Lexmark Integrated controller settings

These are the settings for a shared device whose **Controller Type** is **Lexmark Integrated**: the Print Director embedded app on a Lexmark device. For the device's other settings, see *Shared device settings*.

To open them, edit the shared device (**Print Management** > **Shared Devices**, double-click the device) and click **Controller** in the list on the left. Below **Controller Type** are the **Remote panel** link, which opens the device's remote panel in a web browser, and a second list of settings pages: **General**, **Printing**, **Authentication**, **Billing**, **Cards** and **Initialisation**.

To change several Lexmark devices at once, open **Print Management** > **Lexmark Integrated**, select the devices and edit them. Each setting then has a change box: tick it to apply that setting to all the selected devices, and leave the others unticked to keep each device's own value.

Most settings are stored in the embedded app on the device. After changing them, send them to the device with **Set all settings** or **Initialise** (see Initialisation).

General

Workflows & home screen

Setting	Description
Workflow profile	The set of workflow tiles shown on this device's panel. Click **...** to search. Choose **<do not install>** to send no workflow profile to the device. See *Workflow Profiles*.
Allocate advanced workflow licence	Gives the device one of your advanced workflow licences. The number still available is shown.
Place PD buttons on home screen page 1	Moves the PD Workflow and Release Job buttons to the front of the home screen. Untick it to leave the device's home screen layout as it is.
Show Release Job button on home screen	Untick it to remove the button. Release Job is also available as a workflow, which, unlike the button, can enforce settings such as single-sided printing. The button is hidden anyway when Secure Document Release is off.

Screen timeouts (seconds)

Setting	Description
User input	How long screens that wait for the user (for example the user ID or the job list) stay open.
Message	How long message screens (for example the number of jobs released, or the user welcome screen) stay open.

Panel search control behaviour

The user, account and matter screens on the panel can be searched.

Setting	Description
Method	**Starts with**, or **Contains** (searching *son* finds *Johnson*).
Field	**Code** (the Controller User ID, account code or matter code), **Name**, or **Both**.

Auto change Shared Device IP address

Update using IP address received from embedded app: when the app connects to the PDServer, the shared device's **Host or IP** is updated with the address the device reports, for example after a DHCP change. Untick it if the device connects through a router using NAT.

Welcome screens

Setting	Description
Before login	Shows a screen with a **Login** button. Tapping it starts the login, for example the card swipe or user ID screen. Untick it to start with the first login screen.
User after login	After login, shows the user's full name and balance. If you do not enforce credit limits, you can untick it.

Printing

Secure release

Tick **Enable Secure Document Release** so that jobs wait (on the PDAgent or the PDServer) until the user logs in at the device and releases them.

Setting	Description
Follow me printing	**Enabled** lets jobs sent to any queue matched to a follow-me device be released at any follow-me device in the same pull print group. **Disabled** means jobs can only be released at the device their queue is matched to.
Pull print group	Limits follow-me printing to a group of devices, for example devices with compatible drivers. Click **...** to add or delete groups.
Release method	**Individual selected release** shows the user a list to choose from. **Release all after login** prints all their jobs as soon as they log in.
Auto open job list	With individual release: shows the job list as soon as a user with waiting jobs logs in. Otherwise they tap **Release Job** on the panel.
Stay logged in	With **Release all after login**: keeps the user logged in after their jobs are released.
Show message after release	Shows a confirmation after jobs are released.

Release jobs in order of	The order of the job list: by submitted date, alphabetical, total pages, file size or total cost, each ascending or descending.
Show mono or colour	**Show all jobs**, **Only show colour jobs** or **Only show mono (black & white) jobs**. On a mono device, showing only mono jobs stops users releasing colour jobs there by mistake; on a colour device, showing only colour jobs keeps mono jobs for cheaper mono devices.

Download-print and native formats

Setting	Description
Use download-print when supported	Released jobs and cloud workflow print jobs are fetched by the device from the PDServer over a one-time link and printed by the device itself. Cloud printing then does not need Secure Document Release. Needs **Lexmark Integration (post tracking)** and a current Print Director app connected to the PDServer; otherwise jobs are delivered through the print port as usual. A workflow relay agent or Fiery destination chosen in a workflow still uses its own route.
Native formats	The file formats the device prints directly, separated by commas, for example *pdf,gif,jpeg,jpg,bmp,png,tiff,tif,pcx,dcx*. Resource Manager warns you about a format it does not recognise but still saves it, as newer Lexmark firmware adds formats.

