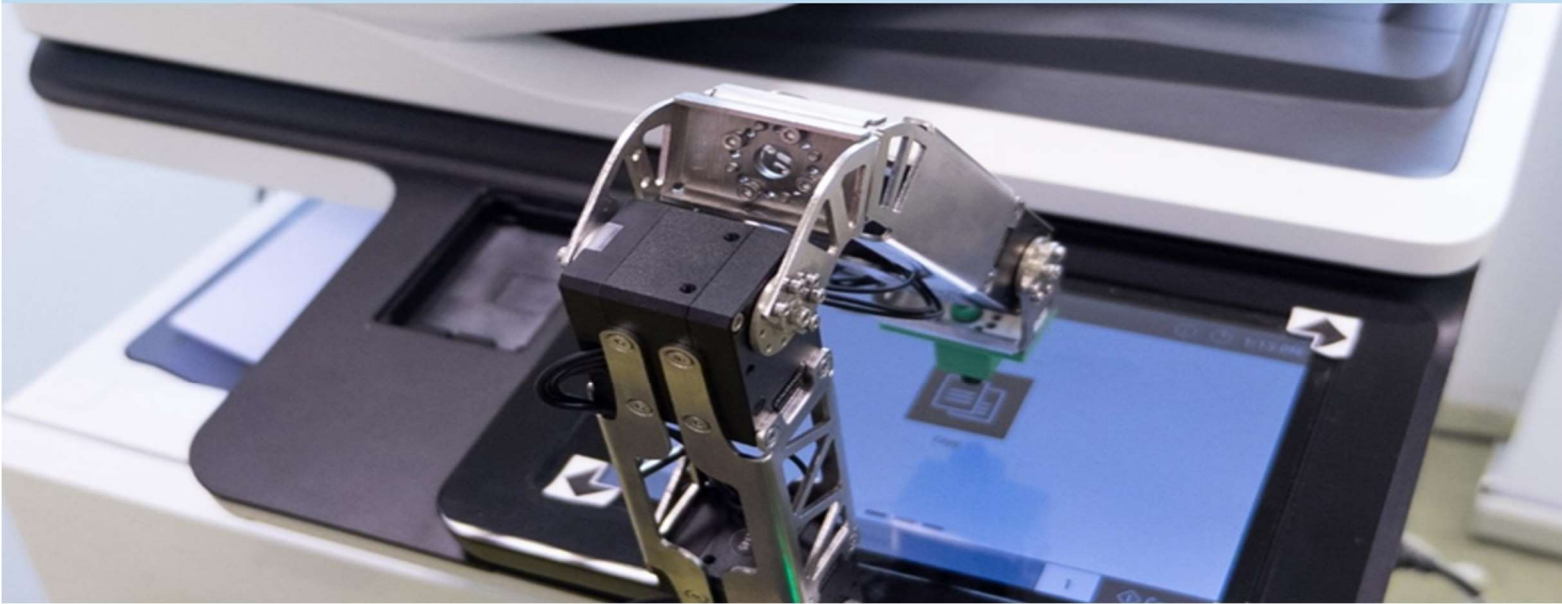


# HP Virtual Test Laboratory (VTL)



Quick Start Guide



## Table of Contents

Introduction.....	2
VTL Access & Control .....	4
How to use the VTL.....	4
How to create a booking .....	6
How to edit a Booking .....	8
How to access the desired Test Device .....	9
How to use the Robot .....	10

# Introduction

HP has a long history of collaborating with development partners to provide products and services that meet the needs and requirements of its customers. These development partners, working to develop Workpath/XPDP applications, have been given access to SDK's, Firmware, and technical documentation to help with their development efforts. To ensure these products and services conform to HP's security requirements and application platforms, HP performs cyber security and basic application testing as part of the application publishing process.

