Remarks
All Windows applications (for example, AutoCAD® 2000 family)	Océ Wide format Driver for Microsoft® Windows®	<p>This driver is a mixed raster-vector HP-GL/2 printer driver that allows you to print to your Océ printer from an application under:</p> <ul style="list-style-type: none"> <li>■ Windows XP (Sp3, 32bit / 64bit)</li> <li>■ Windows Server 2003 (R2 Sp2, 32bit / 64bit)</li> <li>■ Window Vista (Sp2, 32bit / 64bit)</li> <li>■ Windows Server 2008 (Sp2, 32bit / 64bit)</li> <li>■ Windows Server 2008 (R2 Sp1, 64bit)</li> <li>■ Windows 7 (Sp1, 32bit / 64bit)</li> <li>■ Windows SBS (2003 / 2008 / 2011)</li> <li>■ Citrix Presentation Server 3.x</li> <li>■ Citrix Presentation Server 4.x</li> <li>■ Citrix Metaframe</li> <li>■ Citrix XenApp 5</li> <li>■ Windows Terminal Server</li> </ul>

Software environment	Required driver	Remarks
Graphical application software	Océ PostScript® 3™ Drivers	<p>The drivers allow you to print to Océ printers from an application under:</p> <ul style="list-style-type: none"> <li>■ Windows XP (Sp3, 32bit / 64bit)</li> <li>■ Windows Server 2003 (R2 Sp2, 32bit / 64bit)</li> <li>■ Windows Server 2008 (Sp2, 32bit / 64bit)</li> <li>■ Windows Server 2008 (R2 Sp1, 64bit)</li> <li>■ Windows 7 (Sp1, 32bit / 64bit)</li> <li>■ Windows SBS (2003 / 2008 / 2011)</li> <li>■ Citrix Presentation Server 3.x</li> <li>■ Citrix Presentation Server 4.x</li> <li>■ Citrix Metaframe</li> <li>■ Citrix XenApp 5</li> <li>■ Mac OS 10.x</li> </ul>



**Note:**

Visit Océ on the Internet at [www.oce.com](http://www.oce.com) for the latest information.

**Optional application software**

Function	Application software
Job submission	<ul style="list-style-type: none"> <li>■ ONYX Workflow Software</li> <li>■ Océ Publisher Select</li> </ul>
Accounting	<ul style="list-style-type: none"> <li>■ Account Console</li> </ul>

# Print from USB

## Print a file from a USB mass storage device or flash drive

### Introduction

With the Océ ColorWave 650 Poster Printer, it is possible to print directly from a USB device by inserting the device into the USB flash drive interface of the printer operator panel.

### Before you begin

Please make sure the 'Print from USB' setting has been enabled in the Océ Express WebTools (See: *'Enable Print from USB'* on page 133).

### Required tool

- A USB mass storage device or USB flash device



**Note:**

Although it is possible to print files directly from a USB device, it is not possible to scan files to a USB device.



**Note:**

USB print jobs will not be given priority over other jobs present in the 'Jobs - Queue'.







**Caution:**

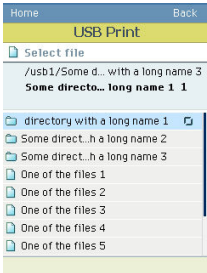
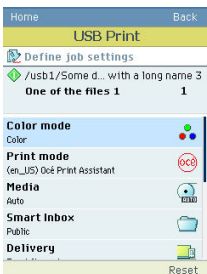
Do not remove the USB device while the printer operator panel displays the message 'Do not remove USB device'.

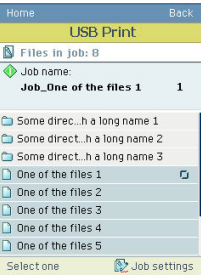

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## How to print from a USB device

	Action	Illustration
1	<p>On the home screen of the printer operator panel, use the 'Scroll wheel' to select "USB" and use the 'Confirmation key' to confirm your choice.</p> <p> <b>Note:</b> Depending on whether the 'Smart Inbox' and 'Print from USB' settings are enabled in the Océ Express WebTools, the home screen may look different from the view displayed here. If the 'Smart Inbox' setting is disabled and 'Print from USB' enabled, the USB option can be found in the upper right corner of the printer operator panel. If this is the case, use the upper right soft key to proceed to the file selection menu.</p>	
2	<p>If no USB device is detected by the Océ ColorWave 650 Poster Printer, the printer operator panel will ask you to insert a USB device. Insert the USB device into the USB flash drive interface on the left side of the printer operator panel. The printer operator panel automatically selects the 'Print from USB' tab.</p> <p> <b>Note:</b> It is possible to connect a USB hub to the system to establish a connection with multiple USB devices. However, it is not possible to print files from multiple USB devices within a single print job.</p>	

	Action	Illustration
<p>3</p> <p>The printer operator panel allows you to either select a single file or select multiple files. If you want to print multiple files, press 'Select more...' using the lower left soft key.</p> <p><b>Note:</b> You can only select multiple files from one folder. Once you exit a folder, your selection within this folder will be reset.</p> <p><b>Note:</b> If you are in 'Select more...' mode and want to select only one file, press 'Select one' using the lower left soft key.</p>		
<p>4</p> <p>In 'Select one' mode, the selection of a file will automatically transport you to the “Define job settings” view. In 'Select more...' mode, you have to press the lower right soft key to indicate your selection is complete and you want to configure the job settings.</p> <p><b>Note:</b> If you confirm your selection by pressing the “Green button” instead of the 'Confirmation key' or the lower right soft key, your print job will be printed using the default settings, as configured in the Océ Express WebTools.</p>		

	Action	Illustration
5	<p>It is possible to configure the following settings for your 'Print from USB' print job.</p> <ul style="list-style-type: none"> <li>■ Color mode</li> <li>■ Print mode</li> <li>■ Media</li> <li>■ Smart Inbox</li> <li>■ Delivery (when a folder is configured, it is possible to have your 'Print from USB' job folded)</li> <li>■ Scale</li> <li>■ Sheet size</li> <li>■ Positioning</li> <li>■ Rotation</li> <li>■ Mirror</li> </ul> <p>The configured settings apply to all of the selected files. If the desired settings differ across files, you need to submit multiple 'Print from USB' jobs.</p>	 <p>The screenshot shows the 'USB Print' screen. At the top, there are 'Home' and 'Back' buttons. Below that is the title 'USB Print'. A status bar indicates 'Files in Job: 0'. The 'Job name:' is 'Job_One of the files 1' with a '1' next to it. A list of files is shown, including 'Some direc... h a long name 1', 'Some direc... h a long name 2', 'Some direc... h a long name 3', and five instances of 'One of the files 1' through '5'. At the bottom, there are 'Select one' and 'Job settings' options.</p>
6	<p>Once you have configured the desired settings, press the “Green button” to submit your 'Print from USB' job.</p> <p><b>Note:</b> After sending the file(s) to the 'Smart Inbox' and/or queue, the panel will return to the job settings view. This allows you to submit the job once again, in case you configured incorrect settings the first time.</p> <p><b>Note:</b> Do not remove the USB device while the printer operator panel displays the warning 'Do not remove USB device'.</p>	 <p>The screenshot shows the 'Print from USB' status screen. It displays 'Sending to the print queue and smart inbox...'. The 'Job name:' is 'One of the files 2'. There is a progress bar with a green segment on the left and a blue segment on the right. At the bottom, there is a warning message: 'Do not remove USB device'.</p>

# Monitor print jobs

## The job states

State	Description
'Active job'	The active job that the system is currently printing.
'Waiting job'	The waiting jobs are all not-active jobs, regardless of their state.
'Processing job'	The system is processing the job data.
'Attention job'	A job that requires user intervention before it can be printed (load media, enter accounting info, password... etc.).
'Receiving job'	A job that is being transferred over the network.
'Printed job'	A job that has at least once been active.

# 'Counter history'

## Introduction

Navigate to the 'Support' - 'Counter history' tab to get an overview of the consumables used per printed job.

The table below gives an overview of the 'Counter history' functionality that you can access to sort, group, save or print the information you need.



**Note:**

To access the 'Counter history' functionality you must log on as a Key operator or as a System administrator.

## 'Counter history' functionality

Functionality	Description
Set counter history period.	Select a 'Counter history' value from the drop-down list in the header of the counter history list. You can select a value between 'today' and '12 weeks'. The counter history list displays the consumables used per print job of all print jobs that are printed during the selected period of time.
Sort the counter history list.	You can click on the column headers of the counter history list ('Job name', 'Job owner', 'Smart Inbox', 'Time Printed') to sort the list according to your needs.
Display method of the counter history list.	Select 'List view' if you want to display all jobs that are printed in the selected period, sorted according to your sort criterion.
	Select 'Group view' if you want to display only the groups of your sort criterion in the selected period. For example, if you sort your counter history list on the column 'Job owner' and you click on 'Group view', the counter history list displays a list with all Job owners that have sent print jobs to the printer in the selected period. When you expand the 'Job owner' group, the list displays all jobs that were sent by the 'Job owner' in the selected period.

Functionality	Description
View totals.	When you click 'View total info' in the upper right corner of the counter history list, the total detailed counter information for all jobs in the list is displayed.
	When you click on a group name in the counter history list, the total detailed counter information for all jobs in the group is displayed.
	When you click on a job name in the counter history list, the total detailed counter information for the selected job is displayed.
Save the counter history list.	When you click 'Save all' in the upper right corner of the counter history list, you can save the counter history for all jobs in the list. You can save the counter data as an 'XML-file' or as a 'CSV-file'.
Print the counter history list.	When you click 'Print all' in the upper right corner of the counter history list, you can print the counter history for all jobs in the list.

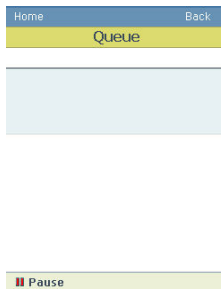
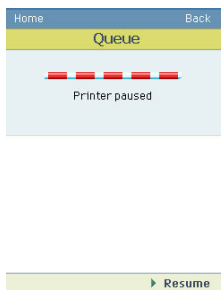
# Control print jobs

## Pause, resume or delete an active job

### Introduction

This section describes how to pause, resume or delete an active job.

### How to 'Pause' or 'Resume' an active print job

Action	Remarks
<p>To pause the printer: In the 'Queue' screen use the 'Lower left softkey' key on the printer operator panel to pause the printer. The following message is displayed.</p> <ul style="list-style-type: none"> <li>■ 'Printer pause requested'</li> <li>■ 'The printer stops after this page', if the printer was busy printing.</li> </ul>	 <p>The screenshot shows the printer's 'Queue' screen. At the top, there are 'Home' and 'Back' buttons. Below them is a yellow bar with the word 'Queue'. The main area is mostly blank. At the bottom, there is a green bar with a red pause icon and the word 'Pause'.</p>
<p>In the 'Queue' screen use the 'Lower right softkey' to 'Resume' the printer.</p>	 <p>The screenshot shows the printer's 'Queue' screen. At the top, there are 'Home' and 'Back' buttons. Below them is a yellow bar with the word 'Queue'. In the center, there is a red dashed line and the text 'Printer paused'. At the bottom, there is a green bar with a right-pointing arrow and the word 'Resume'.</p>

## How to delete an active print job

If you use the	Then	Result
Printer operator panel	Press the 'Red stop key'	The system aborts and deletes the job immediately.
Océ Express WebTools	<ul style="list-style-type: none"><li>■ Open the 'Jobs' tab.</li><li>■ In the 'Jobs - Queue' section place a checkmark in front of the job you want to delete and click 'Delete'.</li></ul>	



# Solve problems with print jobs

## How to solve print job problems

### Introduction

If there is a problem with a print job, the blue 'Jobs - Queue' bar in the Océ Express WebTools turns orange.

The System Monitor section of the Océ Express WebTools displays the message: 'User intervention required'.

The job that has the problem remains in the queue as an active job, displayed in bold fonts. You can receive detailed information about the problem and how to solve this problem via the printer operator panel.

The most common problem with print jobs is that the requested media for the job is not available. The procedure below gives additional information about how the printer handles a media request.



#### Note:

For more information about how to solve problems with print jobs, please refer to the Online Help information in the Océ Express WebTools. You can access to the Online Help information by clicking on 'Help' in the upper right corner of the Océ Express WebTools screen.

### Media request via the printer operator panel

1. The printer operator panel displays the following message.



2. Load the media as requested.  
(see *Load a media roll* on page 155)



**Caution:**

If the 'Media request time-out' expires, the 'Action after media request time-out' setting decides if the job is put on hold or if the print job will be deleted. (see *'Configure the Media request timeout'* on page 134)

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3. The printer continues printing.

## View events

### Introduction

Feedback about errors related to the processing of print jobs is displayed in the event list. You can open the event list when you click 'View events' in the 'Jobs' tab.

