EFI PrintStream

Overview - BOD Shipping with eFlow

V21.1.0200

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Introduction

BOD is the EFI standard format for inter-module communication. The format is more comprehensive and extensible to any other EFI product or even non EFI Products. This is based on the OAGIS industry standards.

The communication channel used for transmitting BOD is eFlow, a new EFI enterprise bus. It is a highly scalable and robust communication platform built on Active MQ and Java technologies. eFlow offers multiple advantages over the traditional point to point WebService interaction between PrintStream and Process Shipper - scalable, message persistence , asynchronicity. Additional enhancements and Changes in the future will be available mostly in the eFlow/BOD platforms.

With the release of Suite 7.1 you will be able to take advantage of integrating PrintStream with Process Shipper via eFlow. Both systems will need to be configured. Below shows you how to setup the PrintStream side to interface face with eFlow and take advantage using BOD shipments.

Please note: This is a limited release of Shipping using BOD with EFI Process Shipper, an award-winning multicarrier parcel shipping management software designed to streamline and automate freight shipping processes. We expect more changes in the integration in future release.

Contact Information

EFI Support

US Phone:	855.334.4457 (first select option 3, then press option 8, then press option 1)
US Fax:	415.233.4157
US E-mail:	PrintStream.support@efi.com

Regular Service Desk hours are 8:00 AM to 7:00 PM Central Time, Monday – Friday. Outside of these hours, you may leave a voice mail message and an on-call support representative will be paged. Response time is based on the severity of the issue.

Note For problems involving infrastructure (i.e., computers, networks, operating systems, backup software, printers, third-party software, etc.), contact the appropriate vendor. EFI cannot support these types of issues.

EFI Professional Services

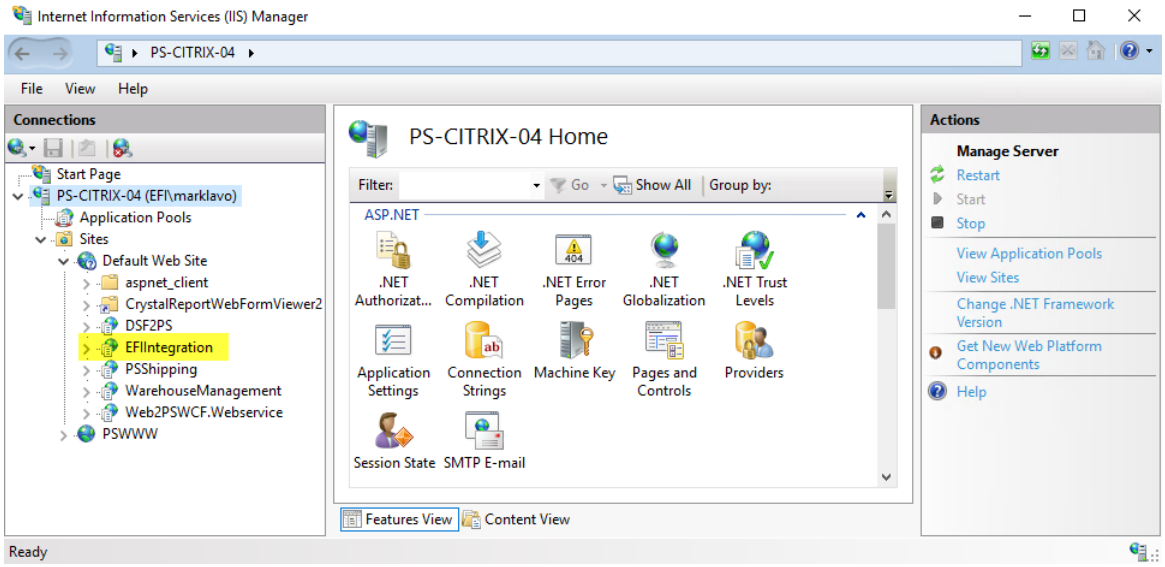
US Phone:	651.365.5321
US Fax:	651.365.5334
E-Mail:	ProServices@efi.com

Pre-Requisite:

EFI Integration Web service needed

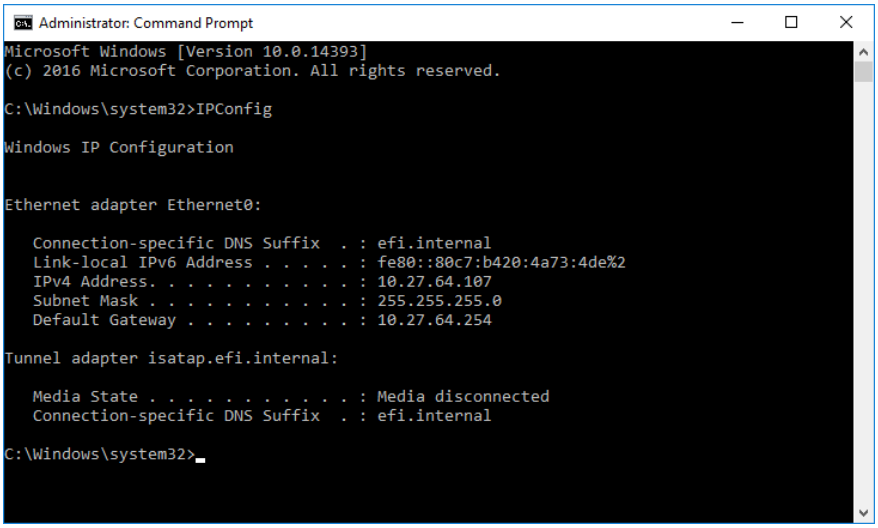
You **must** have the EFI Integration web service installed and running in order to use the BOD Shipping Integration.