Insomuch as, the partners don't have access to all software enabled devices, the applications, often time behave differently based on the product family device and FW design than from the devices used during their development effort. To overcome this limitation, more testing on a variety of devices is needed. However, developers cannot invest into a full fleet of HP devices. To this end, HP has embarked on an initiative to stand up a Virtual Test Laboratory (VTL) to provide access to a greater number of HP devices which can be temporarily used by development partners to help to test new application developments and reproduce errors for issues customers face with certain solution stacks.

The VTL consists of a collection of printing and scanning devices set up to be accessed remotely via a secure network connection. Robots and real time cameras are set up at each device, to allow for viewing and controlling the devices from the developers' local workstation. Card readers are also available upon request during the booking process. It includes the necessary software to reserve and manage each device. Once a developer is connected to the VTL, they will be able to locally control and view what is occurring in the remote laboratory. The VTL allows for compatibility testing by making it possible to test a given development effort using different versions of firmware.

It also allows for manual testing where the developers can manipulate the controls on the device using the camera and robot, automated testing using testing tools and standard test scripts, or connection to devices via Embedded Web Services (EWS). Test engineers will be available to promote a seamless testing experience using the VTL.

GetAccessVTL@hp.com

The Virtual Test Lab will be staffed by **VTL Test Engineers** to perform:

- Device setup and configuration
- Verification of document outputs
- Local and remote management of the devices and connectivity
- Clearing paper jams
- Replacing toner cartridges
- Replenishing paper in empty paper trays
- Break-fix of equipment needing to be repaired.

To contact the VTL engineer you will need to send an email to [vtl@hp.com](mailto:vtl@hp.com). The VTL engineer will retrieve the email and address any issue related to the booking process, the booking portal, the robots, cameras, card readers, printers and scanners physically located in the VTL.

Any support going beyond the above will happen through the HP Developer Support Forum.

Depending on your privileges, it will provide support related to:

- SDKs
- Firmware
- Testing Tools
- HPID

To access the Developer Support, click: <https://jetadvantage.zendesk.com/>.

This document provides a quick overview of how to begin using the VTL, book devices for testing and using the robot control program.

You are encouraged to read the complete user guide to gain a better understanding of the full capabilities of the VTL and policies covering its use.

To get initial  
Access to the  
VTL

Available  
Support &  
Assistance



# VTL Access & Control

## How to access the VTL

- To access the VTL you can execute the link for the VTL Booking Portal ( <https://hpvtl.net/Bookings> ) to display the login page indicated below. The HP Virtual Test Laboratory is a multi-tenant system that allows multiple parties to remotely use a variety of HP devices to test and develop their applications in a safe and having a secure single tenant experience.
- For Workpath Apps, VTL users must have a registered App Center account and the ISV must have minimum one published Workpath App. If you meet those requirements, please log in with your HP-ID credentials. To verify your App center account or create an App Center account or add users in your organization's account go to <https://appcenter.smartcloudprint.com> to connect to the App Center Management Program.
- For non-Workpath Apps developers (OXPd), VTL users will have to send an email to [GetAccessVTL@hp.com](mailto:GetAccessVTL@hp.com) to request a temporary password. Within 24 hours you will receive an email containing a temporary password, you will have to reset the temporary password to a permanent one of your choosing.

## BOOKING PORTAL – SIGN IN



Navigate to  
<https://hpvtl.net>

Sign in using  
your HP ID  
credentials

Sign in using  
your Non-HP ID  
credentials

**hp VTL**  
Virtual Test Laboratory

**Welcome**  
Sign in by selecting one of the services below.

**Sign in with HP ID**

If you cannot access the VTL via HP ID please send an email request to [hpvtl.booking@hp.com](mailto:hpvtl.booking@hp.com) to obtain a temporary password. Please sign using the provided temporary password below.

Email  
Password

Remember me [Forgot password?](#)

**Sign in**

After entering and authenticating your credentials the booking portal-devices page will appear. This page shows a list of all the devices in the VTL, and their status. Locate and click on the device you wish to book. If the following page does not appear, you will not be able to use the VTL because your credentials have not been verified.

