



Shipping & Mailing
Outbound and Inbound Package Management

DeviceHub for SendSuite Live

Peripheral Management Solution for Internet Explorer Retirement

Introduction

Microsoft has announced [retirement for Internet Explorer](#), a critical dependency for SendSuite Live project operation and peripheral communication and management, effective June 15th, 2022. Furthermore, Microsoft announced their intention to remove IE from all targeted operating systems by way of a Windows Update which can take place any time after June 15th, 2022.

In response, Pitney Bowes has developed a solution to retain peripheral connectivity and management for SendSuite Live using our existing DeviceHub platform that provides similar functionality for our other shipping platforms in conjunction with our PB Shim Proxy. This document provides a technical overview of DeviceHub for SendSuite Live.

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Overview

DeviceHub is a software component that simplifies device connectivity to multiple Pitney Bowes shipping and receiving platforms. DeviceHub centralizes and simplifies driver management for supported printers, scales, and tracking assistants.

DeviceHub uses secure transport security and does not store any Personally Identifiable information.

Benefits of DeviceHub

DeviceHub provides the most comprehensive solution for SendSuite Live customers affected by this decision.

- Multi-browser support allows SendSuite Live projects* to run in Edge, Chrome, or FireFox.
- Intuitive UI for managing all connected peripherals.
- Support for all PB-provided peripherals.

Alternative to DeviceHub

SendSuite Live users may elect instead to run projects in Edge's Internet Explorer mode (refer to [Microsoft's IE retirement Blog](#) for more information on this feature, how to use it, and its limitations. Here are some important facts to consider:

- Suspension of Windows Updates - SendSuite Live peripherals depend on ActiveX plugins in IE. When running in Internet Explorer mode, Edge inherits the ActiveX functionality from IE. This means that IE must be present on the machine. The machine, therefore, must be configured in such a manner to prevent IE from being removed in a future Windows Update.
- IE Mode requires added sites to be refreshed every 30 days.
- Termination of support for Internet Explorer by Microsoft is effective June 15th, 2022.

Features

DeviceHub has the following features / benefits:

- Automatically discover and install peripheral drivers
- Manage supported peripherals including printers, scales, and scanners
- Replaces the SendSuite Live ActiveX components for Scale, Printer and Meters

DeviceHub supports the following peripherals:

Scales	<ul style="list-style-type: none"> • JP85 • JP94 • JP67 • JR76 • JR64
Label Printers	<ul style="list-style-type: none"> • JZ20 • JZ30 • 1E23 • 1E26
Mailing Machines	<ul style="list-style-type: none"> • DM Series • Connect+

Architecture

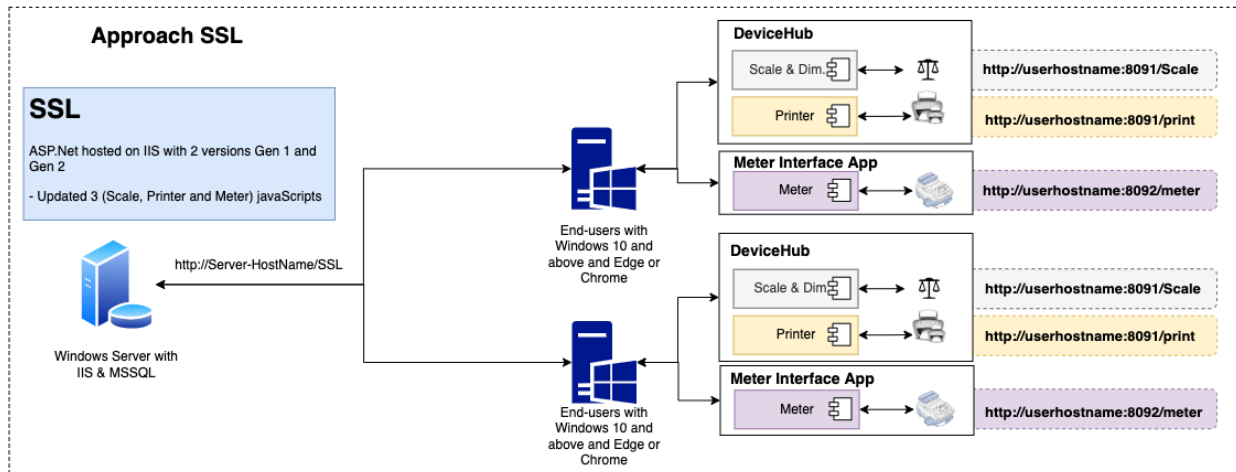


Figure 1: DeviceHub Software Architecture

Protocols, Output, Storage, and Whitelist

DeviceHub Ports

DeviceHub uses the following Ports for communication with SendSuite Live and hardware peripherals:

- 8091 – HTTP connection for Scale and Printers communication (local host only)
- 8092 – HTTP connection for Meters (local host only)
- 4042 – RPC for local messaging communications (local host only)

PB Shim Proxy Ports

PB Shim Proxy uses the following ports

- 8084 – HTTP local only
- 443 – External (data aggregator and update server)

DeviceHub Outputs

DeviceHub creates the following Outputs:

- Scale Data
- Printer Data
- Meter Transitions Data
- Scanned address (ASCII format) using OCR scanner

PB Shim Proxy Outputs

For information on PB Shim Proxy output, see Appendix A of this document.

DeviceHub Data Storage

DeviceHub stores the following:

- Configurations - number of devices, registered devices, scales, and last shadow state
- Logs for diagnostics & troubleshooting – No PII stored in logs
- No PII info stored in DeviceHub
- No local database

PB Shim Proxy Data Storage

PB Shim Proxy stores the following:

- Configuration data.
- Logs for diagnostics and troubleshooting – No PII stored in logs

Firewall URL Whitelist:

- DeviceHub: <https://devicehubsetuppackages.s3.amazonaws.com> (software updates only)
- PB Shim Proxy: <https://api.sendpro360.pitneybowes.com/connectship> (data aggregator and software update server).