### Additional settings to view events

Setting ('Preferences' - 'System properties' - 'In case of errors')	Value	Description
'Job event popup'	'On'	When this setting is set to 'On' the system displays print job related attention messages on the printer operator panel. These pop-up messages hide all other information on the screen.
'Job event web notification'	'On'	<p>When this setting is set to "On", the system displays print job related attention messages in the 'Jobs - Queue' view of the Océ Express WebTools.</p> <p> <b>Note:</b> When you click on an attention message, the message is removed from the queue view of the web browser you use. In other web browsers the attention message remains visible until a user clicks on it.</p>

## Event messages

### Introduction

You can open the event list when you click 'View events' in the 'Jobs' tab.

### Overview event messages

Event message	Troubleshoot
'Partially printed job aborted due to reception problem (protocol error, connection failure, spool-full)'	<ul style="list-style-type: none"> <li>■ Check the structure and keywords of the Océ Job Ticket.</li> <li>■ When the printer operator panel displays the message 'Print job memory full.', delete some jobs from the system.</li> <li>■ Check if the printer can be reached in the network.</li> </ul>
'Job aborted due to reception problem (protocol error, connection failure, spool-full), nothing was printed'	<ul style="list-style-type: none"> <li>■ Check the structure and keywords of the Océ Job Ticket.</li> <li>■ When the printer operator panel displays the message 'Print job memory full.', delete some jobs from the system.</li> <li>■ Check if the printer can be reached in the network.</li> </ul>
'Document could not be printed, specific TIFF/CALS mode is not supported'	<p>The document type is not supported by the printer (for instance, CALS file).</p> <ul style="list-style-type: none"> <li>■ Check the list of supported document types.</li> </ul>
'Document could not be processed, processing was aborted'	<p>The file is complex and the printer does not have enough memory to process it.</p> <ul style="list-style-type: none"> <li>■ Try to print it from an application using the Océ WPD.</li> <li>■ If the error persists, contact Océ Service.</li> </ul>
'PS/PDF missing or invalid data in the document, one or more pages not correctly printed'	<p>The Postscript or PDF file is corrupt.</p> <ul style="list-style-type: none"> <li>■ Try to print it from an application using the Océ WPD.</li> <li>■ If the error persists, contact Océ Service.</li> </ul>

Event message	Troubleshoot
'PS/PDF limitation, one or more pages not correctly printed'	<p>The Postscript or PDF file causes an internal printer error.</p> <ul style="list-style-type: none"> <li>■ Try to print it from an application using the Océ WPD.</li> <li>■ If the error persists, contact Océ Service.</li> </ul>
'PS/PDF resource issue (memory, disk), one or more pages not correctly printed'	<p>The Postscript or PDF file is complex and the printer does not have enough memory to process it.</p> <ul style="list-style-type: none"> <li>■ Try to print it from an application using the Océ WPD.</li> <li>■ If the error persists, contact Océ Service.</li> </ul>
'PS/PDF resource or language problem, one or more pages not correctly printed'	<p>The Postscript or PDF file is complex or corrupt.</p> <ul style="list-style-type: none"> <li>■ Try to print it from an application using the Océ WPD.</li> <li>■ If the error persists, contact Océ Service.</li> </ul>
'No pages were generated when processing the document'	<p>The file contains some non printable pages.</p> <ul style="list-style-type: none"> <li>■ The file could be corrupt.</li> <li>■ The graphic commands in the file could be missing .</li> <li>■ The shift setting could be set to a value that causes the image to move completely off the paper.</li> </ul>
'Job deleted because it is not recoverable (data is corrupt or incomplete)'	<p>This message can appear when the printer is rebooted after a power failure and some documents in the printer spool are corrupt.</p> <ul style="list-style-type: none"> <li>■ Reprint the job from the submission application or from the 'Smart Inbox'.</li> </ul>
'Job deleted because it causes a software crash in the printer'	<p>This message can appear when the printer is rebooted after a power failure and some documents in the printer spool cause software problems.</p> <ul style="list-style-type: none"> <li>■ Reprint the job from the submission application or from the 'Smart Inbox'.</li> </ul>

Event message	Troubleshoot
'Job was deleted from the queue after a media request timeout'	<p>The job has been deleted from the print queue because the time-out of the media request expired and the 'Action after media request time-out' is set to 'Delete the job'</p> <ul style="list-style-type: none"> <li>■ Reprint the job from the submission application or from the 'Smart Inbox'.</li> </ul>
'Job cannot be printed because the required PS/PDF license is not available'	<ul style="list-style-type: none"> <li>■ For Postscript and PDF files, check if the Adobe® PostScript® 3 / PDF option is authorized.</li> </ul>
'Job cannot be printed because the required PDL is disabled'	<ul style="list-style-type: none"> <li>■ Click 'Configuration' - 'Printer setup' and check if printing of this printer description language is 'Enabled'.</li> </ul>
'Print settings conflict: the document is identified and printed with the settings embedded in the file'	<p>The print job contains a non-supported structure of embedded Océ Job Tickets. The settings you have selected in the submission application are not used. Instead, the Océ Job Ticket settings embedded in the file are used for printing and identification of the job. The job will appear in the print queue and the 'Smart Inbox' with its original name.</p> <ul style="list-style-type: none"> <li>■ If the settings embedded in the file contain a 'Smart Inbox' name, the job will be kept in that 'Smart Inbox'.</li> <li>■ If the settings embedded in the file do not contain a 'Smart Inbox' name, the job will be kept in the default 'Smart Inbox' defined in the 'System properties' - 'Job management'.</li> <li>■ If you do not want to use the original settings embedded in the file, use Océ Publisher Select to print the job.</li> </ul>

# **Chapter 6**

## **Account Management**

## An overview of Océ Account Center

### Introduction

Use Océ Account Center to manage the account information of print jobs for your Océ devices.



**Note:**

For this application a separate user manual is available.

### Definition

Océ Account Center consists of the following two software modules.

- Océ Account Console.

Océ Account Console runs on a PC that functions as a server. Access to the Océ Account Console application is password protected and limited to authorized personnel. The administrator uses Océ Account Console to create the account information dialog. The administrator publishes the account information dialog for Océ Express WebTools, the printer operator panel and other applications.

The bookkeeper uses Océ Account Console to retrieve and export the log data. The bookkeeper uses the log data for accounting purposes.

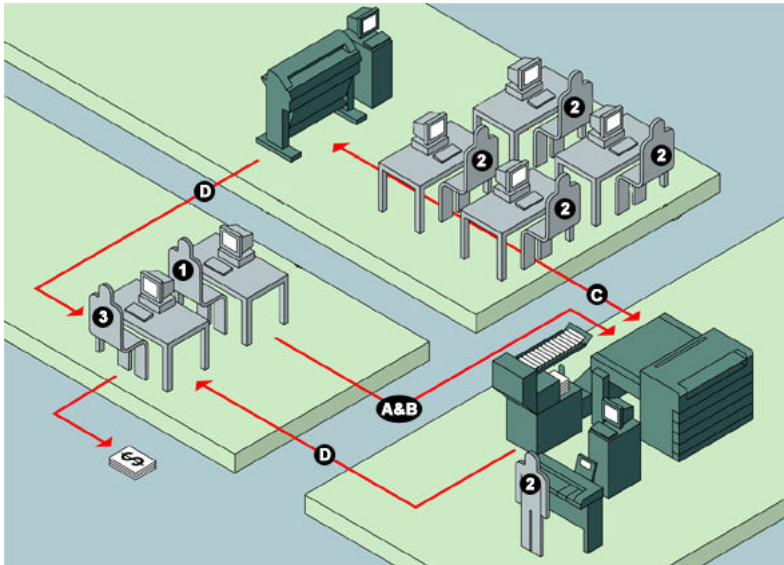
- Océ Account Logic.

Océ Account Logic software is part of Océ Express WebTools.

The software enables the user to enter account information for print jobs.



### Illustration



### User roles and tasks in Océ Account Center

Users	Tasks
1) Administrator	<ul style="list-style-type: none"> <li>■ Create, manage and delete the account dialog.</li> <li>■ Publish the account dialog to Océ Express WebTools and the printer operator panel.</li> </ul>
2) Users	<ul style="list-style-type: none"> <li>■ Use the dialog of Océ Express WebTools to enter the account information for print jobs.</li> </ul>
3) Bookkeeper	<ul style="list-style-type: none"> <li>■ Retrieve and use the account information of print jobs that is stored on the embedded controller of your Océ device. The log data serves as input for the accounting reports and invoices.</li> </ul>

# Océ Account Console<sup>®</sup>

## Introduction to Océ Account Console

### Definition

Océ Account Console is installed on the administrator's workstation. Access to Océ Account Console is password protected and limited to the administrator.

### Purpose

Océ Account Console has the following functionalities:

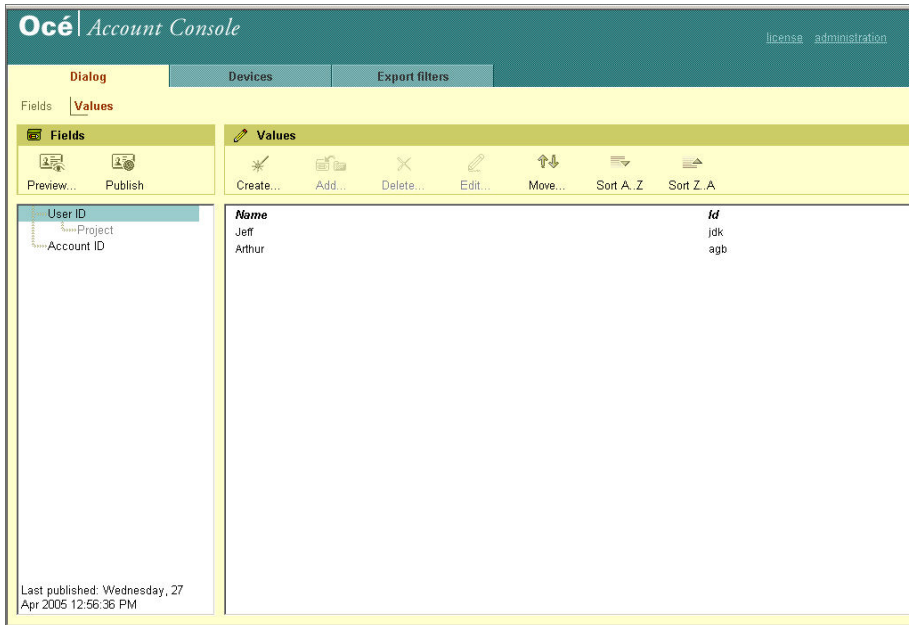
- Manage, preview, and publish the account information dialog for Océ Account Logic.
- Retrieve and export the log files.
- Manage the devices.



**Note:**

For this application a separate user manual is available.

### Illustration



## Summary of Océ Account Console

### Main parts of Océ Account Console

An administrator uses Océ Account Console to perform a number of maintenance and configuration tasks.

The main functional areas of Océ Account Console are described in the table below.

