

WMI 2013 or Later Configurable Collate Integration with eFORMz

Complete the following instructions to test and configure your WMI Configurable Collates on a Windows system prior to implementation on an iSeries server.

Prerequisites

- A Windows operating system with eFORMz installed
- Authorization on the AS/400 and Windows systems
- WMI Configurable Collate files (user data and reference files)
- XML editor or plain-text editor that supports UTF-8 encoding

Figure 1 displays the WMI Configurable Collate components and their relationship for integration with eFORMz:

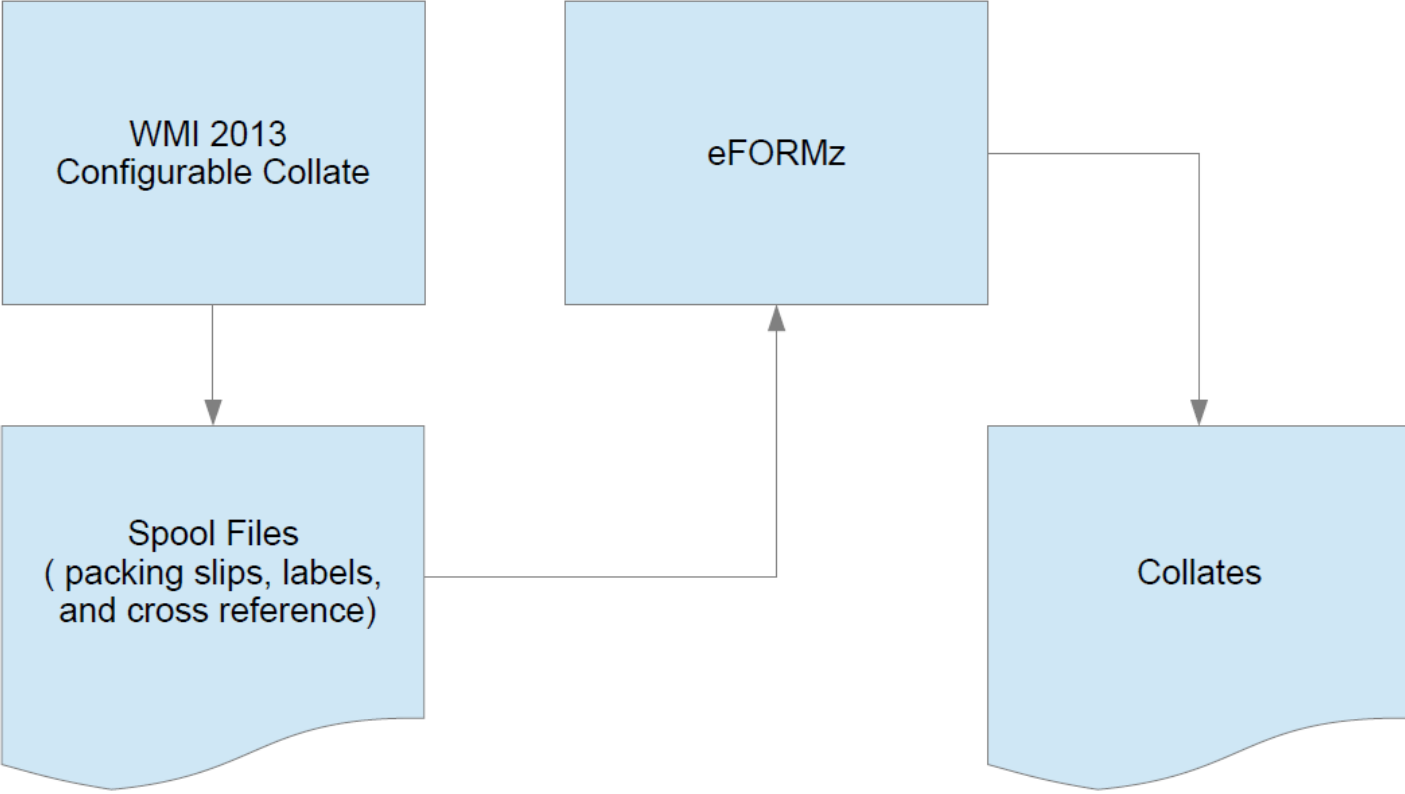


Figure 1. Components of the WMI Configurable Collates.

Download Required Files

1. Start the eFORMz Composer on your Windows system.
2. Click *Host Tools > AS400 > Download a File* to download the WMi configurable collate files from your iSeries system. Download the following two files:
 - User Data Spoolfile (CXXXXXXXXD) containing multiple pages of packing slip or label content, which might include the packing slip, warehouse label, shipping label, or similar data). Save this file with an extension of .scsz to a folder on your Windows system.
 - Reference data file (CXXXXXXXXR). Save this file with an extension of .scsa.

Create an eFORMz Project

After downloading the required files, the next step is to create an eFORMz project so you can customize your WMi collates:

1. Start the eFORMz Composer and create a new project by clicking *File > New Project*.
2. Click *File > Save Project As*. Name the project collate.efz.
3. Right click the project icon in the Composer and click *Add Page > OK*.
4. Right click the new page and click *Add Form > Blank > OK*.
5. In Form Properties, select a page size and orientation. Click *Suppress output when empty*. If you require a custom page size, contact Minisoft for guidance in updating eFORMz_User.xml.
6. Open your .scsa reference file in the eFORMz Composer by right clicking the form *> Display Form and Data > From file >* select the .scsa file *> OK*. You use this file to gather your cross reference types for reference in the eFORMz composite data file (.cdf). The Composer shows the .scsa file like this:

```
C00000001NUSLGPKSLPC1
C00000001NUSLGPKSLPC1
C00000001AUSLGSHLBL01
C00000001PUSLGSHLBLWHS
```

You might have more or fewer lines, depending on the contents of your reference data spoolfile. Each line identifies a component of the collate document, which are contained in the .scsz data file. Minisoft recommends working with a file that contains all components.

