HP Integrated controller settings

These are the settings for a shared device whose **Controller Type** is **HP Integrated**: the Print Director embedded solution on an HP 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**, **Available licences** shows how many full and mini embedded licences are still free, and a second list holds the settings pages: **General**, **Printing**, **Authentication**, **Billing**, **Cards** and **Initialisation**.

To change several HP devices at once, open **Print Management** > **HP 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 sent to the device when it is initialised. When you change one of them, **Re-initialisation required!** appears: initialise the device again (see Initialisation) for the change to reach it.

General

URIs for PDServer connection

The addresses the device uses to reach the PDServer. Each has an **http://** or **https://** drop-down and an address list of the PDServer's host name and IP addresses, with the port.

Setting	Description
Services URI	The address of the PDServer services the device calls, for example to log users in and record jobs.
Prompts URI	The address of the PDServer pages shown on the device panel, such as the login, job release and billing screens.
Server timeout	How many seconds the device waits for an answer from the PDServer.

Device connection settings

Device URI: the device's own address, with **http://** or **https://**, which Resource Manager and the PDServer use to connect to it.

Quota service and Rules enforcement

Setting	Description
Install Quota Service	Installs Print Director's quota service on the device. It is needed for billing prompts (account, matter and comment) when copying, scanning and faxing, and lets Rules show their own messages when a job starts.
Enforce Rules on authorisation	When a user logs in, home screen items that a Rule does not allow them to use are locked.

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 the release button on the panel.
Stay logged in	Keeps the user logged in after releasing jobs.
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.

Print Job Tracking

Tracking method sets how printed jobs are recorded:

- **Statistics agent device reports** (recommended): the device reports what was actually printed.
- **Datastream interpretation**: Print Director reads the print data as it passes through the matched queues.

Authentication

Authentication type

Setting	Options
Identification method	**Keypad login only**, **Card or keypad login**, **Card only**, **Network auth only** or **Network auth or keypad login**. Network authentication is for biometric readers.
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. Tick **Hide chars (*)** to show asterisks instead of the characters, for example when the user ID is used like a PIN.

Non-authenticated transactions

Jobs nobody logged in for, such as configuration pages printed from the device menus. Tick **Record as user** and choose the user (click **...** to search) to record them; otherwise they are not recorded.

Always show authentication idle screen

Show authentication screen makes the Print Director login screen the device's home screen, so it is the first thing users see.

Billing

Billing fields are used with the PD Pro licence, to bill print, copy, scan and fax transactions to accounts and matters. Billing prompts for copying, scanning and faxing need **Install Quota Service** (see General).

Account Code

Setting	Description
Account requirement	**User setting** follows each user's popup setting. **No Account Code entry** and **Account Code required** ignore the user's setting at the device.
Account Code input	**Type only** or **Type or select**, 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** and **Field label**.

Comment requirement

Transaction comment adds a comment field to the panel. The comment is recorded against the transaction and shown in detailed reports: **No comment field**, **User setting** or **Require comment**.

Cards

USB device registration

The card reader plugged into the device must be registered for Print Director by its USB vendor and product IDs, **VID** and **PID**. Click **Choose known VID/PID** to pick a supported reader from the list (Elatec OEM RFID Device, ENGR 2210 USB keyboard, HID Omnikey 5427CK in keyboard wedge mode and HP Universal Card Reader X3D03A, with their IDs in hex and decimal). Choosing one also sets the matching **Byte conversion method** and **Data ordering**. The reader is registered when you initialise the device, and only when **Identification method** uses cards.

Card reader settings

Shown when **Identification method** is **Card or keypad login** or **Card only**.

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.

To check the settings, 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.

With a network authentication method, the page shows **Network authentication (biometric) settings** instead, with **Self-register biometrics**.

Initialisation

Initialising registers Print Director on the device with the settings above: the login and job release buttons, the services that authenticate users, authorise and record jobs, the quota service if ticked, and the card reader.

Item	Description
Password	The device's administrator password.
Model	The device model, read from the device.
Advanced settings	Opens the **Advanced HP Integrated settings** window (below).
View detailed info	Shows the full information read from the device.
Gather Info	Connects to the device and lists the services registered on it, with their **Agent Name**, **Service Type**, **URI**, **Server Context ID** and **ID**.
Remove Service	Removes the selected services from the device.
Initialise	Registers Print Director on the device. The box below the list shows the progress and any errors.

To initialise a device:

1. Enter the **Password** and click **Gather Info** to check that Resource Manager can reach the device.
2. If old or conflicting services are listed, select them and click **Remove Service**.
3. Click **Initialise** and check the output box for errors.
4. Click **OK + Refresh All**, then test by logging in at the device panel.

Advanced HP Integrated settings

Click **Advanced settings** on the **Initialisation** page.

Panel texts

Setting	Shown
Auth screen title	At the top of the login screen (*Print Director Login* by default).
Auth app name	On the login button (*PD Login*).
Pull screen title	At the top of the job release screen (*Release Jobs*).
Pull app name	On the job release button (*Release Job*).
Billing screens title	At the top of the billing screens (*PD Billing*).

Guest permissions

Specify permissions for the Guest user lists the device's functions and apps, read from the device by **Gather Info**. For each, tick **Guest Allowed** to let people use it without logging in, and **Auth User Allowed** for logged-in users. Right-click the list to tick or untick all or the selected rows. After changing them, initialise the device again.

Panel search control behaviour

Setting	Description
Search method	**Contains** (searching *son* finds *Johnson*) or **Starts with**.
Search field	**Primary object ID field**, **Object name**, or **Object ID and name**. The ID and name are the Controller User ID and full name for users, the account code and name for accounts, and the matter code and name for matters.

Related articles

- *Shared device settings*
- *HP Models supported by Print Director Integrated*
- *How to set up IPPS on HP printers*

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