Main parts of Océ Account Console

Part	Description
The 'Dialog' tab	<p data-bbox="488 493 652 516">'Fields' section.</p> <ul style="list-style-type: none"> <li data-bbox="488 525 1156 584">■ Create an accounting dialog. The accounting dialog consists of a number of accounting fields.</li> <li data-bbox="488 593 1126 651">■ Delete an accounting dialog. Please note that this action cannot be reversed.</li> <li data-bbox="488 660 1144 718">■ Edit an accounting dialog. You can change the type of accounting field.</li> <li data-bbox="488 728 1076 751">■ Change the order of the accounting field in the list.</li> <li data-bbox="488 760 1156 784">■ Make a preview of the accounting dialog to test the validity.</li> <li data-bbox="488 793 1156 851">■ Publish the accounting dialog. Make the accounting dialog available to external applications.</li> </ul> <p data-bbox="488 875 660 899">'Values' section.</p> <ul style="list-style-type: none"> <li data-bbox="488 910 942 933">■ Create values for each accounting field.</li> <li data-bbox="488 942 1156 1001">■ Add values for each accounting field. You add existing values to an accounting field.</li> <li data-bbox="488 1010 1156 1068">■ Delete values for each accounting field. Please note that this action cannot be reversed.</li> <li data-bbox="488 1077 987 1101">■ Edit values for the selected accounting field</li> <li data-bbox="488 1110 1025 1133">■ Move the selected value up or down in the list.</li> <li data-bbox="488 1142 1156 1201">■ 'Sort A..Z '. Use this option to organize the list in ascending order.</li> <li data-bbox="488 1210 1156 1268">■ 'Sort Z..A'. Use this option to organize the list in descending order.</li> </ul>

Part	Description
The 'Devices' tab	<p>'Devices' section.</p> <ul style="list-style-type: none"> <li>■ 'Create...'. Use this option to create a new device.</li> <li>■ 'Delete'. Use this option to remove the device. The log data for the device is removed as well. Please note that this action cannot be reversed.</li> <li>■ 'Edit...'. Use this option to change the values for a device.</li> <li>■ 'Delete log data'. Use this option to remove log data of a device.</li> <li>■ 'Upgrade'. Use this option to upgrade Océ Account Logic.</li> </ul> <p>'Tasks' section.</p> <ul style="list-style-type: none"> <li>■ 'Compress database'. Use this option to clean up the database.</li> <li>■ 'Start'. Use this option to run an update dialog or to retrieve log data.</li> <li>■ 'Edit...'. Use this option to change the conditions for the update dialog and the log data retrieval.</li> </ul>
The 'Export filters' tab	<p>'Overview' section.</p> <ul style="list-style-type: none"> <li>■ 'Create...'. Use this option to define the conditions to export data</li> <li>■ 'Delete'. Remove the export filter.</li> <li>■ 'Edit...'. Change the conditions to export log data.</li> <li>■ 'Copy...'. Make a duplicate of the filter settings to create another export filter.</li> <li>■ 'Run...'. Select the required filter and start the export of the log data.</li> </ul> <p>'Statistics' section.</p> <ul style="list-style-type: none"> <li>■ 'Create...'</li> <li>■ 'Delete'</li> <li>■ 'Edit...'</li> <li>■ 'Run...'</li> </ul>
The 'Licenses' screen	<p>The license screen enables you to perform the following actions.</p> <ul style="list-style-type: none"> <li>■ Determine the host ID necessary to receive a valid license file.</li> <li>■ Activate the license file.</li> <li>■ Create a back-up of the license file.</li> </ul>

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Part	Description
The 'Administration' screen.	<p>The administrator screen enables you to perform the following actions.</p> <ul style="list-style-type: none"><li>■ Change the password.</li><li>■ Publish the data that are retrieved from other applications.</li><li>■ Define the remaining settings for Océ Account Console.</li><li>■ Set the regional settings<ul style="list-style-type: none"><li>-Application language</li><li>-Units of measure (metric or imperial values)</li><li>-Units of measure of the print area (metric or imperial values).</li></ul></li></ul>

# Enable account management in the Océ Express WebTools

## Introduction

To enable account management, you must define a number of settings in the 'Job management' settings group.

## Definition


Use the account management settings in Océ Express WebTools to link account information to your job. The account information requirements are defined and managed by the administrator in Océ Account Console (see: ['Summary of Océ Account Console' on page 243](#)).

## How to enable account management

Open the 'Preferences' - 'System properties' tab and click on 'Edit' in the 'Job management' settings group bar.

Setting	Value	Description
'Force entry of accounting data for print jobs'	'On'	When 'On', it will only be possible to print jobs that have valid accounting data. All print jobs will be forced to go to the 'Smart Inbox'. If you use Océ Publisher Express to send your print job, you must enter the required accounting data in the 'Workflow' section of the 'Create new job' window. If you want to print a job from a USB mass storage device, your USB print job is sent to the 'Smart Inbox' and you must enter the requested accounting data.
	'Off'	No accounting data is required for print jobs.

## Accounting data missing

If the required accounting data is missing, the  icon is displayed in front of the job in the 'Smart Inbox'. To enter the missing accounting data, select the job and click 'Edit'.

# **Chapter 7**

## **Manage media on the Océ ColorWave 650 Poster Printer printing system**

## Overview of the media related settings

### Introduction

It is important to make sure that the media related settings of your system are set to generate an optimal print result.

You can set media related settings in the following places.

Media related settings	Description
in the Océ Express WebTools	The Océ Express WebTools allow you to manage the media profiles on the printer. In the 'Support' - 'Media' tab you can install, enable, disable and remove media profiles and set a media profile as default. (see <i>'Manage the media profiles'</i> on page 252)
on the printer operator panel	You can use the printer operator panel to define the correct media type for the media that you load on your printer. For each media roll you can select one of the media types that you enabled in the Océ Express WebTools.
in the print job submission applications	In your print job submission application (Océ WPD, Océ Publisher Express, Océ Publisher Select), you can select a media type and media format for your print job.



# Configure the media sizes

## Introduction

You must indicate in the Océ Express WebTools the following settings.

- The core size of the media rolls
- The media sizes



**Note:**

The media sizes and core sizes can only be edited by the Key Operator or Power User.

## How to define the core size of the media

1. Navigate to 'Configuration' - 'Printer setup' in the Océ Express WebTools.
2. Click 'Edit' in the 'Media' bar or click the value of the "Two-inch core used" setting if you also use 2 inch cores.  
The standard roll core size for the Océ ColorWave 650 Poster Printer is 3 inch. If "Two-inch core used" is enabled, the printer will ask the used core size when loading a media roll.
3. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## How to define the media sizes

1. Navigate to the 'Support' - 'Media' tab in the Océ Express WebTools.
2. Click on the value of the 'Supported media sizes' setting. A new window opens.
3. Select a media series from the drop-down list. For each of the standard media series ('ANSI small', 'DIN', 'ANSI mixed' or 'DIN Carto') a set of media sizes is enabled.
4. You can enable or disable media sizes to fine-tune the system to your environment. The media series will then automatically change into a 'Custom' media series.
5. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



**Note:**

You cannot disable media sizes that are currently loaded on the printer.



**Note:**

When you load a media roll the printer automatically detects the roll width. If the detected roll width is not a standard width, the printer selects the next smaller roll width that is supported by the printer.



*Note:*

When you load a media roll with a size that was not yet enabled in the media series, the system automatically adds the new media size to the custom media series.

---

## What is a media profile?

### Definition

A media profile is also called an Océ Media Profile (OMP file). The media profile contains a number of preset values that give the best print result per media type for your system. By default the system already has a number of media profiles available after installation, but due to changes in the production methods for media, the profiles can change over time. When a new version is available, you can retrieve the new profile from the corporate website (<http://mediaguide.oce.com>).

When a new media type becomes available that you want your Océ ColorWave 650 Poster Printer to support, you can install the corresponding Océ Media Profile.

### Attributes

For each media type the media profile optimizes a number of settings.

- Mixing of colors (system setting, cannot be modified).
- Settings for optimal paper handling and runability.

### Example

When you download a media profile from the corporate website (<http://mediaguide.oce.com>), the file name can consist of the following information.

<printername>\_<IDnumber>\_<ColorInfo>\_<Mediumname>\_<RIP>\_<version>.omp ,  
for example ColorWave650\_902\_00\_LFM090\_PMC10\_2000.omp

IDnumber = 902 (for the Océ ColorWave 650 Poster Printer)

ColorInfo = 00 (possibility to use more than one media profile per media type)

RIP = PMC10 (PowerM Plus controller version 1.0)

# Manage the media profiles

## Introduction

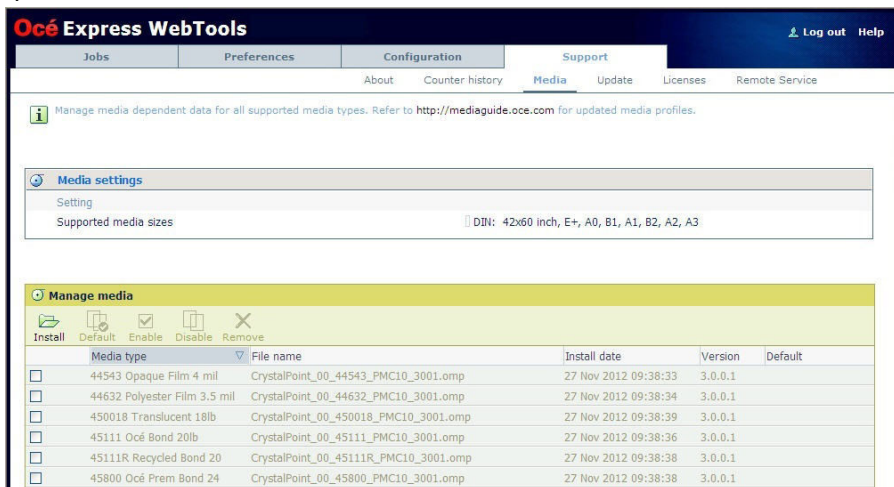
The Océ Express WebTools allow you to manage the media profiles on the printer.

## Before you begin

This setting is editable for the Key operator or Power user.

## How to manage the media profiles

1. Click the 'Support' - 'Media' tab in the Océ Express WebTools to get an overview of all the media profiles that are available on your Océ ColorWave 650 Poster Printer printing system.



### Note:

Please refer to *'Preferred Océ media types and sizes'* on page 258 and *'Support for non-Océ media types and sizes'* on page 263 to get a list of the media profiles that are available on your system as default.



### Note:

The media profiles for non-Océ media types are generic media profiles that give the best possible result for a variety of the specified non-Océ media types. Because the media profiles for Océ media types are fine-tuned for each specific media type, the quality of the printed output will be better when you use Océ media types.

2. Click the media type, for example 'Océ Red Label 75gr', to check the media profile information.
3. Click the check box of a media profile and click the 'Enable' button in the toolbar above the media profiles list to make the media profile available on the printer operator panel and in the print job submission applications. If you 'Disable' a media profile it will no longer be available on the printer operator panel and in the print job submission applications.
4. Click 'Install' if you must install a new media profile.

**Note:**

You must download the new media profile from the Océ website before you can install the new media profile to the Océ ColorWave 650 Poster Printer embedded controller.

5. Click 'Remove' to remove a media type that is no longer needed.

**Note:**

This action cannot be undone.

## Result

If you are not sure that you have the latest version of the media profile, you can click on the hyperlink at the top of the page to access the media profiles download page on the corporate website. Check the version of the media profile of your choice and if necessary update the media profile in the Océ Express WebTools. More information about the media profiles is available in the 'Work with media profiles' section of the on-line help.

## Download a media profile from the Océ website

### When to do

If a new media profile is available or an existing media profile needs to be updated, you can retrieve the required media profile from the corporate website.

### How to download a media profile from the Océ website

1. Visit <http://mediaguide.oce.com>.
2. Click 'Continue' in the Wide format printer section.
3. Select Océ ColorWave 650 Poster Printer in the Printer model section and click on "Continue".
4. Select one or more media types and click on "Continue".
5. Click on one of the icons in the "Profiles" column.
6. Select the correct media profile and click on "Download".  
Download the file to a location on your workstation.

### Result

If you have problems downloading the file, please contact the Océ Helpdesk.  
The next step is to install the media profile to the Océ ColorWave 650 Poster Printer controller.

---

## Install a media profile

### When to do

Once you have downloaded the new or updated media profile from the corporate website, you need to install this media profile to the Océ ColorWave 650 Poster Printer embedded controller.

### Before you begin

This setting is editable for the System administrator or Power user.

### How to install a new media profile

1. Click 'Support' - 'Media'.
2. Click the 'Install' button in the toolbar above the media profiles list.
3. Click Browse to navigate to the correct file on your workstation.
4. Select the media profile and click “Open” or 'Cancel'.
5. Click the check box of the new media profile and click the 'Enable' button in the toolbar above the media profiles list to make the new media profile available on the printer operator panel.

### How to update an existing media profile

1. Click 'Support' - 'Media'.
2. Click the check box of the media profile you want to update.
3. Click the 'Install' button in the toolbar above the media profiles list.
4. Click Browse to navigate to the correct file on your workstation.
5. Select the media profile and click “Open” or 'Cancel'.
6. Click the check box of the updated media profile and click the 'Enable' button in the toolbar above the media profiles list to make the updated media profile available on the printer operator panel.

### Result

A warning message appears to inform you of the consequences for the already submitted jobs. The file is stored on the Océ ColorWave 650 Poster Printer embedded controller. The new file is visible in the media profile list on the 'Media' tab.



*Note:*

If an older version of the file was active on the controller, this file will be overwritten by the new file.




## Define the correct media for your jobs

### Definition

To achieve optimal output quality, make sure that you install and define the correct media type on the printer.

Make sure you define the correct media type for your job. Check if the media type (with the correct media size) that you defined in your job is available on the printer.

When productivity with different media sizes is the most important requirement.	
1	Load up to 6 media rolls on the printer with different media sizes and the same media type.
2	Use the 'Landscape' orientation to print a job on a media size that is one size smaller than the media defined on the system. For example, A1 prints in landscape on A0 and A2 prints in landscape on A1. You are not required to cut the media by hand.
3	Use the 'Auto rotate landscape' setting or the 'Auto rotate landscape with additional 180° rotation' in the Océ Express WebTools or the job submission tools to rotate the orientation automatically.