Each entry has the format of C#####N, where ##### is a group number and N is a content type. The group number identifies items that are grouped together, such as packing slips and shipping labels. Type identifies the content type, such as packing slips and shipping labels in each group. In the following example, the group number is red, and the content type is green:

```
C00000001NUSLGPKSLPC1 = Packing Slip Page 1
C00000001NUSLGPKSLPC1 = Packing Slip Page 2
C00000001AUSLGSHLBL01 = Shipping Label
C00000001PUSLGSHLBLWHS = Warehouse Label
```

Create the Composite Data File (CDF)

Use the data in the reference data file (.scsa) to create a composite data file (.cdf) using a XML editor.

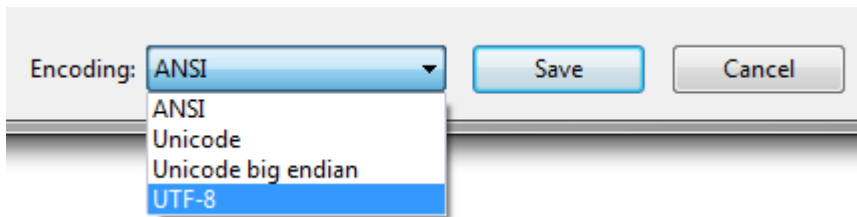
The CDF contains XML components that links the user data spoolfile with the reference spoolfile. The CDF is only for development work and is not used on the iSeries server. The CDF lets the eFORMz Composer emulate the iSeries environment on your Windows system for development.

Your .cdf file should resemble the following sample:

```
<?xml version="1.0" encoding="UTF-8"?>
<CompositeData>
<Data FileName="C:\Minisoft\eFORMz_6\projects\Collate\Data.scsz" />
<Reference FileName=" C:\Minisoft\eFORMz_6\projects\Collate\Data.scsa" />
<Configuration GroupIdStart="1" GroupIdLength="8">
<Component Type="data" Name="" MatchText="C???????N*" Format="SCSZ" />
<Component Type="secondary" Name="ShippingLabel" MatchText="C???????A*" Format="SCSZ" />
<Component Type="secondary" Name="WarehouseLabel" MatchText="C???????P*" Format="SCSZ" />
<Variable Name="ProfileID" Start="10" Length="4" />
<Variable Name="LabelFormat" Start="14" Length="10" />
<Variable Name="FormatType" Start="9" Length="1" />
</Configuration>
</CompositeData>
```

Complete the following steps to create your CDF.

1. Copy the CDF sample from this section.
2. Open an XML editor and paste the CDF sample.
3. Save the file as Data.cdf. The file must be encoded as UTF-8. The CDF begins with a standard XML header that includes the encoding type. Changing the encoding in the header does not change the encoding of the document. You can specify the encoding type at the bottom of the Save As window in Notepad:



4. Modify tag attributes and add tags as needed to match your data. Table 1 shows the tags and their attributes that are used in the sample CDF file.

Table 1. CDF Tags and Attributes

Tag	Attribute	Description
Data	FileName	Specifies the path and name of the .scsz file (User Data File).
Reference	FileName	Specifies the path and name of the .scsa file (User Reference File).
Configuration	GroupIdStart	Names the starting position (0 based character positioning) of the group number that groups different content, such as packing slips and shipping labels, together.
Configuration	GroupIdLength	Number of characters in the group number.

Component	Type	Identifies whether the component in the Name attribute is data (main component) or secondary. A value of <i>data</i> indicates the component is the main reference to the packing slip. A value of <i>secondary</i> indicates a component of the packing slip (shipping label, warehouse label, package barcode label, etc.). The component is identified in the Name attribute.																																		
Component	Name	Descriptor name specifying the component type if Type = "secondary".																																		
Component	MatchText	The ID number of the group. Use a question mark (?) to represent any single character. Use an asterisk (*) to represent any number of characters. For example, C???????N* represents all packing slip composite files. The letter in the tenth position is the format type. Default format types are listed here: <table border="0"> <thead> <tr> <th>Letter</th> <th>Format type</th> </tr> </thead> <tbody> <tr><td>A</td><td>Shipping label</td></tr> <tr><td>B</td><td>COD label</td></tr> <tr><td>C</td><td>Address label</td></tr> <tr><td>D</td><td>Oversized label</td></tr> <tr><td>E</td><td>Consignee label</td></tr> <tr><td>F</td><td>Collect label</td></tr> <tr><td>G</td><td>Returns label</td></tr> <tr><td>H</td><td>Saturday delivery label</td></tr> <tr><td>I</td><td>Neutral label</td></tr> <tr><td>J</td><td>Signature label</td></tr> <tr><td>K</td><td>Express cheque label</td></tr> <tr><td>L</td><td>Dry ice label</td></tr> <tr><td>M</td><td>Prepack label</td></tr> <tr><td>N</td><td>Packing slip</td></tr> <tr><td>O</td><td>Packing slip</td></tr> <tr><td>P</td><td>Custom format</td></tr> </tbody> </table>	Letter	Format type	A	Shipping label	B	COD label	C	Address label	D	Oversized label	E	Consignee label	F	Collect label	G	Returns label	H	Saturday delivery label	I	Neutral label	J	Signature label	K	Express cheque label	L	Dry ice label	M	Prepack label	N	Packing slip	O	Packing slip	P	Custom format
Letter	Format type																																			
A	Shipping label																																			
B	COD label																																			
C	Address label																																			
D	Oversized label																																			
E	Consignee label																																			
F	Collect label																																			
G	Returns label																																			
H	Saturday delivery label																																			
I	Neutral label																																			
J	Signature label																																			
K	Express cheque label																																			
L	Dry ice label																																			
M	Prepack label																																			
N	Packing slip																																			
O	Packing slip																																			
P	Custom format																																			
Component	Format	The encoding format of the data.																																		
Default Variables																																				
Variable	Name	ProfileID LabelFormat FormatType																																		
Variable	Start	The starting character position for the ProfileID, LabelFormat or FormatType.																																		
Variable	Length	The number of characters in the ProfileID, LabelFormat or FormatType.																																		