Software Installation Prerequisites

DeviceHub Installation Requirements

The following must be installed on the target machine:

- SendSuite Live v7.15 or higher
- Microsoft Visual C++ Redistributable for Visual Studio 2017
- Microsoft .NET Framework v4.7.2

PB Shim Proxy Installation Requirements

PB Shim Proxy must be installed on the SendSuite Live server and is supported by the technologies currently required to operate SendSuite Live, therefore no additional software or platform requirements exist for installation.

Application Dependencies

DeviceHub Dependencies

Requires PB Shim Proxy software to be installed on the SendSuite Live application server.

PB Shim Proxy Dependencies

Must be installed on the SendSuite Live application server.

Recommended Deployment Method

The DeviceHub solution relies on a server component and workstation component. DeviceHub on workstations will not activate and take over peripheral management duties until the PB Shim Proxy is available. DeviceHub installation will not interrupt existing ActiveX peripheral management in Internet Explorer. Given these considerations, it is recommended that IT professionals install DeviceHub on workstations, configure the peripherals, then deploy PB Shim Proxy on the cutover date.

Turnkey (single-computer) solutions, should follow this same method.

DeviceHub Workstation Software Installation

DeviceHub should be installed on each SendSuite Live workstation having a connected scale, label printer, or mailing machine.

1. [Download](#) DeviceHub
2. Execute installer
3. Select **Install**
4. Select **Finish** upon completion

DeviceHub will have started successfully when the DH icon appears in the system tray.

Optional: Set DeviceHub to Start with Windows

Complete these optional steps to have DeviceHub start with Windows:

1. Select the **Windows Start** button.
2. Locate the **DeviceHub** folder, expand it, then *right-click* the **DeviceHub** application.
3. Select **More**.
4. Select **Open file location** (we'll reference this window as W1).
5. Keeping W1 open, hold '**R**' while selecting the **Windows Start** button.
6. Type `shell:startup` then press **Enter** (we'll reference this window as W2).
7. **Copy** the DeviceHub shortcut in **W1** then paste it in **W2**.
8. Close all open windows.

DeviceHub will now start automatically when the user logs into Windows.

DeviceHub Workstation Software Configuration

Scales

1. Right-click the DH icon in the system tray.
2. Select SendSuite Live Scale Configuration
3. Select the **Interface Type**
4. Select the **Scale Type**
5. Optional
 - a. Timeout
 - b. Wait Time
6. Optionally select **Weigh** or **Zero** to test scale functionality
7. Select **OK**

Printers

1. Right-click the DH icon in the system tray.
2. Select SendSuite Live Printer Configuration
3. Select the appropriate target printer for:
 - a. Thermal Label Printer
 - b. Laser Document
 - c. Form Printer
4. Optionally select **Test Print** to test printer functionality
5. **IMPORTANT:** Select **Documents and Labels** to configure target printers and number of copies to print for specific document types. For example, configure the **Label** item to print to the target label printer.
6. Select **OK**

Mailing Machines

1. Right-click the DH icon in the system tray.
2. Select SendSuite Live Meter Configuration
3. P-Series & Connect+
 - a. Produce the configuration XML file from the meter:
 - i. Select Connect + Series from the **Meter Type** drop-down list.
 - ii. Go to the Home screen on the Connect+ Mailing Machine.
 - iii. In the lower left, select Shut down > Service Login.
 - iv. Sign in with the Service Password:
 1. Prior to Version 24.03.0005 = 55555
 2. After Version 24.03.0005 = PBtech16!!
 - b. Insert a USB Thumb Drive (Storage Device) into the Connect+ (left side, rear of Connect+).
 - c. Select the Settings Icon (double-click if remoted in).
 - d. Expand the Internet & Network option on the left side of the screen.
 - e. Select Communication Settings.
 - f. Under the API section, ensure the setting is set to On.
 - g. Select the Export settings to USB drive button in the upper right of the screen.
 - h. Under the Export to: option, select Browse. Your USB Drive should appear. Select the USB Device and Select the Open button.

- i. Select the Ok button to Export. This will Export the XML file need to set up SendSuite Xpress or Ascent to communicate with the Connect+.
 - j. Once the export has completed, select the Home icon at the top of the screen.
 - k. Select **CHOOSE FILE TO IMPORT** then follow the prompts to import the XML file created in the preceding step.
 - l. Select Connect + Series from the Meter Type drop-down in the Configure Postal Meter Connection section.
 - m. Select the Meter ID.
 - n. Enter a name for the meter.
 - o. Batch Mode Timeout of 600
 - p. Optionally, enter a description for the meter.
 - q. Select **Save**.
 - r. Optionally use the **TEST CONNECTION** button to test the meter connection.
 - s. **Important: Minimize the Meter Configuration dialog**
4. DM Series
- a. Select DM Series from the Meter Type drop-down list in the Configure Postal Meter section.
 - b. Choose USB from the Connection Type drop-down list.
 - c. Enter a name for the meter.
 - d. Batch Mode Timeout of 600
 - e. Optionally, enter a description for the meter.
 - f. Select **Save**.
 - g. Optionally use the **TEST CONNECTION** button to test the meter connection.
 - h. **Important: Minimize the Meter Configuration dialog**
5. Grant Full Access to 'Everyone' for **c:\ProgramData\Pitney Bowes**

Important: The Meter Configuration dialog must be open and running to work properly and should therefore only ever be minimized; do not close the Meter Configuration dialog.

PB Shim Proxy Server Installation

PB Shim Proxy must be installed on the SendSuite Live application server.

NOTE: The PB Shim Proxy installer will restart IIS. Please take necessary precautions before proceeding.