When productivity is the only important requirement.	
1	<p>Load and define two or more media rolls on the printer with the same media size and the same media type.</p> <p> <b>Note:</b> When roll 1 is empty, the printer switches automatically to roll 2.</p>

## Preferred Océ media types and sizes

### Introduction

Océ machines and media are matched for the best quality and performance. Océ advises that you only use Océ approved media. You can receive a full list of the Océ media that you can use in your printer (that includes plain paper, transparent paper, colored papers and different polyester films) from your Océ representative.



#### **Caution:**

Do not store the paper in rooms where temperature and humidity are high. Avoid dust and direct sunlight. Wrap unused paper in plastic to prevent it from absorbing moisture.

### Media types - Europe

The following preferred media types are available for the Océ ColorWave 650 Poster Printer in Europe:

Preferred media types - Europe - Papers

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
LFM023	Océ Black Label	75	LFM023 Océ Black Label	'Top delivery tray'
LFM024	Océ Black Label	75	LFM024 Océ Black Label	'Top delivery tray'
LFM054	Océ Red Label	75	LFM054 Océ Red Label	'Top delivery tray'
LFM090	Océ Top Color	90	LFM090 Top Color 90	'Top delivery tray'
LFM091	Océ Top Color	120	LFM091 Top Color 120	'External output (back)'
LFM098	Océ Top Color	160	LFM098 Top Color 160	'External output (back)'
LFM110	Océ Top Label	60	LFM110 Océ Top Label 60	'External output (back)'
LFM111	Océ Top Label	60	LFM111 Océ Top Label 60	'Top delivery tray'

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
LFM116	Océ Top Label	75	LFM116 Océ Top Label	'Top delivery tray'
LFM120	Océ Top Label	90	LFM120 Océ Top Label 90	'Top delivery tray'
LFM124	Océ Top Label	100	LFM124 Océ Top Label 100	'Top delivery tray'
LFM140	Océ Green Label	80	LFM140 Océ Green 80	'Top delivery tray'
LFM145	Océ Recycled Paper	80	LFM145 Océ Recycled 80	'Top delivery tray'
LFM147	Océ Recycled-WhiteZero Paper	80	LFM145 Océ RecycledWhiteZero 80	'Top delivery tray'
LFM361	Océ Self Adhesive Paper	90	LFM361 S-A Paper 90g	'External output (back)'

## Preferred media types - Europe - Transparent papers

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
LFM251	Océ Vellum	75	LFM251 Océ Vellum 80	'Top delivery tray'

## Preferred media types - Europe - Films

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
LFM310	Océ Polyester Film	88	LFM310 Polyester 3,5	'Top delivery tray'
LFM342	Océ Roll-up Film	175	LFM342 Roll-up Film	'External output (back)'
LFM360	Océ Self-adhesive PET Film	155	LFM360 S-A Film 155um	'External output (back)'
LFM450	Contrast Film	123	LFM450 Contrast 4 mil	'External output (back)'

Preferred media types - Europe - Specialities

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
LFM036	Blue back paper	100	LFM036 Blueback 100	'Top delivery tray'
LFM037	Blue back paper	115	LFM036 Blueback 115	'External output (back)'
LFM330	Tyvek	75	LFM330 Océ Tyvek 75	'Top delivery tray'
LFM344	Océ Soft Banner	120	LFM344 Soft Ban- ner	'External output (back)'
LFM346	Océ FR Banner	130	LFM346 FR Ban- ner 130	'External output (back)'
LFM410	Océ Fluorescent	90	LFM410 Fluores- cent	'External output (back)'
LFM411	Océ Fluorescent	95	LFM411 Fluores- cent	'External output (back)'
LFM425	Océ Colored Paper FSC	80	LFM425 Colored 80	'Top delivery tray'



**Note:**

Visit Océ on the internet at <http://mediaguide.oce.com> for the latest information.



**Note:**

To make sure that your print quality is optimal you can download the OMP-file (Océ Media Profiles-file) with the right media code from the Océ website for all media types.

## Media types - USA

The following preferred media types are available for the Océ ColorWave 650 Poster Printer in the USA:

## Preferred media types - USA

Media code	Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
45111	Océ Bond	20lb	45111 Océ Bond 20lb	'Top delivery tray'
45111R	Océ Recycled Bond	20lb	45111R Recycled Bond 20	'Top delivery tray'
45800	Océ Premium Bond	24lb	45800 Océ Prem Bond 24	'Top delivery tray'
6024	Generic Bond	24lb	6024 Océ Prem Bond 24lb	'Top delivery tray'
6028	Océ Premium Bond	28lb	6028 Océ Prem Bond 28lb	'Top delivery tray'
6032	Océ Premium Bond	32lb	6032 Océ Prem Bond 32lb	'External output (back)'
6007	Océ Premium Tyvek 7.5 mil	7.5 mil	6007 Océ Prem Tyvek 7.5mil	'Top delivery tray'
44543	Opaque Film 4mil	4 mil	44543 Opaque Film 4 mil	'External output (back)'
44632	Polyester Film 3.5 mil	3.5 mil	44632 Polyester Film 3.5 mil	'Top delivery tray'
450018	Océ Translucent	18lb	450018 Translu- cent 18lb	'Top delivery tray'
459000	Océ Vellum 20lb	20lb	459000 Océ Vel- lum 20lb	'External output (back)'
459020	Océ Vellum	20lb	459020 Océ Vel- lum 20lb	'Top delivery tray'
ABBND	Adhesive Back Bond 24lb	175	Adhesive Back Bond 24lb	'External output (back)'

**Note:**

To make sure that your print quality is optimal you can download the OMP-file (Océ Media Profiles-file) with the right media code from the Océ website for all media types.

## Media sizes

	Maximum	Minimum
Media width	42 inch	297 millimeters 11 inch
Roll length	200 meters	Not applicable

## Support for non-Océ media types and sizes

### Introduction

Océ machines and media are matched for the best quality and performance. However, Océ provides a limited number of Media profiles for non-Océ media types.



**Caution:**

Do not store the paper in rooms where temperature and humidity are high. Avoid dust and direct sunlight. Wrap unused paper in plastic to prevent it from absorbing moisture.

### Media types

The following media profiles are available for non-Océ media types:

Media types - Papers

Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
Paper Uncoated	60-70g	Paper Uncoated 60-70g	'Top delivery tray'
Paper Uncoated	70-85g	Paper Uncoated 70-85g	'Top delivery tray'
Paper Uncoated	85-120g	Paper Uncoated 85-120g	'Top delivery tray'
Paper Uncoated	120-160g	Paper Uncoated 120-160g	'External output (back)'
Generic Bond	20lb	Bond 20lb	'Top delivery tray'
Generic Bond	24lb	Bond 24lb	'Top delivery tray'

Media types - Films

Description	g/m <sup>2</sup> , mil or mu	Name on the Printer operator panel	Output delivery
Film 3-3.5 mil		Film 3-3.5 mil	'Top delivery tray'
Film 4 mil		Film 4 mil	'External output (back)'
Generic Translucent	18lb	Translucent 18lb	'Top delivery tray'
Generic Vellum	20lb	Vellum 20lb	'Top delivery tray'



*Note:*

The media profiles for non-Océ media types are generic media profiles that give the best possible result for a variety of the specified non-Océ media types. Because the media profiles for Océ media types are fine-tuned for each specific media type, the quality of the printed output will be better when you use Océ media types.

## Media sizes

	Maximum	Minimum
Media width	42 inch	297 millimeters 11 inch
Roll length	200 meters	Not applicable



# **Chapter 8**

## **Print quality and Print productivity**

## Main settings that influence the print quality

### Overview table print quality settings

To increase the print quality of your system, you can define the following default settings to configure the system to get optimal results.



**Note:**

The overview only refers to the default settings that you can influence in the Océ Express WebTools. If you select these settings in your print job submission application (Océ WPD or Océ Publisher Select) and the Océ job ticket is enabled, the values of these settings will overrule the default settings that you defined in the Océ Express WebTools.

**Settings in settings group 'Preferences' - 'Print job defaults' - 'Basic'**

'Print setting' (see ['Set the 'Print setting' ' on page 270](#))

**Settings in settings group 'Preferences' - 'Print job defaults' - 'Postscript/PDF rasterization settings'**

'PDF transparency flattening' setting (see ['Set the 'PDF transparency flattening' ' on page 272](#))

'PDF wipeout correction' setting (see ['Set the 'PDF wipeout correction' ' on page 273](#))

**Settings in settings group 'Preferences' - 'Print job defaults' - 'Color management settings for TIFF and JPEG files'**  
**Settings in settings group 'Preferences' - 'Print job defaults' - 'Color management settings for PostScript and PDF files'**

'Color feel' setting (see ['What is Color feel?' on page 284](#))



**Note:**

You can define the default color management settings for different file types.

**Settings in settings group 'Preferences' - 'Print job defaults' - 'General (non-postscript) rasterization settings'**

'Long plot mode' setting (see ['Set the 'Long plot mode' ' on page 274](#))

## Main settings that influence the print productivity

### Introduction

The print productivity depends on the following aspects.

- The size and complexity of the input file.
- The print job submission application.
- The settings that must be set during the print job creation and submission (Orientation, Rotation, Resizing, Print quality, Color mode).

### Overview table of print productivity settings

To increase the print productivity of your system, you can change the following settings to let the printer print faster and more efficiently. Bear in mind that when you increase the print speed of your system, this can influence the print quality of you printer. The following overview only refers to settings that you can influence in the Océ Express WebTools.

#### Settings in settings group 'Preferences' - 'System properties' - 'Printer properties'

'Automatic roll switch' setting (see *'Set the 'Automatic roll switch' ' on page 275)*

'Print while RIP' setting (see *'Set the 'Print while RIP' setting' on page 277)*

'Spool threshold' setting (see *'Set the 'Spool threshold' ' on page 276)*

#### Settings in settings group 'Preferences' - 'Print job defaults' - 'Basic'

'Print setting' (see *'Set the 'Print setting' ' on page 270)*

#### Settings in settings group 'Preferences' - 'Print job defaults' - 'Postscript/PDF rasterization settings'

'PDF transparency flattening' setting (see *'Set the 'PDF transparency flattening' ' on page 272)*

'PDF wipeout correction' setting (see *'Set the 'PDF wipeout correction' ' on page 273)*

#### Settings in settings group 'Preferences' - 'Print job defaults' - 'Layout'

'Rotation' mode (see *'Set the 'Rotation' mode' on page 278)*

'Alignment' mode (see *'Set the 'Alignment' mode ' on page 279)*

Settings in settings group 'Preferences' - 'Print job defaults' - 'General (non-postscript) rasterization settings'

'Long plot mode' setting (see *'Set the 'Long plot mode' ' on page 274)*)

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# Set the 'Color mode'

## Introduction

Use the Océ Express WebTools to set the printer's default setting for the print job's 'Color mode'.



**Note:**

If you set a value for this setting in your print job submission application (Océ WPD or Océ Publisher Select) and the Océ Job Ticket is enabled, the value of this setting will overrule the default value.

You can choose one of the following options.

- 'Grayscale'  
The system only prints grayscale. The print speed increases in the grayscale mode.
- 'Color'  
The Océ ColorWave 650 Poster Printer prints every color.

## Before you begin

This setting is editable for the Key operator or Power user.

## How to set the color mode

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Basic' bar or click the value of the 'Color mode' setting.
3. Select 'Grayscale' to print in grayscale mode.
4. Select 'Color' to print in color mode.



**Note:**

The color black also comes out better when printed in 'Color mode'. In such cases, all colors (cyan, magenta, yellow, and black) are used to produce black, and not only black toner.

5. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

# Set the 'Print setting'

## Introduction

You can use the 'Print setting' in the 'Preferences' - 'Print job defaults' - 'Basic' section to define the default print quality value for your print jobs.



**Note:**

If you set a value for this setting in your print job submission application (Océ WPD or Océ Publisher Select) and the Océ Job Ticket is enabled, the value of this setting will overrule the default value.

Available print modes

Setting	Description
'Express'	This setting is appropriate for high-speed printing of application with large viewing distance (> 4 m) and low toner coverage. The print speed is around 30 seconds per Ao.
'Express Plus'	This setting is appropriate for high-speed printing of application with large viewing distance (> 4 m). The print speed is around 40 seconds per Ao. 'Express Plus' prints with an higher density than 'Express'.
'Production'	This setting is appropriate for regular prints with a viewing distance of (2 - 4 m). The print speed is around 60 seconds per Ao. 'Production' prints with an higher density than 'Express Plus'.
'Production Plus'	This setting is appropriate for regular prints with a viewing distance of ( 2 - 4 m). The print speed is around 80 seconds per Ao. Use 'Production Plus' if prints that are printed with the 'Production' print setting show print artefacts that you want to reduce. 'Production Plus' prints with the same density as 'Production'.
'Quality'	This setting is appropriate for high quality prints with a relative short viewing distance (1- 2 m). The print speed is around 160 seconds per Ao. Use this print setting for prints that need color depth and need to be banding free 'Quality' prints with the same density as 'Production Plus'.
'Quality Plus'	This setting is appropriate for high quality prints with a relative short viewing distance (1- 2 m). The print speed is around 190 seconds per Ao. 'Quality Plus' prints with an higher density than 'Quality'.