# BOOKING PORTAL – DEVICES PAGE


The screenshot shows the HP Booking Portal interface. On the left is a blue sidebar with 'Devices' and 'Bookings' options. The main area displays a table of devices with columns for Device Name, Model, Lab, Attached Robot, and Current Status. A search bar and a refresh button are at the top right. Annotations with arrows point to various UI elements: 'Devices Page' points to the sidebar; 'List of available devices' points to the device list; 'Expand to display additional device information' points to a chevron icon in the device list; 'Minimize sidebar' points to the minimize button; 'Refresh device list' points to the refresh icon; 'Filter/search devices' points to the search bar; and 'Click to book a device' points to a calendar icon in the status column.

Device Name	Model	Lab	Attached Robot	Current Status
> HP 779d1s	HP 779d1s	HP VTL Boise	69	Available
> HP M630	HP M630	HP VTL Boise	16	Available
> HP E586	HP E586	HP VTL Boise	15	Available
> HP E52645c	HP E52645c	HP VTL Boise	1	Available
> HP E77650dn	HP E77650dn	HP VTL Boise	14	Available
> HP M634e	HP M634e	HP VTL Boise	22	Available
> HP E877z	HP E877z	HP VTL Boise	8	Unavailable
> HP E826e	HP E826e	HP VTL Boise	4	Available
> HP E786z	HP E786z	HP VTL Boise	37	Available
> HP E77650	HP E77650	HP VTL Boise	42	Available

1 - 10 of 11    Items per page: 10

After clicking on a device, a detail page for the device will appear. Use this page to enter the desired booking dates and other parameters you wish to use for the device. Review notes in the image below to identify various functions on the form.

## CREATE A NEW BOOKING



**Devices**

**Bookings**

### Create new booking

**Selected devices (Maximum of 3)**

Device Name	Model	
HP 775dn	HP 775dn	<input type="button" value="x"/>
HP M630	HP M630	<input type="button" value="x"/>
HP E306	HP E306	<input type="button" value="x"/>

All devices will be booked for the selected time range. If you need to book devices for different time ranges, please create separate bookings.

**Start date** (time is displayed in your local time zone)   **End date** (time is displayed in your local time zone)   **Booking length**

**Calendar Timeline**

**Overall availability**

Device	Availability
HP 775dn	<span style="background-color: #f08080; width: 100px; height: 10px;"></span>
HP M630	<span style="background-color: #add8e6; width: 100px; height: 10px;"></span>
HP E306	<span style="background-color: #add8e6; width: 100px; height: 10px;"></span>

Booking conflict warning

Selected period  Device unavailable

**Additional request (optional)**

Type in your request...

You may request changes in e.g. software version or device equipment. Please note that an additional request may lead to longer provisioning time.

**Submit request**

**Save as draft**

*Select start and end dates. Full days only for a maximum of 30 days.*

*Add devices (Max. 3)*

*Remove device*

*Specify additional requirements. E.g., firmware, finisher, card reader, etc.*

*Remove device*

*Drag to zoom the calendar timeline*

*Booking conflict warning*

*Add devices (Max. 3)*

*Find my booking in the timeline*

*You can drag the timeline, drag the booking, and adjust the date range.*

*Close and cancel the booking request*

After entering the required information, click on the **Submit** option to save your request. The booking will be forwarded to the VTL laboratory engineer, who will perform additional steps which are part of the provisioning process. The provisioning process takes up to 24 hours to complete depending on the scope of your request. Currently, each booking test period will be 72 hours maximum in length. If more testing time is needed and the requested time does not overlap someone else's booking, indicate this in the **Additional Request** field at the time of your booking or send an email to the lab operator.

If you click the **Save as Draft** option, the request will be saved to be completed at another time. However, it will not progress to provisioning process and the devices in your booking are still available for others to book.

After the device booking has been submitted a summary will be displayed and the status will change to Requested. If additional changes for the device are required, click the **See or Edit booking details** option.