To confirm you have it installed, go to your web server and open Internet Information Services and expand the “Sites” folder on the left side. You should see something like this:



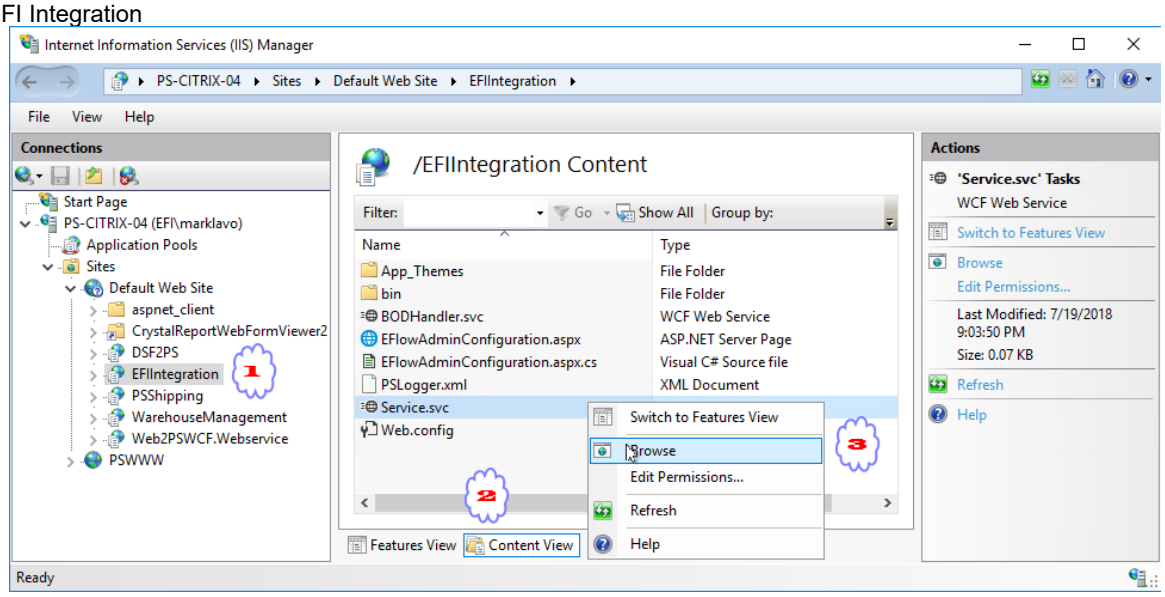
If you see the EFI Integration site listed, then it looks like it’s installed. In order to confirm it’s working properly, we will need to gather some information and run a simple test.

Open a command prompt and type in IPConfig. This should show the IP address (IPv4 Address,) shown below [my IP address is 10.27.64.107].

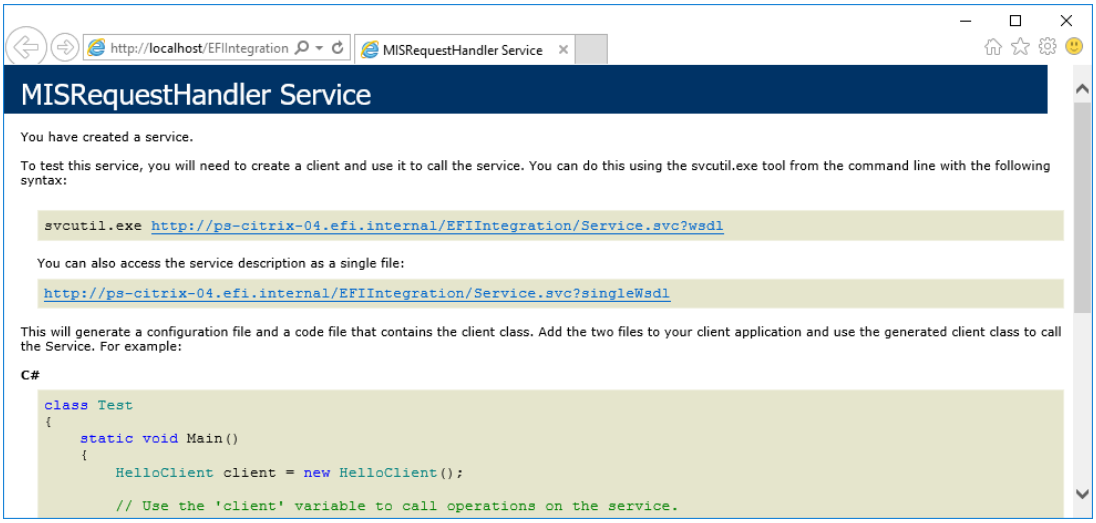


Next, let's check that the web service is functioning properly. Go back to the IIS screen and click on the web site, then click the Content view and right-click on "Service.svc" and select browse.