## Before you begin

This setting is editable for the Key operator or Power user.

## How to set the 'Print setting'

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Basic' bar or click the value of the 'Print setting' setting.
3. Select the desired print setting.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## Set the 'PDF transparency flattening'

### Introduction

Transparency information in a PDF document, such as blends, need to be flattened before being printed. The setting is taken into account only for PDF documents containing transparency information.

You can choose one of following values.

- 'Quality'  
Select this value if print quality is an important factor. The processing speed will slow down and much more memory is required.
- 'Speed'  
Select this value if PDF processing performance is more important than print quality. Large and complex PDF files are processed faster and with much less memory but with potential impact on the image quality.

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the 'PDF transparency flattening'

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Postscript/PDF rasterization settings' bar or click the value of the 'PDF transparency flattening' setting.
3. Select the correct value.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.



---

## Set the 'PDF wipeout correction'

### Introduction

The 'PDF wipeout correction' setting allows you to print PDF documents containing unusual solid black areas which mask some parts of the drawing. When enabled, these PDF documents will be printed correctly but the processing of the PDF files will be slower. When disabled the correction is not applied.

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the 'PDF wipeout correction'

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Postscript/PDF rasterization settings' bar or click the value of the 'PDF wipeout correction' setting.
3. Select the correct value.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## Set the 'Long plot mode'

### Introduction

The 'Long plot mode' setting allows you to produce prints with a print length up to 175 meters.

When the 'Long plot mode' is disabled you can produce prints with a print length up to 22 meters. The print quality matches the print quality that you defined for your print job.

When the 'Long plot mode' is enabled you can produce prints with a print length up to 175 meters. To be able to print very long prints, the print quality may be less than the print quality that you defined for your print job.

### Before you begin

This setting is editable for the Key operator or Power user.



*Note:*

The 'Long plot mode' setting does not apply for PDF or PostScript files.

### How to set the 'Long plot mode'

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'General (non-postscript) rasterization settings' bar or click the value of the 'Long plot mode' setting.
3. Select the correct value.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

---

## Set the 'Automatic roll switch'

### Introduction

You can choose one of the following values:

- 'Enabled'  
Select this value if you have two or more media rolls that contain identical media (the same media type and media size). When enabled, the printer can automatically switch to one of the other media rolls when a roll runs out of media and continue printing.
- 'Disabled'  
Select this value if all media rolls contain different media types or media sizes.  
There are two options:  
If you select a specific roll number for your print job and the selected media roll runs out of media, the printing process stops.  
If you did not select a specific roll number for your print job, but only a media type and a media size, the printer automatically selects the roll that contains the required media type and size.

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the 'Automatic roll switch'

1. Click 'Preferences' - 'System properties'.
2. Click 'Edit' in the 'Printer properties' bar or click the value of the 'Automatic roll switch' setting.
3. Select the correct value.  
Select 'Enabled' if print productivity is an important factor.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## Set the 'Spool threshold'

### Introduction

When the job memory is full the printer can not receive new jobs. You can tune the 'Spool threshold' to define the spool capacity for specific job types. Allow a higher capacity for small jobs if you select Low. Select High if you want to reduce the risk of aborting file transfer of large print jobs if the job memory is full.

You can choose one of following values.

- 'Low'  
Select this value if you want to allow a higher capacity for small print jobs.
- 'Normal'  
This is the default setting.
- 'High'  
Select this value if you want to reduce the risk of aborting file transfer of large print jobs when the job memory is full.

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the Spool threshold

1. Click 'Preferences' - 'System properties'.
2. Click 'Edit' in the 'Printer properties' bar or click the value of the 'Spool threshold' setting.
3. Select the correct value.  
Select 'Low' if print productivity is an important factor.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

# Set the 'Print while RIP' setting

## Introduction

This setting is a performance optimization setting. When “Print while RIP” is enabled, for 'Express' and 'Express Plus' prints, the printer starts to print an image during rasterization of the image. Occasionally the rasterization of the image cannot keep up with the print speed. In such cases, the print process will be aborted (error code 22801) and the print will be recovered afterwards. To prevent this you can disable this setting. Even when disabled, the printer still starts to print rasterized pages before all pages of a job are rasterized.

You can choose one of following values.

- 'Enabled'  
This is the default setting.
- 'Disabled'  
Select this value if you often encounter error code 22801.

## Before you begin

This setting is editable for the Key operator or Power user.

## How to set the 'Print while RIP' setting

1. Click 'Preferences' - 'System properties'.
2. Click 'Edit' in the 'Printer properties' bar or click the value of the 'Print while RIP' setting.
3. Select the correct value.  
Select 'Enabled' if print productivity is an important factor.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

## Set the 'Rotation' mode

### Introduction

The 'Rotation' setting allows you to rotate the image according to predefined rotation values or you can let the printer perform the rotation automatically.

Choose one of the following values.

- 'No rotation'
- '90°'
- '180°'
- '270°'
- 'Auto rotate portrait'
- 'Auto rotate landscape'
- 'Auto rotate portrait with additional 180° rotation'
- 'Auto rotate landscape with additional 180° rotation'
- 'Auto rotate media saving'
- 'Auto rotate media saving with additional 180° rotation'

### When to do

If you want to give preference to a productive print setup and an efficient use of media, configure the system for 'Auto rotate media saving'.

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the rotation mode

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Layout' bar or click the value of the 'Rotation' setting.
3. Select the correct value.  
Select 'Auto rotate media saving' or 'Auto rotate media saving with additional 180° rotation' if the print productivity is an important factor.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

### Result

The output will be printed with minimal waste of media. In most cases this means that the output will be printed in landscape orientation, provided the output fits on the media in this orientation.

## Set the 'Alignment' mode

### Introduction

If you want to optimize the print productivity, you can reduce the distance the print carriage has to travel. You can, for instance, align the image to the top right-hand corner of the sheet.

You can choose the following alignment settings:

'Alignment' mode		
'Top left'	'Top'	'Top right'
'Left'	'Center'	'Right'
'Bottom left'	'Bottom'	'Bottom right'

### Before you begin

This setting is editable for the Key operator or Power user.

### How to set the alignment mode

1. Click 'Preferences' - 'Print job defaults'.
2. Click 'Edit' in the 'Layout' bar or click the value of the 'Alignment' setting.
3. Select 'Top right' if the print productivity is the most important factor.
4. Click 'Ok' to confirm your entries or 'Cancel' to reject your entries.

# Color Management

## What is Color management?

### Definition

The color management settings help you to reproduce the colors of your input as precisely as possible on the printed output.

With the color management settings you define how to convert the color-information of the file you want to print (input color space; RGB or CMYK color space) to the output color space of the Océ ColorWave 650 Poster Printer (CMYK color space). This conversion can require approximations in order to preserve the image's most important color qualities.

To be able to reproduce colors it is important to define the following.

- Input profile / Standardization
- Color feel / Rendering intents
- Output profile



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## What is an input profile / standardization?

### Definition

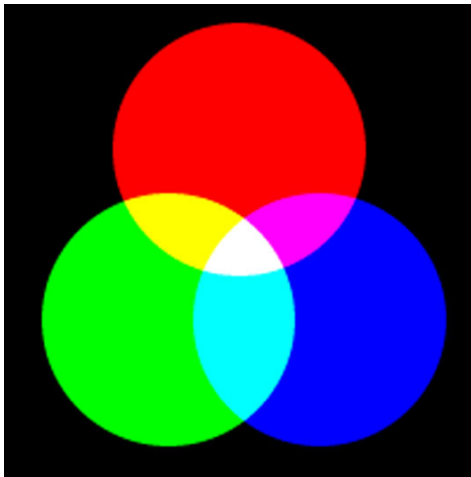
An input profile / standardisation defines what colour space you must use to interpret the colour information of the file you want to print in a correct manner.

The two main input profiles (colour spaces) are the following.

- **RGB**

The RGB colour space is based on the RGB colour model. RGB (Red, Green, Blue) is a suitable colour model for computer graphics because the human visual system operates in a similar manner.

The RGB colour space is an **additive** colour space, where you can mix colours based on light. You can create white light if you add equal parts of each of the three primary colours: Red, green and blue. All three colours are required to produce white and the absence of all three produces black. In additive mixing, the RGB colours are the primary colours and cyan, magenta, and yellow (CMY) are the secondary colours.



- **CMYK (Colours you print)**

The CMYK colour space is based on the CMYK colour model. The CMYK (Cyan, Magenta, Yellow and Black) colour space is a **subtractive** colour space, where you can mix colours based on subtracting light energy from the spectrum. The CMY toners are used to create RGB colours. All three inks are required to produce black and the absence of all three produces white. In subtractive colour mixing the CMY colours are the primary colours and RGB are the secondary colours.



You can define the input profile if you use the 'Color feel' setting 'Océ enhanced colors'. The table below gives an overview of the possible input profiles / standardisation settings.

Input profile / standardisation	Description
<b>RGB</b> - 'sRGB'	Use this setting to indicate the colour space of a standard computer monitor. sRGB is the most frequently used RGB colour space, especially in consumer grade digital cameras. sRGB is acceptable for most consumer applications. The sRGB design allows easy previewing on a standard computer display.
<b>RGB</b> - 'AdobeRGB'	This setting indicates an RGB colour space developed by Adobe in 1998. Adobe RGB has a larger gamut than sRGB. Adobe RGB is included in more medium-range digital cameras, and many professional graphic artists prefer Adobe RGB for its larger gamut.
<b>CMYK</b> - 'Euroscale coated'	This setting uses an offset press standard often used in Europe for printing separations and proofs on coated media.
<b>CMYK</b> - 'Euroscale uncoated'	This setting uses an offset press standard often used in Europe for printing separations and proofs on uncoated media.
<b>CMYK</b> - 'US Web coated (SWOP)'	This setting uses an offset press standard often used in the US for printing separations and proofs on coated media.

Input profile / standardisation	Description
CMYK - 'US Web uncoated'	This setting uses an offset press standard often used in the US for printing separations and proofs on uncoated media.

## What is Color feel?

### Definition

With the 'Color feel' setting you can fine-tune the **look and feel** of the printed colors. The 'Color feel' setting defines the color space conversion method.

'Color feel'	Description
'Océ CAD colours'	<p>Use this setting to get a print with bright, saturated colors.</p> <p>Advised for vector drawings (like HP-GL).</p> <p>All primary and secondary colors are clean, because they are printed with pure inks. This is clearly visible if you look at the color yellow that is printed with yellow ink only.</p> <p>An increase in coverage results in (almost) the same increase in ink.</p> <p>The blue color is not purplish but nice blue.</p> <p>This mode is preferred for CAD drawings created with applications like AutoCAD or ArcView.</p> <p>Photos printed in this mode will look dull and grayish.</p>
'Océ enhanced colors'	<p>Use this setting to get a print with photo-realistic colors.</p> <p>Advised for photos or graphic art presentations.</p> <p>If you select 'Océ enhanced colors' you can also adjust the advanced Color Management settings.</p> <ul style="list-style-type: none"> <li>■ 'Enhanced colors: RGB input data'</li> <li>■ 'Enhanced colors: CMYK input data' (only for TIFF and JPEG files or for PostScript and PDF files)</li> <li>■ 'Enhanced colors: rendering intent'</li> </ul>
'Simulated Océ TCS400 CAD colors'	<p>Use this setting to get a print with colors similar to the Océ TCS400 printer.</p>
'Simulated non-Océ printer: vivid colors' *	<p>Use this setting to get a print with colors similar to a non-Océ printer that prints vivid colors.</p>
'Simulated non-Océ printer: match screen colors' *	<p>Use this setting to get a print with colors similar to a non-Océ printer that prints match screen colors.</p>

'Color feel'	Description
'Simulated non-Océ printer: no color correction'	Use this setting to get a print with colors similar to a non-Océ printer that prints without color correction.
'None, managed by application' *	<p>Use this setting if your color management is completely done by the application that generated the print file.</p> <p>If color management is not handled correctly by the application, possible problems are:</p> <ul style="list-style-type: none"> <li>■ - blue will be purplish (like in most other inkjet printers)</li> <li>■ - raster-file information (like photos) will look dull and dark.</li> </ul>

\* The output quality of a simulated non-Océ printer setting depends on the selected input profile for simulated printers. Make sure you use the correct input profile for simulated printers.