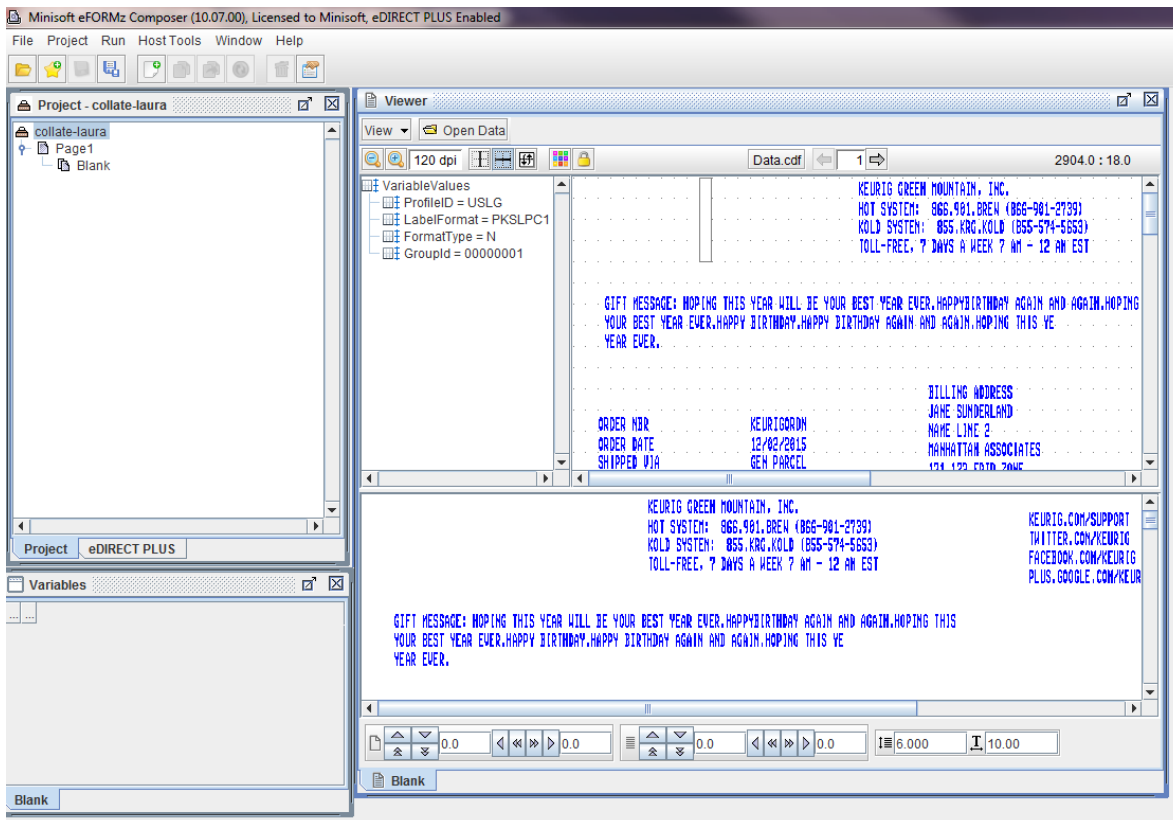
5. Create a component tag for each component type in your .scsa reference file, and then save the file with a .cdf extension.

Table 2. Composition of the Component Code

Item	Default Position	Example values
Carton ID	A letter and 8 digits	C00000000

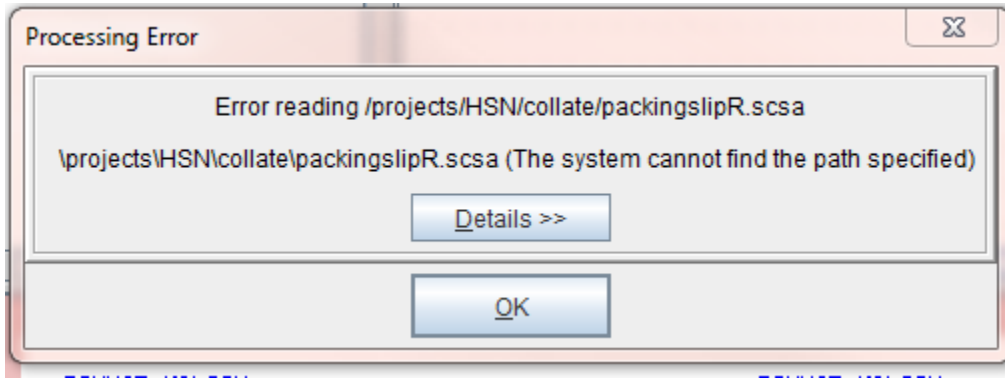
FormatType	10	<ul style="list-style-type: none"> • A – Shipping label • N – Packing slip • P – Warehouse label <p>See Table 1 for a complete list.</p>
ProfileID	11 through 14	USLG
LabelFormat	15 to the end	<ul style="list-style-type: none"> • PKSLPC1 – Packing slip 1 • SHLBL01 – Shipping label 1 • SHLBLWHS – Warehouse label

7. Open the CDF file as your project data file by right clicking the form > *Display form and data*. Select the Data.cdf file and click *OK*. Contents of your User Data File (.scsz) are shown:



If you receive the following error message “Error Reading.....The system cannot find the path specified,” check the following entries in your .cdf file for the correct data and path references:

```
<Data FileName="C:\Minisoft\eFORMz_6\projects\Collate\Data.scsz" />
<Reference FileName=" C:\Minisoft\eFORMz_6\projects\Collate\Data.scsa" />
```



Create Project Files for Secondary Components


Now you are ready to customize your WMI shipping document. To customize the location of secondary components such as shipping labels and warehouse labels, create a project file for each secondary document type. To keep your files organized, save the main component project and secondary projects in the same folder. Write down your document types and MatchText value to use later.