EFI Integration



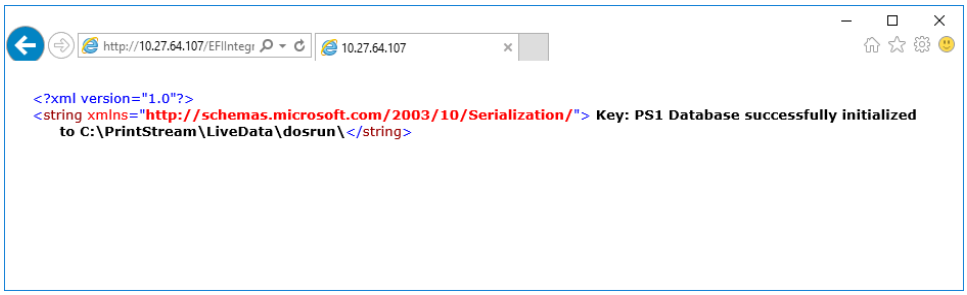
This should open an internet explorer window like this:



Change the word "localhost" to the IP address you got from the command windows (in my example it was 10.27.64.107). Also, we will add a "/ServiceCheck" to the end of the URL. So keeping with my example, I would have this URL

http://10.27.64.107/EFIIntegration/Service.svc/ServiceCheck

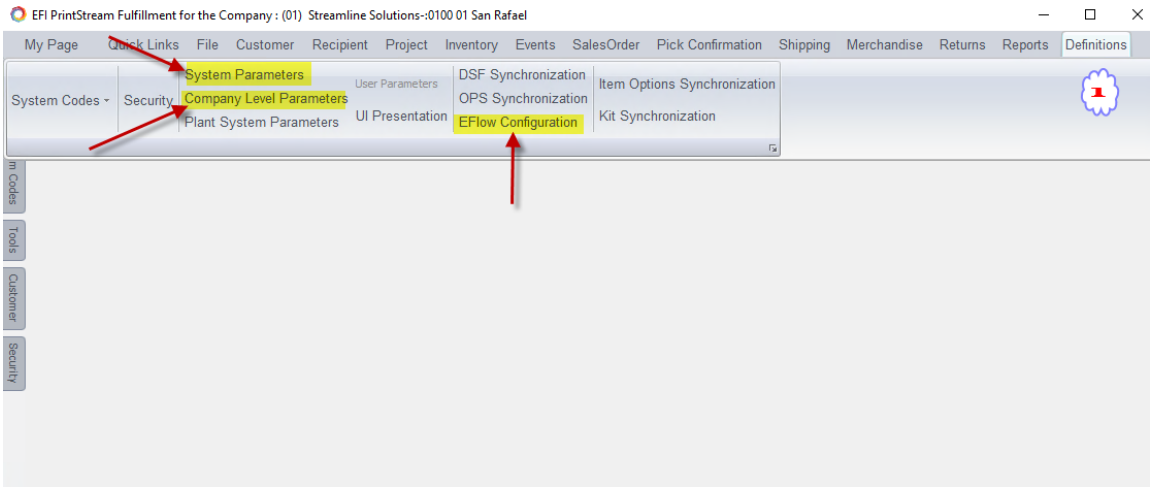
If you get the following where it shows the dosrun path, then you are good. If not, you will need to work with a PrintStream Support Representative to get this web service up and running.



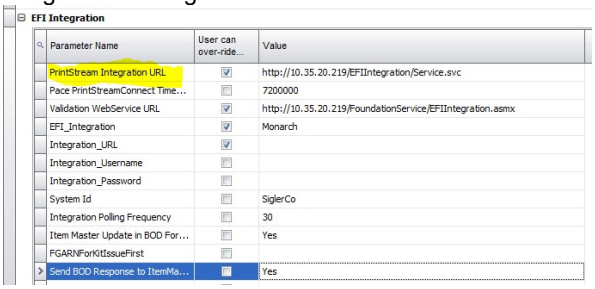
Setting up PrintStream

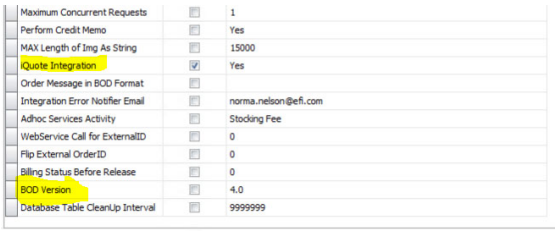
System Parameters

Once you verify that the EFI Integration web service is up and running, the next steps are to set up PrintStream to access this web service and integrate with eFlow. Open the PSMB and then open Fulfillment. Click on Definitions in the menu bar (upper right). We will need to make changes in three places (System Parameters, Company Level Parameters, and EFlow Configuration).



First, let's update the needed settings in System Parameters. Click on System Parameters and expand the "EFI Integration Settings".



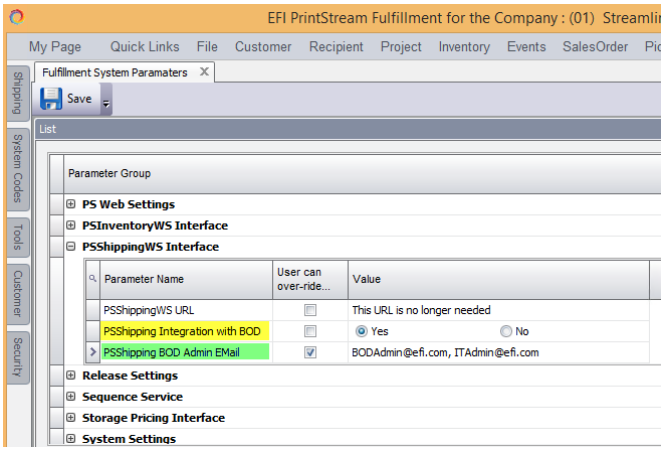


(1) Set "IQuote Integration" to **Yes**

(2) Add the URL to "PrintStream Integration URL" it's the URL you used above **minus** the "/ServiceCheck". As you can see in my example, I entered **http://10.27.64.107/EFIIntegration/Service.svc**