Océ ColorWave 650 Poster Printer path: **Support - Input profiles.**

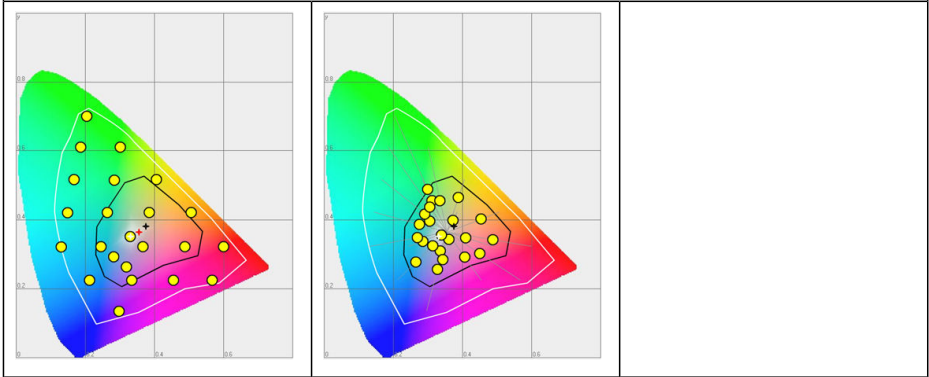
# What are Rendering intents?

## Definition of rendering intents

Normally the color space of a print file is larger than the Océ ColorWave 650 Poster Printer color space. In other words, the input color space is larger than the output color space. Consequently some of the defined input colors will be outside the Océ ColorWave 650 Poster Printer color space. These "out-of-gamut colors" are called a gamut mismatch. When a gamut mismatch occurs, the rendering intent setting decides what qualities of the image it should prioritize. The rendering intent setting preserves one property of color at the expense of other color properties.

## 'Perceptual (photo)'

This setting optimizes the output to produce best results for photos, artwork, GIS or images.  
Perceptual rendering tries to preserve some relationship between out of gamut colors, even if this results in inaccuracies for in-gamut colors.



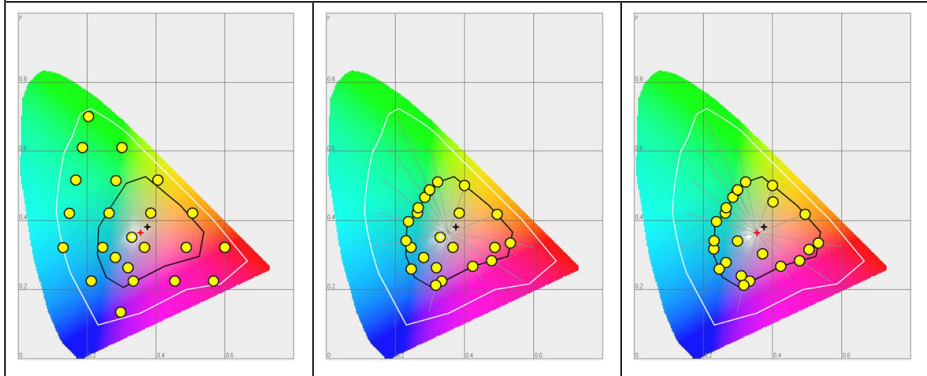
## 'Saturation (business graphics)'

This setting optimizes the output of bright, saturated colors.

Saturation rendering intent preserves saturated colors, and is advised if you try to keep color purity in computer graphics. Pure saturated colors in the original RGB device will still be saturated colors in the output color space, even if this results in relatively more extreme colors.

Saturation rendering intent is not advised for photos, because this setting does not try to keep color realism. The color saturation can come at the expense of changes in hue and lightness, which is normally an unacceptable trade-off for photo reproduction.

You can also use saturation rendering intent to prevent visible dithering if you must print computer graphics on an inkjet printer. It is not possible to prevent all dithering, because inkjet printers never have an ink to match every color. Saturation rendering intent can minimize dithering if the color is very close to pure.





## 'Relative colorimetric'

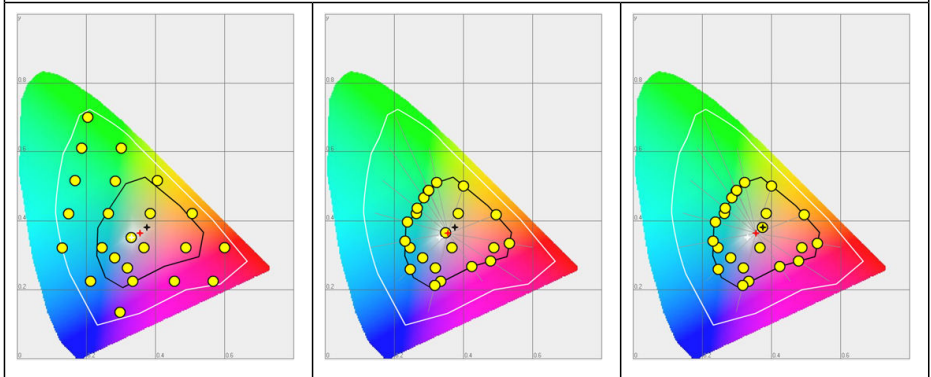
Relative colorimetric keeps an almost exact relationship between in gamut colors, even if this clips out of gamut colors.

The relative colorimetric rendering method replaces the colors to align the old white point (the location of the most pure and light white in a color space) with the new white point and to keep the relative positions of the colors. The Relative colorimetric rendering intent is advised for logos, spot colors or PowerPoint presentations, but the loss of contrast can be a problem with photos and images.



**Note:**

If you generate a color scan-to-file job in TIFF format on an Océ TCS400, an Océ TCS500 or an Océ TDS450, 'Relative colorimetric' gives the best result.



## 'Absolute colorimetric'

Absolute colorimetric is similar to relative colorimetric, but uses a different method to handle the white point.

Absolute and relative colorimetric both keep gamut colors and clip those out of gamut, but absolute colorimetric also keeps the white point.

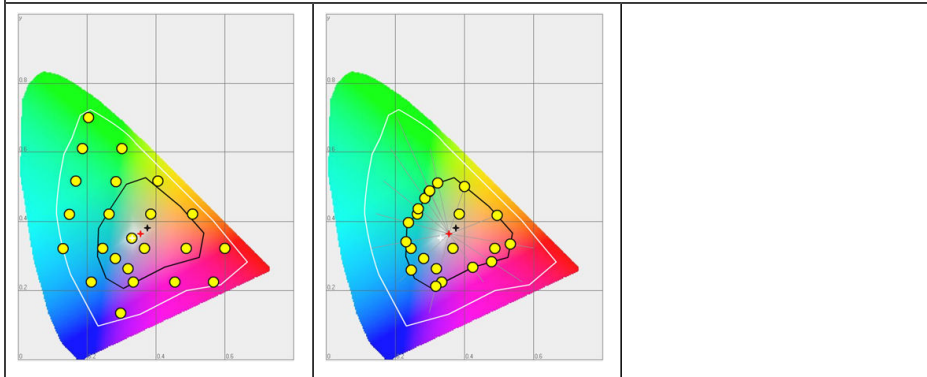
Absolute colorimetric is advised for "proofing" applications, that require a good color match, but also emulation of paper white. As a result of that, white areas can become yellowish, because the printer tries to emulate the whitepoint of the input profile.

This setting provides the highest accuracy in rendering RGB colors into CMYK colors, including rendering the source's white.



**Note:**

You can see the minor level of blue of the monitor background as a bluish white in the lightest tones of the printed output. A minor yellow tone can occur in the white tones of a PDF/TIFF original or an HP-GL type document.



## What is an output profile?

The output profile is used to adjust the converted CMYK color space based on the output device (via the Océ ColorWave 650 Poster Printer Printer Calibration Module) and the media type you select (via the Océ Media Profile file).

The output profile is applied automatically, but it is important that you load the correct media on the Océ ColorWave 650 Poster Printer and that the correct OMP-file is available on the 'Océ PowerM Plus controller'.

(see *Manage the media profiles* on page 252)

(see *Download a media profile from the Océ website* on page 254)

(see *Install a media profile* on page 255)

## Color management settings in the Océ Express WebTools

Depending on the type of file you want to print, the Océ ColorWave 650 Poster Printer offers different color-information conversions. You can select the color management settings, that give the best results for the color-information conversion.

Open the 'Preferences' - 'Print job defaults' tab to define the default color management settings per file type ('Color management settings for TIFF and JPEG files' or 'Color management settings for PostScript and PDF files').

The Océ WPD and the Océ Publisher Select job submission application offer the same color management settings, but now file type independent.



**Note:**

It is only important to know what the file type of your print job is, if you want to use or must use the color management settings defined in the Océ Express WebTools. If you define the color management settings in your Océ WPD or the Océ Publisher Select job submission application, the color management settings are automatically assigned to the correct file type (the color management settings defined in the Océ Express WebTools are overruled).

## Color management settings and job submission

The way in which you submit a print job to the printer defines in most cases the file type of the document. If you use a printer driver, the original file type will be changed by the driver into a standard file type. The printer checks the file type of the document and based on the file type the printer applies the default colour management settings of the Océ Express WebTools.

If you use FTP or LPR to send a job to the printer, the file type is not changed. The file is sent to the printer the way in which it was saved in the application you used to create or edit the file. If there is no embedded color profile present in the document, the printer checks the file type of the document and based on the file type the printer applies the default color management settings of the Océ Express WebTools.

If you want to use the embedded color profile for your print job (for example, embedded profile created with Adobe® Illustrator) you can choose between 2 options. You can use the WPD driver where you can indicate to follow the color settings managed by the application. You can also send the job via FTP or LPR. If the controller can recognize the embedded color profile, it will be applied. If the embedded color profile cannot be recognized, the controller applies the default color settings managed by the Océ Express WebTools.

The table below gives an overview of the relation between the job submission method, the file type and the color management settings


Job submission method	File type	Color management settings
Océ WPD <sub>1</sub> Océ WPD <sub>2</sub>	The driver converts all files into HP-GL/2	You can define the color settings in: <ul style="list-style-type: none"> <li>■ The printer driver.</li> <li>■ The Océ Express WebTools, by choosing the printer's default in the driver settings.</li> <li>■ The application, by choosing the setting 'None, managed by application' in the driver</li> </ul>

Job submission method	File type	Color management settings
LPR/FTP	<p>The documents are sent to the printer without being converted to another file type.</p> <p>The controller recognizes the following file types.</p> <ul style="list-style-type: none"><li>■ Raster: TIFF, JPEG</li><li>■ PostScript/PDF</li></ul>	<p>Depending on the file type of the job, the default settings of one of the 3 file type paths is used in the Océ Express WebTools when there is no embedded color profile present in the file. Use the Océ Express WebTools to adjust the color settings for the print job.</p>

## Priorities in the color management settings

When you want to print a document in color on the Océ ColorWave 650 Poster Printer the color information that is defined in the files can be set in the different steps of the process from document creation to document production. In order to get the best output results you need to be aware of these methods to define the color information of the document you want to print.

The color information that you can create in the various steps described below each have a different priority. When you create a document that you want to print in color, the priority of the color settings is also illustrated in the table below.

Stages in the process of making a color print	Priority
<p>Document</p> <p>The color settings are already embedded in the document (only applicable for PDF files).</p>	1
<p>Application</p> <p>The color settings can be defined in the application that you use to create or edit the document.</p> <p>You can set the following parameters in the application.</p> <ul style="list-style-type: none"> <li>■ Set color or black and white.</li> <li>■ Define the input profile, RGB input data or CMYK input data. (see <i>'What is an input profile / standardization?'</i> on page 281) You cannot define this for a PDF file.</li> <li>■ Define the rendering intents. (see <i>'Definition of rendering intents'</i> on page 286)</li> </ul> <p> <b>Note:</b> You can only overrule the color settings of a PDF file with an Adobe® application such Adobe Acrobat® for example.</p>	2
<p>Printer drivers</p> <p>The Océ WPD offers color management settings. You can select the required color management settings in the driver or you can indicate to use the printer's default settings. Make sure the color settings do not conflict with the color settings that may be set in another stage of the process.</p>	3

Stages in the process of making a color print	Priority
<p>The Océ Express WebTools offers 2 default paths for color settings based on the file type of the document:</p> <ul style="list-style-type: none"> <li>■ 'Color management settings for TIFF and JPEG files'  '<i>Color management settings for TIFF and JPEG files (RGB input)</i>' on page 297  '<i>Color management settings for TIFF and JPEG files (CMYK input)</i>' on page 298</li> <li>■ 'Color management settings for PostScript and PDF files'  '<i>Color management settings for PostScript and PDF files (RGB input)</i>' on page 299  '<i>Color management settings for PostScript and PDF files (CMYK input)</i>' on page 300</li> </ul> <p>These settings are applied when the controller cannot recognize or detect any color settings for the file to be printed.</p>	4



**Note:**

It is advised to align the color management settings that have been made in the different stages before you start the print job. The color space of the document and the settings for the print have to match. This means that if you have set the color settings in more than 1 stage of the process described above, you must check if the color settings do not counteract with each other.