1. [Download](#) PB Shim Proxy
2. Execute ShimProxyInstaller.exe as an Administrator
3. Optionally select **Online Documentation** to be taken to the PB Shim Proxy knowledge article.
4. Select **Next**
5. Optionally change the destination folder then select **Next**
6. The installer will attempt to detect the SendSuite Live website location. Manually select it with the **Browse** button if automatic detection failed.
7. Select **Next**
8. Optionally enter proxy server information
9. Optionally select **Agree**.
 - a. Enter a Name. This should be a business name. If you are installing in a Quality Assurance environment, please add "QA" to the end of the Business Name, for example, Bill's Widgets-QA.
10. Optionally change the default port and timeout values
11. Select **Install**
12. Select **Close** upon installation completion.

PB Shim Proxy will have installed successfully when the PB logo icon appears in the system tray.

FAQs

Where can I get details on Microsoft's announcement?

Please refer to [Internet Explorer 11 Desktop App Retirement FAQ](#).

How is SendSuite Live impacted?

Connectivity with a Scale, Label Printer, or Mailing Machine requires ActiveX controls that are dependent upon Internet Explorer and cannot be used with other browsers. Should IE be removed from the system, users would be unable to weigh packages, print labels, and communicate with a mailing machine.

When will Microsoft remove IE?

Microsoft has only announced their intent to remove IE from Windows 10 systems through a future Windows Update that "...may be applied at any time after June 15, 2022."

How is Pitney Bowes going to address this impact?

Pitney Bowes has developed a strategy to mitigate this issue by leveraging two existing software utilities in our library: DeviceHub and PB Shim Proxy. This solution will ensure your shipping platform survives IE removal by supporting SendSuite Live Gen 2 and Gen 3 projects to run on Edge, Chrome, or FireFox and communicate with attached peripherals.

What is PB Shim Proxy?

The PB Shim Proxy is the solution provided to replace with the PB Carrier Library the functionality currently handled by ConnectShip due to the termination of our relationship with that vendor. For more information, visit [PB Shim Proxy and PB Carrier Library](#).

Are both PB Shim Proxy and DeviceHub required?

Yes. DeviceHub runs on workstations with peripherals connected. It requires an agent from which it will receive instructions to process, and command attached peripherals. PB Shim Proxy affords this service due to its integration with and installation proximity to (same machine) SendSuite Live. Note that stand-alone combination server/workstations will still require installation of both products on the machine.

How do I install these solutions?

While Pitney Bowes is currently considering customer-installable options, at this time you must contact our support department at 1-800-888-0286 for assistance installing this solution.

Is there an alternative solution to DeviceHub?

Yes. Users may instead elect to run SendSuite Live in Microsoft Edge while in Internet Explorer mode. Edge will inherit the ActiveX functionality from IE. Edge will permit a site to run in Internet Explorer mode for 30 days, after which the permission must be refreshed.

Will all my peripherals be supported by DeviceHub?

The following peripherals are supported by DeviceHub:

- Label Printers
 - JZ20
 - JZ30
 - 1E23
 - 1E26
- Scales
 - JP85
 - JP94
 - JP67
 - JR76
 - JR64
- Mailing Machines
 - DM Series
 - Connect+

What if I have peripherals that are not listed as being supported?

Please contact Pitney Bowes Software Support at 800-888-0286.

I know SendSuite Live consists of Project Server, Shipping Configuration Server (Admin), and Project Configuration Server (Composer). How would each be impacted by removal of Internet Explorer?

- **Project Server:** Peripheral connectivity and management.
- **Shipping Configuration Server:** None. Users may access Shipment Server using any browser.
- **Project Configuration Server (Composer):** Must use Edge in Internet Explorer mode to access.

Are all SendSuite Live projects (shipping screens) affected the same way by removal of IE?

No.

- **Generation 1 Projects:** These projects are browser dependent – they must run in Internet Explorer. Should IE be removed, these projects **cannot** be accessed from alternate browsers?
- **Generation 2 Projects:** Though accessible from other browsers, projects will lose required ActiveX functionality for connecting to and managing peripherals. With Shim Layer Proxy and DeviceHub implemented, however, these projects may be run in Edge, Chrome, or FireFox and retain communication with peripherals.

How do I learn whether a project is Generation 1 or Generation 2/3?

The most obvious means by which the project’s generation version can be detected is by observing the visual difference in the project’s controls. Generation 2 and 3 projects implement a different control library than Generation 1. Generation 1 projects have textbox controls with sharp corners whereas Generation 2 & 3 projects boast rounded corners. Refer to figure 2 below.

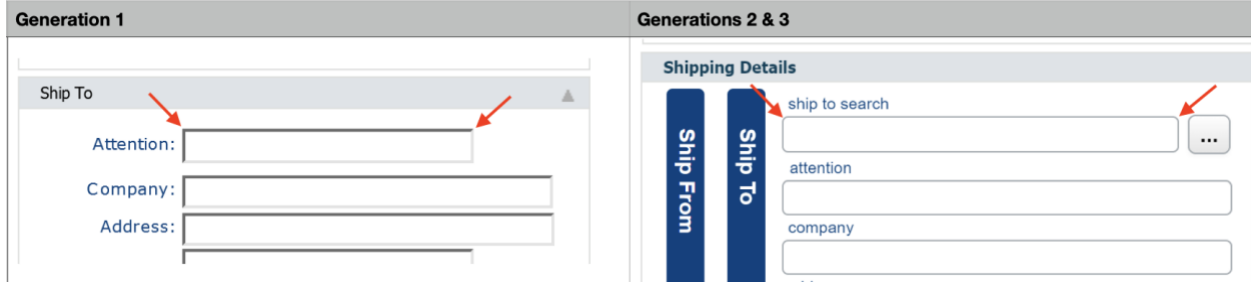


Figure 2: Gen 1 vs Gen 2 & 3 text controls

What if I or my IT department require that my SendSuite Live system be upgraded to Windows 11?

Windows 11 does not support Internet Explorer. Should the system be upgraded to Windows 11, DeviceHub will be required to restore peripheral functionality to SendSuite Live.

Appendix A: XML Data Collection

Appendix A contains examples of the XML data collected by the PB Shim Proxy and forwarded to the aggregator.

