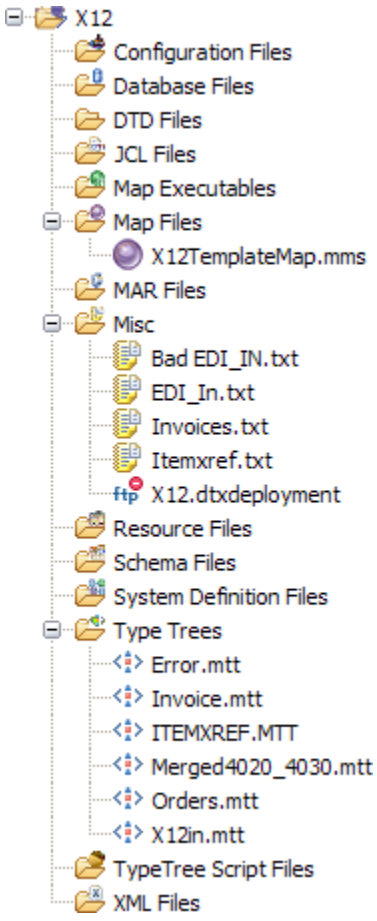
All the materials needed for this lab can be found in the X12 project.

Import the X12 Project Interchange into WTXSTEW workspace.

It is recommended that any changes to these artifacts be done to a copy you saved under the MyFiles project.



Exercise 1: Creating an outbound X12 map

In this exercise you will to start to create 810 Invoice transaction sets from an invoice file generated from your internal application

Assumptions

The following files are required and you can find them in the X12 project.

Invoices.txt
Input data file for the invoice input card is located in **Misc.**

Invoice.mtt
Type tree that defines the incoming invoice data is located in **Trees.**

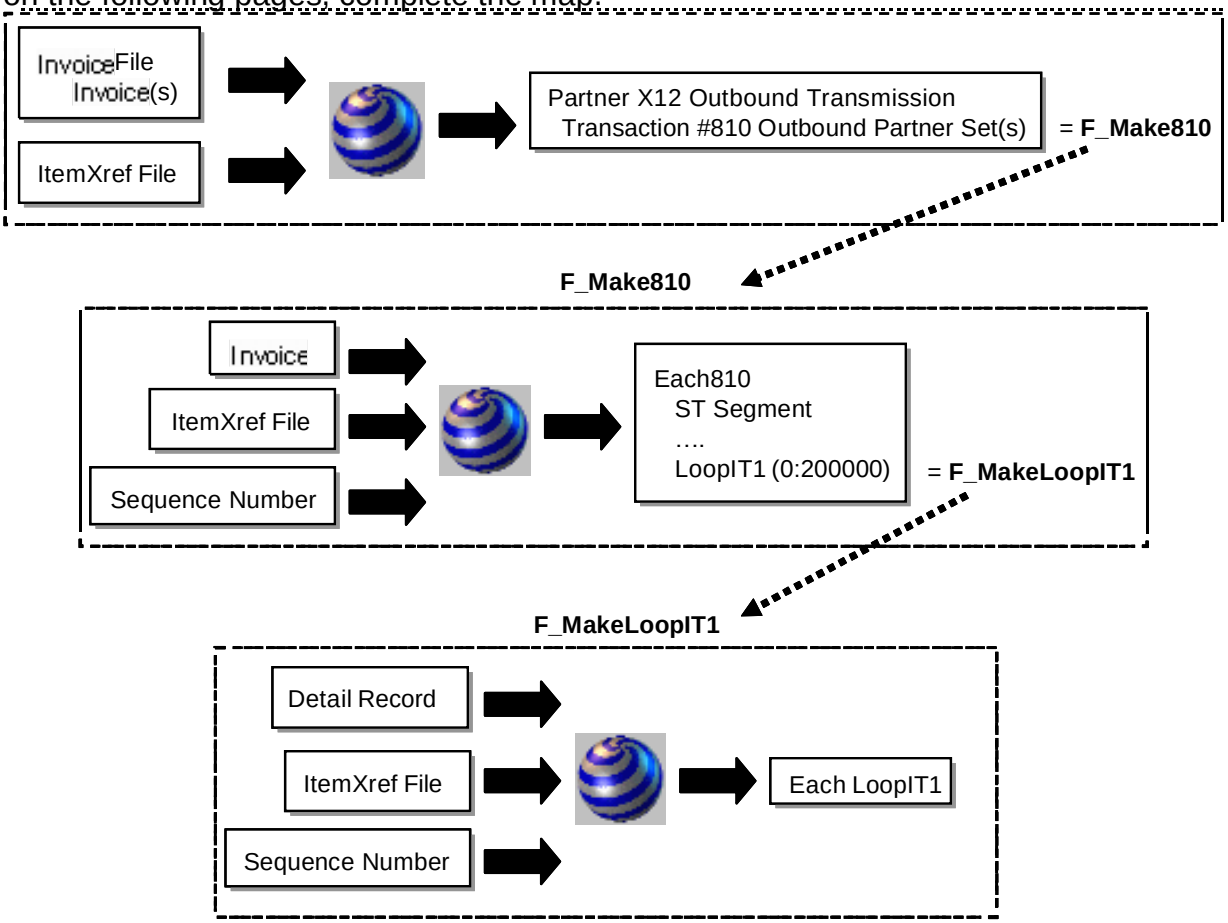
ItemXref.txt
Input data file for the cross reference input card is located in **Misc.**