Table 3. Examples of Secondary Components

MatchText Value	Document Type	Project File Name
C???????N*	Packing slip	Collate.efz (main project)
C???????A*	Shipping label	Label4x6.efz (secondary project)
C???????P*	Warehouse	Label4x1.5.efz (secondary project)

Create an eFORMz Project

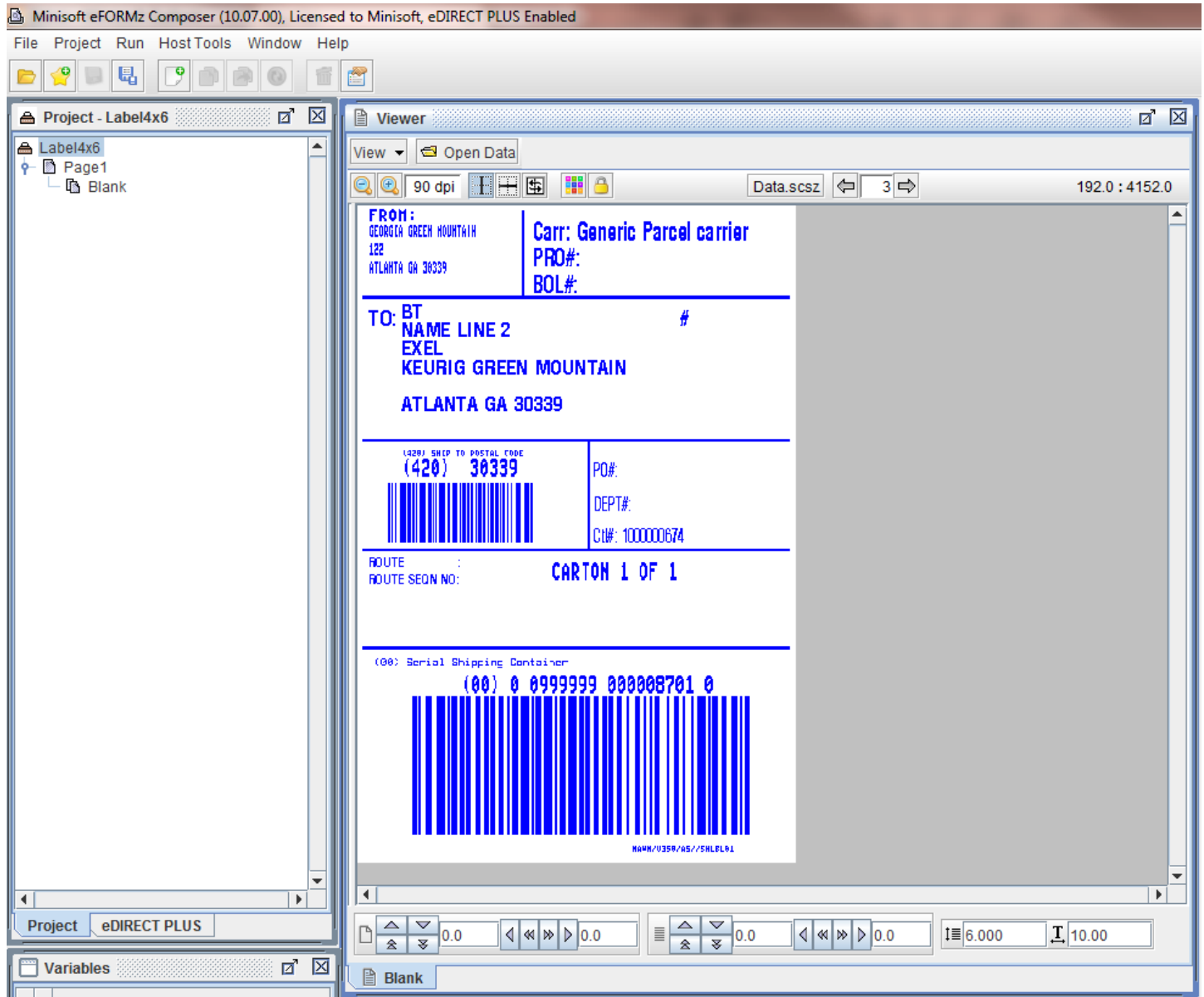
Complete the following steps to create a project for the secondary component project (for example, a shipping label):

1. Start the eFORMz Composer.
2. Click the New Project icon:
 - 
3. Right click the project icon > *Add Page*.
4. Right click the page > *Add Form*.
5. Click *Blank* > *OK*.
6. Right click the form > *Display Form and Data*.
7. Select the .scsz file and click *OK*.
8. Click the arrows on top of the eFORMz Composer Viewer to go to the page that contains the component data. If you are unsure which page of data contains the matching component for the project file you are building, open the corresponding .scsa data file and look at which line contains the component reference:

C0000001NUSLGPKSLPC1	= Packing Slip Page 1
C0000001NUSLGPKSLPC1	= Packing Slip Page 2
C0000001AUSLGSHLBL01	= Shipping Label
C0000001PUSLGSHLBLWHS	= Warehouse Label

Each line represents a data page. If, for example, you are trying to create a project file for the secondary component “Shipping Label”, based on the above example, look at page 3 of the .scsz data file.

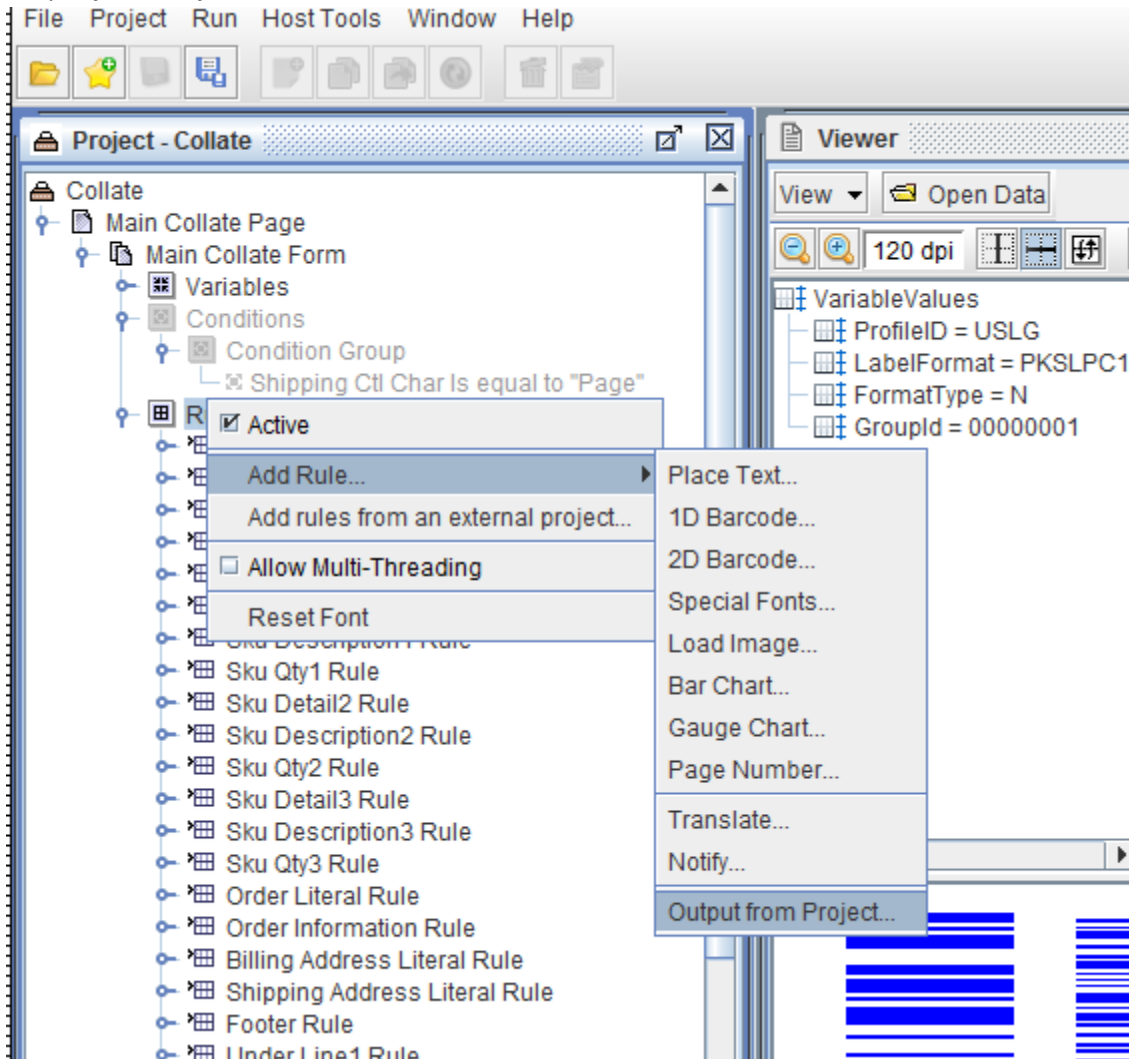
9. Make necessary adjustments to the project.
10. Save your project.
11. Repeat this procedure for each secondary component.



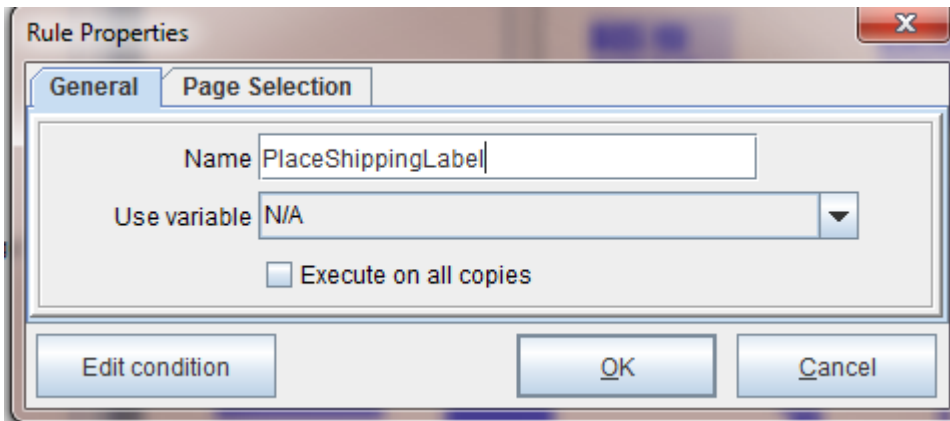
Put It All Together

Complete the following steps after you create the secondary projects:

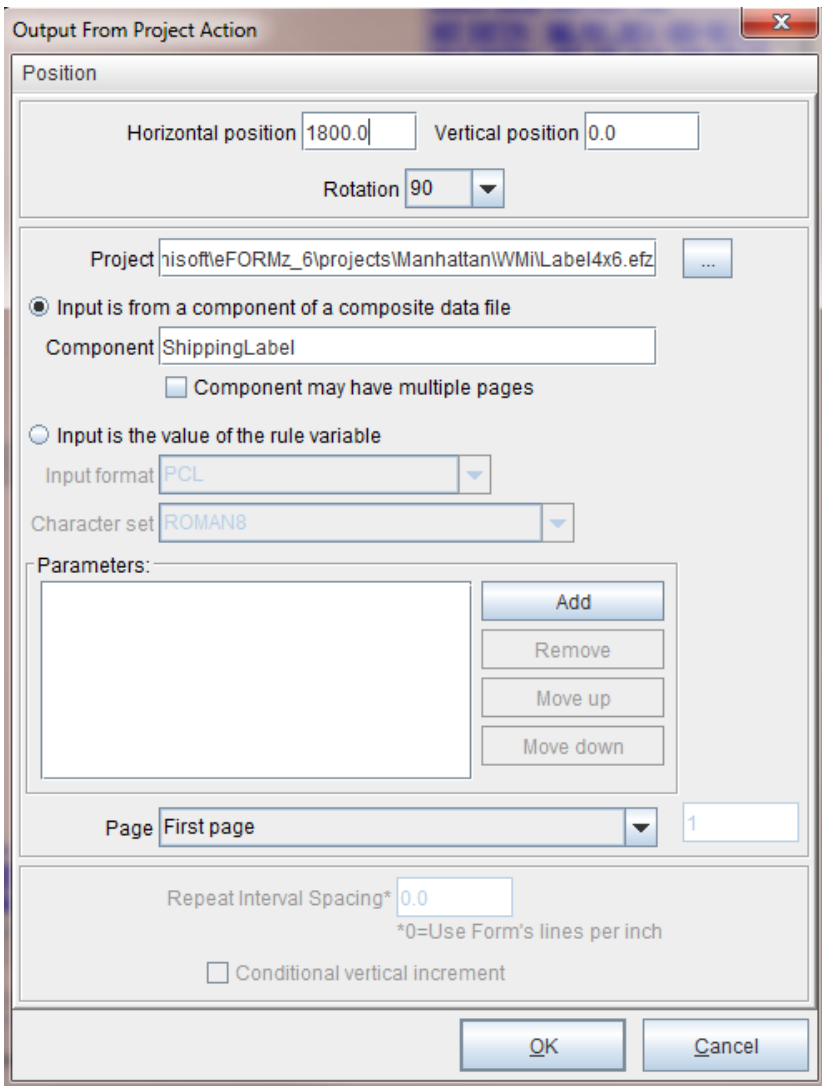
1. Reopen your main component project, collate.efz.
2. Create a new rule to place the secondary project in the custom location. Right click the form > *Add Rule* > *Output from Project*.



3. Type a name for the rule that includes the component type. Select *N/A* in the Use variable field. Click *OK*. The Output From Project Action window opens.



4. In the Output From Project Action window, specify the project location on your Windows system in the Project field. This path might be different than the path on the WMI system.

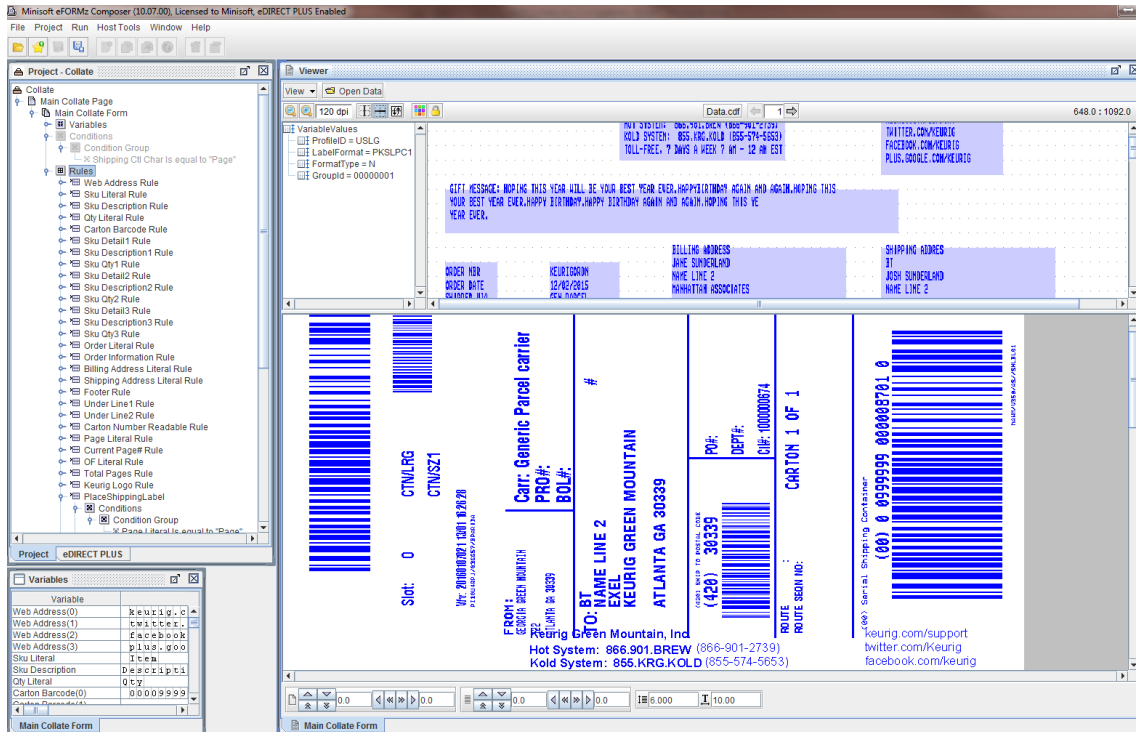


After you complete testing on Windows, you must update the project paths for each Project reference in an Output from Project Action with the iSeries path.

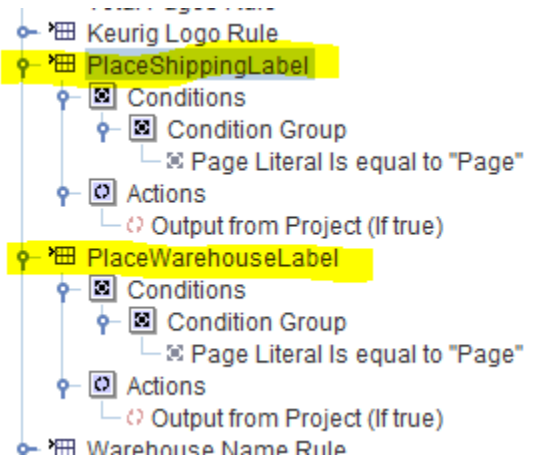
- Click *Input is from a component of a composite data file*. The composite data file is your CDF.
- If you want the input rotated, select the degrees of rotation in the Rotation field.
- In the Component field, type the value of the Name attribute of the Component field. The following example shows a component value of ShippingLabel:

```
<Component Type="secondary" Name="ShippingLabel" MatchText="C???????A*" Format="SCSZ" />
```

- Click *OK*. Your secondary component is shown in the eFORMz Viewer:



- Create an Output from Project rule for each remaining secondary component. The screen shot below shows a rule for a ShippingLabel component and for a WarehouseLabel component:



QTY	ITEM NUMBER	ITEM DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	ATL 05229592213	H N Y	3531.36	
	05/18/2012	Expected	75.99	
	05/20/2012	MC MKS	330.73	
Page 1 of 2				
1	1187725	COLUMN 5.5OT 5/5	16.99	16.99
2	1187741	HTX BK 3.5OT 5/5	11.99	23.98
3	1232870	(8)-BATH CAN HTL W8 DLX	19.99	59.97
1	1384380	CUTLERY TRAY EXP W/SP	19.99	19.99
1	1384384	(1)-UTENSIL TRAY EXP W/ST	19.99	19.99
1	1394009	STEP OTSM FLX 1724	9.99	9.99
1	1427121	EUCALYPT PURP FFS	89.99	89.99
1	1700401	(1)-HANG RS FLX PHT20K2	9.99	9.99
4	1700401	HANG RS FLXCLPST0K2	7.99	31.96
2	1757676	(1)-REV CUP TO GD PNK	7.99	15.98

Continued


---	1187725	06842000020	COLUMN 5.5OT 5/5	16.99
---	1187741	06842000042	HTX BK 3.5OT 5/5	11.99
---	1232870	08380300047	BATH CAN HTL W8 DLX	19.99
---	1384380	07419293080	CUTLERY TRAY EXP W/SP	19.99
---	1384384	07419293059	UTENSIL TRAY EXP W/ST	19.99
---	1394009	004077004795	STEP OTSM FLX 1724	9.99
---	1427121	00888278725	EUCALYPT PURP FFS	89.99
---	1700401	044444588734	HANG RS FLX PHT20K2	9.99
---	1700401	044444588740	HANG RS FLXCLPST0K2	7.99
---	1757676	04390909720	REV CUP TO GD PNK	7.99

Nickel W/ST
 6225 Birch Drive
 Malibu
 CA 90265

Nickel W/ST
 6225 Birch Drive
 Malibu
 CA 90265

Customer: 12107575024680706
 Order No: 00840000000000011
 Order Date: 05/18/2012
 Process Date: 05/20/2012
 Payment Method: CREDIT CARD

THANK YOU FOR YOUR PURCHASE!



Return Processing Center
Door 3P
800 John St., Brooks Rd
Fondrenburg
GA
30037

1-800-GO-BEYOND
customer.service@bedbathandbeyond.com

RETURN INSTRUCTIONS
We gladly accept returns or exchanges of any of our stores or by mail.

TO A STORE:

- Please remember to bring the packing slip with you to the store. Without the packing slip you may receive an exchange or merchandise credit only.
- To find the location of a store nearest you, please call 1-800-GO-BEYOND (1-800-462-8968) or visit us on the web at www.bedbathandbeyond.com.
- Only items purchased or returned in the form of merchandise may be returned.

BY MAIL:

- On the bottom portion of your original packing slip include the item(s) you wish to return and enter the amount of each item you are returning.
- Choose a carrier and have the box labeled and enter the code next to each item.

REFUND DETAILS:

Items with an original receipt or packing slip will be refunded the original method of payment. Shipping and delivery charges are non-refundable. Cash purchases will be refunded in the form of a merchandise credit.

Gift returns will be refunded in the form of a merchandise credit.

REASONS FOR YOUR RETURN

Choose a reason from the list below and write the code next to the item(s) you are returning under the "Reason Code" column in the return section of the packing slip.


QUALITY	SERVICE	FIT	OTHER
Q1. Quality better expected	S1. Arrived late	F1. Item too big	O1. Wrong item ordered
Q2. Defective	S2. Wrong item shipped	F2. Item too small	O2. Missing gift
Q3. Arrived damaged, shipping carton intact	S3. Damaged in transit	F3. Item does not fit correctly	O3. Changed or void
			O4. Other
			O5. Duplicate shipment

Please Print: A: Retail Replacement (Check Mark Your Preference "/>)

Contact Name: _____ Email: _____

Customer service or contact us at 1-800-GO-BEYOND. We reserve the right to change our most advertised offers without notice. We do not sell third party information to any other party, except as set forth in our Privacy Policy. You can view our Privacy Policy by visiting www.bedbathandbeyond.com

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1-800-GO-BEYOND www.bedbathandbeyond.com

ORDER NUMBER	ORDER DATE	GIFT PACKAGING	PAYMENT METHOD
88323391213	05/18/2012	Optional	AC
	PROCESS DATE:	SHIPPING SERVICE:	FULFILLED BY:
	05/20/2012	Optional	ATL

QTY	ITEM NUMBER	ITEM DESCRIPTION	COLOR/SIZE	PRICE
1	1187725	COLUMN 5.5OT 5/5	STAINLESS STEEL	\$16.99
2	1187741	HTX BK 3.5OT 5/5		\$23.98
3	1232870	(8)-BATH CAN HTL W8 DLX	STAINLESS STEEL	\$59.97
1	1384380	CUTLERY TRAY EXP W/SP	WHITE/GRY	\$19.99
1	1384384	UTENSIL TRAY EXP W/ST	WHITE	\$19.99
1	1394009	STEP OTSM FLX 1724	FLAX	\$9.99
1	1427121	EUCALYPT PURP FFS	PURPLE	\$89.99
1	1700401	(1)-HANG RS FLX PHT20K2	STONE	\$9.99
4	1700401	HANG RS FLXCLPST0K2	STONE	\$31.96
2	1757676	(1)-REV CUP TO GD PNK		\$15.98

Please Review the Item Details for any items that are missing.