(3) Add the BOD Version of **4.0**

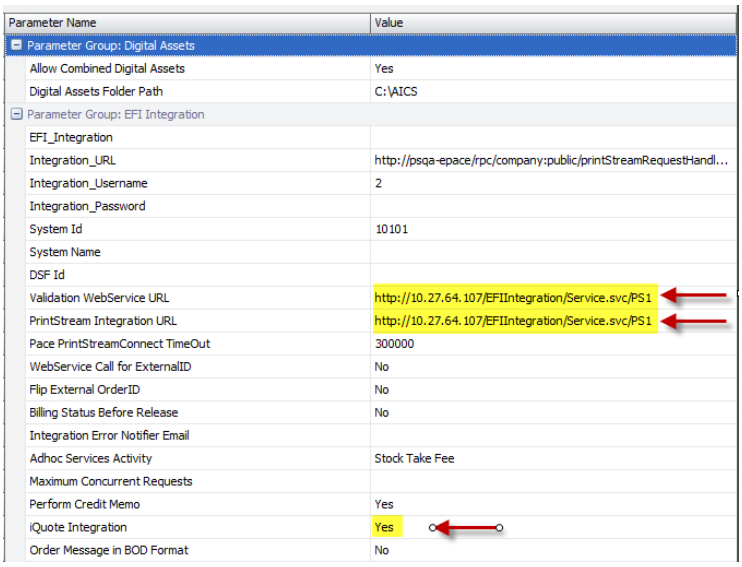
Next, a little lower in the tree, locate the "PSShippingWS Interface" folder and expand it. You will see an option called "PSShipping Integration with BOD". Click the Yes option. You will also see a place to add an email address. This email address will be notified when BOD Shipping errors occur. You can add multiple email addresses separated by a comma.



Click the Save button to save these changes.

Company Level Parameters

Next we need to work on the Company Level Parameters. Go back to the Definitions menu option and click the Company Level Parameters menu options. When the screen is displayed, please confirm these settings are valid:



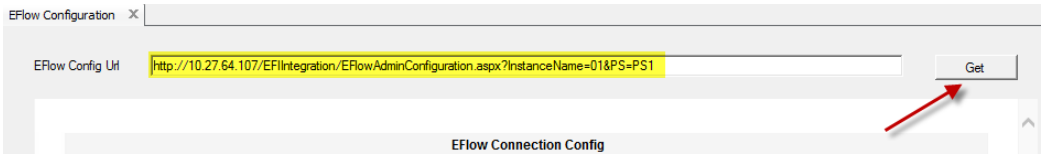
(1) Make sure both the Validation WebService URL and the PrintStream Integration URL show the EFIIntegration web service URL with the correct key (in this case PS1)

(2) Make sure the iQuote Integration is set to **Yes**

Click the Save button to save these changes.

eFlow Configuration

The last step is to configure the eFlow Channel. Go back to the Definitions menu option and then Click EFlow Configuration. This is where the EFIIntegration web service comes into play. You will see the following screen.



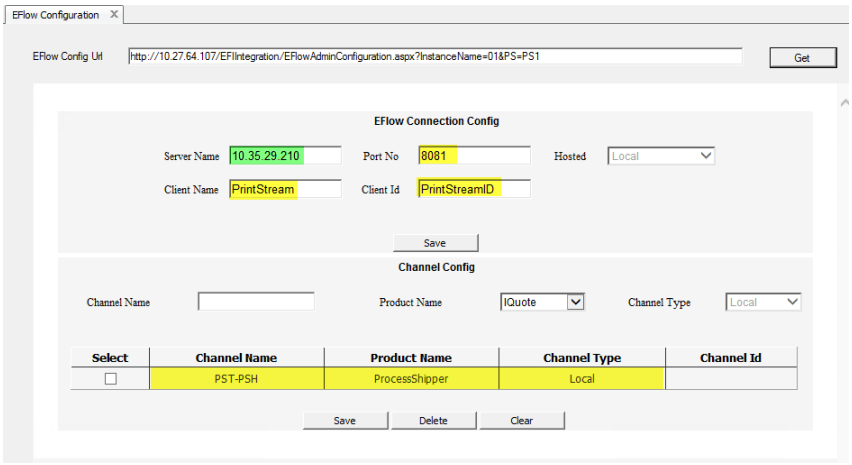
Enter **part** of the EFIIntegration URL in the EFlow Config Url textbox. You will notice that you only use the beginning part of the (the IP address and web site name – in my example: http://10.27.64.107/EFIIntegration). After that add the following…

"**//EFlowAdminConfiguration.aspx?InstanceName=01&PS=PS1**" where the PS1 represents the key.

So your full URL used to call the eFlow piece of EFIIntegration is:

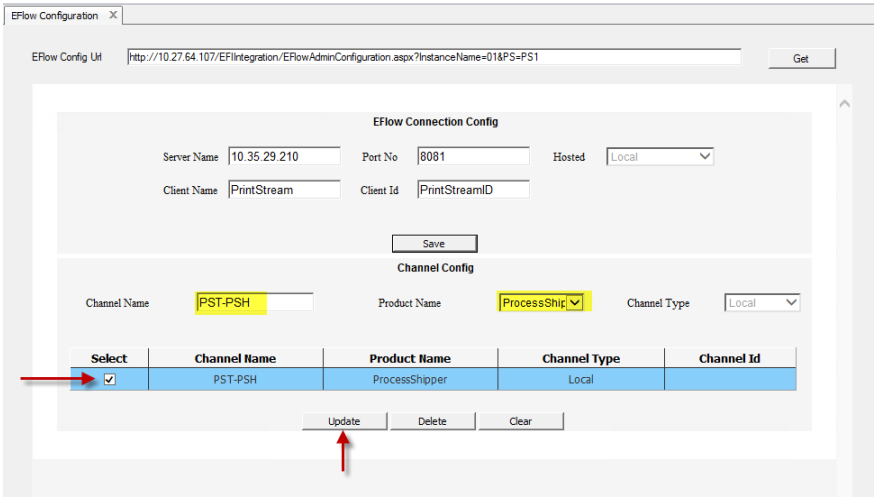
http://10.27.64.107/EFIIntegration/EFlowAdminConfiguration.aspx?InstanceName=01&PS=PS1

Once you enter that, click the Get button. This will take a moment, but it should bring back something similar to this:



Make sure the Server Name: (i.e. green area) has the IP address for the eFlow server. Make the Port No "8081". If not set, the Client Name needs to be "PrintStream" and the Client Id "PrintStreamID" – as shown. If all is set, then click the Save button in the middle of the screen to save these configurations.

Next, review the lower section of the screen, click the check box. This should populate the Chanel Name and Product Name dropdown. **THESE MUST USE "PST-PSH" and "ProcessShipper"** as shown. Once set, click the Update button to save this information.



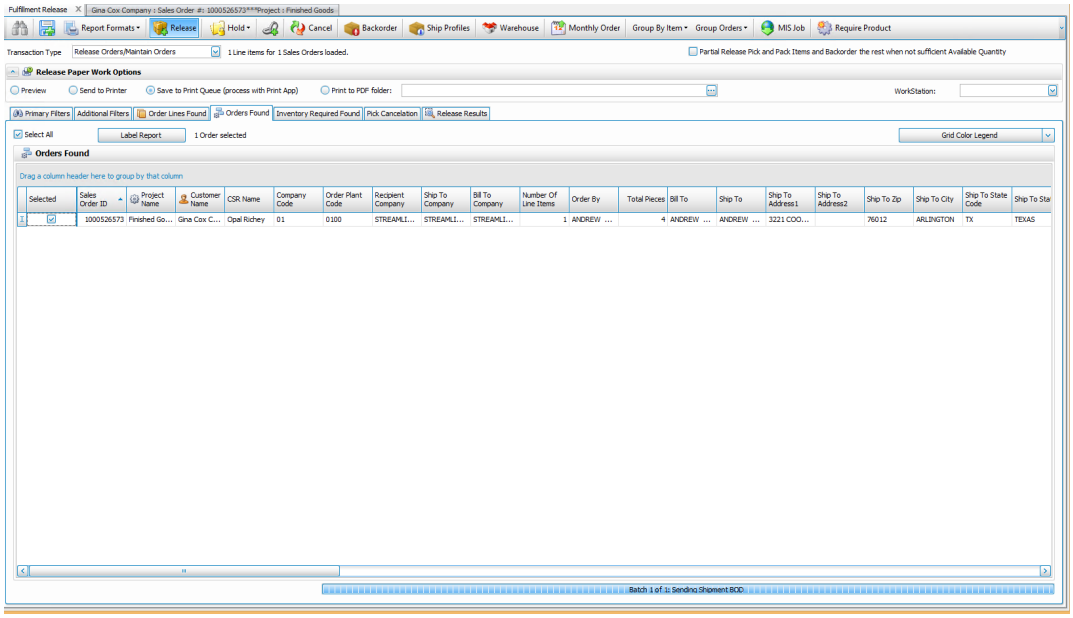
BOD Shipping in PrintStream

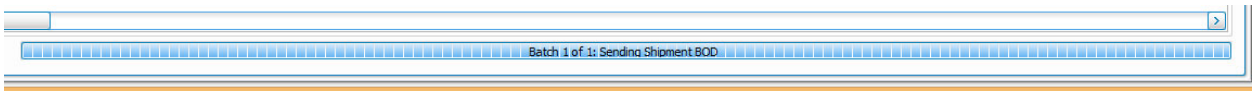
Overview

One thing you will notice with BOD Shipping is there isn't much visual representation in PrintStream. The goal is to make this seamless with the other integration systems. For the most part the only visual aspects would be when an error was encountered. Below are screen shot sample of screens that interact with BOD Shipping.

Release Screen

You may notice that as you are releasing sales orders, the status bar in the lower right-hand corner of the screen may display the following:





Pick Confirmation and Shipping Screen

On both the pick confirmation and manual shipping screens you will be able to see the BOD Status if you are using BOD Shipping. This status represents the stage in where this BOD shipment current is. If there is an error you will be able to locate it on one of these 2 screens by simple entering the pick id.

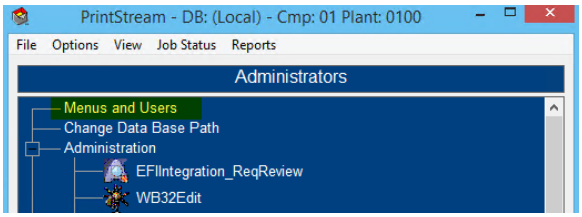
BOD Staging Utility

Once you make the decision to cut over to BOD Shipping, moving forward the picks will automatically be added to the eFlow messenger. However, what about those picks that need to be staged? We have a utility that you can run to stage picks to the eFlow messenger. These instructions outline how to add and use this utility.

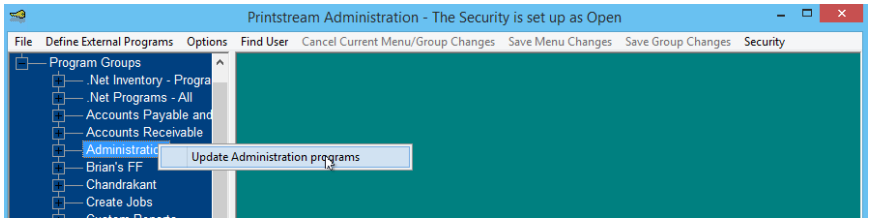
NOTE: You will need to work with an EFI PrintStream representative to perform the following task in this section.

Adding BOD Staging Utility

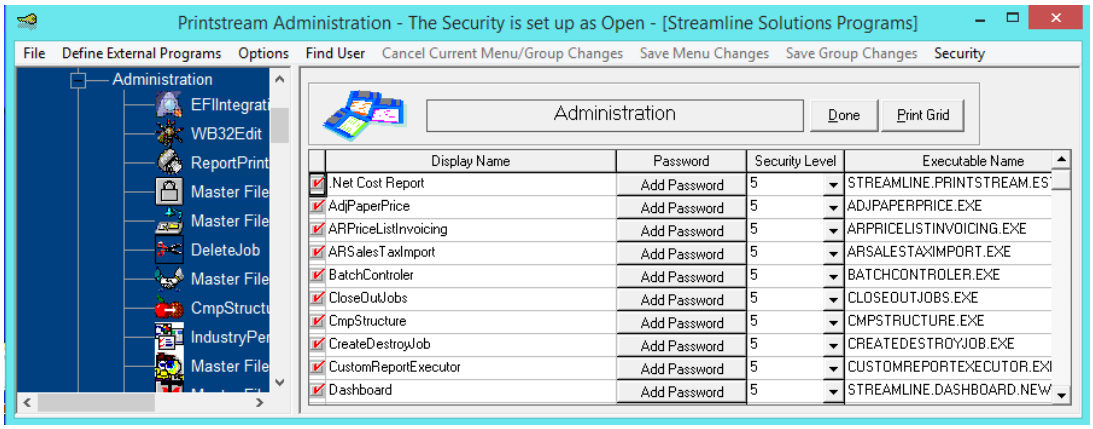
In order to stage already released picks to the eFlow messenger, you'll need to add a new utility to the PSMB. Open the PSMB and click the Menus and Users option at the top of the screen.



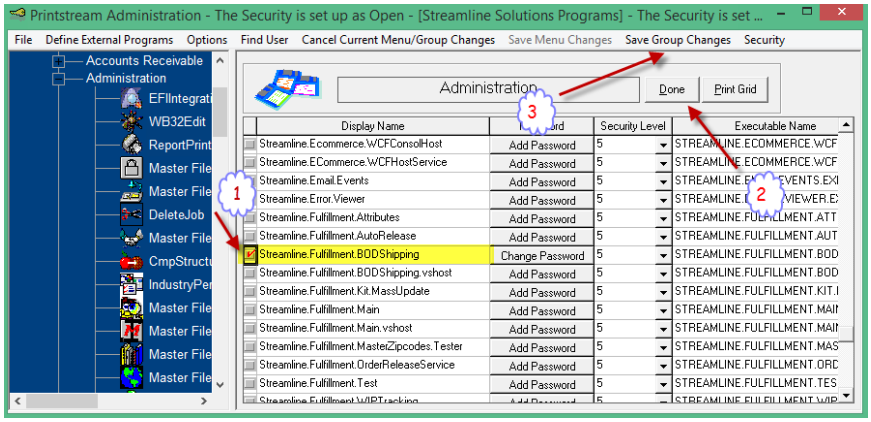
Once the screen appears expand the Program Group menu option from the tree on the left, locate the Administration option, right-click and select Update Administration programs.



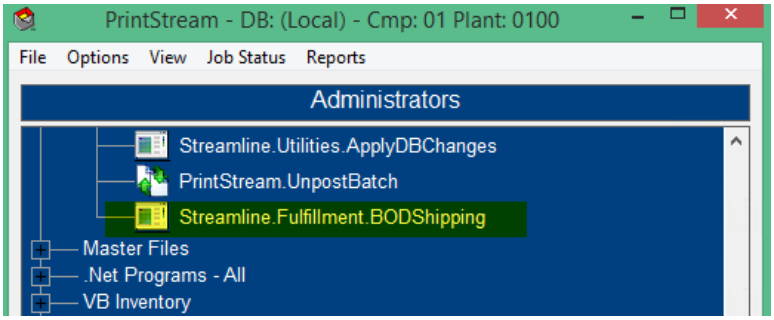
You should see something like this.



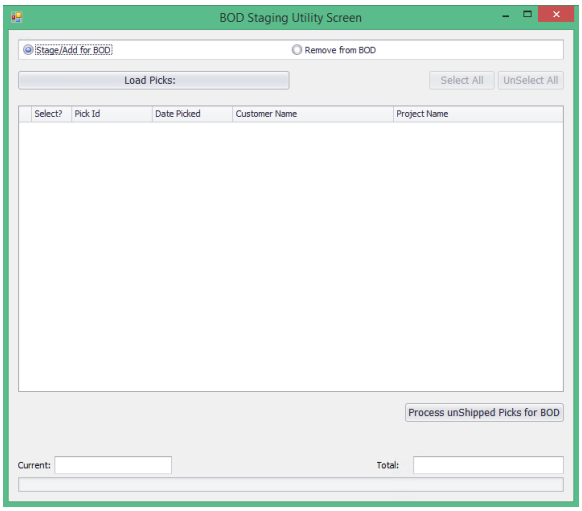
Click the Display Name column header in the grid to sort the program names and locate the program Streamline.Fulfillment.BODShipping. Then click the check box on the left of it. Click the Done button and then click Save Group Changes. Then close out.



Once the screen disappears you will need to exit the PSMB and re-launch it so the new settings can take effect. Reload the PSMB, log in and expand the “Administration” menu option. You should now see the Streamline.Fulfillment.BODShipping icon at the bottom of the list.



Click the program and you’ll see the following screen.

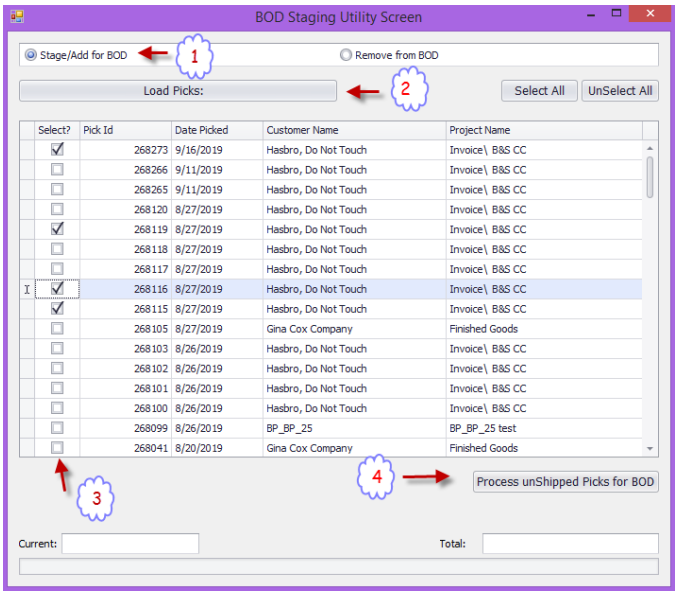


Here is some information about this screen, This screen can stage ready picks for BOD shipping. It can also remove them from the BOD eFlow (i.e. “send delete”) as well.

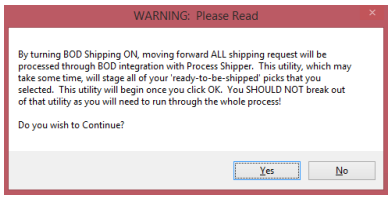
Staging Picks for BOD:=

If you want to stage picks, select the Stage/Add for BOD option at the top of the screen and click the Load Picks button. This will bring in any picks that are ready to be staged for BOD.

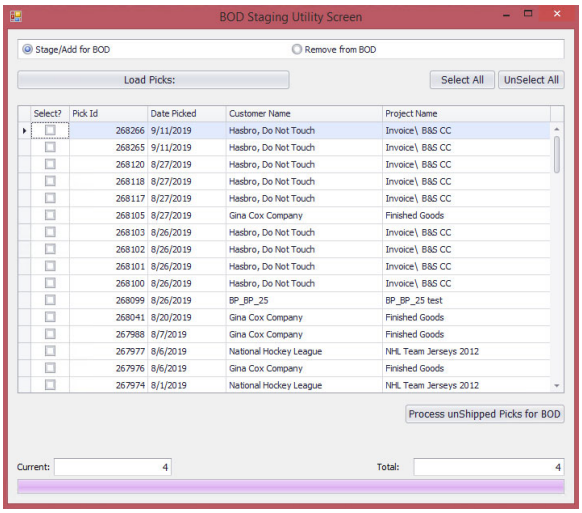
Note: we only bring in 100 picks at a time, so if you have more than that you will need to hit the Load Picks button after you process that previous bunch. This will also bring in the most current picks first. Select the Picks you want to stage and then click the Process unshipped Picks for BOD button.



Click the Process unshipped Picks for BOD button. Next, you will receive a confirmation pop-up confirming you want to proceed. Click Yes.



The process will begin, by just listing the picks you selected and then finalizing with this screen indicating that the all of the picks you staged went through.

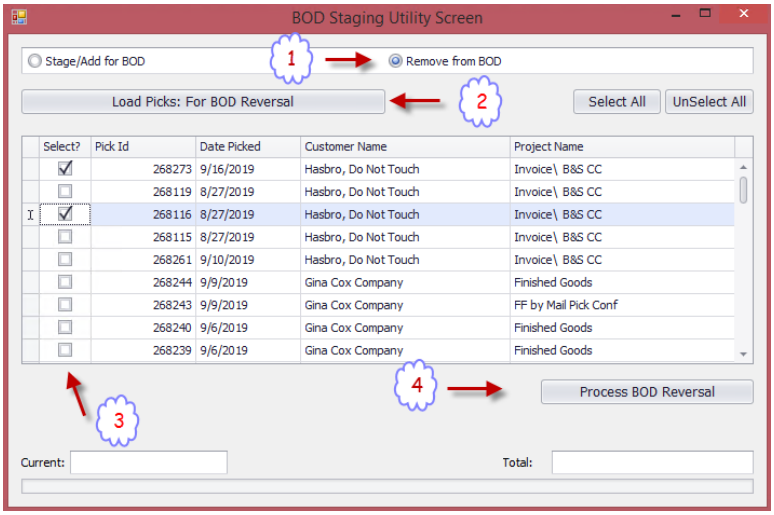


After it's done, those selected picks will disappear from the list. Again, if you want more picks you can always click the Load Picks button to bring in up to 100 picks at a time.