ItemXref.mtt
Type tree that defines the incoming cross reference data is located in **Trees.**

Merged4020_4030.mtt
Type tree that defines the outgoing Invoice (#810 transaction) is located in **Trees**.

Complete the Map Rules

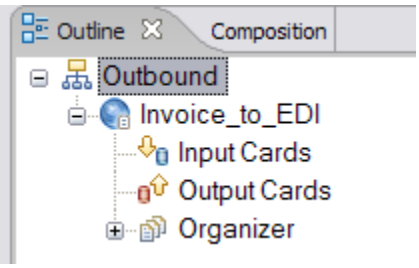
Referring to the mapping flow diagram provided below and the mapping requirements on the following pages, complete the map.



Additional Information

- The map output will be a single interchange.
- You will create two functional maps, one to create each 810 transaction set and one to create each occurrence of the IT1Loop within each 810.
- You will pass three arguments to each functional map, one to trigger the map, one to pass data from the **Item Xref** input file into the functional map, and one to represent a sequential counter.
- You will use **INDEX($)** to pass a sequential number into each functional map.

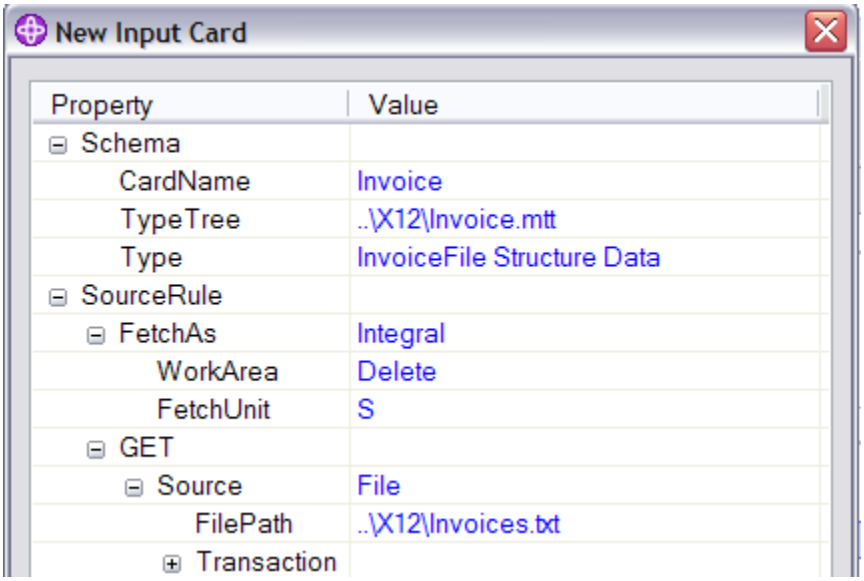
1. Create a map source called **Outbound** in **MyFiles** project. Add a new map named **Invoice_to_EDI** to it.



