

# **RapidID™ Network Mapping System**

## **User Manual**

## **Documentation Revision History**

<b>Version Number</b>	<b>Modifications</b>	<b>Date</b>
1.0	Initial Release	5/24/2023
2.0	Updated for server and printing	11/10/2025

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# Introduction to *RapidID*™ Network Mapping System

The *RapidID*™ Network Mapping System automates labor-intensive and error-prone cable documentation, resulting in a faster, easier way to place and trace cables and patch cords. It is a practical alternative to traditional manual approaches that is ideally suited for building a new telecommunications room, locating installed cables, or replacing a network switch. Reduce the time and cost of patch cord documentation by up to 50%. With *RapidID*™, the painstaking labeling process is already done. Now network engineers can easily, quickly, and accurately place and trace cables to focus on more strategic initiatives. Minimize the risk of a network outage. Network documentation can drastically reduce downtime during an outage, but documenting physical infrastructure is extremely time-consuming and often overlooked or outdated. *RapidID*™ makes the documentation process less painful and reduces human error by eliminating the need for manual data entry.

## Features

- Pre-labeled patch cords that automate the labor-intensive and error-prone cable documentation process that can lead to an outage
- A feature-rich application for Windows®-OS desktop that reduces time and cost of patch cord documentation by up to 50%\* while helping control cost and risk associated with cable installation and management

\*Panduit internal time study, May 2021.

## Required Components

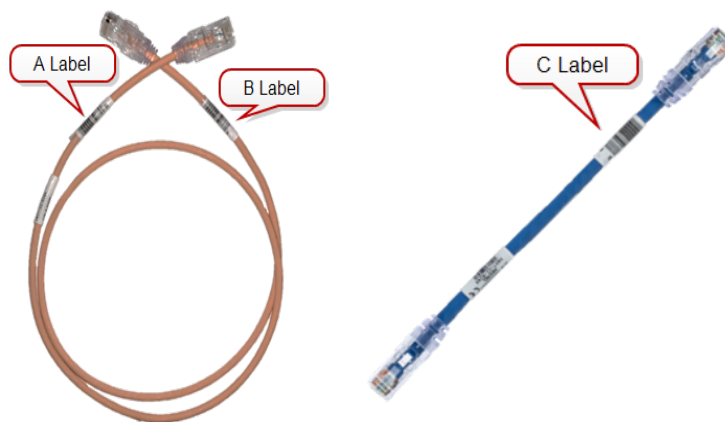
1. *RapidID*™ Enabled connectivity products.
  - a. Pre-labeled patch cords that contain *RapidID*™ labels
  - b. Field printed labeled patch cords by Pro/Pro+ licensed users
2. *RapidID*™ Compatible Third-Party Scanner
  - a. List of Panduit verified third-party scanners available at <https://www.panduit.com>
3. *RapidID*™ Software:
  - a. The *RapidID*™ software application is available for Windows® – PC through <https://www.panduit.com>

## Components

### **RapidID™ -Enabled Connectivity Products**

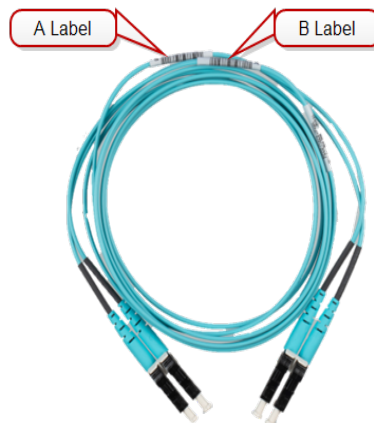
#### **Copper Patch Cords**

*RapidID™*-enabled copper patch cords are pre-labeled with unique *RapidID™* labels in addition to a product information label. *RapidID™* barcode labels have a designated barcode with an 'A' & 'B' on them. The *RapidID™* barcode is a unique identifier that is placed on the product when manufactured. For patch cords shorter than 12 in., a single *RapidID™* barcode is placed on the product, with a 'C' label.



#### **Opti-Core Fiber Patch Cord**

*RapidID™*-enabled Opti-Core fiber patch cords are pre-labeled with unique *RapidID™* labels in addition to a product information label. *RapidID™* labels have a designated barcode with an 'A' & 'B' on them. The *RapidID™* barcode is a unique identifier that is placed on the product when manufactured.



## **Fiber Trunk Assemblies**

*RapidID™* -enabled trunk assemblies are pre-labeled with unique *RapidID™* labels in addition to a product information label. *RapidID™* labels have a designated barcode with an 'F' & 'G' on it. The *RapidID™* barcode is a unique identifier that is placed on each connection when manufactured.



## **Retrofit Labels**

A reel of *RapidID™* labels specifically enable existing infrastructures for *RapidID™*. Labels are pre-printed with unique identifiers at the manufacturing facility. Retrofit labels are available by request through your local Panduit salesperson.



## RapidID Label Printing

Pro and Pro+ licensed users can print labels in the field using Panduit's MP300 Mobile Label Printer. RapidID™ field printed barcode labels have designated barcodes with a 'D' & 'E' and a designated single barcode with an 'S' for cables less than 1ft. 2D barcodes can be printed for racks and modules (devices and assets), using one of two templates. Field printed labels do not provide product information like factory installed labels.



Long Cable (1ft or longer)



Short Cable (less than 1ft)



Rack/Module Large



Rack/Module Small

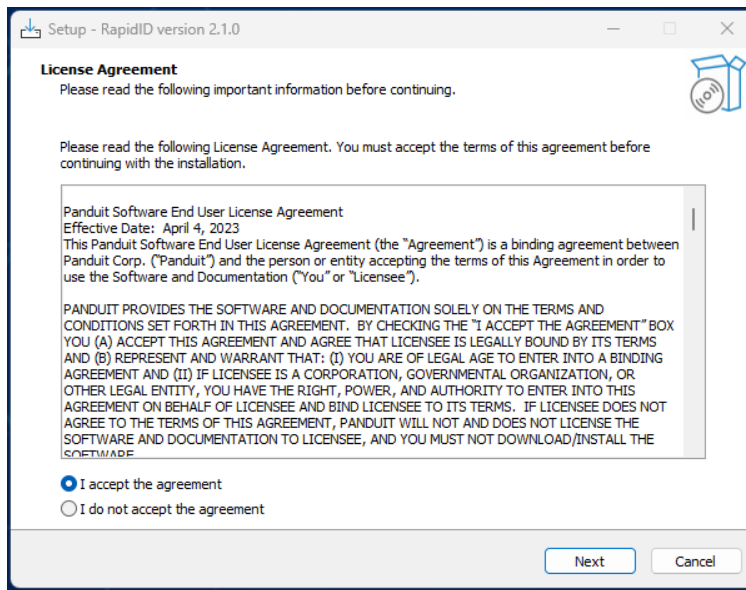
# RapidID™ Software for Desktop (Windows)

RapidID™ Desktop is a local host application that can be run on any Windows machine.

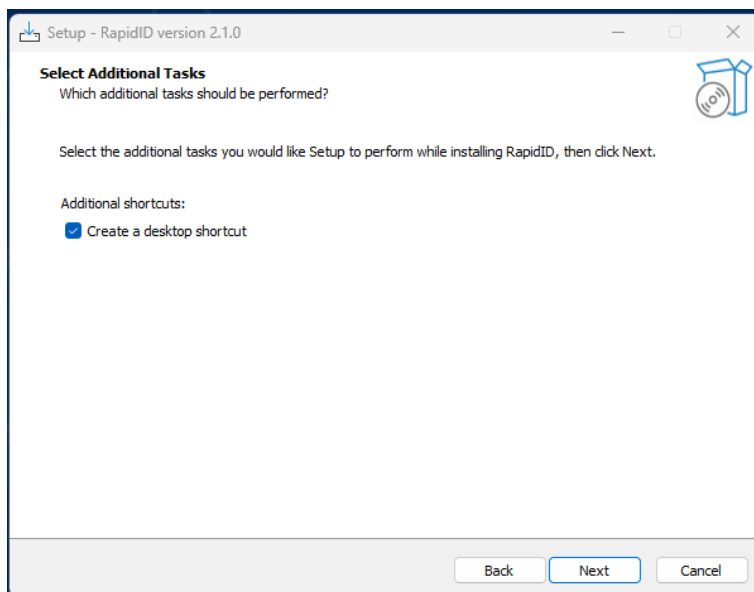
Users can download the software at <https://www.panduit.com>

To install RapidID™ onto a local Windows Device:

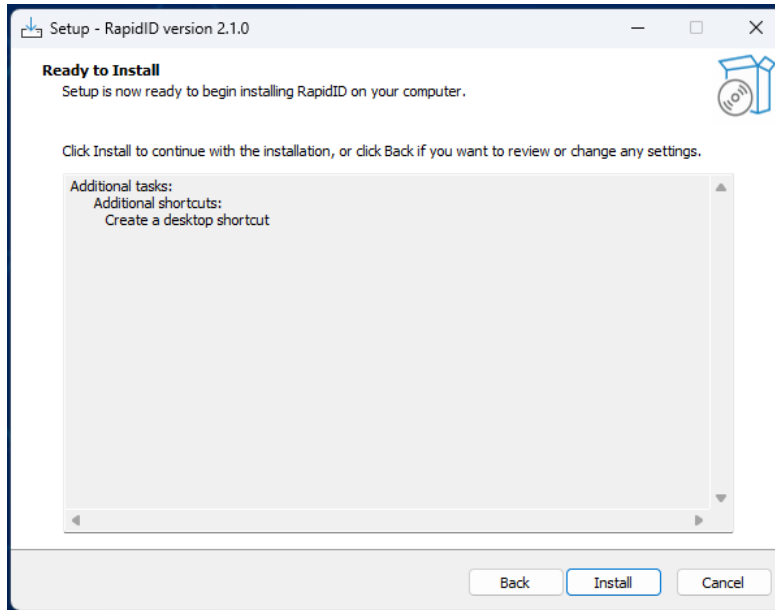
1. Agree to the terms of the End-User License Agreement.



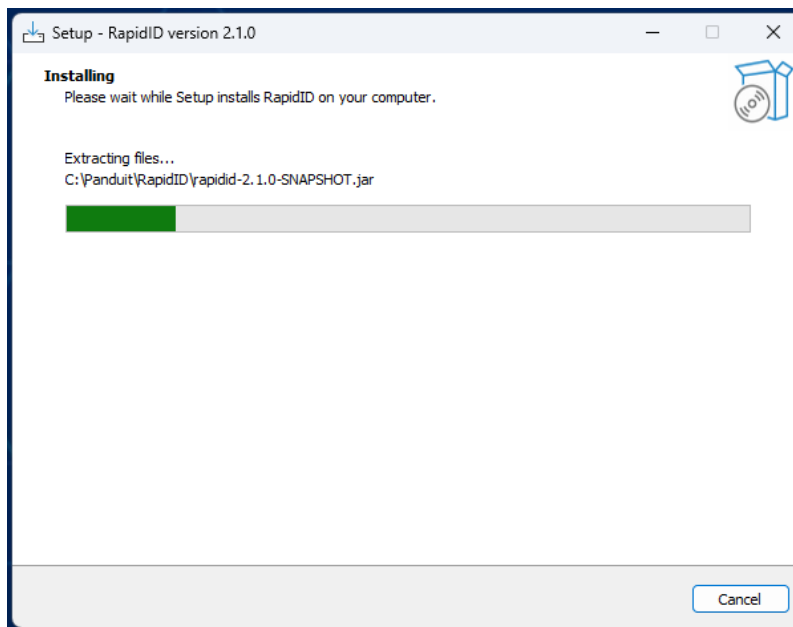
2. Create desktop shortcut (*optional*).



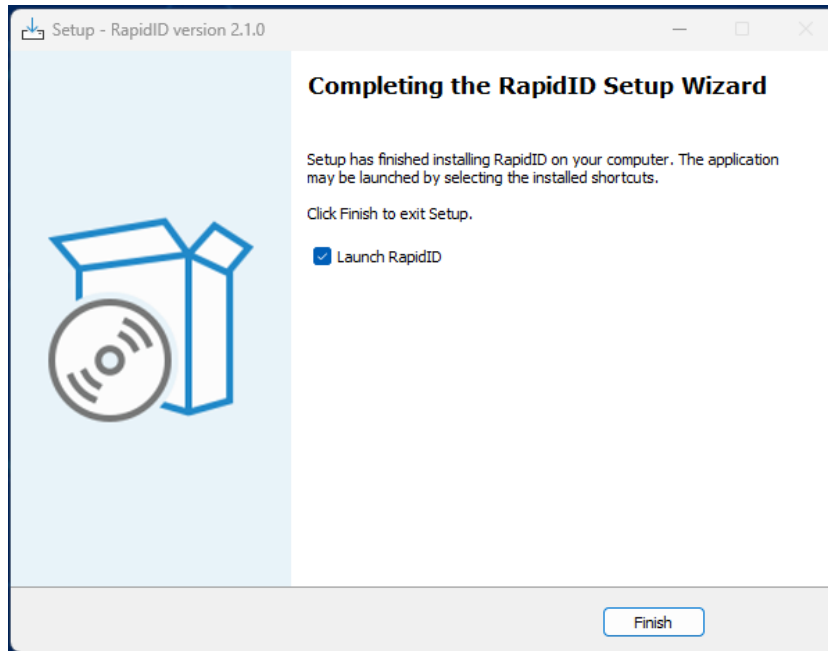
3. Start the installation.



*RapidID™* begins installing.

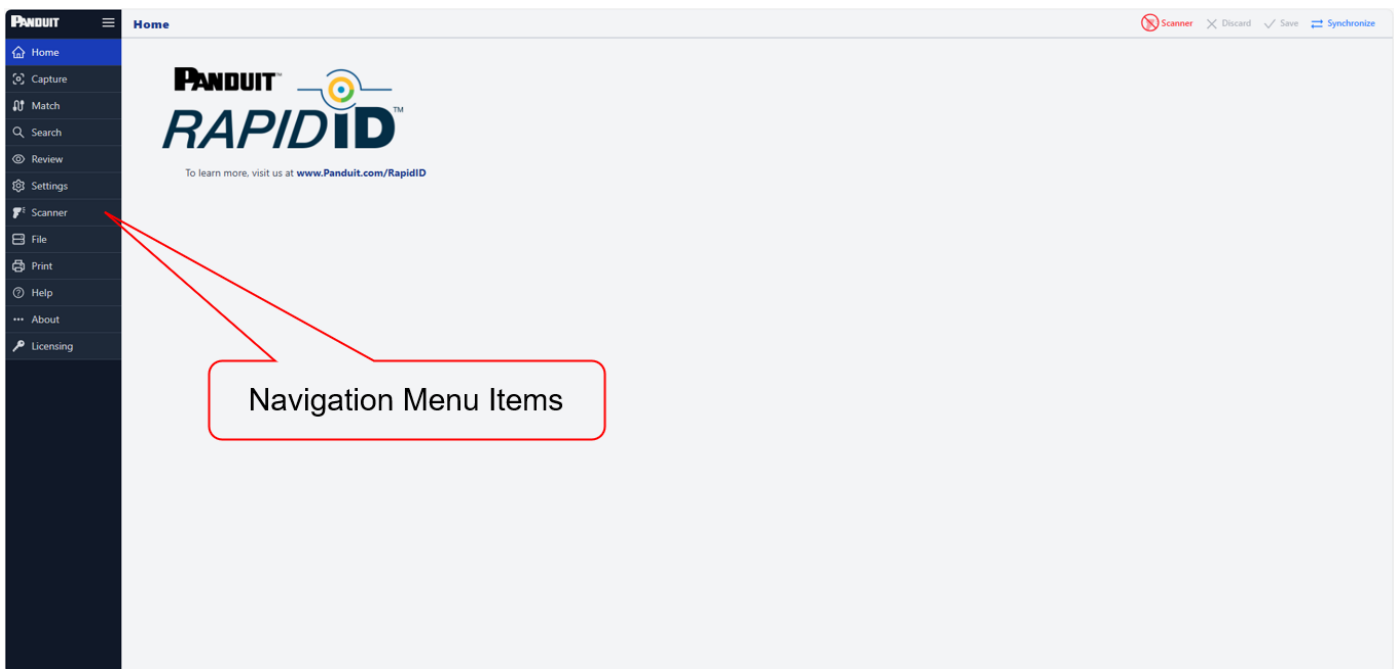


4. When installation completes, click **Finish** to launch the application.



## Navigation

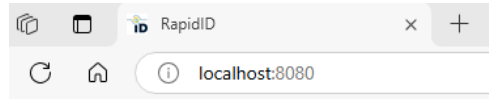
Starting the application takes the user to the home page.



## Application Launch

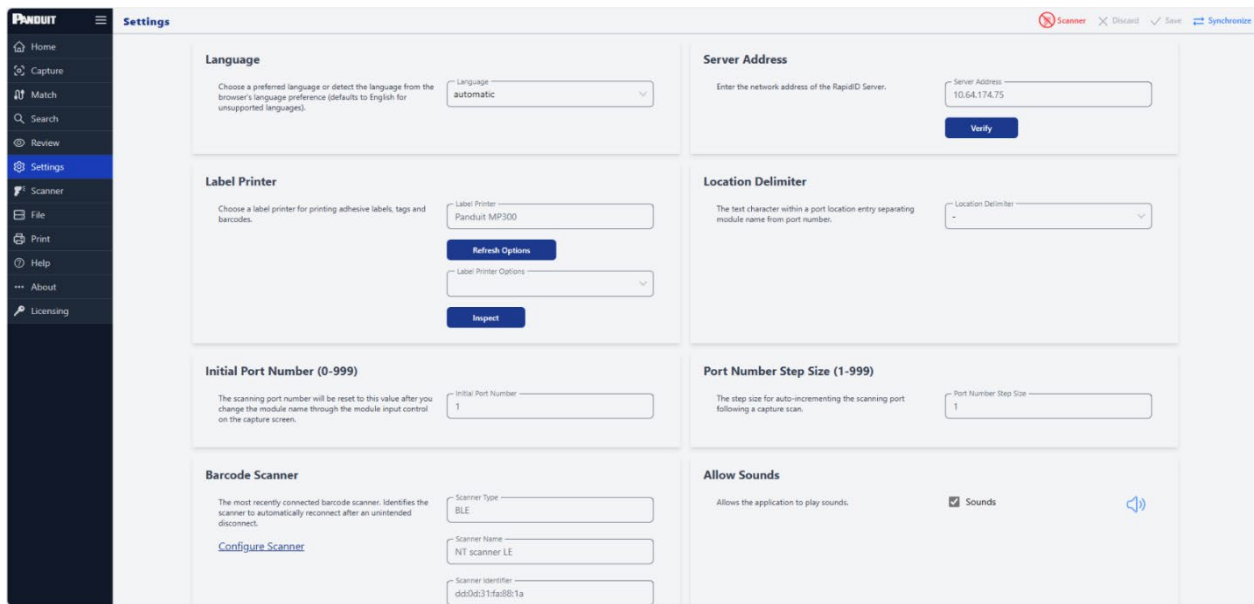
When launched, the *RapidID™* application will launch the server, open the local browser, and navigate to 'localhost:8080'

**Note:** Only one instance of the *RapidID™* software is allowed at a time.

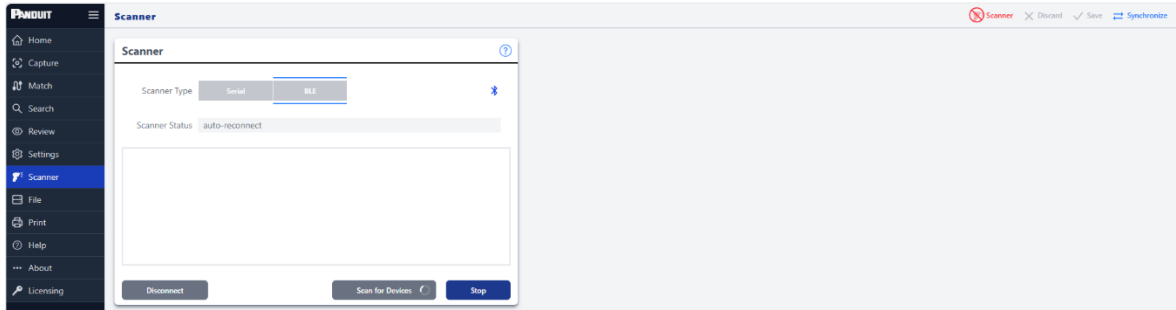


## Settings

General settings (language, port numbering, and sounds) as well as information about connected devices.

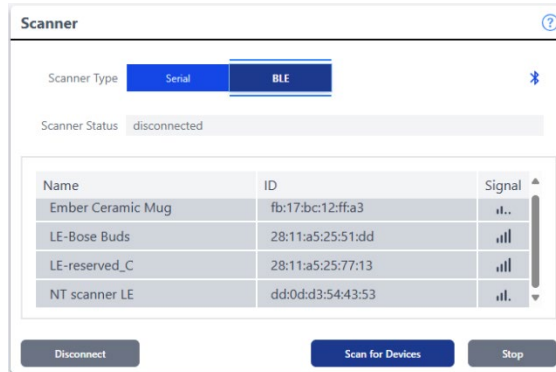


## Connect Scanner

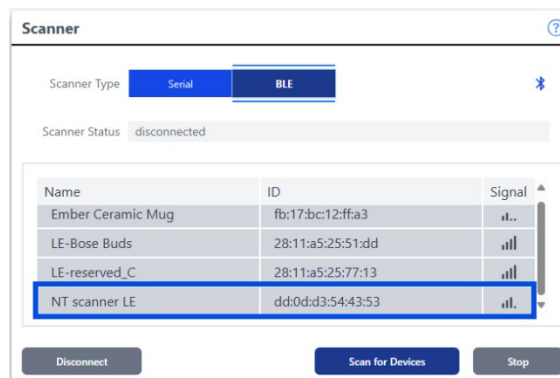


To connect a Bluetooth® scanner, use the following steps.

1. Click **Scanner** in the Navigation menu.
2. If not already scanning, click the **Scan for Devices** button.



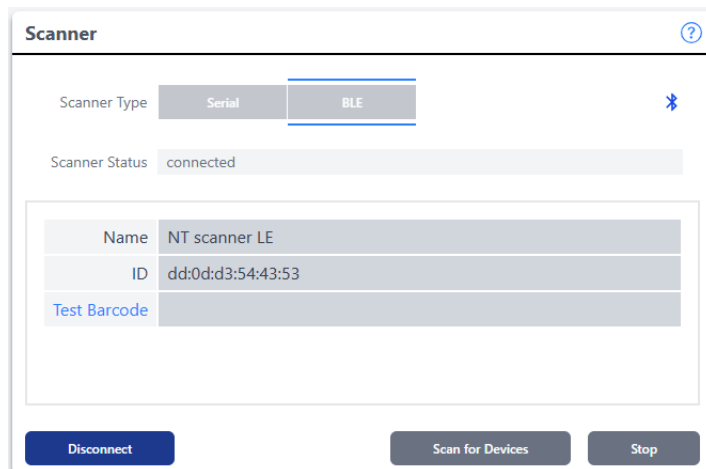
3. Select the scanner.



4. Follow the instructions found in the RapidID scanner guide available at <https://www.panduit.com>.

The scanner is now connected to the *RapidID™* application.

**Note:** The application will attempt to auto-reconnect when the scanner goes into sleep mode.

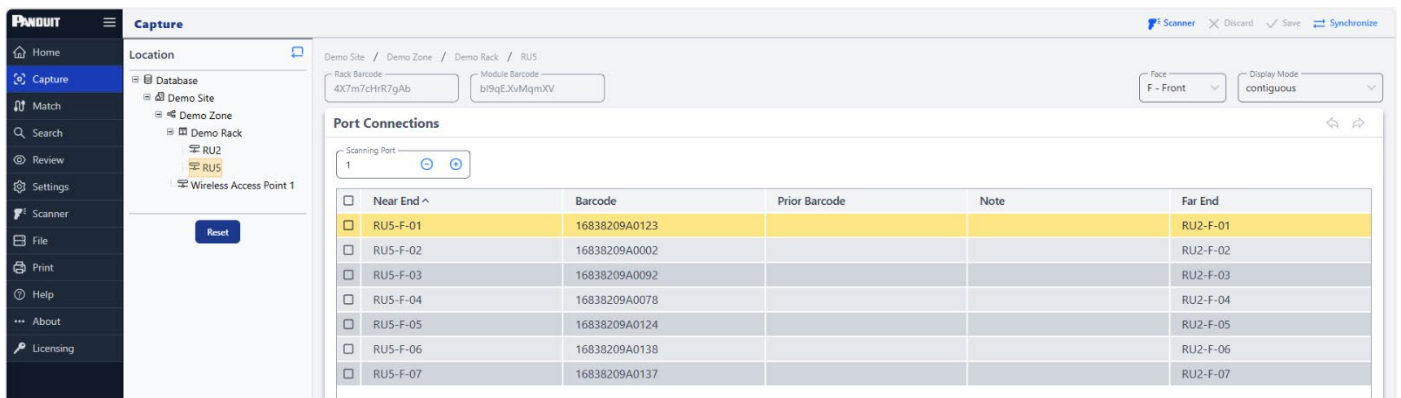
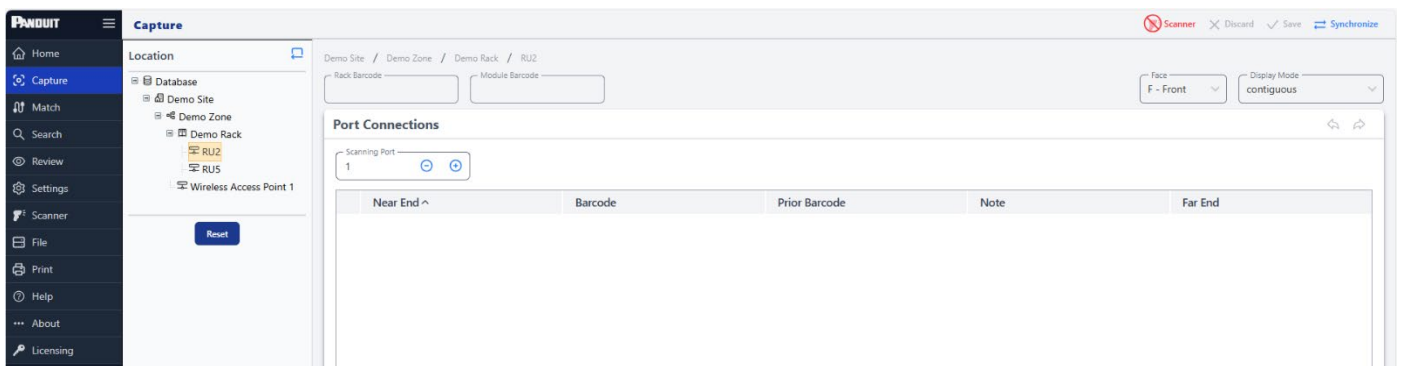


## Capture Page

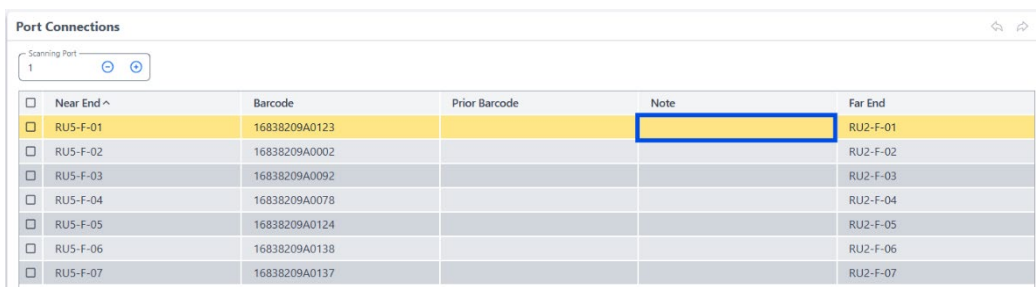
The **Capture** page collects information regarding the location of patch cords. In *RapidID™* Desktop, the user defines the location of patch cords using the **Site**, **Zone**, **Rack**, and **Module** fields.

**Note:** A Site, Zone, Rack, and Module must be defined and selected before beginning to scan.

As the user scans, the scanning port auto-updates to the next consecutive port in the module.

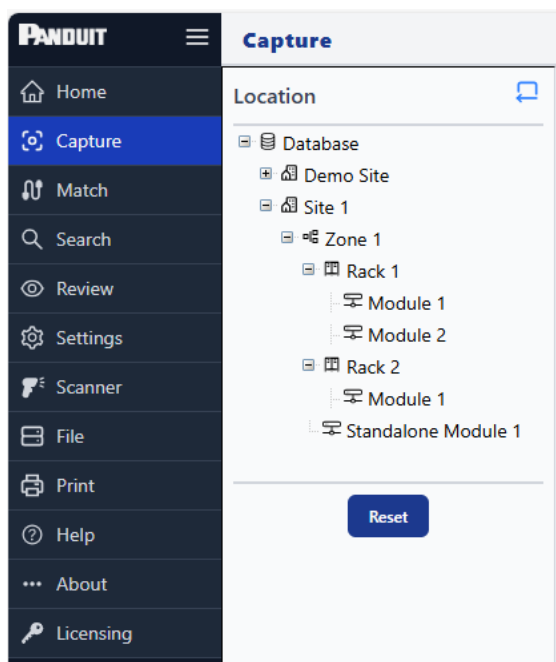


A user can add a note to a cable with the free form text field in the note's column. Notes are connected to each side of a connection.



## Data Structure: Site – Zone – Rack – Module – Ports

- **Sites:** The top level which represents a physical location or site where data is stored or processed. Examples could include a building or a campus.
- **Zone:** The second level is the Zone, which represents a specific area within a site. They can have varying levels of detail, and a site can contain many zones. Examples could include a cabinet in a data center, or an entire telecommunications room.
- **Rack:** The third level is the rack, which represents infrastructure that houses modules within a zone. Racks can have multiple modules.
- **Module:** The third or fourth level is the module, which represents a specific functional unit within a zone or rack. Zones and racks can have multiple modules. Examples could include networking equipment such as switches, servers, and patch panels.
- **Ports:** The fourth or fifth level is the port, which represents a specific interface or connection within a module. For example, a network switch has several ports. Ports range from 1-999.



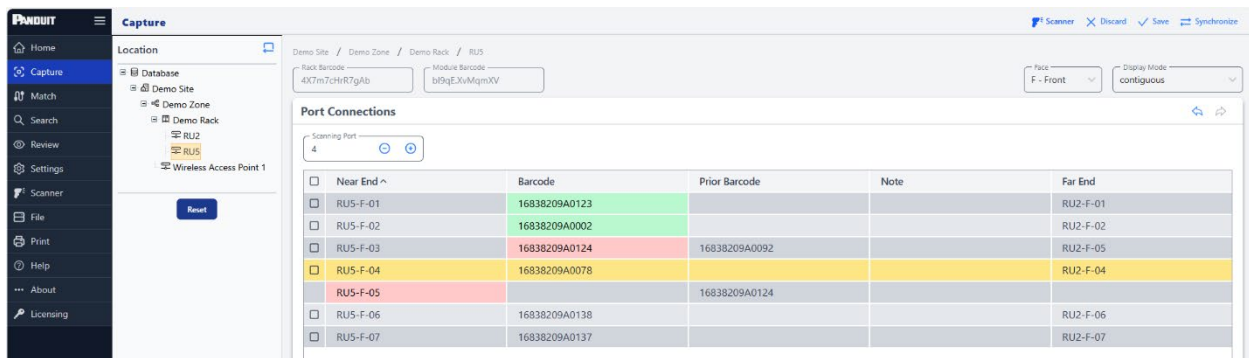
**Tip:** Setting up a data structure that makes sense for your organization is important. Define a structure ahead of time to ensure clean data. Structures can be imported in the File menu option.

## Verify

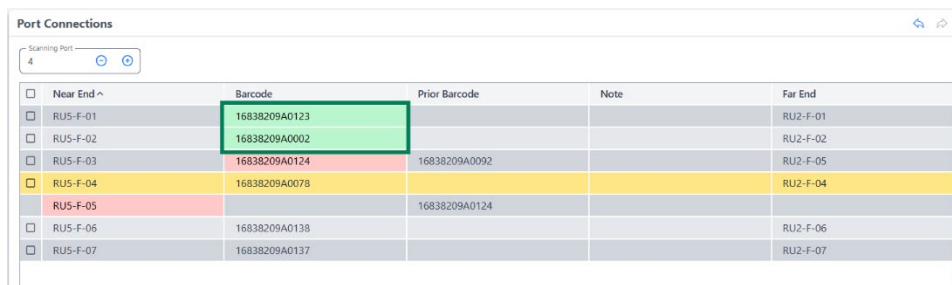
The verification function, located within Capture, allows for a comparison to be made between current patch cord locations and previously saved results. This enables users to verify the connection location during troubleshooting or an audit, after initial documentation has been completed.

To Verify:

1. Navigate to the area where connections need to be verified.
2. Confirm the starting location.
3. Scan cables connected to the port locations.



Cables that are confirmed to be in the correct position will highlight green.



Cables that are incorrect will highlight red with an indication of the previous *RapidID*™ barcode.

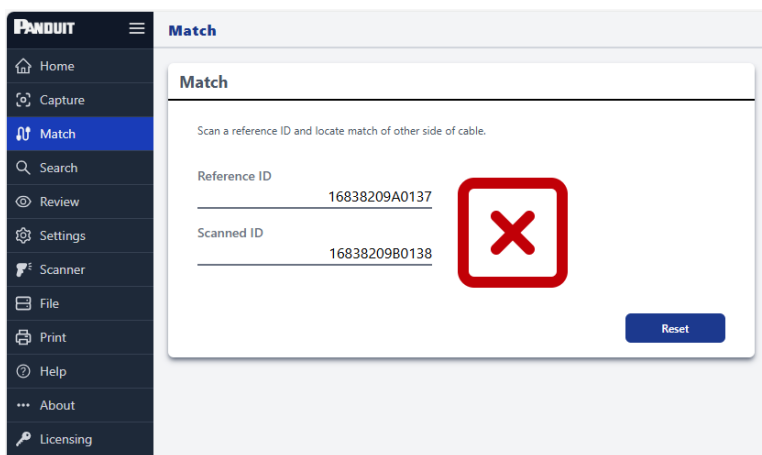


**Note:** When cabling is being updated, such as during a move, adds, and changes process, the verification function can be overridden/ignored by saving the new cables to their respective positions. After the new cables are installed and scanned into their positions, the user can save the new connections to the database, which will overwrite the previously saved connection data.

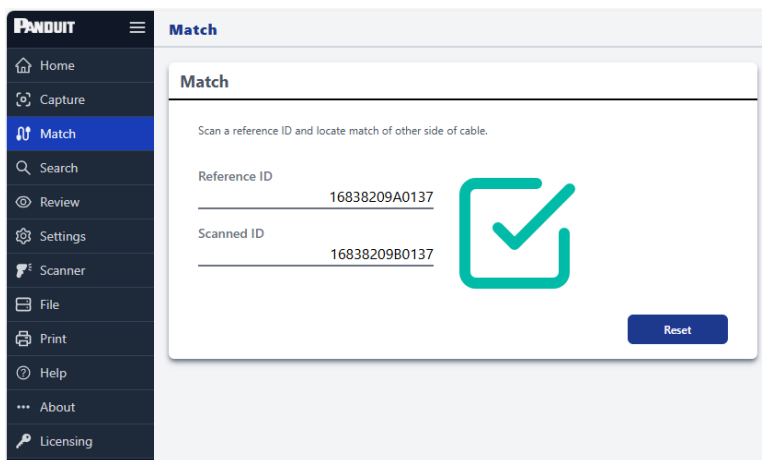
## Match

The Match page feature enables users to easily locate each end of a patch cable, without the need to manually trace cables or document their findings. This is done by scanning a RapidID™ barcode into the reference field and then scanning other cables until the correct one is identified.

Result of Incorrect Match – Cable ends compared *are not* the same.

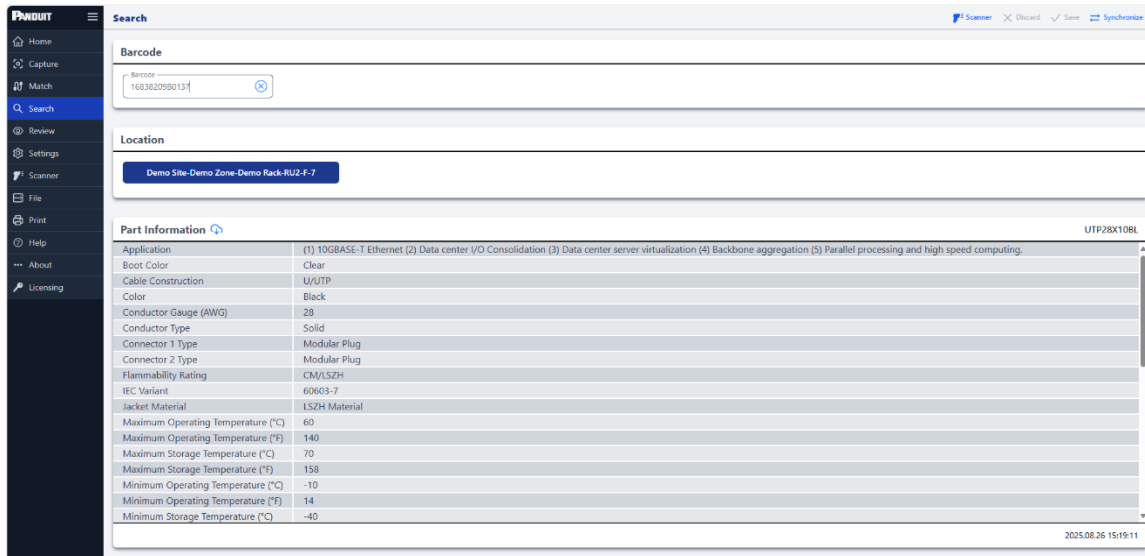


Result of Correct Match – Cable ends compared *are* the same.



## Search

The search function provides the user with information regarding the physical location of a cable, rack, or module. Using the user defined location within capture, the search function will return the location of the cable, rack, or module.



## Part Information

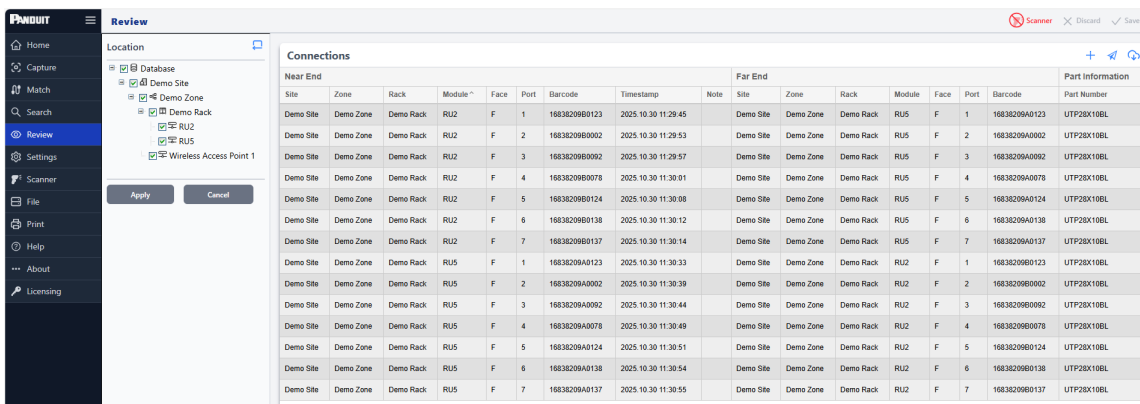
Users can now use *RapidID™* to find out more information about a product. A *RapidID™* label is scanned or typed into the barcode text box, the user can find out more information about the cable. Click the cloud image to retrieve information about the product. Information includes the part number, cable color, length, and flame rating among many others.

Once information is received, it will be stored on the local machine.

**Note:** An internet connection is required. Only factory installed labels provide this detail.

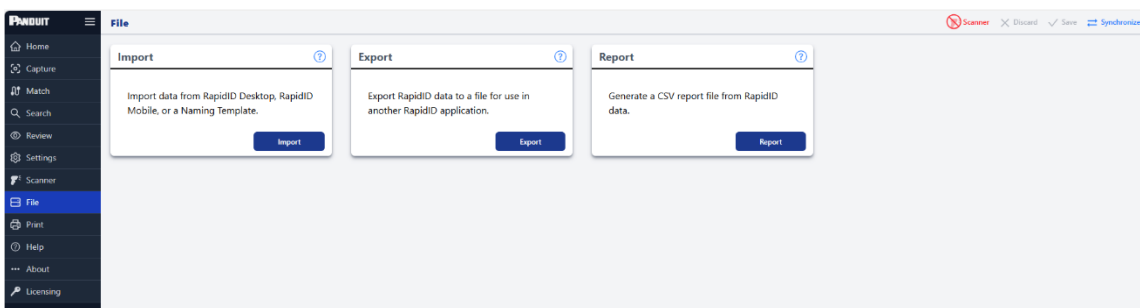
## Review

Review provides connection information for entire sites, zones, rack, or a single module. Review allows you to easily build, organize, and overlay part information with connection data for easy export into other systems.



## File

The file page contains three options for importing and exporting data within RapidID™ Desktop, each with a unique function.



## Import

- **RapidID™ Data:** Imports data from another instance of RapidID™ Desktop. Data will be recognized as a '.ZIP' file. Clicking the button opens a guided setup.

**Note:** Upon import, the user will need to select whether to merge or replace where applicable.

- **Naming Template:** Imports structure data in mass from a text file. Examples include '.TXT', '.CSV'. Clicking the button will open a guided setup. A naming template is available at <https://www.panduit.com>.

## Export

- **RapidID™ Data:** Exports data from RapidID™ for use with another instance of RapidID™ Desktop. The user can select an individual site or zone to export. Data will be exported as a '.ZIP' file.

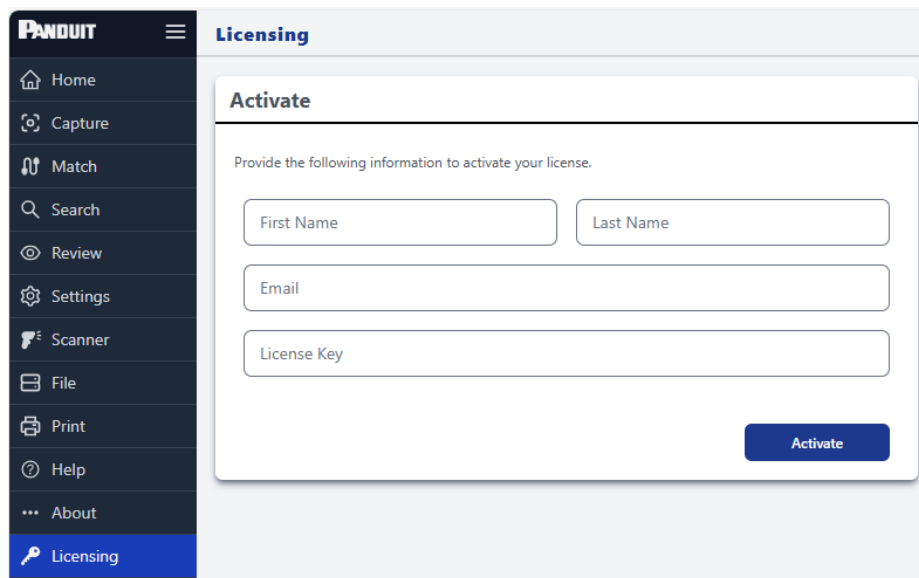
## Report

- **CSV:** Exports data from RapidID™ as a '.CSV' file for use with other programs. The user can select an entire site or zone to export.

## Licensing

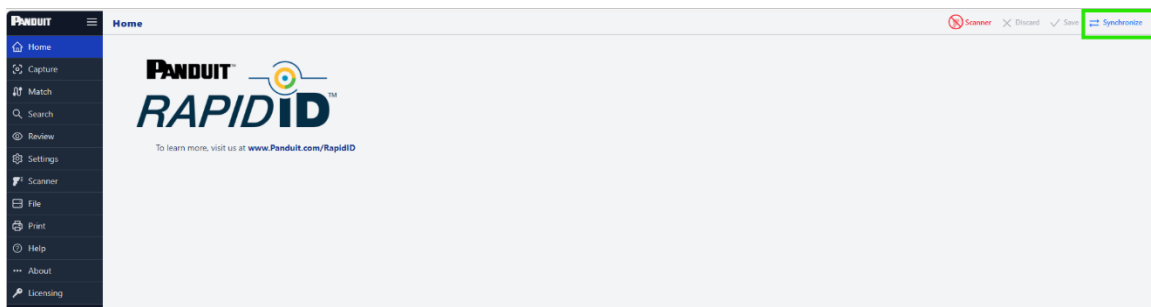
For Pro and Pro+ features, users will need to purchase a license from <https://www.panduit.com>. Pro will enable device and asset documentation as well as label printing. Pro+ adds server functionality for multi-user scanning and documentation.

Activate by entering user information and the purchased license key into the Licensing menu option.



The screenshot shows the Panduit web interface with the 'Licensing' menu item selected in the left sidebar. The main content area is titled 'Licensing' and contains an 'Activate' section. Below the title, it says 'Provide the following information to activate your license.' There are four input fields: 'First Name', 'Last Name', 'Email', and 'License Key'. A blue 'Activate' button is located at the bottom right of the form.

**Note:** Pro+ activation will enable the Synchronize button in the top right corner.



## Print

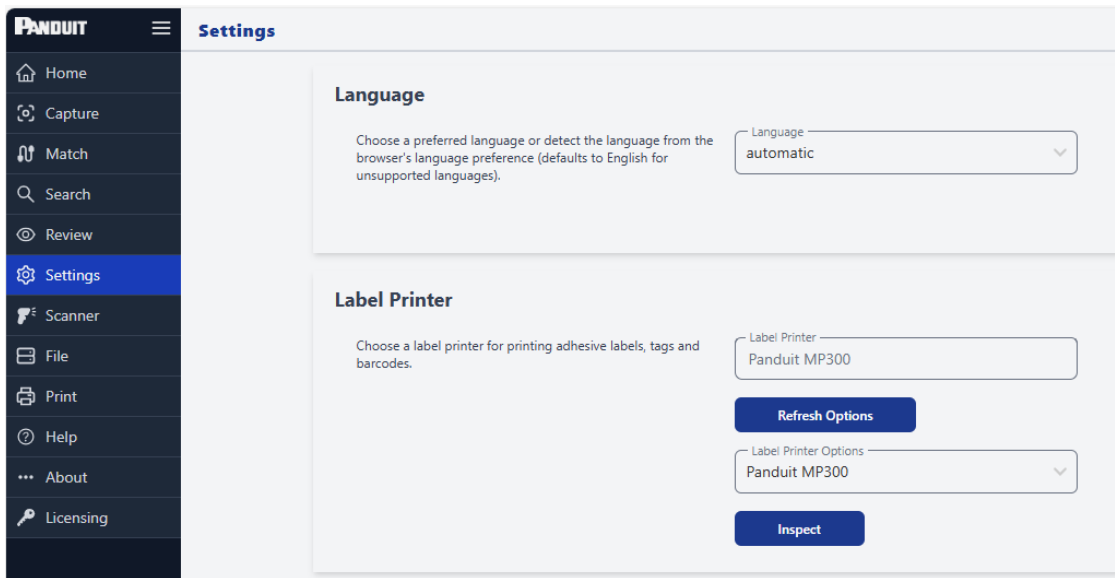
The Print feature adds cable and rack/module (device/asset) label printing.

## Drivers

Panduit's MP300 Mobile Label Printer is required for printing functionality in *RapidID™*. To get the appropriate drivers installed, run the setup executable from this folder C:\panduit\RapidID\MPXXX and follow the setup instructions for MP300.

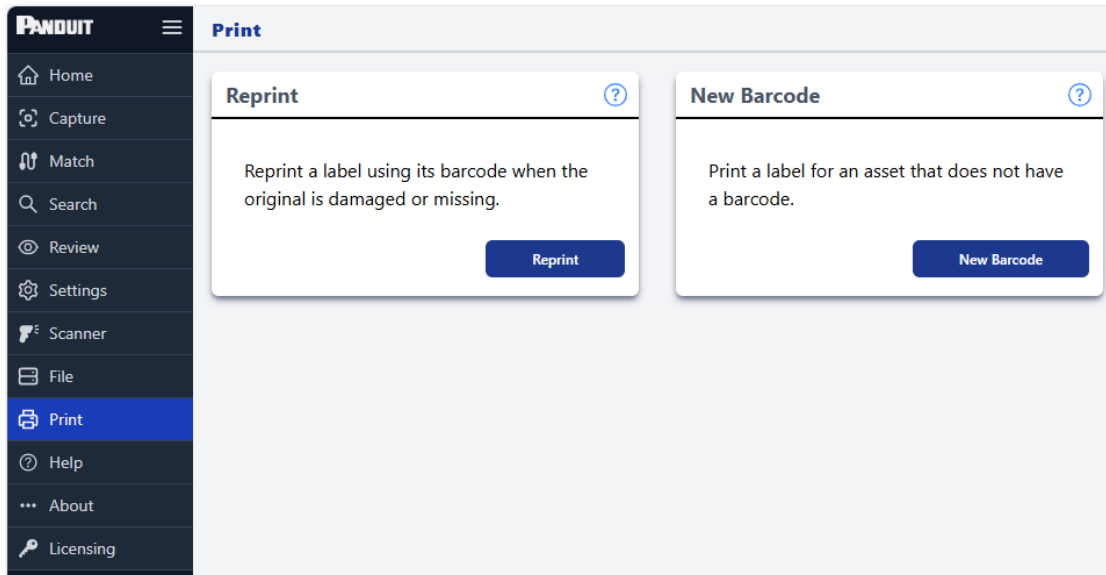
## Settings

To connect an MP300, power on the MP300, connect with the supplied USB cable, and connect in the Settings menu option. Select the 'Refresh Options' button to list the available printers and then select the MP300.



## Print

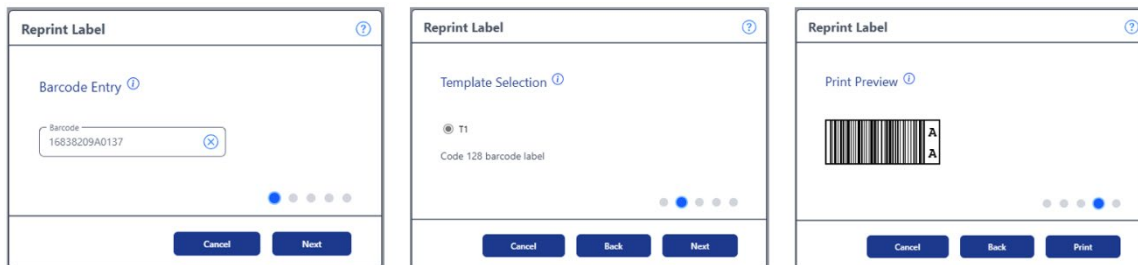
Print offers two main features, Reprint and New Barcode.



- **Reprint** is available on any option of *RapidID™* and is only for reprinting missing or damaged labels. An existing code must be scanned or entered. New barcodes will not be generated.
- **New Barcode** is for generating new, unique barcodes for long cables, short cables, racks, and modules. Three templates are available:
  - **T1** – For cables – no user adjustments
  - **T2** – Small footprint for racks and modules – QR code with two lines of up to 5 characters each
  - **T3** – Large footprint for racks and modules – QR code with two lines of up to 15 characters each

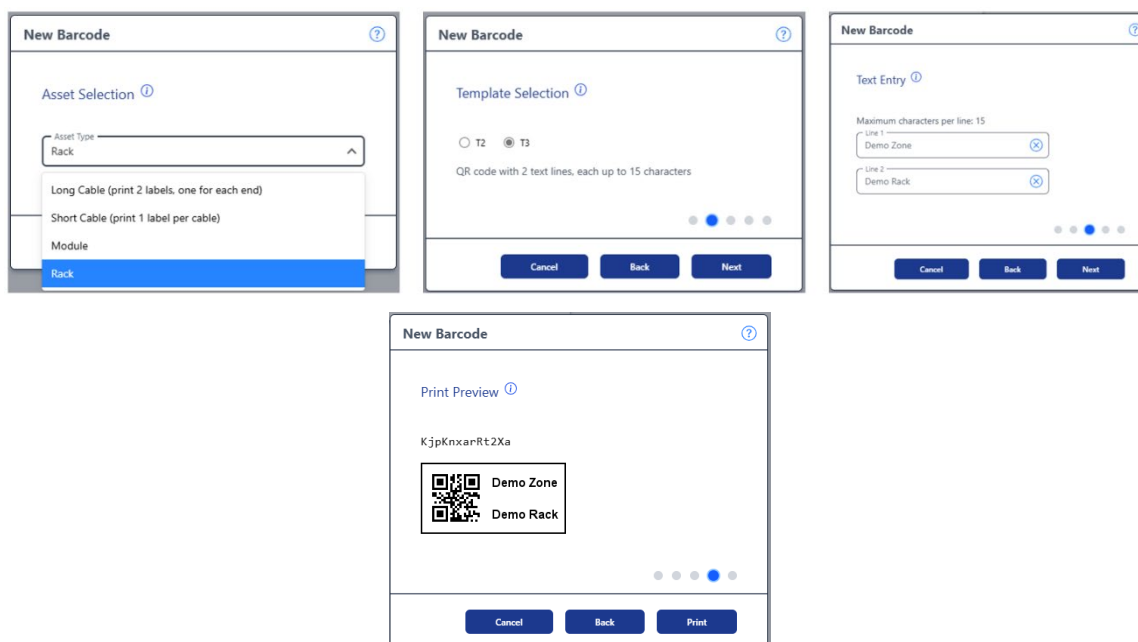
## Reprint

Select reprint and either enter or scan the desired barcode to be printed. Follow the guided steps and select print. Apply the label and verify your network mapping.

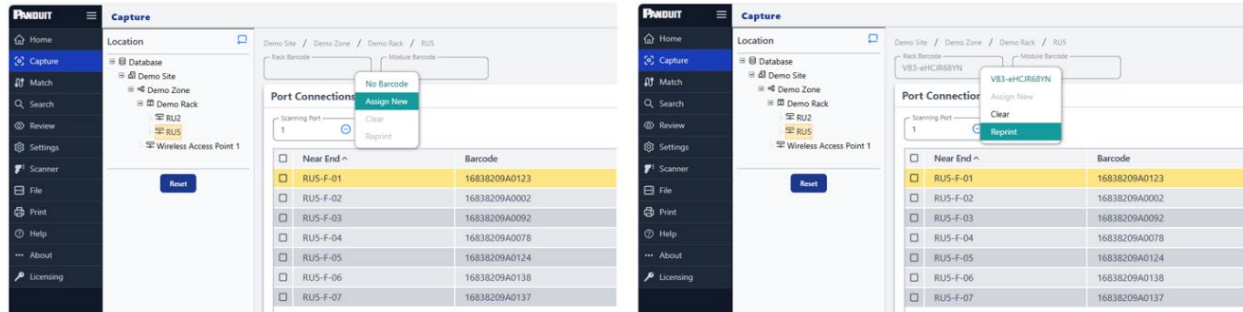


## New Barcode

Select New Barcode and then Asset Type (Long Cable, Short Cable, Module, or Rack). Follow the guided steps. Apply the label and document in Capture.



Rack and module labels can be created by two methods. One, mentioned above and scanned in, and two, assigned directly at the rack or module in capture. Once a barcode is assigned, using Reprint from the same dropdown will create the physical label.

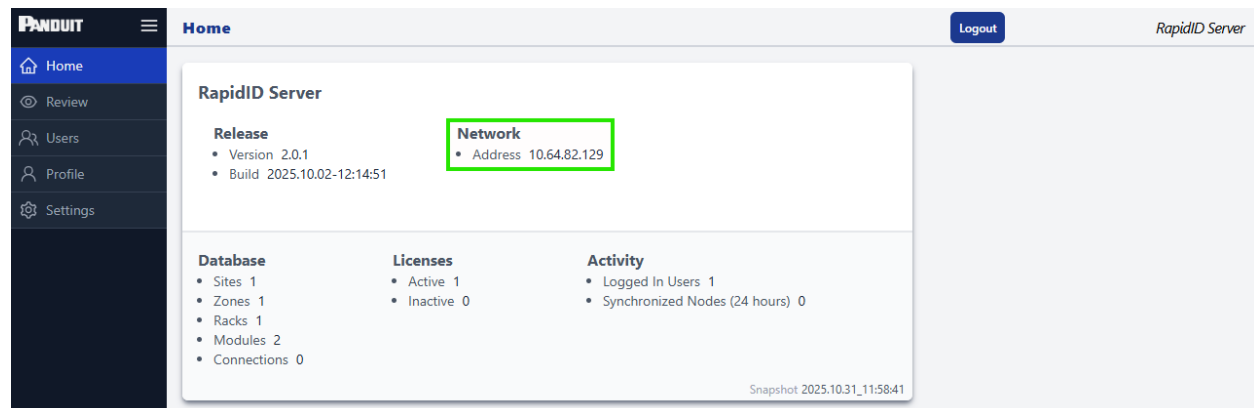


## RapidID™ Server (Pro+)

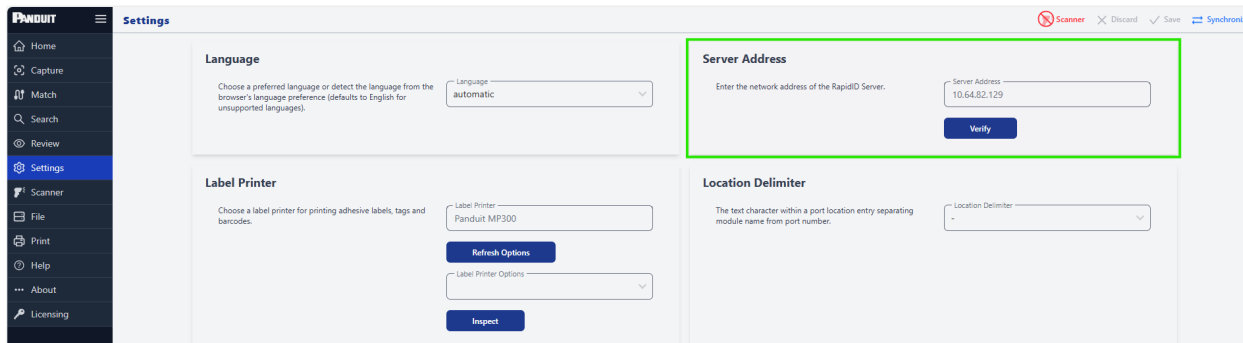
Server application hardware requirements:

- Virtual Machine Requirements (server application)
  - Operating System
    - Supported OS: Windows Server 2019/2022 (64-bit)
  - CPU
    - Minimum: 4 CPUs
    - Processor Compatibility: Intel VT-x or AMD-V enabled
  - Memory
    - Required: 16 GB
  - Storage
    - Minimum disk space: 100 GB
    - Recommended storage type: SSD (for optimal performance)
  - Network
    - NIC Configuration
      - One virtual NIC connected to a bridged or NAT network
      - Minimum bandwidth: 1 Gbps recommended

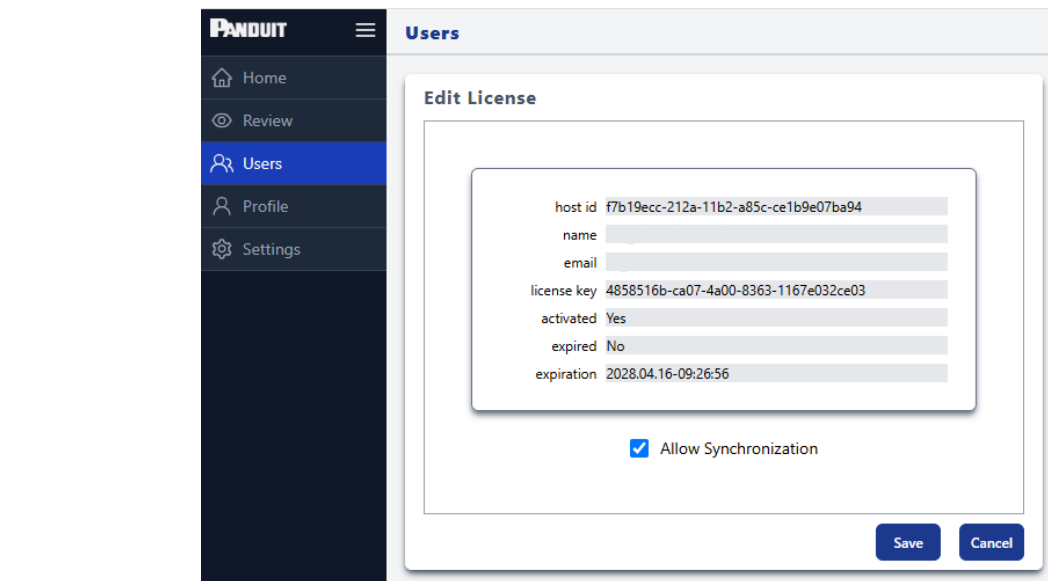
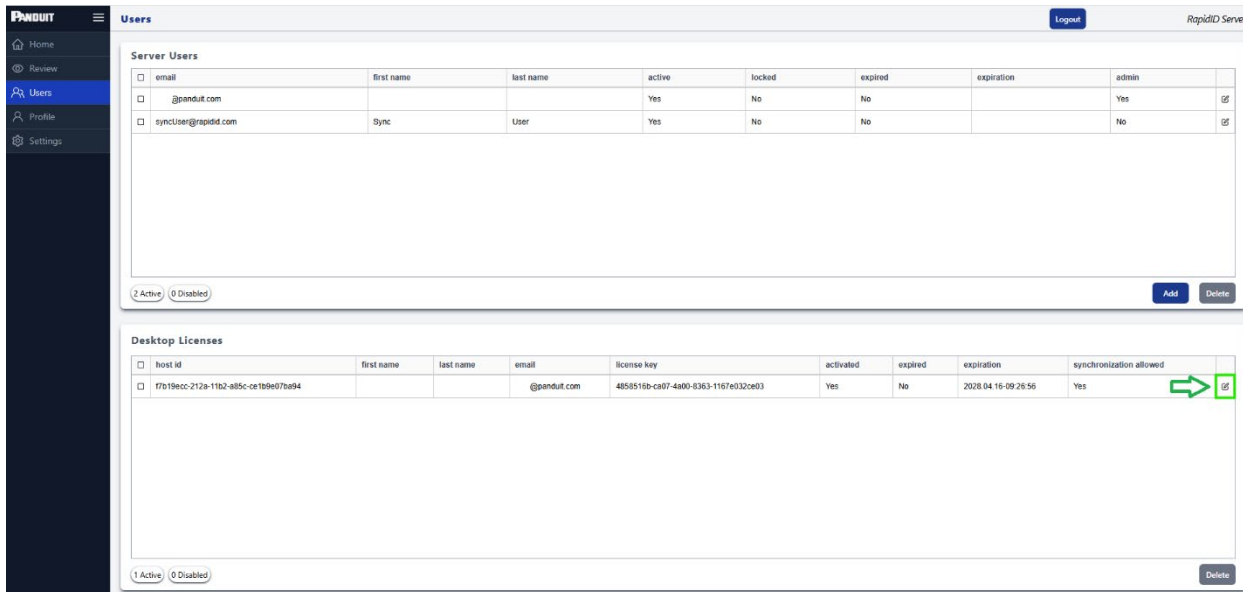
Organizations will need to establish an on-premises or private cloud site and install RapidID™ Central Server. The network address will need to be shared with any Pro+ team members.



In settings, Pro+ users with an activated license need to enter the network address and verify access.



RapidID™ Central Server site administrators need to allow Synchronization for any Pro+ team members. From the User menu option, find the Pro+ team member and edit their permission to 'Allow Synchronization'.



Users with Synchronization allowed can contribute to the organization's database by using the Synchronization button (identified in the Licensing section). A user's work will be uploaded, and the work of other authorized users will be downloaded for a complete view of the database. The entirety of the database can be seen in the Review menu option of RapidID Central Server.

The screenshot shows the 'Review' menu in the RapidID application. The 'Connections' table is displayed with the following columns: Near End (Site, Zone, Rack, Module, Face, Port, Barcode, Timestamp, Note) and Far End (Site, Zone, Rack, Module, Face, Port, Barcode, Part Information (Part Number)).

Near End								Far End									
Site	Zone	Rack	Module	Face	Port	Barcode	Timestamp	Note	Site	Zone	Rack	Module	Face	Port	Barcode	Part Information	
																Part Number	
Demo Site	Demo Zone	Demo Rack	RU2	F	1	16838209B0123	2025.10.30.11:29:45		Demo Site	Demo Zone	Demo Rack	RU5	F	1	16838209A0123		
Demo Site	Demo Zone	Demo Rack	RU2	F	2	16838209B0002	2025.10.30.11:29:53		Demo Site	Demo Zone	Demo Rack	RU5	F	2	16838209A0002		
Demo Site	Demo Zone	Demo Rack	RU2	F	3	16838209B0092	2025.10.30.11:29:57		Demo Site	Demo Zone	Demo Rack	RU5	F	3	16838209A0092		
Demo Site	Demo Zone	Demo Rack	RU2	F	4	16838209B0078	2025.10.30.11:30:01		Demo Site	Demo Zone	Demo Rack	RU5	F	4	16838209A0078		
Demo Site	Demo Zone	Demo Rack	RU2	F	5	16838209B0124	2025.10.30.11:30:08		Demo Site	Demo Zone	Demo Rack	RU5	F	5	16838209A0124		
Demo Site	Demo Zone	Demo Rack	RU2	F	6	16838209B0138	2025.10.30.11:30:12		Demo Site	Demo Zone	Demo Rack	RU5	F	6	16838209A0138		
Demo Site	Demo Zone	Demo Rack	RU2	F	7	16838209B0137	2025.10.30.11:30:14		Demo Site	Demo Zone	Demo Rack	RU5	F	7	16838209A0137		
Demo Site	Demo Zone	Demo Rack	RU5	F	1	16838209A0123	2025.10.30.11:30:33		Demo Site	Demo Zone	Demo Rack	RU2	F	1	16838209B0123		
Demo Site	Demo Zone	Demo Rack	RU5	F	2	16838209A0002	2025.10.30.11:30:39		Demo Site	Demo Zone	Demo Rack	RU2	F	2	16838209B0002		
Demo Site	Demo Zone	Demo Rack	RU5	F	3	16838209A0092	2025.10.30.11:30:44		Demo Site	Demo Zone	Demo Rack	RU2	F	3	16838209B0092		
Demo Site	Demo Zone	Demo Rack	RU5	F	4	16838209A0078	2025.10.30.11:30:49		Demo Site	Demo Zone	Demo Rack	RU2	F	4	16838209B0078		
Demo Site	Demo Zone	Demo Rack	RU5	F	5	16838209A0124	2025.10.30.11:30:51		Demo Site	Demo Zone	Demo Rack	RU2	F	5	16838209B0124		
Demo Site	Demo Zone	Demo Rack	RU5	F	6	16838209A0138	2025.10.30.11:30:54		Demo Site	Demo Zone	Demo Rack	RU2	F	6	16838209B0138		
Demo Site	Demo Zone	Demo Rack	RU5	F	7	16838209A0137	2025.10.30.11:30:55		Demo Site	Demo Zone	Demo Rack	RU2	F	7	16838209B0137		

## Database Backup/Restore

To preserve your database, Panduit recommends periodically backing up your *RapidID™* database. Database backups are an essential way to preserve data in the event of a system failure.

**Note:** It is recommended that databases are backed up before importing other files into *RapidID™*.

### Database Backup:

1. Navigate to: 'C:\Panduit\RapidID'.
2. Run: 'dbbackup.bat'.
3. Once database backup is completed, the file will be available in 'C:\Panduit\RapidID\backup'.

**Note:** it is recommended that the backup file is saved to a secure location.

### Database Restore:

1. Navigate to: 'C:\Panduit\RapidID'.
2. Run: 'dbrestore.bat'.
3. Select the database backup file where you want to restore the database.
4. Once the database restore has been completed, close program and restart *RapidID™* application.