Print job tracking

Tracking method sets how printed jobs are recorded:

- **Lexmark Integration (post tracking)** (recommended): the embedded app reports what was actually printed, which is more accurate. It is needed for **Prevent unauthorised printing** and for download-print.
- **Datastream interpretation**: Print Director reads the print data as it passes through the matched queues.

Prevent unauthorised printing

Available with **Lexmark Integration (post tracking)** only. **Confirm OK to print** sets whether the device checks each job with the PDServer before printing it:

- **Allow unauthorised**: jobs from any source print. Jobs that did not come through the PDAgent are only recorded if **Record as user** is set on the **Authentication** tab.
- **Only allow jobs from PDAgent** (recommended): the device looks for the authorisation the PDAgent adds to each job and has the PDServer validate it. A job without it is deleted.
- **Allow if username authenticated**: for systems that send jobs straight to the device, such as an ERP system. The device reads the user name from the job and has the PDServer validate it; the job prints and is recorded under that user. If the system does not put the user name where the device can read it, use **Allow unauthorised** instead.

Denied message is the text shown on the panel when a job is refused (*Print not authorised* by default).

Authentication

Authentication method

Setting	Options
Identification method	**Keypad login only** (no card swipe screen), **Card or keypad login** (card swipe screen with a manual login button) or **Card only** (manual login disabled).
Password requirement	**Only with keypad login** (a swiped card logs in without a password), **Always required** or **Never required**.

User name input

Setting	Description
User ID input	**Type only** keeps user names private. **Type or select** shows a list of users to pick from or search. The second drop-down sets the panel keyboard: **Alpha keyboard**, or **Number keyboard** when every user ID is numeric.
User ID label	The label shown for the field on the panel. With **Type only**, tick **Hide chars (*)** to show asterisks instead of the characters, for example when the user ID is used like a PIN.

Authentication requirements

Setting	Description
Show idle authentication screen	The device always shows the login screen. Once logged in, a user can print, copy and scan without logging in again until they log out or the session times out. Untick it to show the device's normal home screen; the login screen then appears when the user opens a function that needs a login.
Allow copy without login, **Allow scan without login**, **Allow fax without login**	Lets anyone use that function without logging in. These transactions are recorded under the **Record as user** below, which must be set.

Non-authenticated transactions

Jobs nobody logged in for, such as configuration pages printed from the device menus, scan or fax logs, and copies, scans or faxes allowed without login. Tick **Record as user** and choose the user to record them; otherwise they are not recorded.

Billing

Billing fields are used with the PD Pro licence, to bill print, copy, scan and fax transactions to accounts and matters.

Account Code

Setting	Description
Account requirement	**User setting** (the default) follows each user's popup setting: a user who must choose an account when printing must also enter one to copy, scan or fax. **No Account Code entry** and **Account Code required** ignore the user's setting at the device; it then only affects printing.
Account Code input	**Type only**, **Type or select**, or **User setting (search accounts)**, and the keyboard: **Alpha keyboard**, or **Number keyboard** when every account code is numeric.
Field label	The name shown on the panel, for example *Project* if your site bills to projects.

Matter Code

The same settings as the account code: **Matter requirement** (**No Matter Code entry**, **Matter Code required** or **User setting**), **Matter Code input** (with **User setting (search matters)**) and **Field label**. They are available when an account code is entered.

Comment requirement

Transaction comment adds a comment screen when the user starts a function such as copying. The comment is recorded against the transaction and shown in detailed reports: **No comment field**, **User setting** or **Require comment**.

Cards

Setting	Description
Self-register cards	What happens when someone swipes a card that is not yet assigned to a user: **Not allowed**, or the card is registered once they identify themselves with **PIN & password (AD or internal)**, **PIN only** or **AD username & password**.
Byte conversion method	How the card reader's data is turned into a card number: **Detect byte conversion**, **Treat bytes as literal numbers**, **Bytes are ascii codes for hex characters**, **Keyboard wedge codes for hex characters**, **Keyboard wedge codes for decimal characters** or **Keyboard wedge codes for string**.
Data ordering	**Normal** or **Reverse bytes**.
Start bit and **Bit length**	Which bits of the data form the card number.