## 'Color management settings for TIFF and JPEG files' (RGB input)

The default settings are emphasized.

Input profile		Color Management settings	
Input data	Standardization	'Color feel'	Rendering intent
RGB	<ul style="list-style-type: none"> <li>■ 'sRGB'</li> <li>■ 'AdobeRGB'</li> </ul>	'Océ CAD colours'	
CMYK	<ul style="list-style-type: none"> <li>■ 'Euroscale coated'</li> <li>■ 'Euroscale uncoated'</li> <li>■ 'US Web coated (SWOP)'</li> <li>■ 'US Web uncoated'</li> </ul>	'Océ enhanced colors'	<ul style="list-style-type: none"> <li>■ 'Perceptual (photo)'</li> <li>■ 'Saturation (business graphics)'</li> <li>■ 'Absolute colorimetric'</li> <li>■ 'Relative colorimetric'</li> </ul>
		'Simulated Océ TCS400 CAD colors'	
		'Simulated non-Océ printer: vivid colors' *	
		'Simulated non-Océ printer: match screen colors' *	
		'Simulated non-Océ printer: no color correction' *	
		'None, managed by application'	

\* The output quality of a simulated non-Océ printer setting depends on the selected input profile for simulated printers. Make sure you use the correct input profile for simulated printers.

Océ ColorWave 650 Poster Printer path: **Support - Input profiles**.

## 'Color management settings for TIFF and JPEG files' (CMYK input)

The default settings are emphasized.

Input profile		Color Management settings	
Input data	Standardization	'Color feel'	Rendering intent
RGB	<ul style="list-style-type: none"> <li>■ 'sRGB'</li> <li>■ 'AdobeRGB'</li> </ul>	'Océ CAD colours'	
CMYK	<ul style="list-style-type: none"> <li>■ '<b>Euroscale coated</b>'</li> <li>■ 'Euroscale uncoated'</li> <li>■ 'US Web coated (SWOP)'</li> <li>■ 'US Web uncoated'</li> </ul>	'Océ enhanced colors'	<ul style="list-style-type: none"> <li>■ '<b>Perceptual (photo)</b>'</li> <li>■ 'Saturation (business graphics)'</li> <li>■ 'Absolute colorimetric'</li> <li>■ 'Relative colorimetric'</li> </ul>
		'Simulated Océ TCS400 CAD colors'	
		'Simulated non-Océ printer: vivid colors' *	
		'Simulated non-Océ printer: match screen colors' *	
		'Simulated non-Océ printer: no color correction' *	
		'None, managed by application'	

\* The output quality of a simulated non-Océ printer setting depends on the selected input profile for simulated printers. Make sure you use the correct input profile for simulated printers.

Océ ColorWave 650 Poster Printer path: **Support - Input profiles**.

## Color management settings for PostScript and PDF files (RGB input)

The default settings are emphasized.

Input profile		Color Management settings	
Input data	Standardization	'Color feel'	Rendering intent
RGB	<ul style="list-style-type: none"> <li>■ 'sRGB'</li> <li>■ 'AdobeRGB'</li> </ul>	'Océ CAD colours'	
CMYK	<ul style="list-style-type: none"> <li>■ 'Euroscale coated'</li> <li>■ 'Euroscale uncoated'</li> <li>■ 'US Web coated (SWOP)'</li> <li>■ 'US Web uncoated'</li> </ul>	'Océ enhanced colors'	<ul style="list-style-type: none"> <li>■ 'Perceptual (photo)'</li> <li>■ 'Saturation (business graphics)'</li> <li>■ 'Absolute colorimetric'</li> <li>■ 'Relative colorimetric'</li> </ul>
		'Simulated Océ TCS400 CAD colors'	
		'Simulated non-Océ printer: vivid colors' *	
		'Simulated non-Océ printer: match screen colors' *	
		'Simulated non-Océ printer: no color correction' *	
		'None, managed by application'	

\* The output quality of a simulated non-Océ printer setting depends on the selected input profile for simulated printers. Make sure you use the correct input profile for simulated printers.

Océ ColorWave 650 Poster Printer path: **Support - Input profiles**.

## Color management settings for PostScript and PDF files (CMYK input)

The default settings are emphasized.

Input profile		Color Management settings	
Input data	Standardization	'Color feel'	Rendering intent
RGB	<ul style="list-style-type: none"> <li>■ 'sRGB'</li> <li>■ 'AdobeRGB'</li> </ul>	'Océ CAD colours'	
CMYK	<ul style="list-style-type: none"> <li>■ '<b>Euroscale coated</b>'</li> <li>■ 'Euroscale uncoated'</li> <li>■ 'US Web coated (SWOP)'</li> <li>■ 'US Web uncoated'</li> </ul>	'Océ enhanced colors'	<ul style="list-style-type: none"> <li>■ '<b>Perceptual (photo)</b>'</li> <li>■ 'Saturation (business graphics)'</li> <li>■ 'Absolute colorimetric'</li> <li>■ 'Relative colorimetric'</li> </ul>
		'Simulated Océ TCS400 CAD colors'	
		'Simulated non-Océ printer: vivid colors' *	
		'Simulated non-Océ printer: match screen colors' *	
		'Simulated non-Océ printer: no color correction' *	
		'None, managed by application'	

\* The output quality of a simulated non-Océ printer setting depends on the selected input profile for simulated printers. Make sure you use the correct input profile for simulated printers.

Océ ColorWave 650 Poster Printer path: **Support - Input profiles.**

# Check, analyze and solve output quality problems of print jobs

## Banding across the print with differences in color and gloss

### Description of the problem

Your print contains a banding across the media with a difference in color and gloss. The intensity of the banding can vary from left to right or vice versa. A clear picture of banding is visible on the side edge of your print. Banding mostly occurs in Production mode at densely printed areas.

You can perform an additional check to identify the problem. Simply measure the width of the banding. Each print mode has a typical banding width. The following table describes the connection between the print modes and the banding widths.

The connection between the print modes and the width of the banding

Print mode	Typical width of the banding
'Express'/'Express Plus'	42 mm
'Production'/'Production Plus'	21 mm
'Quality'/'Quality Plus'	17 mm

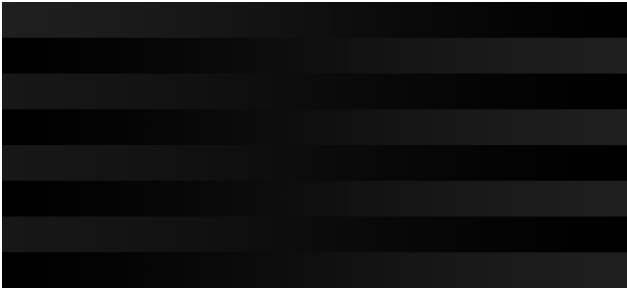
### Cause of the problem

- There are time differences at the turning point of the carriage unit. At one side, the time between 2 swaths is short (short turn). At the other side, the crystallization time between 2 swaths is long (long turn). Differences in the crystallization time of the toner can cause the banding patterns.

### Illustration



[299] Example of banding across the color print



[300] Example of banding across the black/white print

### How to solve the problem

1. Check if the media name on the printer operator panel matches the media that you currently use.
2. Reprint in 'Quality Plus' mode.
3. Check if the test print shows banding.
4. If yes, calibrate the media via the printer operator panel ('System' - 'Setup' - 'Calibration') *'Calibrate the scannerOcé ColorWave 650 Poster Printer'* on page 307.
5. Reprint the file.
6. If densely printed areas of the reprinted file still show banding, contact the Océ Helpdesk.

## Horizontal, wavy lines across your print

### Description of the problem

Your print contains horizontal, wavy lines across the media.

These light or dark lines

- appear in all colors
- can vary in thickness from left to right or vice versa
- can become lighter or darker across the media.

You can perform an additional check to identify the problem if you measure the distance between the wavy lines. Each print mode has a typical distance between the wavy lines. The following table describes the relation between the print modes and the distances.

The relation between the print modes and the distances between the lines

Print mode	Typical distance between the lines
'Express'/'Express Plus'	42 mm
'Production'/'Production Plus'	21 mm
'Quality'/'Quality Plus'	17 mm

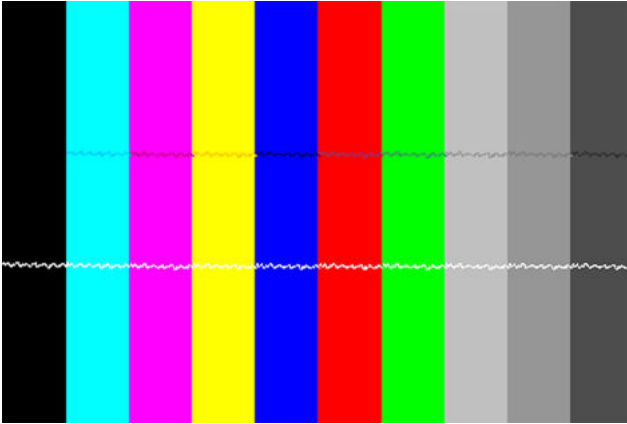
### Cause of the problem

The paper steps are not optimal. The following table describes the relation between the paper steps and the lines on your print.

The relation between the paper steps and the lines

When	Then
The paper steps are too big	The print will show light lines
The paper steps are too small	The print will show dark lines

## Illustration



[301] Example of horizontal, wavy lines across the Customer Analysis Tool

## How to solve the problem

1. Check if the correct media setting is used.
2. Check if the media name on the printer operator panel matches the media that you currently use.
3. Print the Customer Analysis Tool.  
This test print contains 10 colored bars.
4. Check if the test print shows white or dark lines across all colors. The lines usually appear at equal distances from each other.
5. If yes, calibrate the media via the printer operator panel ('System' - 'Setup' - 'Calibration') *'Calibrate the scannerOcé ColorWave 650 Poster Printer'* on page 307.
6. Reprint the Customer Analysis Tool demo print.
7. If the colored bars of the Customer Analysis Tool demo print still show wavy lines, contact the Océ Helpdesk.



## Thin horizontal, coloured or white lines across your print

### Description of the problem

Your print has one of the following problems.

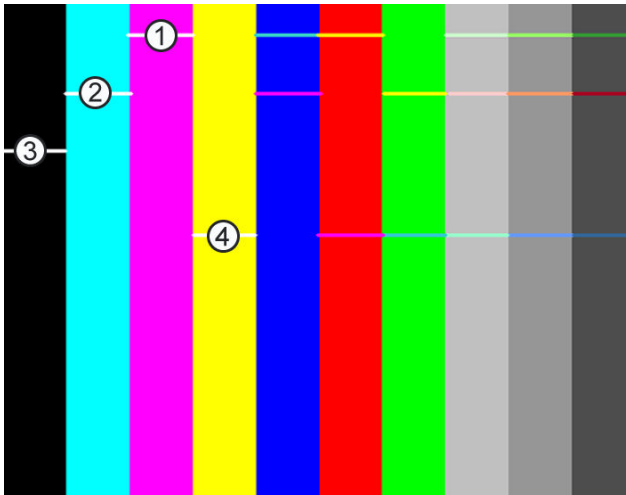
- Thin horizontal, colored lines in the multiple color areas
- Thin horizontal, white lines in the CMYK mono color areas.

The thin lines are also visible as colored lines in RGB areas and gray areas.

### Cause of the problem

During a swath of the 'Imaging devices', a nozzle drops out or a poor functioning nozzle misdirects the droplets. It is possible that the system compensates for the nozzle dropout during the next swath.

### Illustration



[302] Thin, colored lines in the multiple color areas'

Nozzle dropout

Number	Nozzle dropout
1	Magenta
2	Cyan
3	Black

4	Yellow
---	--------

### How to solve the problem

1. Check if the system compensates for the nozzle dropout during the next swath.
2. If the system does not compensate for the nozzle dropout, you must print the Customer Analysis Tool.
3. Check the colored bars of the test print.



*Note:*

Either check the test print on the second half of the print or reprint the Customer Analysis Tool and check the second print. When the colored bars are OK, the system functions correctly. However, it is always advised to switch to a higher print mode.

4. Select a higher print mode.
5. Try to print on another media.
6. If the colored bars of the Customer Analysis Tool demo print still show lines you must contact the Océ Helpdesk.

---

## Calibrate the scannerOcé ColorWave 650 Poster Printer

### When to do

**Note:**

Only roll position 1 can be used for calibrations.

**Note:**

Use only Océ 'Media' for reliable calibrations.

**Note:**

The printer will do the calibration automatically. You do not need to keep this printed calibration chart.

Evaluate the Customer Analysis Tool print. If the print shows any output quality problems, you can use this calibration wizard to check if the Océ ColorWave 650 Poster Printer works properly.