Note: This information only applies to system in which the user selected the option to “Agree to allow Pitney Bowes to collect identifying information from my ConnectShip database for the purpose of onboarding my carriers in the new PB Carrier Library” when installing the PB Shim Proxy.

Shipment Request

```
<?xml version="1.0" encoding="utf-8"?>
<SHIPMENTREQUEST>
  <LOGIN>
    <LOGINID>test</LOGINID>
    <PASSWORD>test</PASSWORD>
  </LOGIN>
  <DEFATTRIBUTES>
    <CONSIGNEE>
      <COMPANY>NAS WHIDBEY ISLAND OFFICIAL MAIL MANAGER</COMPANY>
      <CONTACT></CONTACT>
      <ADDRESS1>1080 W Lexington St</ADDRESS1>
      <ADDRESS2></ADDRESS2>
      <ADDRESS3></ADDRESS3>
      <CITY>Oak Harbor</CITY>
      <STATEPROVINCE>WA</STATEPROVINCE>
      <POSTALCODE>98278-4959</POSTALCODE>
      <PHONE>(800) 962-4088</PHONE>
      <COUNTRYSYMBOL>US</COUNTRYSYMBOL>
      <CONSIGNEECODE>NAS WHIDBEY ISLAND OFFICIAL MAIL MANAGER</CONSIGNEECODE>
    </CONSIGNEE>
    <SHIPPERINFO>
      <SHIPPER>PSC</SHIPPER>
    </SHIPPERINFO>
    <TERMS>SHIPPER</TERMS>
    <CURRENCYCODE>USD</CURRENCYCODE>
    <SHIPDATE>2021-09-21</SHIPDATE>
    <SHIPMENTSERVICEOPTIONS />
  </DEFATTRIBUTES>
  <PACKAGES>
    <PKG>
      <PKGWEIGHT>
        <WEIGHTUNITS>LB</WEIGHTUNITS>
        <WEIGHTVALUE>17</WEIGHTVALUE>
      </PKGWEIGHT>
      <PACKAGING>CUSTOM</PACKAGING>
      <REFERENCE>
        <CONSIGNEEREERENCE></CONSIGNEEREERENCE>
        <SHIPPERREFERENCE></SHIPPERREFERENCE>
        <MISCREERENCE1></MISCREERENCE1>
        <MISCREERENCE2></MISCREERENCE2>
        <MISCREERENCE3></MISCREERENCE3>
        <MISCREERENCE4></MISCREERENCE4>
        <MISCREERENCE5></MISCREERENCE5>
      </REFERENCE>
      <PIECE_COUNT></PIECE_COUNT>
      <PACKAGESERVICEOPTIONS>
        <LTL>
          <COMMODITYCLASS>85</COMMODITYCLASS>
        </LTL>
        <DELIVERYOPTIONS />
      </PACKAGESERVICEOPTIONS>
      <LABELFORMAT>CONNECTSHIP_UPS_MAXICODE_PACKAGE_LABEL.STANDARD</LABELFORMAT>
      <LABELPRINT>
        <PORT>STRING</PORT>
        <STOCKSYMBOL>THERMAL_LABEL_6</STOCKSYMBOL>
        <PRINTERMODELSYMBOL>ZEBRA.ZEBRA3844Z</PRINTERMODELSYMBOL>
        <ENCODE>BASE64</ENCODE>
      </LABELPRINT>
      <PACKAGE_INFO>
        <PACKAGE_ELEMENTS>
          <ELEMENT_ITEM>
            <ITEM_NAME>SHIP_NOTIFICATION_EMAIL</ITEM_NAME>
            <ITEM_VALUE>FALSE</ITEM_VALUE>
          </ELEMENT_ITEM>
          <ELEMENT_ITEM>
            <ITEM_NAME>USER_DATA_2</ITEM_NAME>
            <ITEM_VALUE></ITEM_VALUE>
          </ELEMENT_ITEM>
        </PACKAGE_ELEMENTS>
      </PACKAGE_INFO>
    </PKG>
  </PACKAGES>
</SHIPMENTREQUEST>
```

```

<DICTIONARY>
  <DICTIONARY_NAME>USER_DATA_4</DICTIONARY_NAME>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-SentBy</ITEM_NAME>
    <ITEM_VALUE>DMT Prom Shop Zebra</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-CompanyName</ITEM_NAME>
    <ITEM_VALUE>Pitney Bowes</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Street</ITEM_NAME>
    <ITEM_VALUE>27 Waterview Drive</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Locale</ITEM_NAME>
    <ITEM_VALUE></ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Other</ITEM_NAME>
    <ITEM_VALUE></ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-City</ITEM_NAME>
    <ITEM_VALUE>Shelton</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Region</ITEM_NAME>
    <ITEM_VALUE>CT</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-RegionName</ITEM_NAME>
    <ITEM_VALUE>CONNECTICUT</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-PostalCode</ITEM_NAME>
    <ITEM_VALUE>06484</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Country</ITEM_NAME>
    <ITEM_VALUE>US</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Phone</ITEM_NAME>
    <ITEM_VALUE>9999999999</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-Email</ITEM_NAME>
    <ITEM_VALUE>dmtpromshopz@pb.com</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-DepartmentName</ITEM_NAME>
    <ITEM_VALUE></ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-CountryName</ITEM_NAME>
    <ITEM_VALUE>UNITED STATES</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Sender-OverrideType</ITEM_NAME>
    <ITEM_VALUE></ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Content-Description</ITEM_NAME>
    <ITEM_VALUE></ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Item-Length</ITEM_NAME>
    <ITEM_VALUE>0</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Item-Width</ITEM_NAME>
    <ITEM_VALUE>0</ITEM_VALUE>
  </DICTIONARY_ITEM>
  <DICTIONARY_ITEM>
    <ITEM_NAME>Item-Height</ITEM_NAME>
    <ITEM_VALUE>0</ITEM_VALUE>
  </DICTIONARY_ITEM>
</DICTIONARY>
</PACKAGE_INFO>
</PKG>
</PACKAGES>
<SHIPMENTSERVICE>
  <SCS>CONNECTSHIP_UPS.UPS.GND</SCS>
</SHIPMENTSERVICE>
<PACKAGEDETAIL>TRUE</PACKAGEDETAIL>
<CLOSEOUTMODE>1</CLOSEOUTMODE>
</SHIPMENTREQUEST>