Card readers with a keyboard wedge mode are supported. To set one up, initialise the device, swipe a few cards, then click **View swipes** to see how the data is read. If you know what a card's number should be (printed on the card, or from an access control system), adjust the conversion, ordering and bit settings until the same number is extracted.

Initialisation

App management

Item	Description
Use app version	The version of the Print Director app to install. Keep **Latest** unless the device is an older model that needs an earlier version; see *PD Lexmark Embedded Licence Structure*.
Initialise	Installs the app and sends all the settings. The app is ready to use afterwards.
Install	Installs and starts the app without sending the settings.
Uninstall	Removes the app.
Start app and **Stop app**	Starts or stops the app on the device.
Upload FTP	Sends the app to the device by FTP. Only for older firmware that does not accept web service calls.

Initialise and **Install** need HTTPS (see below).

Printer connection settings

How Resource Manager connects to the device's web interface.

Setting	Description
Username and **Password**	Needed when the device's Public access does not include the **Apps Configuration** permission (see below).
Use HTTPS	Keep ticked unless HTTPS has been turned off on the device.
Always trust device certificate	New devices use a self-signed certificate, which cannot be verified. Untick it only if the device has a certificate from a trusted certificate authority.

App settings on device

Item	Description
PDServer address	The address the device uses to reach the PDServer: one of the server's IP addresses or its host name. If you use the host name, check the device's DNS settings. **Set** sends only this setting to the device.
Read settings	Reads the app's current settings from the device and shows them in the output box.
Set all settings	Sends all the settings to the device without reinstalling the app.
All app settings	Opens the **App settings** window (below).

To set up a device:

1. Choose the settings on the other tabs, for example **Enable Secure Document Release** on **Printing**.
2. On **Initialisation**, check that **PDServer address** shows an address the device can reach.
3. Click **Initialise** and check the output box below the buttons for errors.
4. Click **OK + Refresh All**, then test by logging in at the device panel.

If initialising fails

Unauthorised: the device's Public access does not include **Apps Configuration** (in the device's web interface, under **Access Controls** > **Device Management**). Enter, under **Printer connection settings**, the credentials of a local account that has it. Use the device's **Default Login Method** for the browser (**Settings** > **Security** > **Local Accounts**): for *User Name/Password* enter both; for *PIN* or *Password* enter only the **Password**; for *User Name* enter only the **Username**.

InternalServerError: usually the device does not support the app version being installed. Choose another **Use app version**.

A Lexmark Log In screen appears instead of Print Director's: the device has local accounts. In its web interface, go to **Settings** > **Security**, click **Change** beside **Default Control Panel Login Method**, choose **Print Director Auth** and click **Save**.

App settings window

Click **All app settings** on the **Initialisation** tab. **Pull current settings from device** replaces what the window shows with the settings currently on the device.

PDServer connection

These apply to app version 3 and later.

Setting	Description
Device key	The key the app uses to identify itself to the PDServer. It is created automatically and is different for each device, so it cannot be changed for several devices at once. **Generate** creates a new one; send it to the device with **Set all settings** or **Initialise**.
Timeout	How many seconds the app waits for an answer from the PDServer (1 to 600, 30 by default).
Keep device CPU available for cloud requests	Ticked by default: the device's processor stays awake while the panel sleeps, so releases, cloud workflows and remote device queries are answered straight away. Untick it to save power; those requests may then wait until the device wakes. App version 3.0.1 and later. See *How to balance Lexmark power saving and cloud availability*.

Legacy prompt screens

Images and colours for the app's older prompt screens, which app version 3 rarely shows. For each image, untick **Use default** and click **Choose file** (gif, jpg or png, at most 480 by 272 pixels).

Setting	Description
Top left image	70 pixels high and 70 to 350 pixels wide.
Bottom left image	70 pixels high and 70 to 100 pixels wide.
Release job button up image and **down image**	The Release Job button when not touched and when touched, 80 by 80 pixels.
Colours (6 digit RGB hex)	**Top bar** and **Bottom bar** (9CCAEE) and **Prompt text** (29166F); **set default** restores one.

The PDServer's listening port for Lexmark devices is set in Resource Manager under **Tools** > **System Configuration** > **Networking**.

Related articles

- *Shared device settings*
- *Workflow Profiles*
- *PD Lexmark Embedded Licence Structure*
- *How to balance Lexmark power saving and cloud availability*
- *How to set up IPPS on Lexmark printers*
- *How to harden the security of Lexmark printers*
- *Lexmark print permissions for delivered jobs*

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