## BOOKING PORTAL – BOOKINGS PAGE



The screenshot shows the HP Booking Portal interface. A blue sidebar on the left contains 'Devices' and 'Bookings' options. The main content area features a table of bookings with columns for 'Booked Device', 'Start Date', 'End Date', 'Booking Status', and 'Last Changed At'. A single booking is listed with device IDs HP T786nc, HP E52645c, and HP M630, a start date of 2/23/2023 12:00:00 AM, an end date of 2/26/2023 12:00:00 AM, and a status of 'In Use'. The last change was on 2/23/2023 12:02:18 PM. A 'Filter' dropdown is set to 'Booking status: Draft, Requested, Approved, Provi...'. A 'Sort column' arrow points to the 'Start Date' header. A 'Search for booking' input field is present, along with a '+ Create booking' button and a 'Refresh list' button. A 'Minimize' button is in the bottom left. A mouse cursor points to a circular icon in the booking row.

**Annotations:**

- Bookings Page
- List of user bookings
- Filter booking list
- Sort column
- Search for booking
- Create new booking
- Refresh list
- See or edit booking details
- Expand to display additional device information


Booked Device	Start Date	End Date	Booking Status	Last Changed At
HP T786nc HP E52645c HP M630	2/23/2023 12:00:00 AM	2/26/2023 12:00:00 AM	In Use	2/23/2023 12:02:18 PM

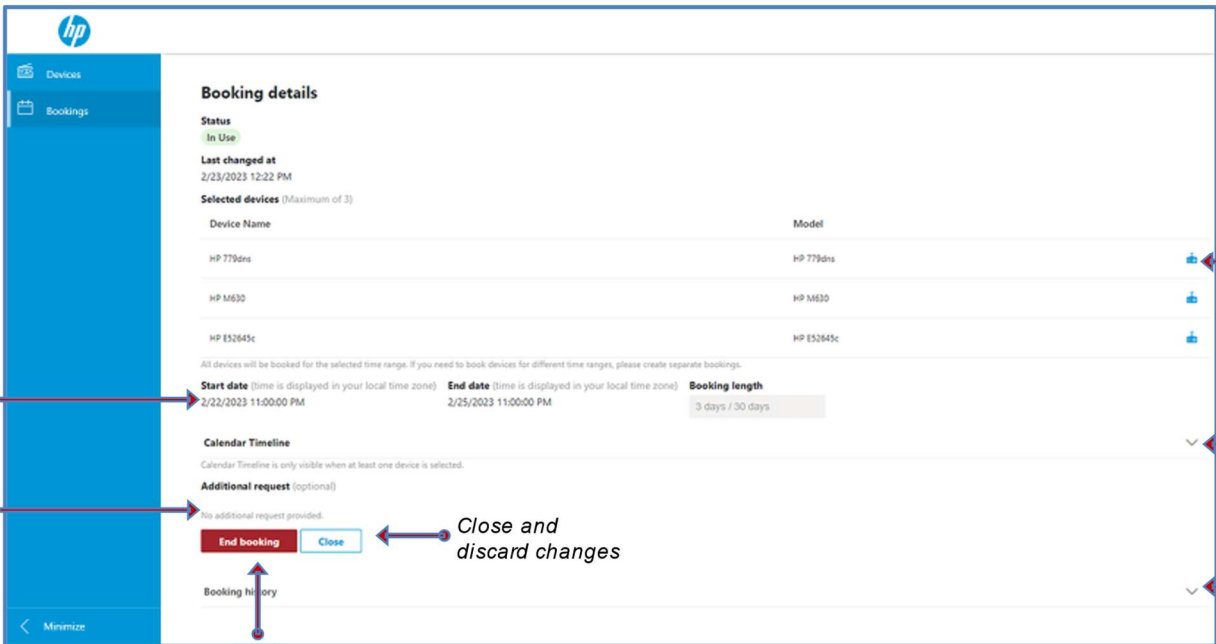


After clicking the **See or Edit booking details** option on the Bookings Page, the Edit Booking Screen will appear. Enter the desired changes in the designated fields.

Click the Save option to save changes. The status of the booking will be reset to **Draft**. Once saved you must select the "Request Booking" button to return the booking status to **"Requested"**.

## BOOKING DETAILS/EDIT BOOKING





The screenshot shows the HP Booking Details/Edit Booking screen. The interface includes a sidebar with 'Devices' and 'Bookings' options. The main content area displays the following information:

- Status:** In Use
- Last changed at:** 2/23/2023 12:22 PM
- Selected devices (Maximum of 3):**

Device Name	Model
HP 779dns	HP 779dns
HP M630	HP M630
HP E5264c	HP E5264c
- Start date (time is displayed in your local time zone):** 2/22/2023 11:00:00 PM
- End date (time is displayed in your local time zone):** 2/25/2023 11:00:00 PM
- Booking length:** 3 days / 30 days
- Calendar Timeline:** Calendar Timeline is only visible when at least one device is selected.
- Additional request (optional):** No additional request provided.
- Buttons:** End booking (red), Close (white)
- Booking history:** A section for viewing the booking history.

Annotations on the screenshot include:

- Change start and end dates (Full days only):** Points to the Start date and End date fields.
- Update additional requirements. E.g., firmware, finisher, card reader, etc.:** Points to the Additional request field.
- Close and discard changes:** Points to the Close button.
- End booking:** Points to the End booking button.
- Control device remotely (Only with "In Use" status):** Points to the remote control icons next to each device in the table.
- Expand or collapse details:** Points to the expand/collapse icons on the right side of the screen.

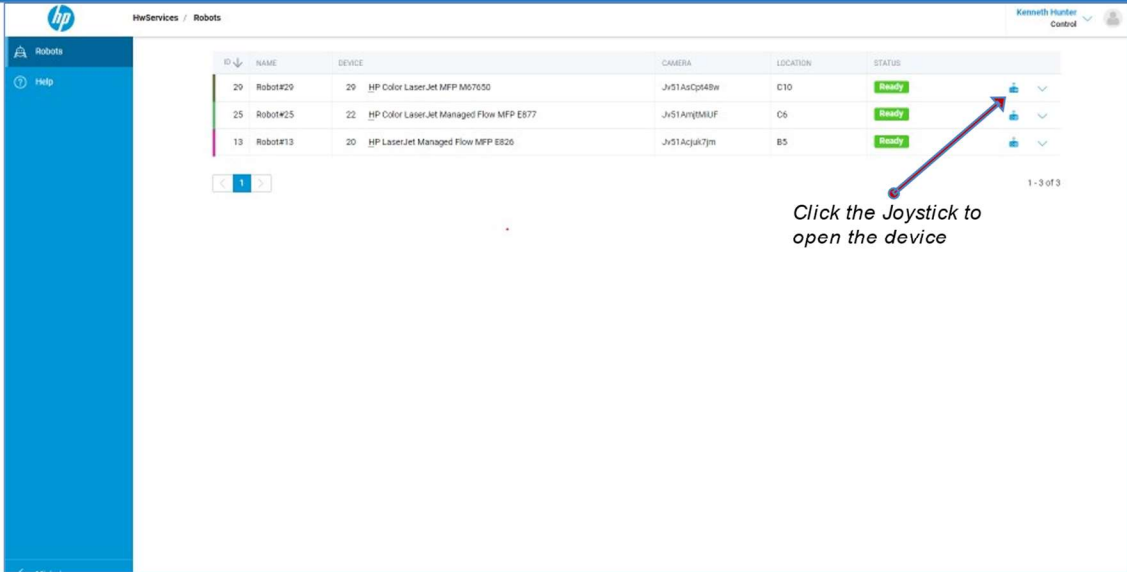
To undo or cancel changes, the user needs to select the Close option. Selecting the Cancel option will prompt the user to confirm if they want to cancel their booking request. Canceling a booking cannot be undone by the user.

After submitting your booking, the **Approval** and **Provisioning** processes begin. During this step, the booking will be verified, the latest firmware versions will be loaded onto each printer and the VPN access credentials will be created. After these tasks have been completed, the status will change to **Provisioned**.




The status will automatically change to **In Use** when your booking is set to begin. An email confirmation will be sent whenever there is a change in status.

After the status has changed to **In Use** the device is available to use for testing and the Control Device Icon will appear next to each device.

## Device Control PORTAL



The screenshot displays the HP Device Control Portal interface. At the top, there is a blue header with the HP logo and the text "Device Control PORTAL". Below the header, the main content area shows a table of robot devices. The table has columns for ID, NAME, DEVICE, CAMERA, LOCATION, and STATUS. The status for all devices is "Ready". A red arrow points to a joystick icon in the action column of the second row (Robot#25). A text box with the instruction "Click the Joystick to open the device" is positioned below the arrow.

ID	NAME	DEVICE	CAMERA	LOCATION	STATUS	
20	Robot#29	29 HP Color LaserJet MFP M67050	Jv51AsCp448w	C10	Ready	
25	Robot#25	22 HP Color LaserJet Managed Flow MFP E877	Jv51AmqMAUF	C6	Ready	
13	Robot#13	20 HP LaserJet Managed Flow MFP E826	Jv51Acjuk7jm	B5	Ready	

1-3 of 3

Click the Joystick to open the device

After selecting a device, you wish to control, the following screen will appear. This screen is an image of the control panel located on the physical device. A camera is setup at each device to show the actions occurring on the device's screen. Use your computer's mouse to manipulate the screen as you would with your finger as if you are standing in front of the device. This includes initiating a print cycle, scanning, faxing and changing options on the device.

## HOW TO CONTROL THE DEVICE REMOTELY

The screenshot shows the HP MFP M631h remote control interface. At the top, it displays 'HP MFP M631h' and 'Robot 31 Ready'. Below this is a 'How-to guide' icon and a 'Select Action' dropdown menu with 'Available actions' and 'Papers sensor' options. The main area shows a video stream of the device's control panel with icons for Copy, Scan, Print, and Fax. A context menu is open over the Copy icon, listing 'Single Tap', 'Long Touch', and 'Swipe'. At the bottom, there are 'Hardware Elements' including a 'HOME' button. Annotations with arrows point to various features: 'Click on the stream window to control the robotic arm' points to the video stream; 'Single tap: Click', 'Long tap: Hold the click for the desired time', and 'Swipe: Click and drag' describe mouse actions; 'Pause video stream' points to a pause icon; 'Control physical buttons' points to the HOME button; 'Rightclick to open a list of configurable actions' points to the context menu; 'List of additional control actions' points to the 'Select Action' dropdown; 'Fill the stream window with the device's screen' points to a full-screen icon; and 'Press to move the robotic arm out of the frame' points to a pin icon.

**Click on the stream window to control the robotic arm**

- Single tap:** Click
- Long tap:** Hold the click for the desired time
- Swipe:** Click and drag

**Pause video stream**

**Control physical buttons**

**Rightclick to open a list of configurable actions**

**List of additional control actions**

**Fill the stream window with the device's screen**

**Press to move the robotic arm out of the frame**

To use a card reader, click the Select Option drop down to display card reader dialog box.

## ADDITIONAL CONTROL ACTIONS



TYPE OF PAPER	NUMBER
A4 Simplex	0
A4 Duplex	0
A3 Simplex	0
A3 Duplex	0

Enter the card number to be sent to the card reader. (Min. 16 Characters)

If Papers Sensor is selected, click on Fetch to detect the paper size coming through.

### Example Copy of Provisioned Email:

Your booking has changed from state: Provisioning to state: Provisioned

Your booking is now PROVISIONED. This means that the operator has finished any work that may have been required to prepare the device(s). Please wait for the approved start time of the booking, at which time you will receive another notification. Alternatively, you could ask the operator to start the booking prematurely.