```

Shipment Response

```
<?xml version="1.0"?>
<SHIPMENTRESPONSE>
  <RESPONSE>
    <TRANSACTIONREFERENCE>
      <CUSTOMERCONTEXT>Local mode using Progistics XML Processor</CUSTOMERCONTEXT>
      <XPCIVERSION>6.5.6</XPCIVERSION>
    </TRANSACTIONREFERENCE>
    <RESPONSESTATUSCODE>0</RESPONSESTATUSCODE>
    <RESPONSESTATUSDESCRIPTION>Success</RESPONSESTATUSDESCRIPTION>
  </RESPONSE>
  <RATEDSHIPMENT>
    <ERROR>
      <ERRORCODE>0</ERRORCODE>
      <ERRORDESCRIPTION>No error</ERRORDESCRIPTION>
    </ERROR>
    <SHIPMENTSERVICE>
      <SCS>CONNECTSHIP_UPS.UPS.GND</SCS>
      <DESCRIPTION>UPS Ground</DESCRIPTION>
    </SHIPMENTSERVICE>
    <BILLINGWEIGHT>
      <WEIGHTUNITS>LB</WEIGHTUNITS>
      <WEIGHTVALUE>17</WEIGHTVALUE>
    </BILLINGWEIGHT>
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    </SERVICEOPTIONSCHARGES>
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      <MONETARYVALUE>0</MONETARYVALUE>
    </DISCOUNT>
    <DELIVERYINFO>
      <SHIPDATE>9/21/2021</SHIPDATE>
      <GUARANTEEDDAYSTODELIVERY>None</GUARANTEEDDAYSTODELIVERY>
      <SCHEDULEDDELIVERYTIME>None</SCHEDULEDDELIVERYTIME>
      <ARRIVEDATE>None</ARRIVEDATE>
    </DELIVERYINFO>
    <RATEDPACKAGE>
      <PKGERROR>
        <ERRORCODE>0</ERRORCODE>
        <ERRORDESCRIPTION>No error</ERRORDESCRIPTION>
        <LABELSTATUS>
          <ERRORCODE>0</ERRORCODE>
          <ERRORDESCRIPTION>No error - Label(s) Printed to STRING</ERRORDESCRIPTION>
        </LABELSTATUS>
        <HTMLSTATUS>
          <ERRORCODE>2428</ERRORCODE>
          <ERRORDESCRIPTION>Not Requested</ERRORDESCRIPTION>
        </HTMLSTATUS>
        <EMAILSTATUS>
          <ERRORCODE>2428</ERRORCODE>
          <ERRORDESCRIPTION>Not Requested</ERRORDESCRIPTION>
        </EMAILSTATUS>
      </PKGERROR>
      <PACKAGETOTALCHARGES>
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      </PACKAGETOTALCHARGES>
      <PACKAGEBASECHARGES>
        <CURRENCYCODE>USD</CURRENCYCODE>
        <MONETARYVALUE>27.58</MONETARYVALUE>
      </PACKAGEBASECHARGES>
      <PACKAGESERVICEOPTIONSCHARGES>
        <CURRENCYCODE>USD</CURRENCYCODE>
        <MONETARYVALUE>0</MONETARYVALUE>
      </PACKAGESERVICEOPTIONSCHARGES>
      <PACKAGEDISCOUNT>
        <CURRENCYCODE>USD</CURRENCYCODE>
        <MONETARYVALUE>0</MONETARYVALUE>
      </PACKAGEDISCOUNT>
      <TRACKINGNUMBER>1Z6E538F0300246570</TRACKINGNUMBER>
      <REFERENCE>
        <SHIPPERREFERENCE/>
        <CONSIGNEEREFERENCE/>
      </REFERENCE>
      <PKGWEIGHT>
```



```

<WEIGHTUNITS>LB</WEIGHTUNITS>
<WEIGHTVALUE>17</WEIGHTVALUE>
</PKGWEIGHT>
<BILLINGWEIGHT>
<WEIGHTUNITS>LB</WEIGHTUNITS>
<WEIGHTVALUE>17</WEIGHTVALUE>
</BILLINGWEIGHT>
<LABELREQUESTINFO>
<SHIPPER>PSC</SHIPPER>
<SCS>CONNECTSHIP_UPS.UPS.GND</SCS>
<SC>CONNECTSHIP_UPS.UPS</SC>
<MSN>42934</MSN>
<BUNDLEID>57111</BUNDLEID>
<PACKAGELISTID>35333</PACKAGELISTID>
<POSTALCODE>98278-4959</POSTALCODE>

<LABELSTRING>f1NEMjANX1hBDV5QVzEyMTkNXkNjMTMXkxIMCwDV5QUjQsNCwyDV5GVDASMTY3N15HQjEYMTMsmCwzMF5GUw1eRlQwLDEyOD1eR0IxMj
EzLDAsM15GUw1eRlQwLDExMzdeR0IxMjEzLDAsMzBeRlMNXkZUMzY2LDExMDzeR0IwLDMYMywzXkZTDV5GVDASnzgXkdCMTIxMywLdNerlMNXkZUNjEwL
DIyOV5BME4sNTUsnjleRkQxNyBmQlNeRlMNXkZUOTQ1LDIyOV5BME4sNDIeRkQxIE9GIDFeRlMNXkZUMzAsMjAzXkEwTiwYOCwzNV5GRFBjVE5FWSBC
T1dFuyBUUkFOU1BPU1RBVElPT15GUw1eRlQzMcWYNDBEQTBOLDI4LDM1XkZIXkZEKDGwMCKgOTYyX0YwNDA4OF5GUw1eRlQzMcWYNzdeQTBOLDI4LDM1XkZ
EUELUTkVZIEJFPV0VtXkZTDV5GVDmWLDmXm15BME4smjgsMzVerkQyNyBXQVRFU1ZJRvcgRFJjVjVjVerlMNXkZUMzAsMzUwXkEwTiwYOCwzNV5GRFNIRUxUT0
4gQ1QgMDY0ODReRlMNXkZUMzAsNDI3XkEwTiw0Miw1M15GRFNISVBeRlMNXkZUMzAsNDg4XkEwTiw0Miw1M15GRCBUTzpeRlMNXkZUMTgzLDQwOF5BME4sN
DIeRkQxkheRkQoODAwKSA5NjJfRjA0MDg4XkZTDV5GVD4Myw0NTZeQTBOLDQyLDUyXkZETkFTfDI SURCRVkgSVNMQU5EIE9GRkLDSUFMIE1BSUwgTUFe
RlMNXkZUMTgzLDUwNV5BME4sNDIeRkQxMDgWIFcgTEVY5U5HVE9OIFNUXkZTDV5GVD4Myw1NjReQTBOLDU1LDY5XkZIXkZET0FLIEhBUkJPUiBxQSA
5ODI3OF9GMDQ5NT1eRlMNXkZUMzAsMTA5N15CRDJeRkQxMDM4NDA5ODI3ODQ5NT1bKT5fMUUwMv8xRDk2MvowMDI0NjU3MP8xRFVQU05fMUQ2RTUzOE
ZfMUUwNzI3OjhKWUtIJulKSS5GRzEqQ1YyU1BaRddXS1hdIF8xQ1JaLkQ6TV8wRReggS1pMUF8wRF8xRV8wNPF5GUw1eRlQ0MjcsODk2XkEwTiw5NywxMjFeR
kheRkQgV0EgOTgyIDFfRjAwV5GUw1eQ1k2LCwXNTJeRlQ0OTYsMTA4M15CQ04sLE5eRkQ+OzQyMDk4Mjc4NDk1OV5GUw1eRlQzMcWxMjE5XkEwTiw2OSw4
N15GRFVQUyBHUk9VTkReRlMNXkZUMzAsMTI2M15BME4sMzUsNDReRkRUUkFDS01ORyAjoiAxWiA2RTUgMzhGIDAzIDAwMjJQnJjU3MF5GUw1eRlQxMDMwLDE
yODzeR0IxODMsMwNDErLlMNXkZJNSwsmZAlXkZUMT2LDE2MjJeQkNOLCxoXkZEPjoxWjZFNMT4Rj41MDMwMDI0NjU3MF5GUw1eRlQxNSwXnzEwXkEwTiw
zNSw0NF5GREJTEkxJTk66IFAvUF5GUw1eRlQ3MjIsMTk1OV5BME4sMjgsMzVerkQ5MTguQs4wMDAgWjM4NDRAIDQ4LjVWIIDA3LzIwMjFeRlMNX1ha</LAB
ELSTRING>

<ZONE>8</ZONE>
<ROUTING_CODE> WA 982 1-01</ROUTING_CODE>
</LABELREQUESTINFO>
<MMSPICEID>NONE</MMSPICEID>
<ORIGINATOR_TRACKING_NUMBER/>
</RATEDPACKAGE>
</RATEDSHIPMENT>
</SHIPMENTRESPONSE>