2. The **Invoices.txt** file (located in **Misc**) contains one invoice set for each order received. The invoice set is composed of one header record and multiple line item records. The file is structured as follows:

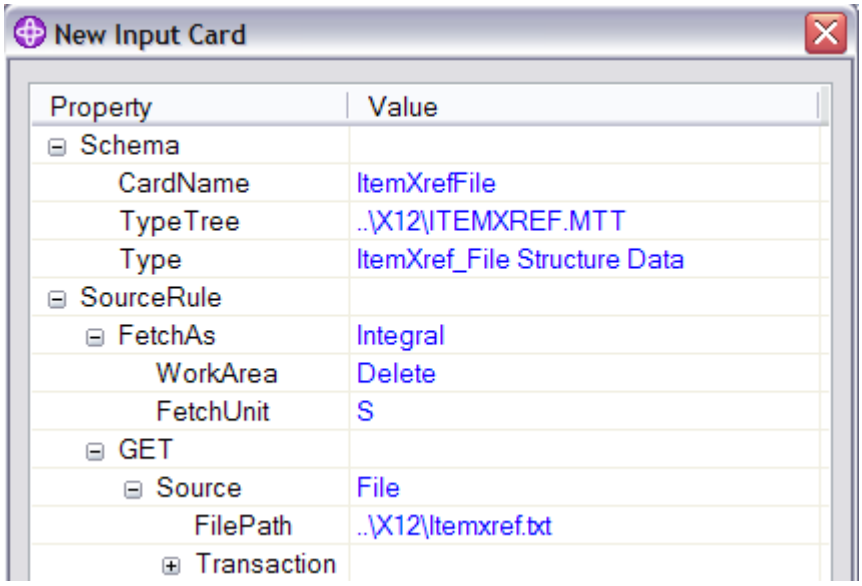
```
Invoice Set
     Header Record
          Customer Number Field
               PO Number Field
               PO Date Field
               ShipToCode Field
               Requested Date Field (0:1)
               Invoice Number Field
               Invoice Date Field
               Contact Name Field
               Contact Phone Field
          Line Item Record
               PO Number Field
               Internal Item Number Field
               Unit Price Field
               Quantity Ordered Field
               UOM Field
               Invoice Number Field (0:1)
               Contact Name Field (0:1)
               Contact Phone Field (0:1)
               Comment Field (0:1)
```