ORDER BY:
Malibu, CA 90265

ORDER DATE:
05/18/2012

PROCESS DATE:
05/20/2012

TRACKING NUMBER:
12107575024680706

CARRIER NO:
00840000000000011



SHIP TO: MALIBU, CA 90265

REASON CODE	ITEM NUMBER / UPC	ITEM DESCRIPTION	PRICE
---	1187725/06842000020	COLUMN 5.5OT 5/5	\$16.99
---	1187741/06842000042	HTX BK 3.5OT 5/5	\$11.99
---	1232870/08380300047	BATH CAN HTL W8 DLX	\$19.99
---	1384380/07419293080	CUTLERY TRAY EXP W/SP	\$19.99
---	1384384/07419293059	UTENSIL TRAY EXP W/ST	\$19.99
---	1394009/004077004795	STEP OTSM FLX 1724	\$9.99
---	1427121/00888278725	EUCALYPT PURP FFS	\$89.99
---	1700401/044444588734	HANG RS FLX PHT20K2	\$9.99
---	1700401/044444588740	HANG RS FLXCLPST0K2	\$7.99
---	1757676/04390909720	REV CUP TO GD PNK	\$7.99

SHIP TO:
Malibu, CA 90265

CARRIER NO:
00840000000000011

ORDER NO:
88323391213

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After you configure and test your project, update the project paths for each Project reference in an Output from Project Action with the iSeries path, and then upload all projects to your iSeries system using the following procedure:

1. Click *Host Tools > AS400 > Upload a file*. Start by uploading collate.efz.
2. Enter the WMI system's IP address and your authentication information. Click *Connect*.
3. Find the location to store your project file (usually /minisoft/projects), and upload the file.
4. Upload each secondary project file the same way.

Director Toolkit Configuration

Manhattan provides the WMI20XXeFormzConfig.cfg to its customers to configure the Director Toolkit on iSeries. File names have a year that matches the version, for example, WMI2013eFormzConfig.cfg. This Director Toolkit configuration file is already configured but might need to be adjusted for any missing component references.

Complete the following steps to set up your Director Toolkit configuration file or, if necessary, adjust any component references.

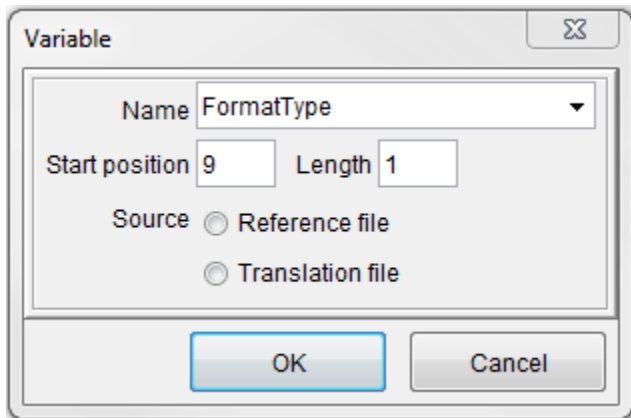
1. Open the AS400 Director Toolkit (Host Tools > AS400 > Director Toolkit) and open the configuration file.
2. Right click the File Selection step > *Change*.
3. Click *ZPLII embedded in SCS*.
4. For the Additional File Selector, select *WMI Collate File Selector*, and then click *File Selector Properties*.
5. On the Files tab, enter the following values:

Start position:	1
Length:	8
Data file selector match string:	C???????D
Reference file selector match string:	C???????R
6. On the Components tab, click *New* or *Edit* (if editing an existing entry), enter a name and MatchText value for each secondary component. Click *OK* after each entry. These are the secondary components that you wrote down in "Create Project Files for Secondary Components". Use the same names and values. For example:

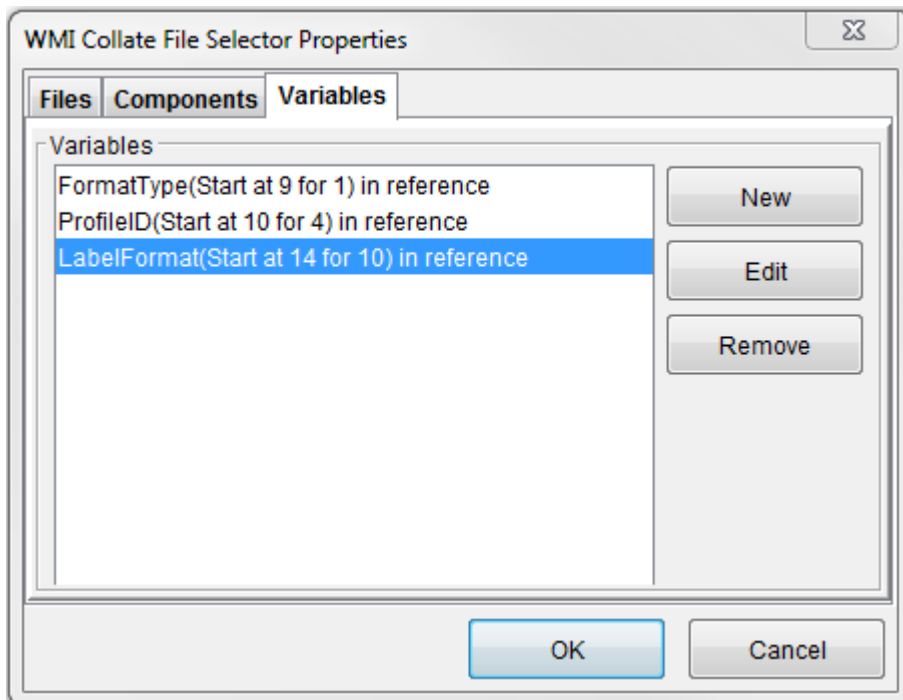
Name	MatchText value
PackingSlip	C???????N*
ShippingLabel	C???????AHSOSSH*
PackageBarcodeLabel	C???????PHSOSORMDIND*
ReturnInfoLabel	C???????PHSOSRTRNINFO*
7. On the Variables tab, click *New*, and enter a name, start position, and length for each variable. Click *OK* after each entry. The following list shows the default variables and their attributes:

Variable	Start position	Length
FormatType	9	1
ProfileID	10	4
LabelFormat	14	10

The following image shows how to enter the FormatType variable:



And the completed Variables tab:



8. Click *OK* to close the WMI Collate File Selector Properties window.
9. Click *File > Save Configuration* to save your changes.
10. Start the Director.