```

Rate Request

```

<?xml version="1.0" encoding="utf-8"?>
<RATEREQUEST>
  <LOGIN>
    <LOGINID>test</LOGINID>
    <PASSWORD>test</PASSWORD>
  </LOGIN>
  <DEFATTRIBUTES>
    <CONSIGNEE>
      <COMPANY>Banking By Mail M1</COMPANY>
      <CONTACT>HSBC Bank USA</CONTACT>
      <ADDRESS1>2929 Walden Ave</ADDRESS1>
      <ADDRESS2></ADDRESS2>
      <ADDRESS3></ADDRESS3>
      <CITY>Depew</CITY>
      <STATEPROVINCE>NY</STATEPROVINCE>
      <POSTALCODE>14043</POSTALCODE>
      <PHONE>9542672228</PHONE>
      <COUNTRYSYMBOL>US</COUNTRYSYMBOL>
    </CONSIGNEE>
    <SHIPPERINFO>
      <SHIPPER>CITRIX1</SHIPPER>
    </SHIPPERINFO>
    <TERMS>SHIPPER</TERMS>
    <CURRENCYCODE>USD</CURRENCYCODE>
    <SHIPDATE>2021-09-20</SHIPDATE>
    <SHIPMENTSERVICEOPTIONS />
  </DEFATTRIBUTES>
  <PACKAGES>
    <PKG>
      <PKGWEIGHT>
        <WEIGHTUNITS>LB</WEIGHTUNITS>
        <WEIGHTVALUE>2</WEIGHTVALUE>
      </PKGWEIGHT>
      <PACKAGING>CUSTOM</PACKAGING>
      <REFERENCE>
        <CONSIGNEEREERENCE></CONSIGNEEREERENCE>
        <SHIPPERREFERENCE></SHIPPERREFERENCE>
      </REFERENCE>
      <PACKAGESERVICEOPTIONS>
        <PIECE_COUNT></PIECE_COUNT>
        <DELIVERYOPTIONS />
      </PACKAGESERVICEOPTIONS>
      <PACKAGE_INFO>
        <PACKAGE_ELEMENTS>
          <ELEMENT_ITEM>

```

```

                <ITEM_NAME>USER_DATA_5</ITEM_NAME>
                <ITEM_VALUE>Monday</ITEM_VALUE>
            </ELEMENT_ITEM>
        </PACKAGE_ELEMENTS>
    </PACKAGE_INFO>
</PKG>
</PACKAGES>
<PKGSERVICE>
    <SCS>CONNECTSHIP_UPS.UPS.NDA</SCS>
</PKGSERVICE>
</RATEREQUEST>