3. Create an input card as shown below. Use the Type Tree and Input file from the X12 project.

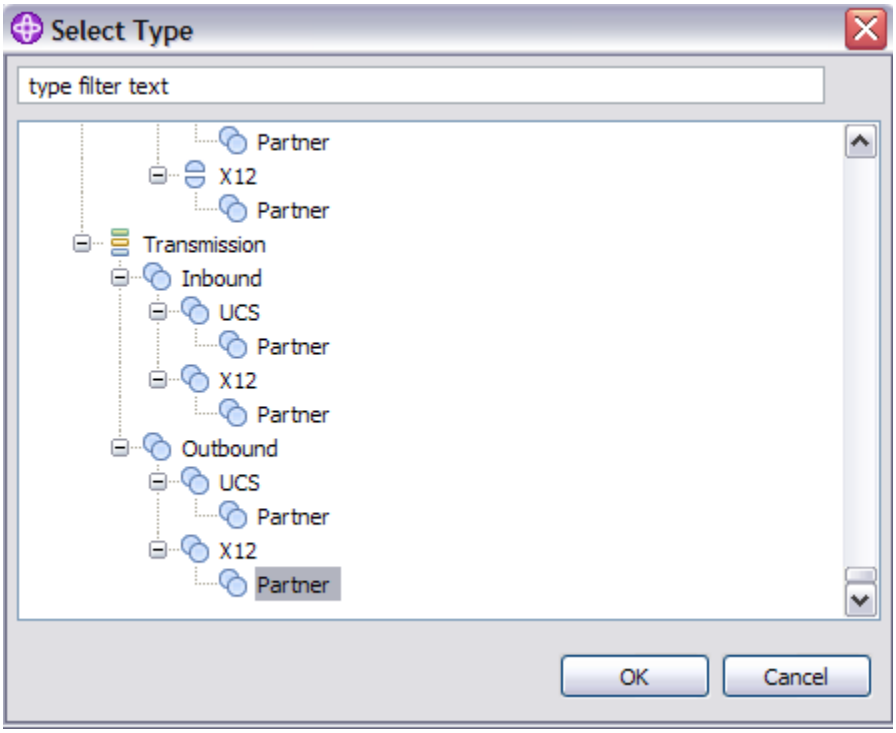


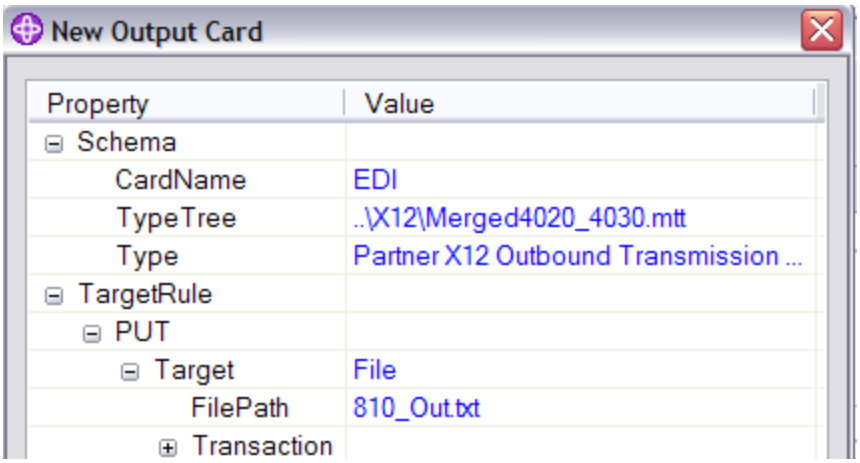
4. Create the second input card to be used for cross reference. The **ItemXref.txt** file (located in **Data**) contains one record for each product your company carries. Each record contains two fields, the internal part number and an item description field. You will use this in a functional map to create the **Description Element** of the **PID Segment**.

5. Add the second input card as shown below, use the Type Tree and data from the X12 project.

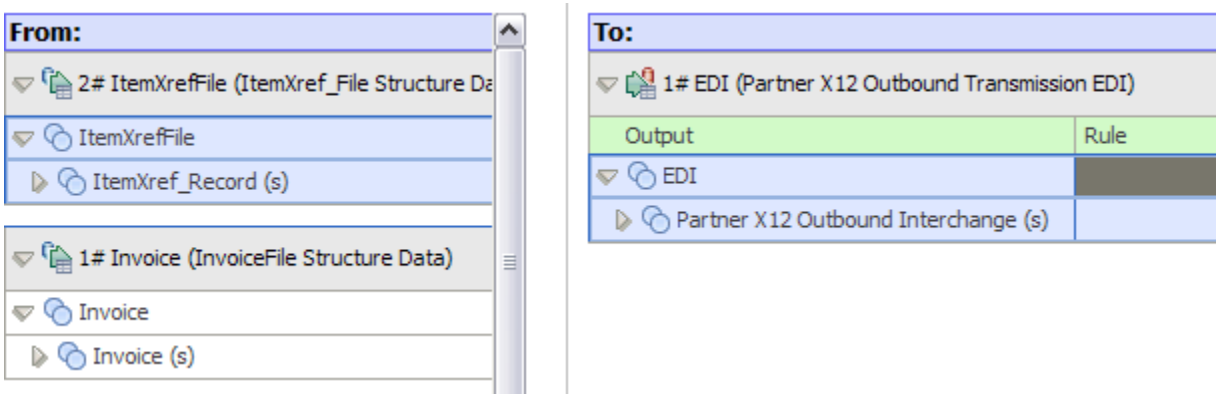


6. Create an output card as show below, use the Type Tree from the X12 project and **Transmission → Outbound → X12 partner** as the Type. Enter **810_Out.txt** as the output file name.