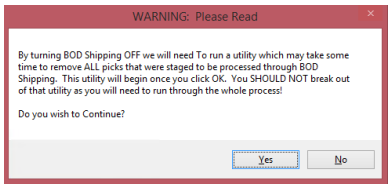
Un-Staging or Removing Picks from BOD

If you want to un-stage picks, select the Remove from BOD option on the top of the screen and click the Load Picks button. This will bring in any picks that are ready to be staged for BOD.

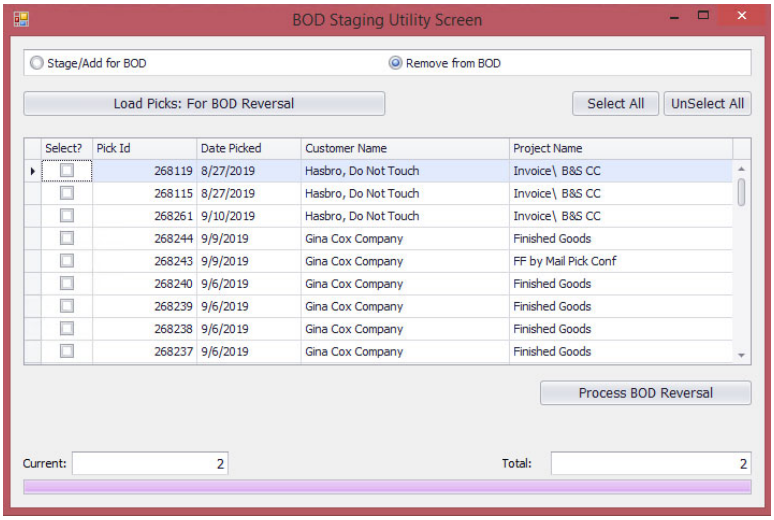
Note: we only bring in 100 picks. Select the Picks you want to un-stage and then click the Process BOD Reversal button.



Click the Process BOD Reversal button. Next, you will receive a confirmation pop-up just making sure you want to proceed. Click Yes.



The process will begin by just listing the picks you selected and then finalizing with this screen indicating that the all of the picks you un-staged went through.

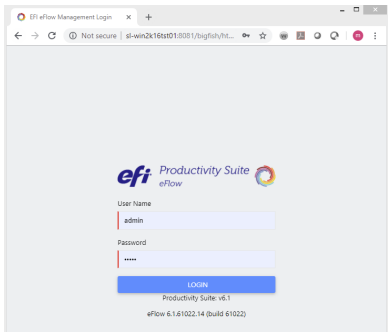


eFlow Messenger

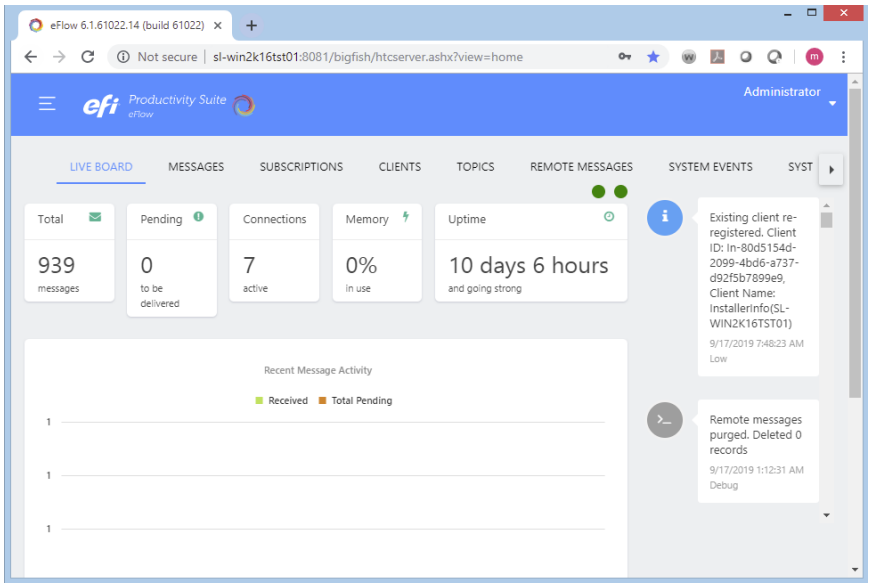
Overview

The eFlow Messenger (or eFlow Channel), is where all the BOD XML is stored between the integrated systems. This is where you will see what XML has been sent to Process Shipper, the acknowledgement XML coming back and more.

Open a browser and go to the eFlow URL. You will be required to log in. If you do not know your login credentials, you'll need to contact your EFI representative



Once you log in you will see the main eFlow screen.



From here you should reference your eFlow documentation for further information on options within eFlow.