```

Rate Response

```

<?xml version="1.0"?>
<RATERESPONSE>
    <RESPONSE>
        <TRANSACTIONREFERENCE>
            <CUSTOMERCONTEXT>Local mode using Progistics XML Processor</CUSTOMERCONTEXT>
            <XPCIVERSION>6.5.6</XPCIVERSION>
        </TRANSACTIONREFERENCE>
        <RESPONSESTATUSCODE>0</RESPONSESTATUSCODE>
        <RESPONSESTATUSDESCRIPTION>Success</RESPONSESTATUSDESCRIPTION>
    </RESPONSE>
    <RATEDSHIPMENT>
        <ERROR>
            <ERRORCODE>0</ERRORCODE>
            <ERRORDESCRIPTION>No error</ERRORDESCRIPTION>
        </ERROR>
        <SHIPMENTSERVICE>
            <SCS>CONNECTSHIP_UPS.UPS.NDA</SCS>
            <DESCRIPTION>UPS Next Day Air</DESCRIPTION>
        </SHIPMENTSERVICE>
        <BILLINGWEIGHT>
            <WEIGHTUNITS>LB</WEIGHTUNITS>
            <WEIGHTVALUE>2</WEIGHTVALUE>
        </BILLINGWEIGHT>
        <TOTALCHARGES>
            <CURRENCYCODE>USD</CURRENCYCODE>
            <MONETARYVALUE>19.11</MONETARYVALUE>
        </TOTALCHARGES>
        <TRANSPORTATIONCHARGES>
            <CURRENCYCODE>USD</CURRENCYCODE>
            <MONETARYVALUE>77.69</MONETARYVALUE>
        </TRANSPORTATIONCHARGES>
        <SERVICEOPTIONSCHARGES>
            <CURRENCYCODE>USD</CURRENCYCODE>
            <MONETARYVALUE>0</MONETARYVALUE>
        </SERVICEOPTIONSCHARGES>
        <DISCOUNT>
            <CURRENCYCODE>USD</CURRENCYCODE>
            <MONETARYVALUE>58.58</MONETARYVALUE>
        </DISCOUNT>
        <GUARANTEEDDAYSTODELIVERY>1</GUARANTEEDDAYSTODELIVERY>
        <SCHEDULEDELIVERYTIME>10:30:00</SCHEDULEDELIVERYTIME>
        <ARRIVEDATE>9/21/2021</ARRIVEDATE>
        <RATEDPACKAGE>
            <PKGERROR>
                <ERRORCODE>0</ERRORCODE>
                <ERRORDESCRIPTION>No error</ERRORDESCRIPTION>
            </PKGERROR>
            <PKGSERVICE>
                <SCS>CONNECTSHIP_UPS.UPS.NDA</SCS>
                <DESCRIPTION>UPS Next Day Air</DESCRIPTION>
            </PKGSERVICE>
            <REFERENCE>
                <SHIPPERREFERENCE/>
                <CONSIGNEEREFERENCE/>
            </REFERENCE>
            <PACKAGETOTALCHARGES>
                <CURRENCYCODE>USD</CURRENCYCODE>
                <MONETARYVALUE>19.11</MONETARYVALUE>
            </PACKAGETOTALCHARGES>
            <PACKAGEBASECHARGES>
                <CURRENCYCODE>USD</CURRENCYCODE>
                <MONETARYVALUE>77.69</MONETARYVALUE>
            </PACKAGEBASECHARGES>
            <PACKAGESERVICEOPTIONSCHARGES>
                <CURRENCYCODE>USD</CURRENCYCODE>
                <MONETARYVALUE>0</MONETARYVALUE>
            </PACKAGESERVICEOPTIONSCHARGES>
            <PACKAGEDISCOUNT>
                <CURRENCYCODE>USD</CURRENCYCODE>
                <MONETARYVALUE>58.58</MONETARYVALUE>
            </PACKAGEDISCOUNT>
            <PKGWEIGHT>
                <WEIGHTUNITS>LB</WEIGHTUNITS>

```

```

        <WEIGHTVALUE>2</WEIGHTVALUE>
    </PKGWEIGHT>
    <BILLINGWEIGHT>
        <WEIGHTUNITS>LB</WEIGHTUNITS>
        <WEIGHTVALUE>2</WEIGHTVALUE>
    </BILLINGWEIGHT>
</RATEDPACKAGE>
</RATEDSHIPMENT>
</RATERESPONSE>

```

Address Validation Request

```

<?xml version="1.0" encoding="utf-8"?>
<ADDRESSVALIDATEREQUEST>
    <LOGIN>
        <LOGINID>test</LOGINID>
        <PASSWORD>test</PASSWORD>
    </LOGIN>
    <ADDRESS_DATA>
        <ADDRESS1>328 W. MAIN</ADDRESS1>
        <ADDRESS2></ADDRESS2>
        <ADDRESS3></ADDRESS3>
        <CITY>AZLE</CITY>
        <STATEPROVINCE>TX</STATEPROVINCE>
        <POSTALCODE>76020</POSTALCODE>
        <COUNTRYSYMBOL>US</COUNTRYSYMBOL>
    </ADDRESS_DATA>
    <VALIDATION_TYPE>FLEX</VALIDATION_TYPE>
</ADDRESSVALIDATEREQUEST>

```

Address Validation Response

```

<?xml version="1.0"?>
<ADDRESSVALIDATERESPONSE>
    <RESPONSE>
        <TRANSACTIONREFERENCE>
            <CUSTOMERCONTEXT>Local mode using Progistics XML Processor</CUSTOMERCONTEXT>
            <XPCIVERSION>6.5.6</XPCIVERSION>
        </TRANSACTIONREFERENCE>
        <RESPONSESTATUSCODE>0</RESPONSESTATUSCODE>
        <RESPONSESTATUSDESCRIPTION>Success</RESPONSESTATUSDESCRIPTION>
    </RESPONSE>
    <RETURN>
        <ADDRESS_DATA>
            <ERRORCODE>0</ERRORCODE>
            <ERRORDescription>No error</ERRORDescription>
            <ORIGINALADDRESS>
                <ADDRESS1>328 W. MAIN</ADDRESS1>
                <CITY>AZLE</CITY>
                <STATEPROVINCE>TX</STATEPROVINCE>
                <POSTALCODE>76020</POSTALCODE>
                <COUNTRYSYMBOL>UNITED_STATES</COUNTRYSYMBOL>
                <RESIDENTIAL>false</RESIDENTIAL>
            </ORIGINALADDRESS>
            <CANDIDATE_ADDRESSES>
                <CANDIDATE_ADDRESS>
                    <ADDRESS1>328 W MAIN ST</ADDRESS1>
                    <CITY>AZLE</CITY>
                    <STATEPROVINCE>TX</STATEPROVINCE>
                    <POSTALCODE>76020-2995</POSTALCODE>
                    <COUNTRYSYMBOL>UNITED_STATES</COUNTRYSYMBOL>
                    <RESIDENTIAL>False</RESIDENTIAL>
                    <CONSVAlIDATED>False</CONSVAlIDATED>
                    <RESI_COMM>False</RESI_COMM>
                </CANDIDATE_ADDRESS>
            </CANDIDATE_ADDRESSES>
        </ADDRESS_DATA>
    </RETURN>
</ADDRESSVALIDATERESPONSE>

```

Closeout Request

```

<?xml version="1.0" encoding="utf-8"?>
<CLOSEOUTREQUEST>
    <LOGIN>
        <LOGINID>test</LOGINID>
        <PASSWORD>test</PASSWORD>
    </LOGIN>
    <CLOSEOUT>
        <SC>CONNECTSHIP_UPS.UPS</SC>
        <SHIPPER>CITRIX1</SHIPPER>
        <CLOSEOUTITEM>SHIPDATE_20210920</CLOSEOUTITEM>
    </CLOSEOUT>
</CLOSEOUTREQUEST>

```

Closeout Response

```

<?xml version="1.0"?>
<CLOSEOUTRESPONSE>
  <RESPONSE>
    <TRANSACTIONREFERENCE>
      <CUSTOMERCONTEXT>Local mode using Progistics XML Processor</CUSTOMERCONTEXT>
      <XPCIVERSION>6.5.6</XPCIVERSION>
    </TRANSACTIONREFERENCE>
    <RESPONSESTATUSCODE>0</RESPONSESTATUSCODE>
    <RESPONSESTATUSDESCRIPTION>Success</RESPONSESTATUSDESCRIPTION>
  </RESPONSE>
  <RETURN>
    <CLOSEOUTRETURN>
      <CLOSEOUTREQUESTED>(CONNECTSHIP_UPS.UPS) CITRIX1</CLOSEOUTREQUESTED>
      <ERRORCODE>0</ERRORCODE>
      <ERRORDESCRIPTION>No error</ERRORDESCRIPTION>
      <CLOSEOUTRESULTS>
        <SHIPFILEITEM>2518</SHIPFILEITEM>
        <SHIPFILEDETAIL>
          <CARRIERINFO/>
          <CATEGORYINFO/>
          <FRIENDLYNAME>September 20, 2021 #1</FRIENDLYNAME>
          <IDENTITY>2518</IDENTITY>
          <SEQUENCENUMBER>1</SEQUENCENUMBER>
          <SHIPDATE>9/20/2021</SHIPDATE>
          <SHIPFILEITEM_ATTRIBUTES>
            <ATTRIBUTE_ITEM>
              <ITEM_NAME>SHIPDATE</ITEM_NAME>
              <ITEM_VALUE>9/20/2021</ITEM_VALUE>
            </ATTRIBUTE_ITEM>
            <ATTRIBUTE_ITEM>
              <ITEM_NAME>PICKUP_RECORD_NUMBER</ITEM_NAME>
              <ITEM_VALUE>4440161272</ITEM_VALUE>
            </ATTRIBUTE_ITEM>
            <ATTRIBUTE_ITEM>
              <ITEM_NAME>PLD_BOOK_NUMBER</ITEM_NAME>
              <ITEM_VALUE>4440161</ITEM_VALUE>
            </ATTRIBUTE_ITEM>
            <ATTRIBUTE_ITEM>
              <ITEM_NAME>PLD_PAGE_NUMBER</ITEM_NAME>
              <ITEM_VALUE>27</ITEM_VALUE>
            </ATTRIBUTE_ITEM>
          </SHIPFILEITEM_ATTRIBUTES>
        </SHIPFILEDETAIL>
        <TRANSMITFILEITEM>PLD_1_20210920_2518_1</TRANSMITFILEITEM>
        <TRANSMITFILEDETAIL>
          <TRANSMITFILEPATH>D:\Program
Files\ConnectShip\Progistics\AdditionalComponents\Servers\TanData\UPS\PLD_1_20210920_2518_1_T.txt</TRANSMITFILEPATH>
          <CARRIERINFO/>
          <CATEGORYINFO/>
          <FRIENDLYNAME>September 20, 2021 #1 (PLD)</FRIENDLYNAME>
          <IDENTITY>PLD_1_20210920_2518_1</IDENTITY>
          <SEQUENCENUMBER>1</SEQUENCENUMBER>
          <SHIPDATE>9/20/2021</SHIPDATE>
          <TRANSMITSTATUS>(2) Transmitted</TRANSMITSTATUS>
        </TRANSMITFILEDETAIL>
        <ERRORCODE>0</ERRORCODE>
        <ERRORDESCRIPTION>CloseOutItem (SHIPDATE_20210920) was successfully CLOSED.</ERRORDESCRIPTION>
      </CLOSEOUTRESULTS>
    </CLOSEOUTRETURN>
  </RETURN>
</CLOSEOUTRESPONSE>

```