



## **RESOLV THIRD PARTY MANAGEMENT (3PL)**

**USER MANUAL**

**Version 10.0**

**PRESENTED BY  
ACHIEVE IT SOLUTIONS**



**SAP® Certified**  
SAP Business One Integration

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The logo for SAP Certified SAP Business One Integration. It features the word "SAP" in a bold, black, sans-serif font with a registered trademark symbol (®) to its upper right. To the right of "SAP" is the word "Certified" in a larger, black, sans-serif font. Below "SAP Certified" is the text "SAP Business One Integration" in a smaller, black, sans-serif font.

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**RESOLV THIRD PARTY MANAGEMENT  
USER MANUAL  
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## Introduction

**Resolv Third Party Management** provides a quick, easy way to manage and automate the integration of Transactional and Master Data with other systems and third parties. This allows user level mapping with Third Party Warehouses (3PL), Point of Sale Systems (POS) and any other system that is capable of XML based import and/or export.

### Summary of features:

- *FTP connectivity*
- *Ability to use naming conventions from the integrated system*
- *No programming to build or modify integrations*
- *Transactions Supported*
  - Sales Order
  - Delivery
  - AR Invoice
  - Purchase Order
  - Goods Receipt PO
  - Inventory Transfer Request
  - Inventory Transfer
  - Goods Issue
  - Goods Receipt
  - AP Credit memo
- *Master Data Supported*
  - Business Partners
  - Ship To Addresses
  - Item Master

## Setups

There are a couple of setup screens that must be updated to use the features of **Resolv Third Party Management**.

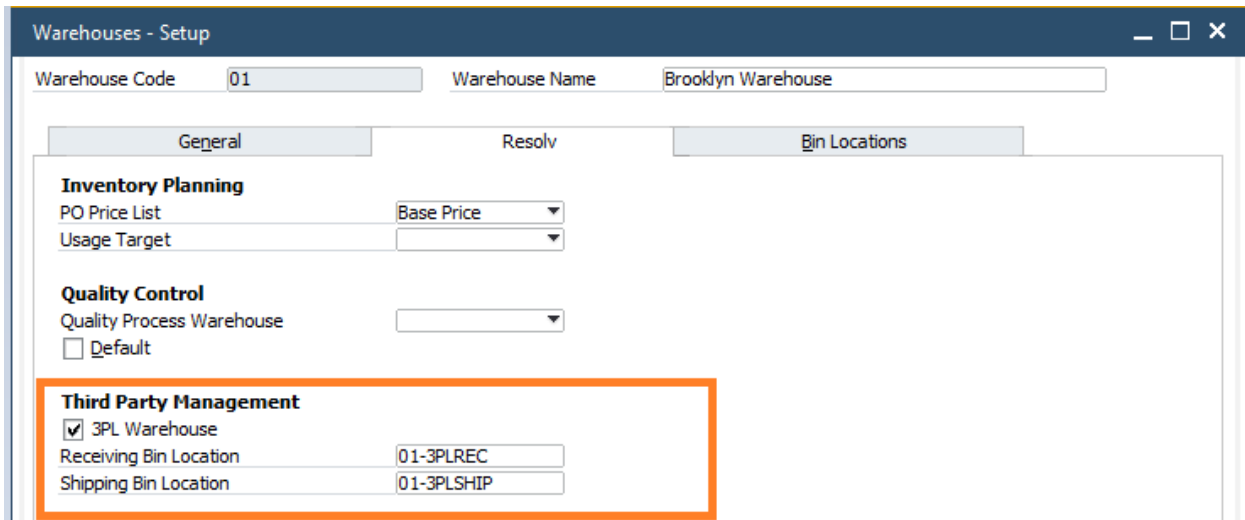
### Preparation

Part of the flexibility of 3PL is the ability to utilize the naming conventions of the other system which maximizes the likelihood of a successful configuration. However, if both sides of the integration are new, the third party may not have any preexisting data to export. You may need to work with the third party to determine the required data to ensure both systems' users can use the integration.

### Inventory Warehouses Setup

*Administration > Setup > Inventory > Warehouses*

*The Resolv tab allows warehouses to be configured as 3PL Warehouse. The 3PL Warehouse check box must be activated for this warehouse to be used in any of the 3PL processing.*



#### Receiving Bin Location

Enter the default Receiving Bin Location

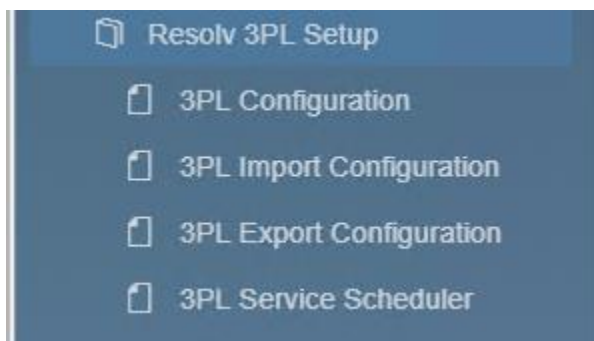
#### Shipping Bin Location

Enter the default Shipping Bin Location

## Resolv 3PL Setup

*Administration > Resolv Setup > Resolv 3PL Setup*

The configuration options for 3PL are found in the Administration menu under Resolv Setup. You will be able to create a “Third Party” for each system you wish to integrate with.



### **3PL Configuration**

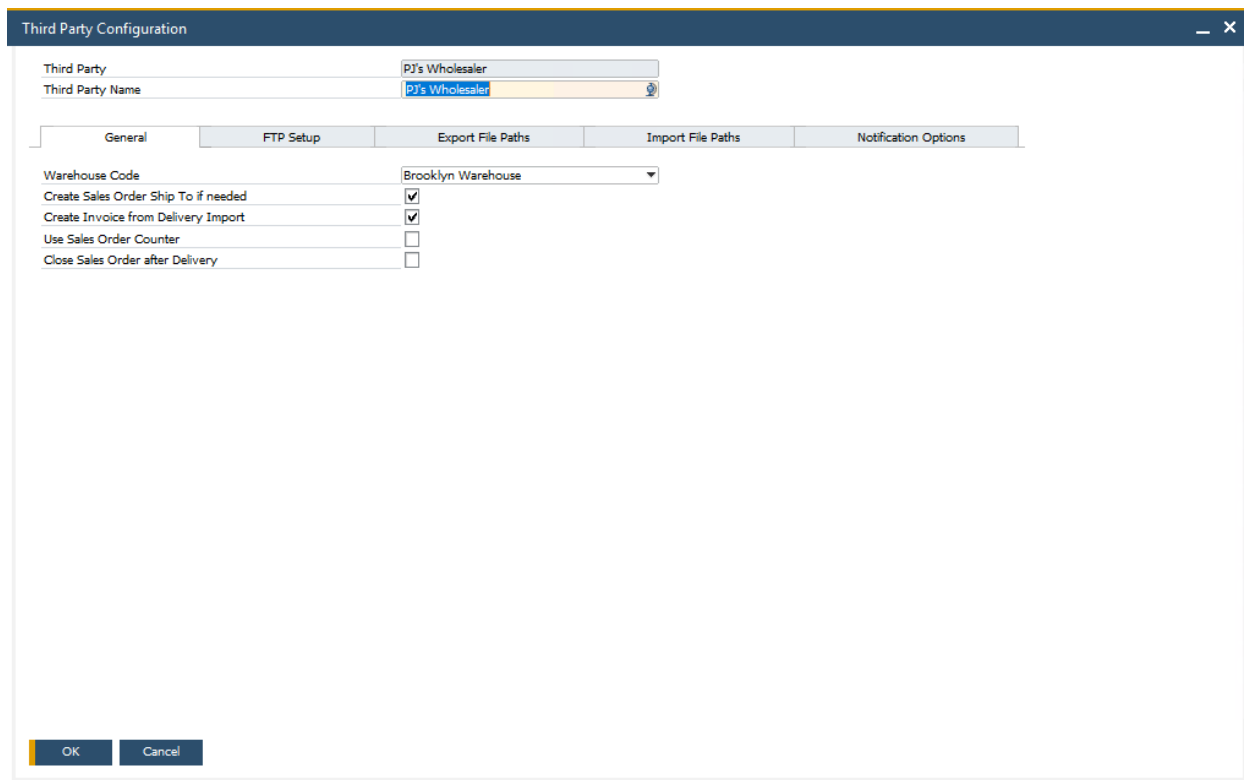
*Administration > Resolv Setup > Resolv 3PL Setup > 3PL Configuration*

The 3PL Configuration screen is used to setup the preferences for a Third Party system. It is “Master Data” like a Business Partner, in that each record relates to a distinct system that you wish to integrate with. To create a new system, you can use the Ctrl + A or press the Add New icon from the Toolbar.

<i>Third Party</i>	This field requires a unique alphanumeric code that will be used to identity the third party system.
<i>Third Party Name</i>	This field allows you to enter a descriptive name for the third party system.

The record contains several tabs and sub tabs to help organize the configurations.

## General Tab



Third Party Configuration

Third Party: PJ's Wholesaler

Third Party Name: PJ's Wholesaler

General | FTP Setup | Export File Paths | Import File Paths | Notification Options

Warehouse Code: Brooklyn Warehouse

Create Sales Order Ship To if needed:

Create Invoice from Delivery Import:

Use Sales Order Counter:

Close Sales Order after Delivery:

OK Cancel

### *Warehouse Code*

This field allows for the selection of a warehouse code to be associated with the third party system. It is common when the business process incorporates a 3PL warehouse to have an SAP Business One warehouse that represents the 3PL. Only warehouses that have the 3PL Warehouse check box activated will be available to be selected.

### *Create Sales Order Ship To if needed*

This checkbox enables a feature in which during the import of a Sales Order if a Ship To address does not already exist for the Ship To code provided in the data, a new Ship To record will be created automatically on the Business Partner Master and selected on the document.

### *Create Invoice from Delivery Import*

This check box indicates that after a delivery is imported from the third party system, SAP Business

One should generate an AR Invoice with the new Delivery as a base document automatically.

*Use Sales Order Counter*

If this box is checked, when the SO is exported the first XML file will have a suffix of \_001. Once that SO is delivered, the counter is updated on the Sales Order to 2, so the next XML export file of the SO will have a suffix of \_002.

*Close Sales Order after Delivery*

This check box enables a feature in which the Sales Order is automatically closed after a Delivery is imported against if from 3PL, even if the delivered quantity is less than the open quantity on the Sales Order. This is used when the business process does not permit backorders to ship.



## FTP Setup Tab

Third Party Configuration

Third Party: PJ's Wholesaler  
 Third Party Name: PJ's Wholesaler

General | **FTP Setup** | Export File Paths | Import File Paths | Notification Options

Inbound Folder: \\hanatestwin93\3PLPath\FTP\Inbound  
 Inbound Archive Folder: \\hanatestwin93\3PLPath\FTP\Inbound Archive  
 Outbound Folder: \\hanatestwin93\3PLPath\FTP\Outbound  
 Outbound Archive Folder: \\hanatestwin93\3PLPath\FTP\Outbound Archive  
 FTP Server or IP Address: ftp://ftp.achievetts.com/  
 FTP Login Code or Name: iwalsch  
 FTP Password: \*\*\*\*  
 FTP Inbound Folder: iwalsch/HANATESTWIN93\_3PL\3PL\OutToWarehouse/  
 FTP Outbound Folder: iwalsch/HANATESTWIN93\_3PL\3PL\InFromWarehouse/

OK Cancel Test FTP

### *Inbound Folder*

This field specifies the location that the XML files will be copied to when downloaded from the FTP site of the Third Party.

### *Inbound Archive Folder*

This folder specifies the location that the XML files will be copied to after the processor has evaluated the document types and organized copies into the individual document locations.

When the FTP download completes, the Document Type XML Tag and Document Type Value of each file in the Inbound folder is evaluated. The result is then used to determine a match to a 3PL Import Configuration.

The Document Type on the matching Import Configuration is used to determine which path location should get a copy of the file. If this is successful, a copy is also added into the Inbound Archive Folder.

**Note:** *This creates a duplication of the file and these files can be removed if desired as part of a maintenance plan.*

<i>Outbound Folder</i>	This field specifies the location that exported XML files will be placed on export for the Third Party FTP transfer.
<i>Outbound Archive Folder</i>	This field specifies the location that the exported XML files should be moved to after they are transferred to the Third Party via FTP.
<i>FTP Server or IP Address</i>	This field contain the DNS name or IP address of the FTP server to connect with.
<i>FTP Login Code or Name</i>	This field contains the User ID that will be used to sign into the FTP site (if required).
<i>FTP Password</i>	This field contains the password to be used with the User ID when connecting to the FTP site.
<i>FTP Inbound Folder</i>	This field contains the location on the remote server (ftp site) where files should be uploaded.
<i>FTP Outbound Folder</i>	This field contains the location on the remote server (ftp site) where files should be downloaded.

## Export File Paths Tab

This tab contains the file locations where the system will write XML files to when using XML integration for the Third Party.

There are different sub-tabs for the different types of data being exchanged with the 3PL. The sub tabs consist of:

- Master Data
- Inventory
- Purchasing A/P
- Sales A/R

The screenshot shows the 'Third Party Configuration' dialog box. The 'Third Party' field is set to 'PJ's Wholesaler'. The 'Export File Paths' tab is active, and the 'Master Data' sub-tab is selected. The following table lists the export paths for various data types:

Category	Export File Path
BP Master Process	\\hanatestwin93\3PLPath\Export\BP Master\Process
BP Master Archive	\\hanatestwin93\3PLPath\Export\BP Master\Archive
BP Master Error	\\hanatestwin93\3PLPath\Export\BP Master>Error
Item Master Process	\\hanatestwin93\3PLPath\Export\Item Master\Process
Item Master Archive	\\hanatestwin93\3PLPath\Export\Item Master\Archive
Item Master Error	\\hanatestwin93\3PLPath\Export\Item Master>Error
Stock Transfer Process	\\hanatestwin93\3PLPath\Export\Inventory Stock Transfers\Process
Stock Transfer Archive	\\hanatestwin93\3PLPath\Export\Inventory Stock Transfers\Archive
Stock Transfer Error	\\hanatestwin93\3PLPath\Export\Inventory Stock Transfers>Error

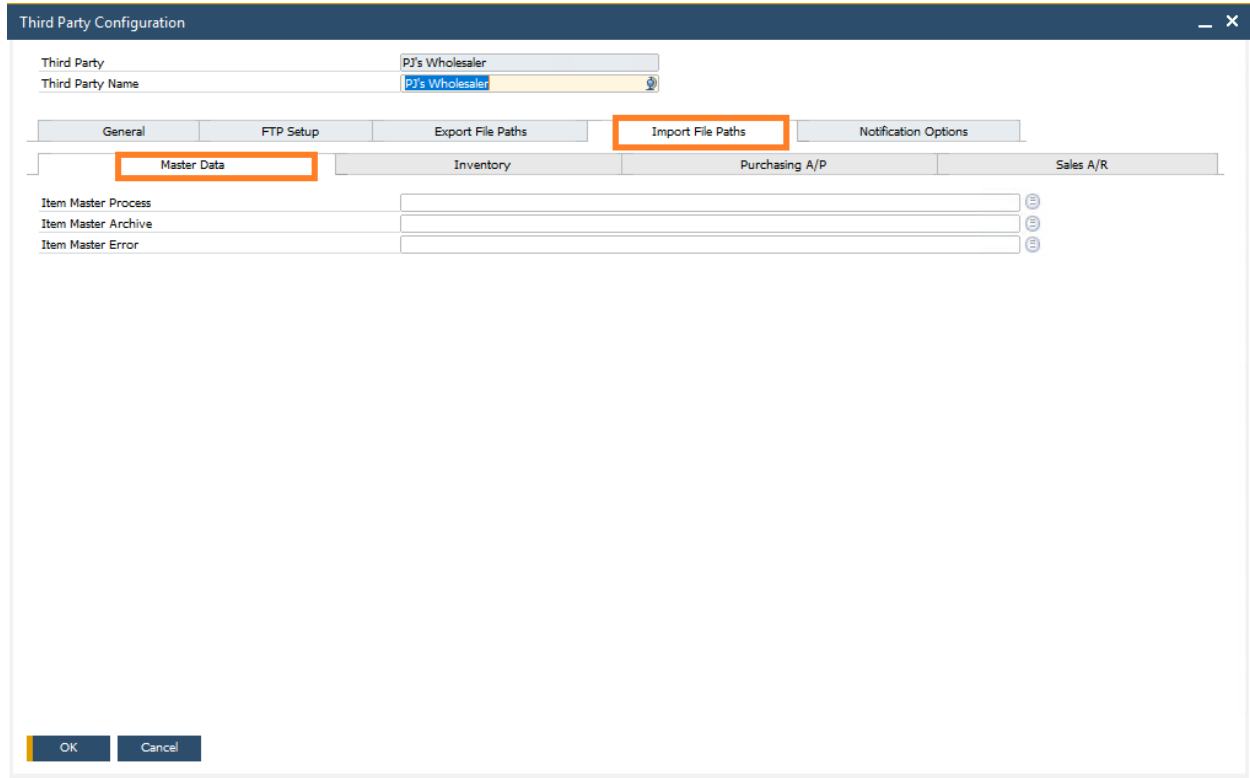
### *BP Master Process*

This field identifies the location the system will use to export the XML files when the Document Type is 2.

<i>BP Master Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is 2.
<i>BP Master Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is 2.
<i>Item Master Process</i>	This field identifies the location the system will use to export the XML files when the Document Type is 4.
<i>Item Master Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is 4.
<i>Item Master Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is 4.
<i>Stock Transfer Process</i>	This field identifies the location the system will use to export the XML files when the Document Type is WTR.  <b>Note:</b> <i>This is an actual Inventory Transfer that has already been created in SAP Business One.</i>
<i>Stock Transfer Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is WTR.
<i>Stock Transfer Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is WTR.

## Import File Paths Tab

This tab contains the file locations where the system will read XML files from when using XML integration for the Third Party.



### *Item Master Process*

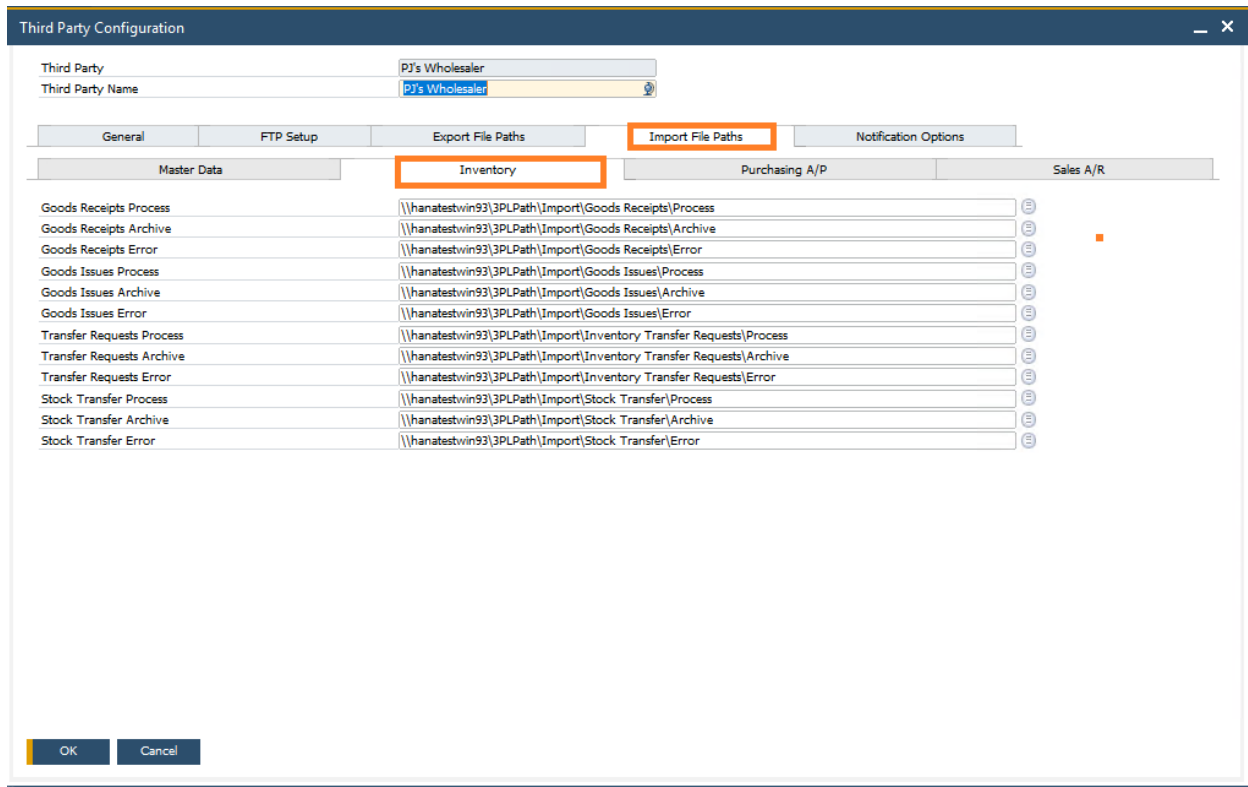
This field identifies the location the system will use to import the XML files when the Document Type is 4.

### *Item Master Archive*

This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is 4.

### *Item Master Error*

This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is 4.



*Goods Receipts Process*

This field identifies the location the system will use to look for XML files to import when the Document Type is GRI.

**Note:** This creates an Inventory Goods Receipt that is not linked to an AP transaction.

*Goods Receipts Archive*

This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is GRI.

*Goods Receipts Error*

This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is GRI.

*Goods Issues Process*

This field identifies the location the system will use to look for XML files to import when the Document Type is GRE.

**Note:** This creates an Inventory Goods Issue that is not linked to an AP or AR transaction.

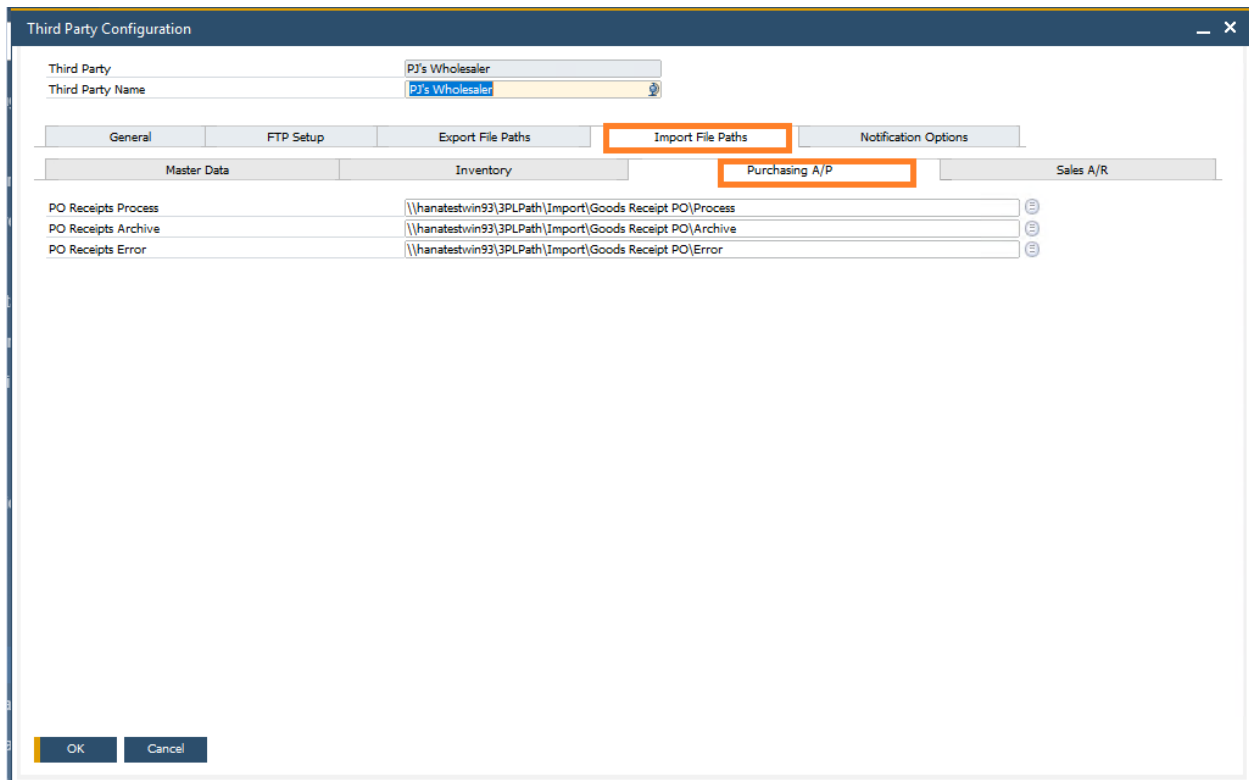
<i>Goods Issues Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is GRE.
<i>Goods Issues Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is GRE.
<i>Transfer Requests Process</i>	<p>This field identifies the location the system will use to look for XML files to import when the Document Type is ITR.</p> <p><b>Note:</b> This creates an Inventory Transfer Request document which does not affect an Items On Hand Inventory or Bin Location Quantity.</p>
<i>Transfer Requests Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is ITR.
<i>Transfer Requests Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is ITR.
<i>Stock Transfer Process</i>	<p>This field identifies the location the system will use to look for XML files to import when the Document Type is WTR.</p> <p><b>Note:</b> This creates an Inventory Transfer document which does affect an Items On Hand Inventory and / or Bin Location Quantity. This document can be either stand alone or utilize an Inventory Transfer Request as a base document.</p>

*Stock Transfer Archive*

This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is WTR.

*Stock Transfer Error*

This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is WTR.



*PO Receipts Process*

This field identifies the location the system will use to look for XML files to import when the Document Type is DLN.

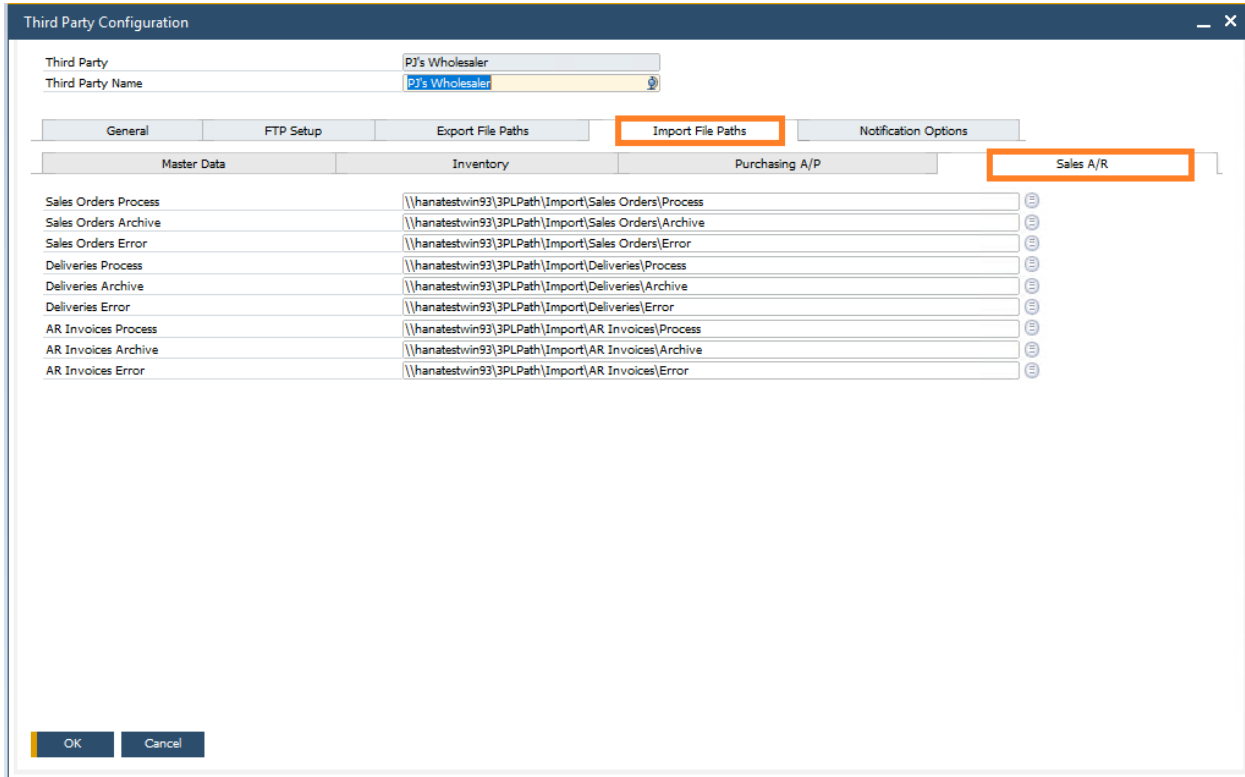
*PO Receipts Archive*

This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is DLN.



*PO Receipts Error*

This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is DLN.



*Sales Orders Process*

This field identifies the location the system will use to look for XML files to import when the Document Type is SOE.

*Sales Orders Archive*

This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is SOE.

*Sales Orders Error*

This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is SOE.

*Deliveries Process*

This field identifies the location the system will use to look for XML files to import when the Document Type is DLN.

<i>Deliveries Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is DLN.
<i>Deliveries Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is DLN.
<i>AR Invoices Process</i>	This field identifies the location the system will use to look for XML files to import when the Document Type is INV.
<i>AR Invoices Archive</i>	This field identifies the location the system will move the XML files to if the processing is successful when the Document Type is INV.
<i>AR Invoices Error</i>	This field identifies the location the system will move the XML files to if the processing returns an error and is not successful when the Document Type is INV.

## Notification Tab

The Emailing tab provides the connection with the email system to be used by **Resolv 3PL**.

**Email Sending Method** Select “SAP”, “SMTP” or “Outlook”:

- **SAP** - Uses the SBO Mailer to send email
- **SMTP** - Uses an SMTP server, such as a Microsoft Exchange server.  
Note, if you are using a subscription email service such as Office 365, the email authorization may be required at the user level. See the appendix at the end of this documentation for further details
- **Outlook** - Uses MS Outlook. Note, 3PL Emailing must be set as Client and all users must use Outlook to deliver. If users are running their SAP client as administrator, they will need to run Outlook as administrator as well to avoid errors. They may also need to adjust their Outlook Trust Center settings if they are experiencing issues.

<b>SMTP Server Name or IP Address</b>	If using SMTP, enter the server address.
<b>SMTP Server Login User</b>	If using SMTP, enter the login name.
<b>SMTP Login Password</b>	If using SMTP, enter the password.
<b>SMTP Port (25 is standard)</b>	If using SMTP, enter the TCP port provided by your email administrator.
<b>SMTP Encryption Method</b>	If using SMTP, select the Encryption Method provided by your email administrator.
<b>Send Outlook Emails as Draft Only</b>	If you are using Outlook, check this option if you want emails to be saved as Drafts instead of just being delivered right away. Users must then approve each draft and send manually through their Outlook program.
<b>Use Outlook Email Signatures</b>	If you are using Outlook check this if you want emails to use the default email signature of the client Outlook profile.
<b>Default Email Reply Address</b>	Enter an email address to be used as a reply to email address. If using Office365, it is recommended that his matches the above Login User.

**Inbound Import Failure** This field identifies if a notification should be made if an Import transaction cannot be added into SAP Business One.

The message will include the response from SAP Business One’s DI API which can give insight as to what caused the error. This can be a result of a configuration error or omission in the setup of the Import Configuration, or invalid data. Common examples of invalid data include date outside range, or inactive / missing item or business partner master records.

This field offers a radio button selection allowing the user to choose either the “executing user” or a “specified user”.

The executing user is the user in SAP Business One that is signed in and processing the import, or the user associated with the Processor if automated.

When the specified user option is selected, the user to be notified is chosen from a dropdown list. The default value is Function Not Used, indicating that no user will be notified.

- Int.* If this field has a checkbox selected, then the notification for the Import Failure will be sent to the SAP Business One inbox (internal SAP messaging) for the executing or specified user configured (if one).
  - Email* If this field has a checkbox selected, then the notification will be emailed for the Import Failure and will be sent via the SBO Mailer to the email address of the executing or specified user configured (if one).
- Note:** *It is possible to check both Int. and Email, in which case both methods will be utilized.*

- Outbound Transmission Error* This field identifies if a notification should be made if an Export transaction cannot be sent from SAP Business One.
- The message will include the response from SAP Business One’s DI API which can give insight as to what caused the error. This can be a result of a configuration error or omission in the setup of the Export Configuration, or system events, such as out of disk space, insufficient permissions, communication issues, etc.

This field offers a radio button selection allowing the user to choose either the “executing user” or a “specified user”.

The executing user is the user in SAP Business One that is signed in and processing the export, or the user associated with the Processor if automated. When the specified user option is selected, the user to be notified is chosen from a dropdown list. The default value is Function Not Used, indicating that no user will be notified.

**Note:** *The value of this field does not need to be the same as the Inbound setting.*

*Int.* If this field has a checkbox selected, then the notification for the Import Failure will be sent to the SAP Business One inbox (internal SAP messaging) for the executing or specified user configured (if one).

*Email* If this field has a checkbox selected, then the notification will be emailed for the Import Failure and will be sent via the SBO Mailer to the email address of the executing or specified user configured (if one).

**Note:** *It is possible to check both Int. and Email, in which case both methods will be utilized.*

### 3PL Import Configuration

Administration > Resolv Setup > Resolv 3PL Setup > 3PL Import Configuration

The 3PL Import Configuration screen is used to setup the preferences for a Third Party system. It is “Master Data” like a Business Partner, in that each record relates to a distinct document and system combination that you wish to have an inbound integration with (data created in SAP Business One). To create a new system, you can use the Ctrl + A or press the Add New icon from the Toolbar.

The record contains a header area and a rows area to help organize the configuration

#	HANA Function/Formula	XML Tag	Static Value	SAP Object Name
1		BP		Header.CardCode
2		Street		Header_Address.ShipToStreet
3		City		Header_Address.ShipToCity
4		State		Header_Address.ShipToState
5		Zip		Header_Address.ShipToZipCode
6		ItemNum		Line.ItemCode
7		Qty		Line.Quantity
8		Price		Line.Price
9		DelDate		Header.DocDueDate
10		CustPO		Header.NumAtCard

## Header Area

<i>Third Party</i>	This field is used to select the system that will be integrated with based on the Third Party Management Configurations.
<i>Document Type</i>	<p>This field indicates which SAP Business One object will be imported.</p> <p>This also specifies which paths will be used for the import location based on the selected Third Party.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>SOE - Sales Orders</li> <li>DLN – Deliveries</li> <li>INV – AR Invoices</li> <li>GRP – Goods Receipt PO</li> <li>GRI – Goods Receipts</li> <li>GRE – Goods Issues</li> <li>ITR – Inventory Transfer Requests</li> <li>WTR – Stock Transfer</li> <li>4 – Item Master</li> </ul>
<i>Document Type XML Tag</i>	<p>This defines an XML tag to be found in the import file that can be used as an indicator of what type of transaction the file was generated for. An example could be &lt;DocType&gt;.</p> <p>This field when used with the appropriate value in the Document Type Value can ensure that a validation is made when importing the file that the transmitted file is in fact in the correct location to be processed. This is important when two objects have the same structure (such as Goods Issues and Goods Receipts) and an inadvertent mixing the files could result in bad data in SAP Business One.</p>
<i>Document Type Value</i>	This holds the expected value of the Document Type XML Tag for this import record. This will be compared against files that are presented for import. If the third party does not have their own Types, it is



recommended to use the valid value code from the Document Type, such as SOE for Sales Order, but this is not mandatory. The value can be any agreed upon code with the third party system.

*Line Loop XML Tag* This field identifies the XML tag that is a line indicator when a record (i.e., Delivery) will have the ability to have more than one document line.

*Batch Numbers Loop XML Tag* This field identifies the XML tag that is a batch number indicator when a record (i.e., Delivery Line) will have the ability to have more than one batch number for the line and the item is managed by batches.

*Serial Numbers Loop XML Tag* This field identifies the XML tag that is a serial number indicator when a record (i.e., Delivery Line) will have the ability to have more than one serial number for the line and the item is managed by serial numbers.

*Package Header Loop XML Tag* This field identifies the XML tag that is a Package indicator when a record (i.e., Delivery) will have the ability to have one or more packages created in SAP Business One. Note this tag is only necessary if the third party warehouse is sending them in their files, otherwise you do not need it.

*Package Line Loop XML Tag* This field identifies the XML tag that is a Package Line indicator when a record (i.e., Delivery) will have the ability to have packaging, and the contents of the document are to be assigned to the package header(s).

## Rows Area

When importing a document linked to a base document, SAP Business One will automatically copy data from the base line. It is only mandatory to specify enough information to properly identify which the base document and base line, as well as any data that needs to be overwritten (such as quantity). If you specify a value in the mapping, the value from the import will take precedence over the value on the base document.

<i>SQL or Hana Function/Formula</i>	This field allows for SQL to be written to be used in conjunction with the data provided to the export file. This can be used to transform data values, such as in a CASE statement, or to change data from within SAP to values based on requirements provided by the third party. Note, make sure you are using the correct syntax depending on if you are running SAP Business One for SQL or HANA.
<i>XML Tag</i>	This field specifies the XML tag that has been assigned to represent the field that is being imported. Example could be <QTY> for the line Quantity.
<i>Static Value</i>	This field allows for the entry of a value that should be defaulted into the SAP Business One field that is not variable. Examples are a Tax Code if all are Exempt.
<i>SAP Object Name</i>	<p>This field allows you to choose (map) the field being imported to the SAP Business One target field. Note that the field selection is a dropdown selection box, and that the appropriate relationship between the tables has already been programmed in 3PL. All user defined fields (UDF) are automatically made available.</p> <p>The valid values are organized as follows</p> <p><i>Header</i> represents fields on the header of a document, such as Posting Date. Header is always related to the Document Type selected for the import:</p>

*Header\_Address* represents the address fields for the document for both Bill to and Ship To fields.

*Header\_Expenses* represents the Freight or Additional Charges section of the document.

*Line* represents the rows of the marketing document.

*Line\_Batch* represents the fields on the batch selection screen for a line.

*Line\_Serial* represents the fields on the serial number selection screen for a line.

## 3PL Export Configuration

Administration > Resolv Setup > Resolv 3PL Setup > 3PL Export Configuration

The 3PL Export Configuration screen is used to setup the preferences for a Third Party system. It is “Master Data” like a Business Partner, in that each record relates to a distinct document and system combination that you wish to have an outbound integration with (data sent from SAP Business One). To create a new system, you can use the Ctrl + A or press the Add New icon from the Toolbar.

The record contains a header area and a rows area to help organize the configuration.

#	SAP Object Name	HANA Function/Formula	XML Tag	Static Value	Loop Start	Loop End
1			Transaction	Sales Order	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2			TransactionType	Sales Order	<input type="checkbox"/>	<input type="checkbox"/>
3	Header.DocNum		SONumber		<input type="checkbox"/>	<input type="checkbox"/>
4	Header.CardCode		CustNumber		<input type="checkbox"/>	<input type="checkbox"/>
5			LineItem		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Line.LineNum		LineNumber		<input type="checkbox"/>	<input type="checkbox"/>
7	Line.ItemCode		ItemNumber		<input type="checkbox"/>	<input type="checkbox"/>
8	Line.Quantity		OrderQty		<input type="checkbox"/>	<input type="checkbox"/>
9		ROUND("RDR:1".Quantity,0)	OrderQtyRounded		<input type="checkbox"/>	<input type="checkbox"/>
10		TO_VARCHAR(CAST("Quantity" AS DECIMAL(19,2)))	OrderQtyVarChar2		<input type="checkbox"/>	<input type="checkbox"/>
11		TO_VARCHAR(CAST("Quantity" AS DECIMAL(19,0)))	OrderQtyVarChar0		<input type="checkbox"/>	<input type="checkbox"/>
12			LineItem		<input type="checkbox"/>	<input checked="" type="checkbox"/>
13			Transaction		<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Header Area

*Third Party*

This field is used to select the system that will be integrated with based on the Third Party Management Configurations.

<i>Document Type</i>	<p>This field indicates which SAP Business One object will be exported. This also specifies which set of paths will be used for the export location base on the Third Party Management Configuration record for the Third Party selected.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>SOE – Sales Orders</li> <li>DLN - Delivery</li> <li>POE – Purchase Orders</li> <li>APC – AP Credit Memo <ul style="list-style-type: none"> <li>2 – BP Master</li> <li>4 – Item Master</li> </ul> </li> <li>ITR – Inventory Transfer Requests</li> <li>WTR – Inventory Stock Transfer</li> </ul>
<i>Line Loop XML Tag</i>	<p>This field identifies the XML tag that is a line indicator when a record (i.e., Delivery) will have the ability to have more than one document line.</p>
<i>Do Not Export Automatically</i>	<p>This checkbox is used with the 3PL Processor functionality. If the box is checked, then the Processor will ignore this export and it will only be exported when manually selected from in SAP Business One. Note, for Purchase Orders only, if this option is not checked the document is exported immediately after it is added.</p>
<i>Where Clause</i>	<p>This field is used to determine which records will be included or excluded from the data set. Examples would be to only include Business Partners with a certain property value.</p> <p><b>Note:</b> <i>You do not need to put the “Where” in this field; it is already assumed</i></p>
<i>File Name Prefix</i>	<p>This field allows you to specify a prefix that will start the file name for the XML file. Ex XXX_</p>

## Export Objects Rows Tab Area

To create a new row, press the Add Line button. You can create the records in any order required by the third party, provided the use of the “loop” is maintained (see below).

Another consideration in planning the data to be provided to the Third Party should be to include the required “base document” fields if the Third Party will be responding to the document. For example, if a third party warehouse is going to send data back to SAP about a Purchase Order that has been received, you need to export the SAP Business One Line Numbers, such that they can be provided back to SAP during the GRPO import.

### *SAP Object Name*

This field allows you to choose (map) the field being exported from the SAP Business One.

**Note:** *If the file requires static values, you may leave this field blank.*

The field selection is a dropdown selection box, and that the appropriate relationship between the tables has already been programmed in 3PL. All user defined fields (UDF) are automatically made available. The valid values are organized as follows.

Header represents fields on the header of a document, such as Posting Date. Header is always related to the Document Type selected for the import.

*Header\_Address* represents the address fields for the document for both Bill to and Ship To fields.

*Header\_BP* represents the fields from the BP Master Data record associated with the document.

*Line* represents the rows of the marketing document.

*Line\_Item* represents the Item Master Data record associated with the row of the Marketing Document.

*Line\_Warehouse* represents the Item Warehouse record (OITW) associated with the row of the Marketing Document.

*Shipping\_Type* represents the Freight Control Shipping Type record associated with the Marketing Document.

Warehouse represents the Warehouse setup record associated with the row of the Marketing Document.

Freight Control represents the Freight Control Shipping Request document associated with the Marketing Document.

*SQL or Hana  
Function/Formula*

This field allows for SQL to be written to be used in conjunction with the data provided to the export file. This can be used to transform data values, such as in a CASE statement, or to change data from within SAP to values based on requirements provided by the third party. Note, make sure you are using the correct syntax depending on if you are running SAP Business One for SQL or HANA.

For example, if you wanted to get a count of the lines on a Sales Order you could use:

```
(SELECT COUNT("LineNum") FROM "RDR1" WHERE "RDR1"."DocEntry" = "ORDR"."DocEntry")
```

And if you wanted to have the salesperson name instead of salesperson code you could use:

```
(SELECT "T1"."SlpName" FROM "OSLP" AS "T1" WHERE "T1"."SlpCode" = "ORDR"."SlpCode")
```

*XML Tag*

This field specifies the XML tag that has been assigned to represent the field that is being imported. Example could be <QTY> for the line Quantity.

*Static Value*

This field allows for the entry of a value that should be defaulted into the XML file that is not variable. Examples are a Transaction Identifier, or an Account ID from the Third Party.

### *Loop Start*

This field identifies the beginning of a record. It is used to indicate a repeating area. The first Loop Start should represent the Document Header. Subsequent Loops can be created to represent another section of the document, such as the Lines of a document or the Batch Numbers of a line.

This field functions like the open parenthesis “(“ in an Excel formula).

### *Loop End*

This field identifies the end of a record. It is used to indicate the last field in a repeating area. The first Loop End will close the Last Loop Start and subsequent Loop Ends close the Loop Starts until the first Loop Start is reached. There should be an equal number of Loop Ends to Loop Starts.

This field functions like the open parenthesis “)” in an Excel formula.

After completing the mapping, the Test Export button will allow you to generate a test XML file based on the configuration. This can be reviewed and/or sent to the Third Party for acceptance.



### 3PL Service Scheduler

Administration > Resolv Setup > Resolve 3PL Setup > 3PL Service Scheduler

Although the 3PL module contains menu options to allow manual processing for each import and export, it is a common configuration for the process to be completely automated. Utilizing the 3PL Service Scheduler, along with the Resolv Processor (see the **Resolv 10.0 Installation and Setup Guide** to learn how to set the processor up), the system can execute the import and export functions without any user intervention allowing seamless data exchange with the third-party systems.

After giving your schedule a name, you will notice there are 2 tabs; Schedule and Process.

On the Schedule tab choose the appropriate options for how often you would like the processor to run for 3PL. This will dictate to the Resolv Processor when to execute. You should also choose what level of detail you want write out to the processor log. Your choices are All (which shows detail data from the processor run, this is designed mostly for troubleshooting), Schedule and Transactions (which will show entries in the log each time the processor runs whether there are transactions or not) and Transactions Only (which will only show entries in the log when it has something to process).



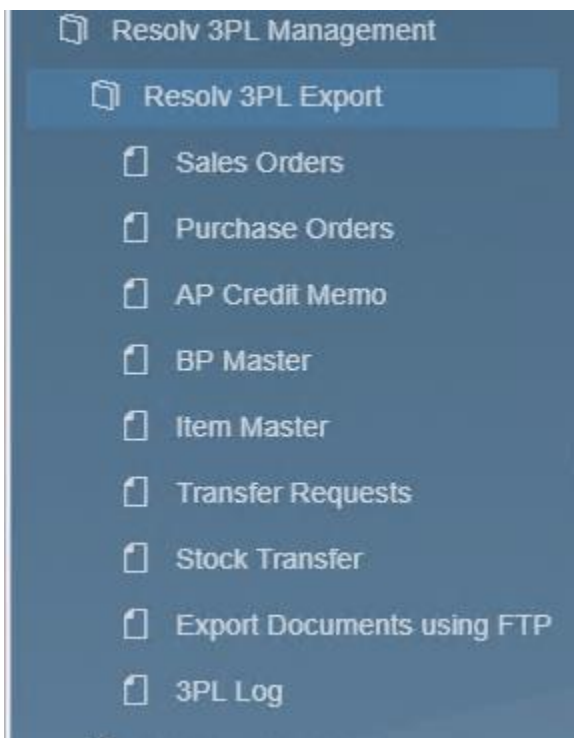
## Resolv 3PL Management

After the setup is completed in the Administration section, the users will work in the Resolv 3PL Management menu, which is found under the Resolv Menu. This menu organizes the Import and Export functionality and is used for manual processing. If automated processing is used, the users do not need to use this section, except for the 3PL Log.

Note that the following menus are dynamic and will only display the SAP Business One objects that have had path files defined in Third Party Configuration. Once a Process path has been defined, the menu option will appear the next time the add-on starts.

### Resolv 3PL Export

*Resolv > Resolv 3PL Management > Resolv 3PL Export*



This menu displays the available export integrations. Each export integration screen is functionally the same other than the records it processes.

## Export Marketing Document

Export Purchase Orders Documents
— ×

Third Party PJ's Wholesaler

Process Directory \\hanatestwin93\3PLPath\Export\Purchase Orders\Process

Archive Directory \\hanatestwin93\3PLPath\Export\Purchase Orders\Archive

Error Directory \\hanatestwin93\3PLPath\Export\Purchase Orders>Error

Document	Vendor	Contact	Name	Ware	Entry Date	Request Date	Document Amount	Date Sent	
162	1436	DIOR	Christian Dior	DIOR SA	01	05/14/2020	05/14/2020	12,069.88	Not Sent
163	1437	DIOR	Christian Dior	DIOR SA	01	05/14/2020	05/14/2020	12,069.88	Not Sent
164	886	EBV		East Branch Vendor	01	10/05/2018	10/05/2018	1.08	Not Sent
165	897	DIOR	Christian Dior	DIOR SA	01	10/01/2018	10/01/2018	869.53	Not Sent
166	898	DIOR	Christian Dior	DIOR SA	01	10/10/2018	10/10/2018	14,215.93	Not Sent
167	916	DIOR	Christian Dior	DIOR SA	01	10/22/2018	10/22/2018	19,395.69	Not Sent
168	922	001001		THE KIPLINGER LETTER	01	11/05/2018	11/05/2018	7.10	Not Sent
169	923	V1010	Sahil	We Got What You Need Inc.	01	11/05/2018	11/05/2018	8,327.55	Not Sent
170	945	Ferrara	Giorgio	Ferrara Foods	01	01/04/2019	01/04/2019	430.84	Not Sent
171	948	DIOR	Christian Dior	DIOR SA	01	01/11/2019	01/11/2019	42.22	Not Sent
172	952	DIOR	Christian Dior	DIOR SA	01	01/15/2019	01/15/2019	3,158.19	Not Sent
173	956	DIOR	Christian Dior	DIOR SA	01	01/23/2019	01/26/2019	6,113.42	Not Sent
174	957	DIOR	Christian Dior	DIOR SA	01	01/23/2019	01/26/2019	6,113.42	Not Sent
175	958	L10002	Vince Wilfork	Werner Richter	01	01/23/2019	02/16/2019	162.38	Not Sent
176	959	DIOR	Christian Dior	DIOR SA	01	01/23/2019	01/26/2019	6,113.42	Not Sent
177	966	001001		THE KIPLINGER LETTER	01	01/29/2019	01/29/2019	6,113.42	Not Sent
178	972	001001		THE KIPLINGER LETTER	01	02/01/2019	02/01/2019	0.00	Not Sent
179	983	V00011	Thomas Shelby	Shelby Company Limited	01	02/18/2019	03/18/2019	5,683.13	Not Sent
180	985	001011		E-Z INDUSTRIES, INC.	01	02/19/2019	02/19/2019	5,683.13	Not Sent
181	987	V70000	Sarah Kierl	SMD Technologies	01	02/22/2019	03/18/2019	676.56	Not Sent
182	989	001009		NEW YORK PRESBYTERIAN FUND, INC	01	02/22/2019	02/22/2019	5,683.13	Not Sent

On the Export Marketing Document screens there is a header section and rows section. The rows section is a read only display and contains the result set of the documents to be sent.

### Header Area

#### *Third Party*

This field allows the selection of a Third Party to export the document to. Upon selecting the Third Party, the Path locations will be populated (read only).

#### *Process Directory*

This field displays the path location where the XML files will be created.

#### *Archive Directory*

This field displays the path location where the XML files will be archived after processing.

#### *Error Directory*

This field display the path location where XML files will be moved if an error occurs during processing.

## Rows Area

- To display the record after updating the Third Party, press the Search button.
- To select all records displayed for export, press the Select All. Individual lines can also be selected or deselected by holding the Ctrl key and clicking on the row.

<i>Document</i>	This field displays the document number for the line. The Drill in arrow opens the SAP document for review.
<i>Vendor</i>	This field displays the Card Code field for the Business Partner on the document. The drill in arrow opens the BP Master Data record.
<i>Contact</i>	This field displays the contact selected on the document.
<i>Name</i>	This field displays the Business Partner name from the document.
<i>Ware</i>	This displays the warehouse code on the document.
<i>Entry Date</i>	This displays the Document Date.
<i>Request Date</i>	This displays the Request Date.
<i>Document Amount</i>	This displays the Document Total.
<i>Date Sent</i>	This displays the Date Sent for the 3PL UDF.

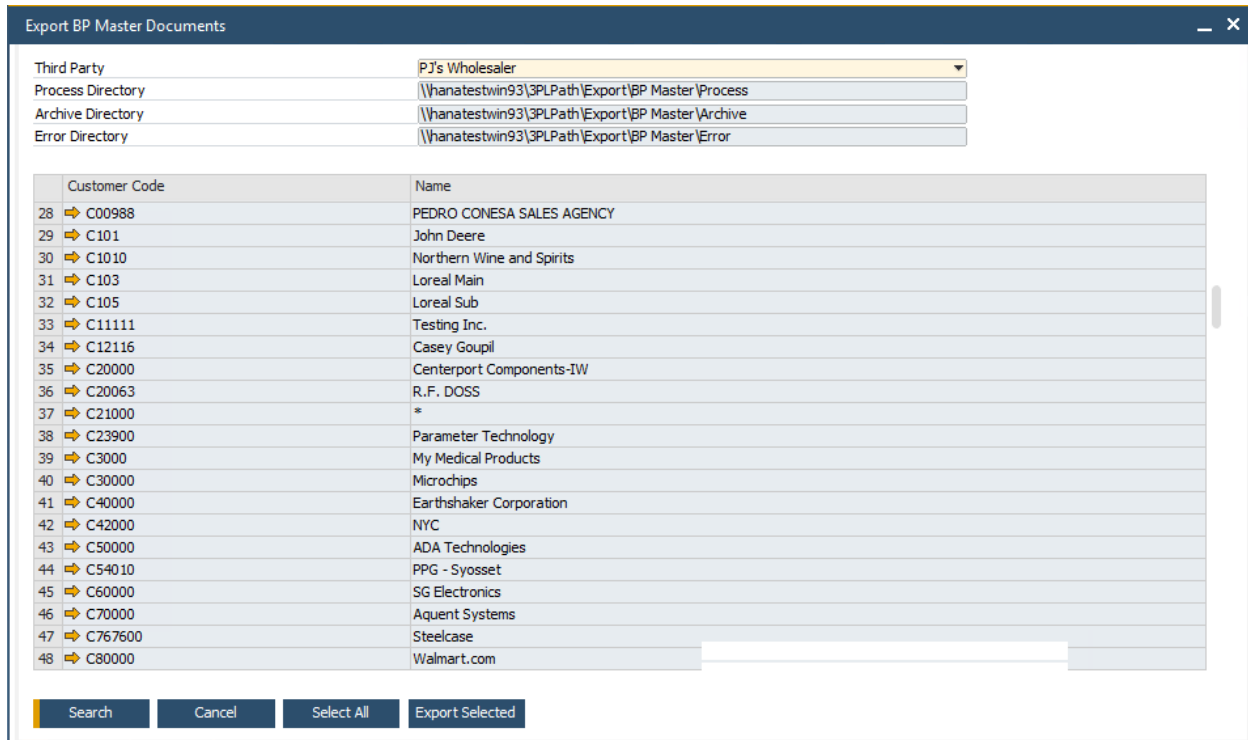
After selecting the desired records, press the Export Selected button.

Once a document has been exported, there are three UDFs on that document that will be updated to reflect that the 3PL process has occurred; 3PL Process Date, 3PL Process Time, and File Sent.

Created by 3PL	No
3PL Process Date	05/26/2020
3PL Process Time	5:04PM
3PL File Sent	Yes
Order Count	
3PL Import File Name	
EDI Process Time	
Shipping Profile	
Resolv Doc Num	
Status	
DocTypeDocentry	

These fields will provide data to users to let them know when the 3PL file was exported. It also is where you need to go if you want to try resending a document through 3PL. To do that, you will need to blank out the date and time, and change the file sent to No. That way, 3PL will know that it needs to be exported again.

## Export BP Master Documents



The header functions, buttons and row selection features are the same as the Marketing Document Export.

*Customer Code*

This displays the Customer Card Code. The Drill in arrow opens the BP Master data.

*Name*

This displays the Customer Name.

## Export Item Master Document

Export Item Master Documents
— ×

Third Party	PJ's Wholesaler
Process Directory	\\hanatestwin93\3PLPath\Export\Item Master\Process
Archive Directory	\\hanatestwin93\3PLPath\Export\Item Master\Archive
Error Directory	\\hanatestwin93\3PLPath\Export\Item Master\Error

	Item Code	Description
30	08706B	TEST Production Purchase Item
31	088021	088021
32	099022	099022
33	119-4151	TEST ITEM
34	137-8447	ES REEL 7IN FWY (22) 11 BLADE FD(FSR)
35	1501-B4612	Brand X - Case 4/6/12 Bottles
36	1501-C12/12	Brand X - Case 12/12 Cans
37	1501-C2412	Brand X - Case 24/12 Cans
38	1501-K12	Brand X - 1/2 BBL Kegs
39	1501-K16	Brand X - 1/6 BBL Kegs
40	15100001	Socks (pair) Black S
41	160.1611	Plexi Glass Cube
42	170.1612	Plexi Glass Cube
43	170.1613	Plexi Glass Cube
44	170.1614	Plexi Glass Cube
45	170.1615	Plexi Glass Cube
46	18200-126	1 5/8" X 10' 6" STRU POSTS
47	18200-144	1 5/8" X 12" STRU POSTS
48	18200-288	1 5/8" X 24" STRU POSTS
49	194.3601	Vacuum Pump Oil HE100
50	197.3601	Vacuum Pump Oil HE100

Search
Cancel
Select All
Export Selected

The header functions, buttons and row selection features are the same as the Marketing Document Export.

*Item Code*

This displays the Item Code. You can drill into the item by choosing the arrow.

*Description*

Displays the Item Description.



## 3PL Export Log

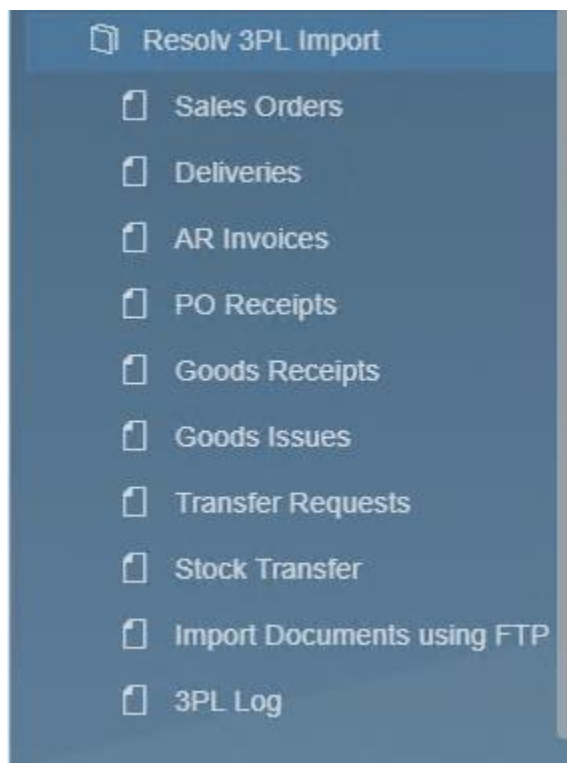
Third Party	Date	Time	Document Type	SAP Document	Log Message	FileName	
1	PJ's Wholesaler	02/28/2020	06:00:PM	SOE	2761	Starting Export.	SOE_2761.xml
2	PJ's Wholesaler	03/02/2020	06:00:PM	SOE	2762	Starting Export.	SOE_2762.xml
3	PJ's Wholesaler	03/09/2020	06:10:PM	SOE	2770	Starting Export.	SOE_2770.xml
4	PJ's Wholesaler	03/09/2020	06:10:PM	SOE	2692	Starting Export.	SOE_2692.xml
5	PJ's Wholesaler	03/10/2020	06:00:PM	SOE	2773	Starting Export.	SOE_2773.xml
6	PJ's Wholesaler	03/11/2020	06:00:PM	SOE	407	Starting Export.	SOE_407.xml
7	PJ's Wholesaler	03/19/2020	06:00:PM	SOE	2779	Starting Export.	SOE_2779.xml
8	PJ's Wholesaler	03/19/2020	08:00:PM	SOE	2779	Starting Export.	SOE_2779.xml
9	PJ's Wholesaler	03/20/2020	06:01:PM	SOE	2782	Starting Export.	SOE_2782.xml
10	PJ's Wholesaler	03/25/2020	06:00:PM	SOE	2785	Starting Export.	SOE_2785.xml
11	PJ's Wholesaler	03/31/2020	08:00:PM	SOE	2788	Starting Export.	SOE_2788.xml
12	PJ's Wholesaler	03/31/2020	08:00:PM	SOE	2789	Starting Export.	SOE_2789.xml
13	PJ's Wholesaler	04/01/2020	06:01:PM	SOE	2789	Starting Export.	SOE_2789.xml
14	PJ's Wholesaler	04/01/2020	06:01:PM	SOE	2788	Starting Export.	SOE_2788.xml
15	PJ's Wholesaler	04/01/2020	06:01:PM	SOE	2790	Starting Export.	SOE_2790.xml
16	PJ's Wholesaler	04/02/2020	06:00:PM	SOE	2792	Starting Export.	SOE_2792.xml
17	PJ's Wholesaler	04/02/2020	06:00:PM	SOE	2793	Starting Export.	SOE_2793.xml
18	PJ's Wholesaler	04/02/2020	06:00:PM	SOE	2794	Starting Export.	SOE_2794.xml
19	PJ's Wholesaler	04/02/2020	06:00:PM	SOE	2795	Starting Export.	SOE_2795.xml
20	PJ's Wholesaler	04/02/2020	06:00:PM	SOE	2797	Starting Export.	SOE_2797.xml
21	PJ's Wholesaler	04/02/2020	08:00:PM	SOE	2795	Starting Export.	SOE_2795.xml
22	PJ's Wholesaler	04/02/2020	08:00:PM	SOE	2794	Starting Export.	SOE_2794.xml
23	PJ's Wholesaler	04/02/2020	08:00:PM	SOE	2793	Starting Export.	SOE_2793.xml
24	PJ's Wholesaler	04/02/2020	08:00:PM	SOE	2792	Starting Export.	SOE_2792.xml

This screen will display the log of the export activity from 3PL. If there are errors, they are displayed here. The contents of the Log are read only, but the history can be cleared with the Delete button.

<i>Third Party</i>	Displays the Third Party export that was selected.
<i>Date</i>	Displays the date of the export.
<i>Time</i>	Displays the time of day the export was run.
<i>Document Type</i>	Displays the document type defined on the 3PL Export Configurations.
<i>SAP Document</i>	Displays the SAP Document that the export was running against.
<i>Log Message</i>	Displays message related to the export.
<i>FileName</i>	Displays the file name of the XML file being created.

## Resolv 3PL Import

*Resolv > Resolv 3PL Management > Resolv 3PL Import*



This menu displays the available import integrations. Each import integration screen is functionally the same other than the records it processes.

## ***Import Marketing Document***

On the Import Marketing Document screens there is a header section and rows section. The rows section is a read only display and contains the result set of the files to be imported.

### **Header Area**

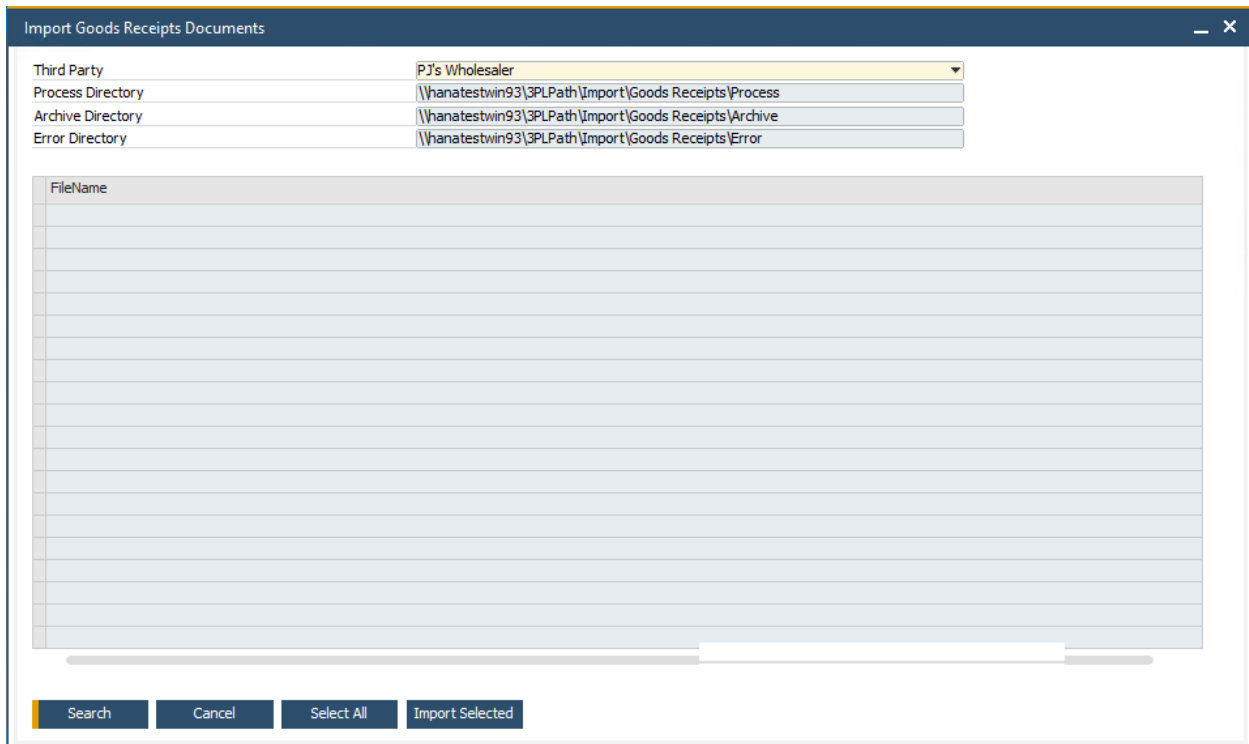
<i>Third Party</i>	Allows the selection of a Third Party to check for XML files to import. Upon selecting the Third Party, the Path locations will be populated (read only).
<i>Process Directory</i>	Displays the path location where the XML files will be created.
<i>Archive Directory</i>	Displays the path location where the XML files will be archived after processing.
<i>Error Directory</i>	Displays the path location where XML files will be moved if an error occurs during processing.

## Rows Area

To display the record after updating the Third Party, press the Search button.  
 To select all records displayed for export, press the Select All. Individual lines can also be selected or deselected by holding the Ctrl key and clicking on the row.

### *FileName*

This field displays the file name for the XML file represented by the line. The Drill in arrow opens the XML document for review using the default program setup with the XML file association from Windows.



When the desired records are selected, press the Import Selected button to begin the import. If there are any errors, they will be displayed in a system message dialog box.



## 3PL Import Log

3PL Import Log						
Starting Date		04/01/2016				
Ending Date		05/02/2016				
	Third Party	Date	Time	Document Type	SAP Document	Log Message
1	PJ's Wholesaler	04/22/2016	01:13:PM	DLN		Starting Import of \\\hanatestwin92\3PLPath\Import\Deliveries\Process\DEL_700.xml.
2	PJ's Wholesaler	04/22/2016	01:13:PM	DLN		Import of DEL_700.xml has failed.
3	PJ's Wholesaler	04/22/2016	01:13:PM	DLN		The basis Sales Order row was set but no basis document has been found. Please correct XML file to sp
4	PJ's Wholesaler	04/22/2016	01:16:PM	DLN		Starting Import of \\\hanatestwin92\3PLPath\Import\Deliveries\Process\DEL_700.xml.
5	PJ's Wholesaler	04/22/2016	01:16:PM	DLN	381	Created Delivery: 381 from Sales Order: 481
6	PJ's Wholesaler	04/22/2016	01:18:PM	GRE		Starting Import of \\\hanatestwin92\3PLPath\Import\Goods Issues\Process\GI_0010.xml.
7	PJ's Wholesaler	04/22/2016	01:18:PM	GRE	27	Created Goods Issue: 27
8	PJ's Wholesaler	04/22/2016	01:22:PM	GRI		Starting Import of \\\hanatestwin92\3PLPath\Import\Goods Receipts\Process\GR_0001.xml.
9	PJ's Wholesaler	04/22/2016	01:22:PM	GRI		Import of GR_0001.xml has failed.
10	PJ's Wholesaler	04/22/2016	01:22:PM	GRI		Could not find anything to Import.
11	PJ's Wholesaler	04/22/2016	01:24:PM	GRI		Starting Import of \\\hanatestwin92\3PLPath\Import\Goods Receipts\Process\GR_0001.xml.
12	PJ's Wholesaler	04/22/2016	01:24:PM	GRI	205	Created Goods Receipt: 205
13	PJ's Wholesaler	04/22/2016	01:28:PM	GRP		Starting Import of \\\hanatestwin92\3PLPath\Import\Goods Receipt PO\Process\GRPO_500.xml.
14	PJ's Wholesaler	04/22/2016	01:28:PM	GRP	500	Import of GRPO_500.xml has failed.
15	PJ's Wholesaler	04/22/2016	01:28:PM	GRP	500	Can not find Purchase Order 0 for Goods Receipt PO.
16	PJ's Wholesaler	04/22/2016	01:30:PM	GRP		Starting Import of \\\hanatestwin92\3PLPath\Import\Goods Receipt PO\Process\GRPO_500.xml.
17	PJ's Wholesaler	04/22/2016	01:30:PM	GRP		Import of GRPO_500.xml has failed.
18	PJ's Wholesaler	04/22/2016	01:30:PM	GRP		Could not determine Base Document Card Code from BaseEntry: 500.

Buttons: Search, Cancel, Select All, Delete

This screen will display the log of the import activity from 3PL. If there are errors, they are displayed here. The contents of the Log are read only, but the history can be cleared with the Delete button.

### *Third Party*

This column displays the Third Party import that was selected.

### *Date*

This displays the date of the import.

### *Time*

This displays the time of day the import was run.

### *Document Type*

This displays the document type defined on the 3PL Import Configurations.

### *SAP Document*

This displays the SAP Document that the import created.

### *Log Message*

This displays the message describing the event or error.

### *FileName*

This displays the file name of the XML file being created.