The calibration will take several minutes. The printed output is delivered at the back of the printer and led through the slot below the 'Top back cover'.

**Caution:**

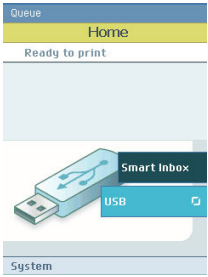
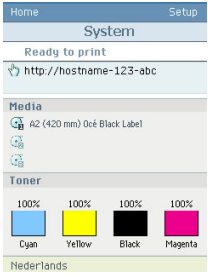

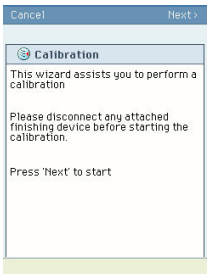
If a delivery tray is installed, remove the delivery tray from the engine and remove its data cable from the controller before you start the calibration.

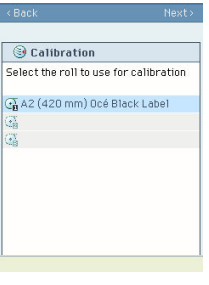
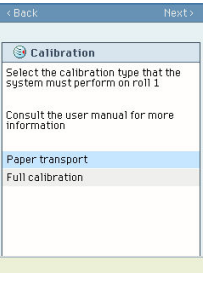

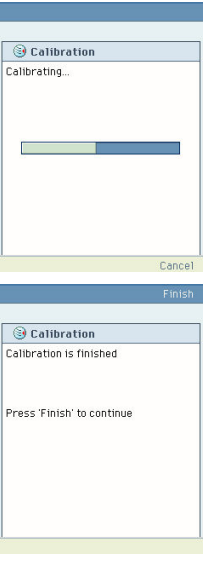
**Caution:**

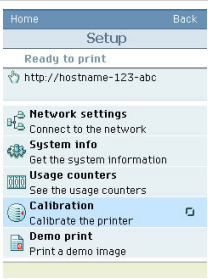

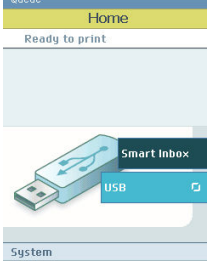
Calibration of the Océ ColorWave 650 Poster Printer is not possible while the printer is in Roll-to-Roll mode. Make sure Roll-to-Roll mode is disabled.

---

## How to calibrate the scannerOcé ColorWave 650 Poster Printer

Step	Action	Remarks
1	From the 'Home' screen on the printer operator panel, select the 'System' tab with the lower left soft key.	
2	Select the 'Setup' tab with the upper right soft key.	
3	Use the 'Scroll wheel' to select 'Calibration' and confirm with the 'Confirmation key' (above the 'Scroll wheel').	
4	The wizard assists you to do a calibration. 'Please disconnect any attached finishing device before starting the calibration.' Press 'Next >' to start the calibration.	

Step	Action	Remarks
5	Use the 'Scroll wheel' to select the roll you want to use for calibration and confirm with the 'Confirmation key' (above the 'Scroll wheel').	 <p>The screenshot shows a 'Calibration' screen with a 'Back' button on the left and a 'Next &gt;' button on the right. The main text says 'Select the roll to use for calibration'. Below this, there is a list of options, with 'A2 (420 mm) Océ Black Label' highlighted in blue. There are also some small icons and a scroll wheel indicator.</p>
6	Use the 'Scroll wheel' to select the calibration type and confirm with the 'Confirmation key' (above the 'Scroll wheel').	 <p>The screenshot shows a 'Calibration' screen with a 'Back' button on the left and a 'Next &gt;' button on the right. The main text says 'Select the calibration type that the system must perform on roll 1'. Below this, it says 'Consult the user manual for more information'. There is a section titled 'Paper transport' with two options: 'Full calibration' (highlighted in blue) and another option that is not clearly visible.</p>
7	<p>Press 'Finish' to continue.</p> <p> <b>Note:</b> If the calibration failed, you will be informed immediately through an error code on the printer operator panel.</p>	 <p>The first screenshot shows a 'Calibration' screen with a progress bar. The text says 'Calibrating...'. The progress bar is partially filled with green and blue. There are 'Cancel' and 'Finish' buttons at the bottom.</p> <p>The second screenshot shows a 'Calibration' screen with the text 'Calibration is finished'. Below this, it says 'Press 'Finish' to continue'.</p>

Step	Action	Remarks
8	Select 'Back' with the upper right softkey.	
9	Select 'Home' to return to the 'Home' screen.	
10	'Home' screen.	

## Result

Evaluate the Customer Analysis Tool print. Check if the print does not show any of the following output quality problems:

- *'Banding across the print with differences in color and gloss'* on page 301
- *'Horizontal, wavy lines across your print'* on page 303
- *'Thin horizontal, coloured or white lines across your print'* on page 305

If no output quality problems occur, the installation procedure is finished and your Océ ColorWave 650 Poster Printer is ready for use.

## Calibration error codes

### Introduction

Before or during the calibration, it is possible that the calibration failed. If this is the case, you will be informed immediately through an error code on the printer operator panel.



#### **Caution:**

Error codes are only displayed at the printer operator panel. If an error code is displayed that is not related to the calibration process, the user must follow the instructions on the printer operator panel to solve the problem.



#### **Note:**

For feedback about errors related to the processing of print jobs open the event list in the 'Jobs' tab.

### Overview calibration error codes

Error-code	Action	Remarks
22917	Calibration not accepted:	Roll not loaded
22918	Calibration not accepted:	Roll too small
22919	Calibration not accepted:	Media type not suitable for installation calibrations
22920	Calibration not accepted:	Media type not suitable for Y-alignment
22921	Calibration not accepted:	Media type not suitable for paper step calibration
22922	Calibration not accepted:	External output not available for delivery
22923	Calibration not accepted:	Printer engine status is not standby or the folder (if configured) is offline or turned off
22924	Calibration failed:	Out of toner during calibrations
22925	Calibration failed:	Out of media during calibrations

Error-code	Action	Remarks
22926	Roll not accepted:	Incomplete media profile information



# **Chapter 9**

## **License management**

## Introduction to managing licenses

### Introduction

The Océ applications and options are protected against unauthorized use. You need to activate the license to enable an application or option for use. The 'Support' - 'Licenses' tab in the Océ Express WebTools allows you to manage the licenses very easily.

This section describes the following.

- The basic concept of the licenses.
- How to manage the licenses.

## The 'Licenses' tab in the Océ Express WebTools

### Introduction

The 'Support' - 'Licenses' tab has the following possibilities.

### Possibilities

- View the currently active licenses.
- Get the host ID of the Océ system.
- Save the currently active licenses.
- Activate new licenses or saved licenses.

## The basic workflow of 'Support' - 'Licenses' activation

### Introduction

Before you can work with licenses, you must access the 'Support' - 'Licenses' tab in Océ Express WebTools to activate the licenses. The following workflow describes the available actions during the activation of a license file.

### The license activation workflow

1. View the current active licenses.  
You can make a list of new options you need and make a list of license numbers. Océ needs the list of new options and the license numbers to create a new license file.
2. Get the host ID of the Océ system.  
Océ needs the host ID of your Océ system to create a new license file.
3. Send the list of new options you need, the list of license numbers and the host ID to Océ.  
Océ creates and delivers one or more new license files.
4. Create a back-up of the current active licenses if necessary.  
Save the current active licenses to do so.
5. Activate the licenses.

The license activation job guides you through the following steps.

- 1. Locate the license file
- 2. Preview the new active licenses
- 3. Accept the end user license agreement
- 4. Finish the license activation job
- 5. Restart the Océ system.

## Check your licenses

### About the licenses

The 'Support' - 'Licenses' tab in the Océ Express WebTools allows you to manage the licenses that are active on your system. A license is needed to activate certain functions on your Océ ColorWave 650 Poster Printer.

You can use the 'Support' - 'Licenses' tab to perform the following tasks.

- View the current active licenses.
  - Get the host id of the Océ system.
  - Save the active licenses.
  - Perform a license activation job.
- You can activate new licenses or saved licenses.

### License information overview

Click 'Support' - 'Licenses' to view the available licenses.

You can view the license information for the following purposes.

- Check the active licenses on license state, license type and license duration.
- Check how long a license is valid.
- View all options available for your Océ system.  
The list of options depends on the type and version of the Océ system.
- Make a list of new options you need.
- Make a list of license numbers.

Information	Description
'Option'	<p>This field displays the name of the option.</p> <p>For Océ ColorWave 650 Poster Printer the following licenses are available.</p> <ul style="list-style-type: none"> <li>■ Océ ColorWave 650PP license</li> <li>■ Océ Account Logic</li> <li>■ Océ ColorWave Security Pack</li> <li>■ Adobe® PostScript® 3 / PDF</li> <li>■ Adobe® Simplified Chinese PostScript®</li> <li>■ Adobe® Traditional Chinese PostScript®</li> <li>■ Adobe® Japanese PostScript®</li> <li>■ Adobe® Korean PostScript®</li> </ul>

Information	Description
'State'	This field displays one of the following license states. <ul style="list-style-type: none"><li>■ 'Authorized'. You are authorized to use the function.</li><li>■ 'Not authorized'. You are not authorized to use the function, you need to get a license for the function.</li></ul>
'License type'	This field displays one of the following license types. <ul style="list-style-type: none"><li>■ 'Resale'.</li><li>■ Not for resale.</li></ul>
'Duration in days'	This field displays the time your license is valid.
'License number'	This field displays a license number.

# Save the currently active licenses

## Introduction

You can save all active licenses into one single file.

## Purpose

Save the currently active licenses, when you want to:

- Collect and save all active licenses of different types into one single file
- Create a back-up file before you start a license activation job.

## When to do

Save the currently active licenses before starting a license activation job or if you want to save the current license situation.

## How to save the license information



*Note:*

For this procedure, you need to log in as a System Administrator or Power User.

1. Open the 'Support' - 'Licenses' tab.
2. Click on the 'Save' button.  
The 'Save licenses' window opens.
3. Select a directory and enter the new file name you want to store the licenses under.
4. Click the 'Save' button to back up the currently active licenses.

## Result

All currently active resale and demo licenses are stored into one single file.

## Install a new license

### Introduction

The Océ applications and optional functions are protected against unauthorized use. You need to activate a license to enable an application or optional function for use. The 'Support' - 'Licenses' tab enables you to upload new license files to activate a license.

### Purpose

- Upload a new license file.
- Extend the existing licenses on your printer.



**Note:**

After the license is uploaded you must restart your system to activate the license file.

### How to get a new license file

1. Click 'Support' - 'Licenses' to display the license information page.
2. The login window appears. Log on as System administrator or Power user.
3. Click the host id hyperlink to display the host id information.
4. Copy the id and send the host id information to your Océ representative together with a list of options that you require.
5. After receiving the license file, store the file on the network.



**Caution:**

It is advised to store the license information of the currently active license files in a back-up file before you activate a new license file. Use the 'Save' button to store the current license files information.

---

### Upload a new license



**Note:**

For this procedure, you need to log in as a System Administrator or Power User.

1. Click 'Activate' to open a browser window to search for the license file on the network.
2. Browse the network and select the license file.



3. Click 'Ok' to start the activation of the license file. A message appears when the process is complete.
4. Restart the system to activate the changes.

## Result

- If you update an expired license, the new license file overwrites the previous license file.
- If you upload a new license, the license state in the overview is changed from 'Not authorized' to 'Authorized'.



# **Appendix A**

## **Contact**

## Online support for your product

### Introduction

Océ offers comprehensive support for your product on the website:

**<http://global.oce.com/>**

Here you can find the latest information that can help you to take full benefit of your product. You can also find answers to your questions.

Please visit the website regularly for updates on the following topics:

- Downloads:
- Support
- Supplies

### Downloads:

User manuals, printer drivers and other resources can change without prior notice. To stay up-to-date, you are advised to download the latest resources from:

**<http://global.oce.com/support>**

Before using your product, you must always download the latest safety information for your product. Before using your product, make sure that you read and understand all safety information in the manual entitled "**Safety Instructions**".

### Support

A Knowledge Base (OKB) with answers to your questions or problems is continuously being updated. To find an answer to your question or problem, please visit:

**<http://global.oce.com/support>** and select your product.

In the Support section, use the search field to enter your question. You will get a list of possible answers.

### Supplies

A media guide with the latest information is available on the website:

**<http://global.oce.com/supplies/>**

Here you can find the media that your product supports, for example. You can also find more information about supplies for your product, such as toner. You can also order new supplies directly through the website.

## Addresses of local Océ organizations

For the addresses of local Océ organizations, visit:

**<http://global.oce.com/contact/countries>**

## Comments

Send your comments by e-mail to:

**[itc-userdoc@oce.com](mailto:itc-userdoc@oce.com)**

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