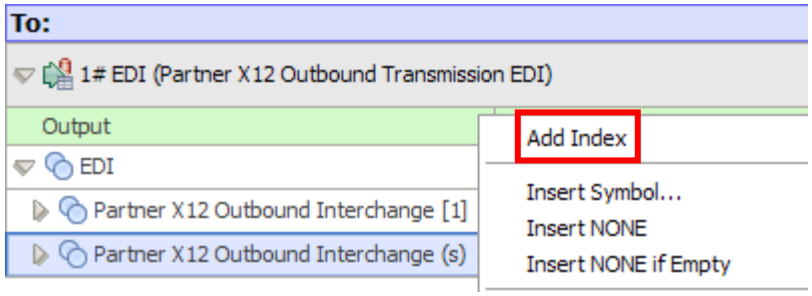


7. Your map should look similar to this.



8. Create single interchange for mapping.

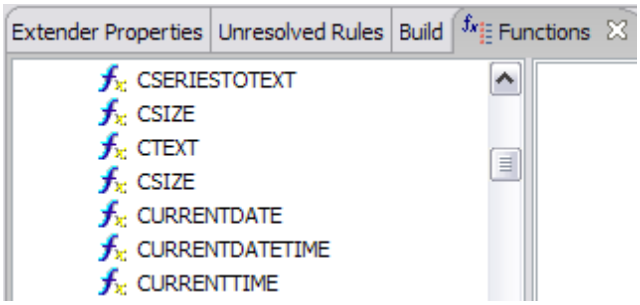
Since we are only mapping a single interchange, we need to create a single instance of the repeating looping segment Partner X12 outbound Interchange. Right click on Partner X12 Outbound Interchange(s) in the EDI output card and select “Add Index”. (If we want to process multiple interchanges, then a functional map should be used instead).



9. Populate the mapping rules for the ISA segment.

Listed below are the rules required for the **ISA segment**. Enter these rule listed in the "Value to be Mapped" column in the required fields. Leave all other rules blank.

CURRENTDATE and CURRENTTIME are functions available from the list of functions. Simply type them in as shown in the screen shot below or pick them from the list.



The map rules for ISA should look like this upon completion:

Partner X12 Outbound Interchange [1]	
Partner Outbound ISA Segment Control ANSI	
Element Delimiter	="*"
ISAPartnerInfo	
Auth'nInfoQual'r Element	="00"
Auth'nInfo Element	=NONE
SecurityInfoQual'r Element	="00"
SecurityInfo Element	=NONE
Sender InterchangeIDQual'r Element	="12"
InterchangeSenderID Element	="7083179000"
Receiver InterchangeIDQual'r Element	="12"
InterchangeRcv'rID Element	="9396100193"
InterchangeDate Element	=CURRENTDATE()
InterchangeTime Element	=CURRENTTIME()
ISA11 Delimiter	
InterchangeCtrlVersion# Element	=NONE
InterchangeCtrl# Element	=1
Ack'tRequested Element	="0"
TestIndicator Element	="T"
Composite Delimiter	=">"
Terminator Delimiter	="<NL>"

10. We are only populating one functional group so we will index the Outbound Partner Funct'lGroup. If more than 1 function group is needed, you should use functional map instead. Populate the other fields with =NONE.

ISB Segment Control ANSI (0:1)	=NONE
ISE Segment Control ANSI (0:1)	=NONE
TA1 Segment Control ANSI (s)	=NONE
Outbound Partner Funct'lGroup ANSI [1]	
Outbound Partner Funct'lGroup ANSI (0:99998)	=NONE

You will now see a single occurrence of the functional group with the value of [1] and the remainder of the occurrences in a group with the value of (0:99998).

11. Populate the mapping rules for the GS segment.

Listed below are the rules required for the **GS segment**. Enter these rule listed in the "Value to be Mapped" column in the required fields. Leave all other rules blank.

Segment	Element	Description	Value to be Mapped	Meaning/File
GS		**Functional Group Header**		
	GS-01	Functional ID Code	IN	Invoice
	GS-02	Application Sender's Code		
	GS-03	Application Receiver's Code		
	GS-04	Date	Current Date	
	GS-05	Time – Short Format	Current Time	HHMM Only
	GS-06	Group Control Number	1	
	GS-07	Responsible Agency Code	X	ANSI X12
	GS-08	Version/Release/Industry ID	004030	ANSI X12 Version

The map rules should look like this upon completion: