

PaperCut | PaperCut 3rd Party Hardware Payments Pyramid Apex 5000 Setup Guide

This guide is designed to supplement the *PaperCut 3rd Party Hardware Payments Manual* and provides a guide to installing, setting up and testing PaperCut for use with a *Pyramid Technologies Apex 5000 series* bill validator device. Before starting the steps in this guide the hardware payments manual should be read and the general configuration steps completed. The *PaperCut 3rd Party Hardware Payments - Manual* can be downloaded from:

<https://portal.papercut.com/support/payment-gateway-guides/>

The PTI Apex 5000 bill acceptor is a device for validating and storing bank notes. More information about the device is available from the PTI website.

Setup and testing should take around 30 minutes. No system level restart is required; however, the PaperCut application server will be restarted during the install process. If other administrators are using the PaperCut administration interface at this time it may be advisable to warn them of the pending restart.

This document is written assuming that the reader has good server administration skills and is experienced with general PaperCut administration.

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1 Installing the Device

To install an Apex 5000 series bill validator, follow the setup instructions from the manufacturer. On Windows platforms, this would typically involve the following:

1. Plug in the device. This should trigger automatic installation of the device drivers.
2. Open Windows' Device Manager. There should be a new device titled "USB Serial Port" with an associated comm. port. Note the comm. port the device is using.

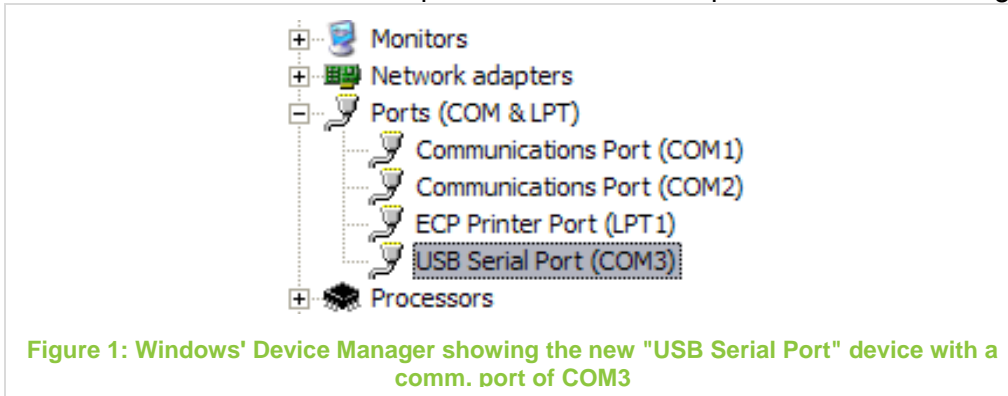


Figure 1: Windows' Device Manager showing the new "USB Serial Port" device with a comm. port of COM3

Install the "The RS232 Interface Program for PC." application from Pyramid Technologies' website here: <https://pyramidacceptors.com/app>, and use it to the device to ensure it is working correctly. If the device does not appear to work, try:

- a. ensuring the correct comm. port is selected in the RS232 application,
 - b. rebooting the system, and
 - c. manually installing the FTDI Virtual Com Port (VCP) drivers from here: <http://www.ftdichip.com/Drivers/VCP.htm>.
3. Using "The RS232 Interface Program for PC" insert each note type that you will be accepting and note which bill index is incremented when the note is inserted. These bill indexes and the corresponding bill values will be required later when configuring the device.

2 Configuring the device

To set up an Apex 5000 series bill validator with the PaperCut Pay Station:

1. Open the file [app-path]/release/extensions/credit-sources/apex-5000.properties in a text editor.
2. Update the value for the option apex-5000.com-port= to match your configuration, e.g.: apex-5000.com-port=COM3
3. Update the configured 'bill values'. The Apex 5000 device assigns each note an index number from 1 to 7. To convert this index to a currency value, the corresponding value must be entered in the config file. E.g.: apex-5000.bill-3-value=5 indicates that bill #3 has a value of 5 dollars (or 5 of the local currency unit). Leaving any bill value blank will result in the pay station not accepting bills of that type.

The default values should be correct for the USA. A quick way to determine the bill indexes for your region is to use Pyramid's "RS232 Interface Program" and test with each bill type, as recommended in the Installing the Device section.

3 Testing

To test that the device has been configured successfully:

1. Start the pay station. The 'Configuring PaperCut' section of the pay station manual covers how to set up and launch either the pay station or release station with 'Add Value' functionality. If there are any errors with device configuration an error message will be displayed at this point. The error message will indicate the problem.
2. Log into the pay station with a test account (or log into the release station and press the 'Add Value' button).
3. The device should now become active. Insert some bills into the device and ensure that the balance increments by the correct amount. It is strongly recommended to test each bill that will be accepted to ensure that all bills have the correctly configured value.

In case of problems please see the 'Troubleshooting and Investigating Overs / Unders' section of the pay station manual.

4 Go Live

At this stage the Apex 5000 device has been successfully configured for use with PaperCut, and the device has been confirmed to be working. You can now proceed to provide users with information about how to use the release/pay station for adding balance to their PaperCut account.