General Quick Start Tutorial

https://cms.pilotfishtechnology.com/node/4084

eiConsole v.23R1

The General Quick Start Tutorial is the prerequisite for all new users. It is a simple <u>interface</u> where you'll be taking a flat file from a directory and converting it to XML. In 15-20 minutes you will have configured an end-to-end interface with the eiConsole.

Before you begin the Quick Start Tutorial we suggest that you browse through the eiConsole **OVERVIEW** for a quick look at the overall process for configuring an interface. If you have not installed the eiConsole recently, click eiConsole **Update** to download and install the latest slipstream release. Then, visit **eiConsole Bundles** to download the latest Industry Bundles which include all the sample files that you'll need to do the industry-specific tutorials. For additional information, click here for tutorials on Importing a **Bundle**. After that, you'll be ready to start.

eiConsole Basic Terminology

Before we begin configuring an interface let's review some eiConsole terminology:

- A <u>Working Directory</u> (aka Workspace): is a project directory that contains at a minimum the 4 directories required by the eiConsole: data, <u>formats</u>, lib and <u>routes</u>.
- An Interface: is one or more routes.
- A <u>Route</u>: is an interface or a part of the interface that defines how the data moves from any number of source systems to any number of target systems.
- An Interface Package (Interface Context): is a group of routes and interfaces that can be categorized by functional tasks. (An Interface Package can consist of any number of routes, a collection of interface templates, and partially or fully configured interfaces.)

Next, let's expand on the **Working Directory**. In the eiConsole, a Working Directory is a set of directories and files utilized by eiConsole instances and by a running eiPlatform. The directory structure dictates a hierarchy to be used for determining which Routes and Formats belong to particular interfaces. If you select an empty directory, the eiConsole will ask you if you wish to initialize it. In doing so, it will create the necessary directories – data, formats, lib and routes:

- The "data" folder is used to store user-defined and managed data, such as sample files for testing or documents describing interfaces.
- The "Lib" directory may contain JAR files (files with a ".jar" extension), which are used for defining new types or newer versions of eiPlatform / eiConsole modules.
- Each "routes" folder (under "routes") contains a "route.xml" file, which is where the definition of a particular Route is stored (including configuration settings and topology).
- Each "formats" folder (under "formats") contains a "format.xml" file, which is where the definition for a particular Format is stored. This folder will also include <u>XSLT</u> transformations and <u>File Specification Editor</u> definitions (in XML).

For additional information on the Working Directory, visit the Module: (1) The Working Directory.

Identifying Interfaces

22 Route File Management			-		\times
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6 Getting-Started-Project [C:Program Files/PilotFish Technology/eiConsole/samples/Getting-Started-Project]	•	🧔 Create New	e Browse	🗊 Rer	nove
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🔥 4 General Quick Start Interface					1 i
k Example-Interface				1	Vi Vi

In the **Route File Management** window, the red icon, next to **4 General Quick Start Interface**, indicates an unconfigured interface. The blue icon, next to the **Example Interface**, indicates a fully configured, end-to-end interface.

The Route File Management Window

PC Users View

Route File Management		-	
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File Management			
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Name			
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2 Healucare Security Stated Florina 3 Healucare Templates			y i y i

When you launch an eiConsole bundle, the **Route File Management** window opens. In the Basic View of the Interface Overview grid, you'll see 1-3 "**Packages**", depending on which bundle you have downloaded. In the eiConsole, packages are identified by a **green cube icon**. Here we see the contents of the eiConsole for Healthcare bundle (the bundles for ACORD are similar.)

The 3 Packages that an eiConsole Industry-Specific Bundle may include:

- 1 General Quick Start Tutorial includes a simple, fully configured interface and all of the sample files you will need to complete your first interface.
- 2 Industry Specific (Healthcare, ACORD PCS, etc.) Getting Started Tutorial includes a more complex, and fully configured industry-specific interface along with all the sample files that you will need to configure the interface.
- 3 Interface (Healthcare, ACORD, etc.) Templates include examples of interface templates that provide users with a head start for configuring an interface. Free interface templates are available for download off of the PilotFish Interface Exchange (PIE). Click this LINK for how to download additional templates from the PIE and to learn how to leverage these.

To begin to configure an interface, double click the first row 1 General Quick Start Tutorial.

Configuring an Interface

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File Management		
Bealthcare [C:\Program Files\PilotFish Technology\Healthcare]	💌 🛛 🧔 Create New 🍃 📹 Browse	🗊 Remove
Basic View		
Interface Overview: eip-root/1 General Quick Start Tutorial		
Name		D D I

Double-clicking the package reveals **My First Route**, the example Route or fully configured interface (note the blue icon).

Make note of the location of the sample files as you will need them to configure your first Route. If you downloaded an eiConsole bundle, the sample route is located in your distribution, on a Mac: **/Contents/eip-root** folder and on a PC: **eiConsoleeip-root** folder. This sample configured interface consists of a single route.

To return to the main Working Directory (eip-root), double click anywhere in the row above My First Route.

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File Management		
Healthcare [C:\Program Files\PilotFish Technology\Healthcare]	💌 🏼 🏹 Create New 🛛 📲 Browse	Remove
Basic View		
Interface Overview: eip-root		
Name Name		
1 General Quick Start Tutorial		70
🝞 2 Healthcare Getting Started Tutorial		7
🗊 3 Healthcare Templates		17 🗊
	😤 Add Route 🛛 💜 Add Interface Package 🥥 Configure Common	n Modules
	- Quit eiC	Console 🕜

You'll return the original **Route File Management** window, showing Packages 1-3 in the **Interface Overview** grid. The next thing you'll want to do is to create a new Interface Package. Click the **Add Interface Package** button.

Add Package	×
Enter Interface Package name	
4 General Quick Start Interface	
OK Cancel	

When the Add Package dialogue opens, enter the name "4 General Quick Start Interface", and click OK.

3 Route File Management		-	
Eile Edit View Eind Iools Help		E	
File Management	-10		
🔞 Healthcare [C:\Program Files\PilotFish Technology Healthcare]	💌 🚺 📢 Create New	📲 Browse	🔋 Remove
Basic View			
Interface Overview: eip-root/4 General Quick Start Interface			
Name			
👔 Add Route	💱 Add Interface Package	Configure Commo	n Moduloc
R Add Roble	Aud Interface Package	Comigure Commo	minodules
		🚽 Quit ei	Console 🕜

The **Route File Management** window opens. Notice the new Working Directory appears in the Basic View tab, Interface Overview: eip-root/4 General Quick Start Interface. You'll also be presented with an empty Interface Overview grid.

To create a new interface or route, click anywhere in the interface Overview grid, then, click the Add Route button.

Add New Route	×
Enter a name:	
My First Route	
OK Cancel	

When the Add New dialogue opens, enter the name "My First Route", and click OK.

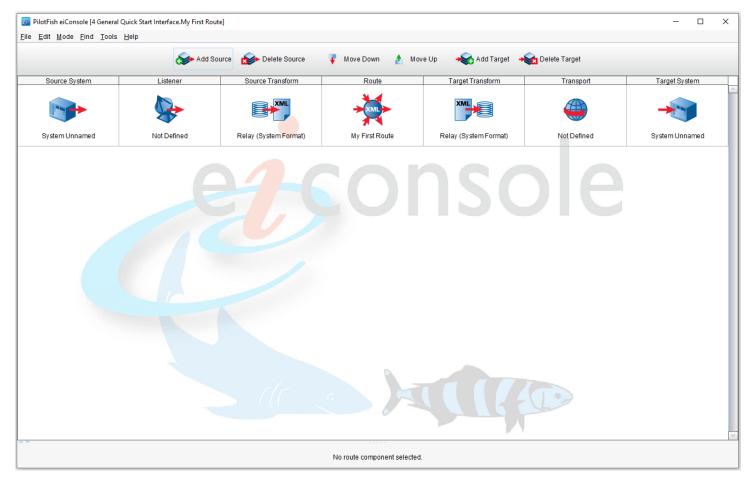
Za Route File Management		-		×
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File Management				
Healthcare [C:\Program Files\PilotFish Technology\Healthcare]	💌 🧖 Create New	Browse	🗐 Rem	iove
Basic View				
Interface Overview: eip-root/4 General Quick Start Interface				
Name				
▲				2
k My First Route			Ľ	/ /i

The newly created route will appear in the Interface Overview grid.

Note: The icon next to your route name is red, indicating an unconfigured or incomplete interface.

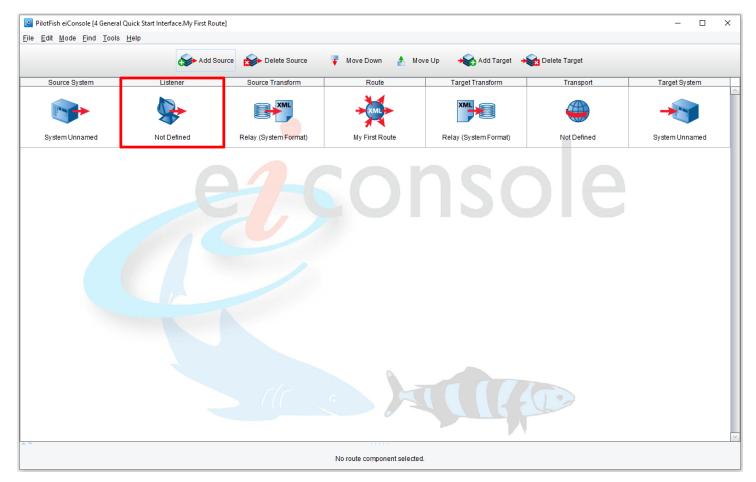
Now, to edit the route and to begin to configure your interface, select the row **My First Route** in the grid and double click.

The eiConsole's Main Route Grid



The eiConsole's Main Route grid will open. Now, define a Source and Target for your route. For this first interface, the general idea is to pick up a flat file from a directory, convert it to XML, and then drop it in the Target directory. For this example, the route will use one Source and one Target.

The Listener Stage



Click on the Listener stage.

🛃 PilotFish eiConsole [4 Genera	I Quick Start Interface.My First Rou	te]				- D >	×
<u>File Edit Mode Find Tools</u>	<u>H</u> elp						
	🍌 Add So	ource 😥 Delete Source	🐺 Move Down 🔥 Mo	ove Up 🛛 😽 Add Target 🔺	Delete Target		
Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System	
			XML			-	^
System Unnamed	Not Defined	Relay (System Format)	My First Route	Relay (System Format)	Not Defined	System Unnamed	
	stener Configuration Processon	r Configuration					~
		Listener Configurati	ion				
		Listener Name: Listener Type: Listener Description	No Module Selected API XL AVS S3 AWS S3 Database Polling (SQL) Directory / File Document-Style Web Service Email (POP3/IMAP)				

The Listener configuration panel will appear.

Note: When you select a stage, a configuration panel for that particular stage will appear in the bottom half of the screen.

Next, select **Directory / File** from the Listener Type drop-down.

Listener Configuration	Processor Configuration	
	Listener Configuration	
	Listener Name:	terface.My First Route.Directory / File Listener 📔 📗
	Listener Type:	Directory / File
	Listener Description:	Monitors a specified directory for new files.
	Throttling	Post-Process Scheduling Criteria Sorting
	😑 Basic	Advanced Transaction Logging Inactivity
	Polling interval:	30 ↓ seconds 🗨 🛃
	Polling directory:	
	File/folder name res	striction:
	File extension restri	ction:
	Specify full file path	Disabled 🗨 属
	Path to file/folder:	
	Tokenizers:	

A set of configuration options for the Listener Module will appear.

Note: The eiConsole makes interface configuration very intuitive and provides the user with visual cues. In the panels, items marked with a red dot require configuration.

Enter **"10**" in the polling interval text box. (The drop-down lets you select minutes, hours, days or weeks for polling intervals.)

Listener Configuration	essor Configuration	
	Listener Configuration	
	Listener Name: Iterface.My First Route.Directory / File Listener 👘 🔳	
	Listener Type: Directory / File 💽 🕜	
	Listener Description: Monitors a specified directory for new files.	
	Throttling Oriteria Sorting	
	Basic Advanced Advanced Inactivity Inactivity	
	Polling interval: 30 🚔 seconds 🔽 🔒	
	Polling directory:	
	File/folder name restriction:	
	File extension restriction:	
	Specify full file path: Disabled	
	Path to file/folder:	
	Tokenizers:	

Next, configure the Polling Directory (the directory from which files will be taken). Click the **Ellipsis** button next to the Polling Directory configuration field.

🛃 Select pollin	g directory	×
Look In: data formats Lib Lew Folder routes	4 General Quick Start Interface	
Folder <u>n</u> ame:	iology\Healthcare\interfaces\4 General Qu	ick Start Interface\New Folder
Files of <u>T</u> ype:	All Files	
		Open Cancel

In your Working Directory, you'll find the **4 General Quick Start Interface** folder (or whatever you named your folder). Use the **Create New Folder** button and create a new folder.

🥶 Select polling	g directory X	
Look <u>I</u> n: 📔 4	General Quick Start Interface	
data formats ib in routes		
Folder <u>n</u> ame:	iology\Healthcare\interfaces\4 General Quick Start Interface\New Folder	
Files of <u>T</u> ype:	All Files	
	Open Cancel	

Select it and name it "in". Select it again to highlight and click Open.

Listener Configuration	Processor Configuration	
	Listener Configuration -	
	Listener Name: It	terface.My First Route.Directory / File Listener 📗 🔳
	Listener Type:	Directory / File
	Listener Description:	Monitors a specified directory for new files.
	Throttling Basic	Post-Process Scheduling Criteria Sorting Advanced Transaction Logging Inactivity
	Polling interval:	30 - seconds V C
	Polling directory:	ərfaces\4 General Quick Start Interface\in 🛄 🔂
	File/folder name rest	striction:
	File extension restrict	ction:
	Specify full file path:	Disabled 💽 🗟
	Path to file/folder:	
	Tokenizers:	

The path to the **"in"** folder will appear in the Polling Directory configuration field. The red dot has now disappeared next to Polling Directory, and since all required items have been filled in within the Basic tab, the red dot in the Basic tab is gone, as well.

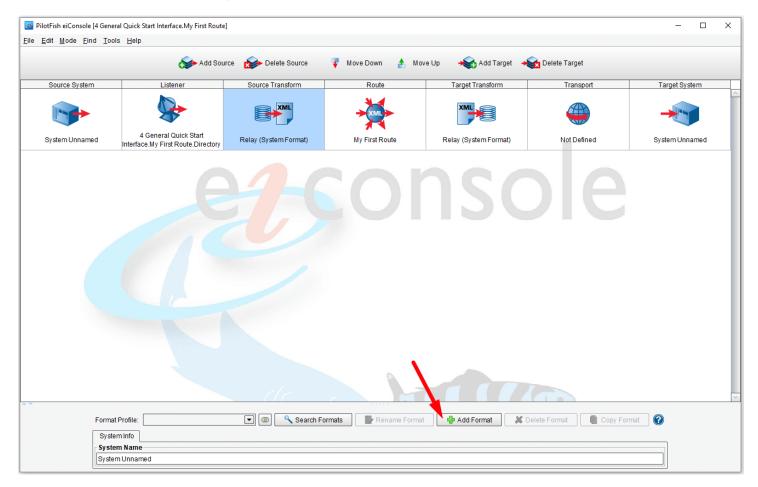
Listener Configuration	Processor Configuration				
	Listener Configuration	n			1
	Listener Name:	Iterface.My First Route.Di	rectory / File Listener 📳 📗		
	Listener Type:	Directory / File	· 🕐		
	Listener Description:	Monitors a specified direc	tory for new files.		
	Basic	Advanced	Transaction Logging	Inactivity	
	Throttling	Post-Process	Scheduling Criteria		
	Postprocess opera	ation: Kee	ep 🔽		
	Target directory:				
	Use Pre-19R1 Rel	lative Path Behavior:			

Set the Post-Process operation.

Note: As you fill in the configuration items marked with the red dots, all of the red dots are gone, indicating that all the required fields have been filled out.

With the Listener stage configured we'll move on to the next stage, the Source Transform.

The Source Transform Stage



Next, click the **Source Transform** icon.

To create a new transformation, click the **Add Format** button.

Add New Format				
0	Enter a name for the new format:			
	Flat-People-To-XML			
	OK Cancel			

Our first transformation will be responsible for converting a flat file to XML. When prompted, add the format name "Flat-People-To-XML" and click OK.

Die jung und Die Jung Image: State Source Image: Source System Indexes Source Transform Route Target Transform Target System Source System Listener Source Transform Route Target Transform Target System System Unnamed Image: System Torse Image: Sys	🐷 PilotFish eiConsole [4 General Quick Start Interface.My First Route] – 🗆 X File Edit Mode Find Tools Help						
Source System Listener Source Transform	Elle Edit Mode Filld Tools		~	~ .	<u> </u>	~	
image: system Unnamed image: system Unn		Add Sou	rce 🛛 🔬 Delete Source	🐺 Move Down 🛧 Mov	ve Up 🛛 🗮 😽 Add Target 🛁	Delete Target	
System Unhamed Interface.My First Route Directory Hat+People-To-XML My First Route Relay (System Format) Not Defined System Unhamed System Un	Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System
System Unhamed Interface.My First Route Directory Hat+People-To-XML My First Route Relay (System Format) Not Defined System Unhamed System Un				×	XML		*
Format Info Transformation Transformation Module Configuration Transformation Module: No Transformation Advanced Commat Ling Conditional Execution Transformation Module: No Transformation Image: Conditional Execution To XML Settings To XML (More) Description: Performs no transformation. Image: XSL File: XSL File: XSL File: Conditional Execution Image: Conditional Execution Image: Conditional Execution Image: Conditional Execution Execute Transformation: Image: Conditional Execution Image: Conditional Execution Image: Conditional Execution	System Unnamed		Flat-People-To-XML	My First Route	Relay (System Format)	Not Defined	System Unnamed
Transformation Module: No Transformation To XML Settings To XML (More) Description: Performs no transformation. XSL File: XSL File: Conditional Execution Execute Transformation: Cache XSLT: Cache XSLT:				ormats	t 🛃 Add Format 🗶 🛙	Delete Format	ormat 🕜
Transformation Module: No Transformation Description: Performs no transformation. Conditional Execution XSL File: Execute Transformation: Image: Cache XSLT:	Trans	formation Module Configuration —					tion
Conditional Execution Execute Transformation:			· · · · · · · · · · · · · · · · · · ·				
Conditional Execution Execute Transformation:		Description: Perform	s no transformation.		XSLT To Common XM		
		Conditional Execution					
		Execute Transformation:		I			

The "Flat-People-To-XML" will become selected in the Format Profile drop-down. And now the <u>Transformation</u> <u>Module</u> and XSLT Configuration panels will appear. Configure both the Transformation Module and an XSLT data mapping.

Note: <u>Transformation Modules</u> are responsible for converting non-XML data into an XML format so they can later be mapped.

🔚 реор	le-ages.txt 🗵				
1	Sally	Jones	21		
2	Thomas	Smith	45		
3	Sandy	Ocean	37		
4					

Our input document will be a text file, **people-ages.txt**, from the distribution **data** folder. This distribution data folder is your {eiConsole-installation-directory}/samples/Getting-Started-Project/interfaces/1 General Quick Start Tutorial/data. It contains a set of fixed-width records containing a first name, last name, and age.

PilotFish eiConsole [4 Gene <u>E</u> dit <u>M</u> ode <u>F</u> ind <u>T</u> oo	eral Quick Start Interface.My First Route] DIs <u>H</u> elp	l				- 0	
	Add Sour	rce 🛛 🏠 Delete Source	🐺 Move Down 🔥 Mo	ove Up 🛛 😽 Add Target 😽	Delete Target		
Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System	
				XML			
System Unnamed	4 General Quick Start Interface.My First Route.Directory	Flat-People-To-XML	My First Route	Relay (System Format)	Not Defined	System Unnamed	
Forma	at Profile: Flat-People-To-XML	💌 🗶 Search F	ormats	at 🛛 👍 Add Format 🛛 🗱 De	elete Format	Format	
	nat Info Transformation Forking			d Octore at hith	0		
	Transformation Module: No Trans	sformation		d Compatibility To XML Settings	Conditional Exec To XML (More)		
	Description: EDI HL7 (HAI		XSL File:	XSLT To Common XML	.: 🔽 Use Direct Relay	W	
	Conditional Execution HL7 v2.X Execute Transformation: JSON Microsoft Name/va	Excel	Cache XSLT: XSLT Engine:	Saxon - XSLT 3.1			
	re non						

To work with this type of data, choose the **Delimited and Fixed-Width File Transformation Module** from the dropdown. Leave the **Use Direct Relay** box checked.

Rename Format 🔮 Add Format	样 Delete Format 👘 Copy Format 👔
Advanced Compati	ibility Conditional Execution
	To XML (More)
XSL File: XSLT To C	Common XML: Vise Direct Relay Browse New
	Advanced Compat To XML Settings XSL File: XSLT To C Cache XSLT:

Next, click the **Edit** button in the File Spec configuration panel.

This will launch the File Specification Editor.

The eiConsole File Specification Editor

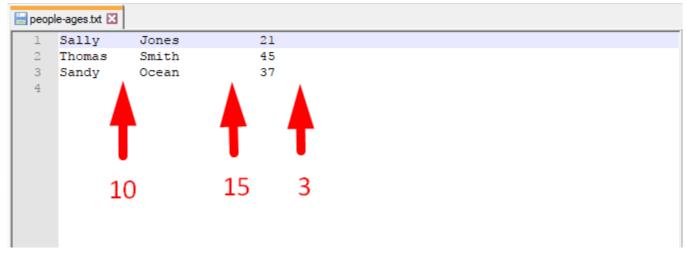
🛃 File Spec Editor	– 🗆 X
<u>F</u> ile <u>S</u> tructure <u>V</u> iew <u>H</u> elp	
Record Structure Module Configuration Edit Spec XML	
Base	File Type: Rec:Delimited / Field:Delimited Change First row is headers
	Preview record structure
- Structure Component Information	Select for New File Type Import Field Names from Tab-delimited File Import from AL3 Format Import from Cobl CopyBook Definitions Import from Cobl CopyBook Definitions Import from SAP Format Import field Names from CSV File User-defined I the second sec

The Select for New File Type wizard will appear. Select User-defined from the drop-down, and click Next.

🌌 Select File Type 🛛 🗙
Record Style
○ Fixed Width
 Delimited
Record Delimiter: \n
Field Style
Fixed Width
⊖ Delimited
Field Delimiter: 1
🗎 Save 🕜

Now, describe the type of file that the transformation module will be parsing. Since the file contains records that are Delimited with new lines, leave that option as is.

However, our fields are fixed width. So, select the Fixed Width Field Style radio box and click Save.



To describe the structure of the flat file that will be parsed, let's take a look at the **people.ages.txt** file.

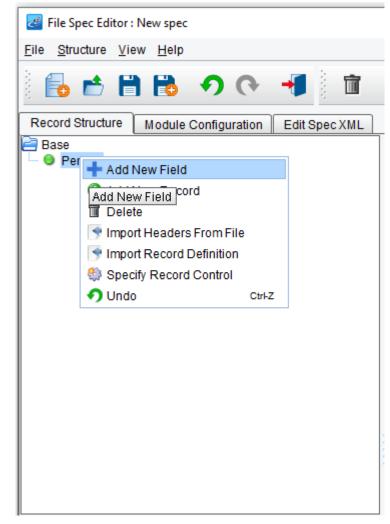
The first 10 bytes of each line will be the first name. The following 15 bytes are the last name. The final 3 are the age.

🥑 File	e Spec Editor : New spec
<u>F</u> ile <u>S</u>	<u>S</u> tructure <u>V</u> iew <u>H</u> elp
	rd Structure Module Configuration
Bas	
	Add New Record /
	Specify Record Control

To configure this in the File Specification Editor, right-click the Base icon in the record structure panel, then click **Add New Record**.

Add Ne	ew Record X
0	Enter a name to identify the new record. Person
	OK Cancel

Since each record represents a person, enter the name "Person" in the Add New Record dialogue and click OK.



A green node will appear in the record structure tree.

To describe each field in the Person record, right-click the Person node and select Add New Field.



Provide the field name "First" in the Add New Field Dialogue, and click OK.

🜌 File Spec Editor : New spec 🛛 🚽 🖉 🕹		
<u>File Structure View H</u> elp		
ᡖ 🖆 🛱 👪 🔊 (९ 📲 🛅	▲ ▼ ()	
Record Structure Module Configuration Edit Spec XML		
Image: Parson Person	File Type: Rec:Delimited / Field:Fixed Width Change First row is headers	
- • First	Preview record structure	
	0 : 0 Insert Field Results preview To XML From XML Image: Comparison of the second secon	
Structure Component Information		
Structure Type: Field Field Name: First	0:0	
Start: 1	Set Selected Text Selected Text Apply Converters	
End: 10	No hierarchy loaded	
Length: 10		
Field quantity		
Prev New		
	Tree XML	

In the Structure Component Information area underneath the Record Structure panel, specify the start position, end position, or length of the field.

Type in "10" bytes for length and click enter/return.

Note: The end positions are automatically updated based on the length entered.

🜌 File Spec Editor : New spec 🛛 🚽 🖉 🕹				
<u>File</u> Structure <u>V</u> iew				
Record Structure Module Configuration Edit Spec XML				
P- ● Person	File Type: Rec:Delimited / Field:Fixed Width Change First row is headers			
- 🕤 First	Preview record structure			
	0 : 0 Insert Field Results preview To Add New Field Enter a give to identify the new field. Last OK Cancel			
Structure Component Information Structure Type: Record				
Record Name: Person				
Record quantity:	Set Selected Text Execute Transform To XML Apply Converters			
Change delimiter	No hierarchy loaded			
	Tree XML			

Right-click the person record and select Add New Field.

Type the field name "Last" and click OK.

I File Spec Editor : New spec	- 🗆 X
<u>File Structure View H</u> elp	
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Record Structure Module Configuration Edit Spec XML	
Person First Last	File Type: Rec:Delimited / Field: Fixed Width Change First row is headers Preview record structure
	0 : 0 Results preview To XML From XML To
Structure Component Information Structure Type: Field Field Name: Last Start: 11 End: 25 Length: 15 Field quantity Prev New	0 : 0 Set Selected Text Execute Transform To XML Apply Converters No hierarchy loaded Tree XML

Select the blue Last node and type "15" into the length field.



Finally, repeat the process one more time. Select the green Person node, right click and select **Add New Field**, type in "Age", click **OK**.

File Spec Editor : New spec	- D X
<u>File Structure View H</u> elp	
🖥 📩 🗒 🖏 🔿 🔿 📲 🛅	▲ ▼ ② ③
Record Structure Module Configuration Edit Spec XML	
Person Pirst Last Age	File Type: Rec:Delimited / Field:Fixed Width Preview record structure 0 : 0 Insert Field Results preview To XML From XML Image: I
Structure Component Information Structure Type: Field Field Name: Age Start: 26 End: 28 Length: 3 Field quantity 1 Unbound Prev New	0 : 0 Set Selected Text Execute Transform To XML Apply Converters No hierarchy loaded Tree XML

Next, select the blue Age node and type in "3" in the length field. Then click enter/return.

i n I	Results p	review	_
: If	To XML	From XML	
		B 9 0	
	1		
	0:0		Ĩ
		Set Selected Text Selected Text Selected Text Apply Converters	
:		ierarchy loaded	1
	Tree	XML	

With our record defined, let's test the parsing. To do this, load a sample file into the results preview area. Click the **Folder** icon.

🌌 Select Te	st Text File X
Look <u>I</u> n:	 data Program Files PilotFish Technology Healthcare interfaces 1 General Quick Start Tutor data Network Libraries
File <u>N</u> ame: Files of <u>T</u> yp	e: All Files
	Open Cancel

Navigate to the **people-ages.txt** file in the data folder of your distribution.

🌌 Select Test Te	ext File		×
Look <u>I</u> n: 📔 (data (•	💿 🏠 볼 🔡 🖿
people-age			
File <u>N</u> ame:	people-ages.txt		
Files of <u>T</u> ype:	All Files		▼
			Open Cancel

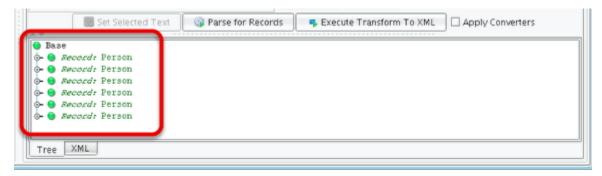
Click the **Open** button.

Bile Spec Editor : New spec	- 🗆 X
Eile Structure View Help	
🖥 📩 🛱 🔀 🔊 💎 📲 🛅 🔺 🤋	
Record Structure Module Configuration Edit Spec XML	
Person First Last Age	File Type: Rec.Delimited / Field Fixed Width Preview record structure 0:0 0:0 Image: Comparison of the structure 0:0 Image: Comparison of the structure Image: Comparison of the struct
Structure Component Information	Set Selected Text Selected Text
Structure Type: Field	No hierarchy loaded
Field Name: Age	No uteratory toaded
Start 26	
End: 28	•
Length: 3 Field quantity 1 - Unbound	
Prev New	Tree XML
	Tree XML

Finally, to test the XML transformation, click on the **Execute Transform to XML** button. The parsed representation of the data will be displayed.

File Spec Editor : New spec	File Spec Editor: New spec			
<u>File Structure View H</u> elp				
	iguration Edit Spec XML			
Record Structure Module Configuration Edit Spec XML		File Type: Rec Delimited / Field Fixed Width Preview record structure 0:0 Insert Field Results preview To XML From XML Image: Structure Image: Structure		
			1	
Structure Component Information		Set Selected Text Execute Transform To XML Apply Converters		
Structure Type: Field Name:	Field	Base		
Start:	Age 26	• • Record: Person		
End:	28	 ♥ ● Record: Person ♥ ● Record: Person 		
Length:	3			
Field quantity	1 Unbound			
Prev	New	Tree XML		

Displayed are all 3 person records from our sample file. If it doesn't look like this, still go ahead and move on to the next step.



If your output looks like this instead, you'll need to add one more step.

NOTE: Some filesystems use a 2-character endline sequence (carriage return + linefeed), where others use a single character. For this reason, you may be required to add an extra field to your record definition to consume the additional character. If empty records appear in your output, add an additional record called "ENDLINE" with a length of 1 byte. This should stop the empty records from appearing in your output.

Repeat the previous processes by selecting the green Person node. Right-click and select **Add New Field**, type in **"ENDLINE"**, click **OK**. Leave the Length at "1". Click enter/return then click **Execute Transform to XML**.

File Spec Editor : New spec	- D X			
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Pase P ● Person	File Type: Rec:Delimited / Field:Fixed Width Change First row is headers			
- 🕤 First	Preview record structure			
— ● Last — ● Age				
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	Results preview			
	To XML From XML			
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	1 Sally Jones 21			
	2 Thomas Smith 45 % 3 Sandy Ocean 37 %			
Structure Component Information	Set Selected Text Selected Text Apply Converters			
Structure Type: Field Field Name: ENDLINE	Base			
Start: 29	 Image: Second: Person Image: Second: Person 			
End: 29	• • Record: Person			
Length: 1				
Field quantity				
Prev New				
	Tree XML			

Your output should now look like that above. You can now proceed to the next step.

Z File Spec Editor : New spec	- D X
<u>F</u> ile <u>S</u> tructure <u>V</u> iew <u>H</u> elp	
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Record Structure Module Configuration Edit Spec XML	
 Person ♥ ♥ ♥ ■ ♥ ♥ ■ ♥ ♥ ■ ♥ ♥ ■ ♥ ♥<	File Type: Rec:Delimited / Field:Fixed Width Change Freview record structure First row is headers
Age	
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	To XML From XML
	📩 🔁 🔸 🔿 (b)
	1 Sally Jones
Structure Component Information	Set Selected Text Execute Transform To XML Apply Converters
Structure Type: Record Record Name: Person Record quantity: 1 [±] Unbound Change delimiter	Base Point Point

Click the <u>nodes</u>. You see that each is correctly parsed, containing a first, last, and age field. To view the XML representation, click on the **XML** tab.

I File Spec Editor : New spec	- 🗆 X
<u>File Structure View H</u> elp	
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Record Structure Module Configuration Edit Spec XML	
e Base ● Person ● ● First ● ● Last ● ● Age	File Type: Rec.Delimited / Field Fixed Width Change Preview record structure
	0 : 0
	Results preview
	To XML From XML
	n 🖞 🙀 🗸 🕑
	1 Sally Jones
Structure Component Information	Set Selected Text Selected Text Apply Converters
Structure Type: Field	Base
Field Name: ENDLINE	♀ ● Record: Person
Start: 29	• Field: First = Sally
End: 29	 Field: Last = Jones Field: Age = 21
Length:	• real: Notice = 21
Field quantity	🕈 🗣 Record: Person
Prev New	 Field: First = Thomas Field: Last = Smith
	- Field: Last - Smith
	Field: ENDLINE =
	Tree XML

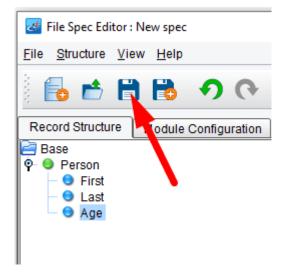
For those who added "ENDLINE", clicking the nodes will reveal the output above. To view the XML representation we can click on the XML tab.

File Spec Editor : New spec	– 🗆 X
Eile Structure View Help	
🔓 📩 🗎 🔥 🔊 (> 📲 🛅 🛓	
Record Structure Module Configuration Edit Spec XML	
Base Person First Last Age	File Type: Rec:Delimited / Field: Fixed Width Change Preview record structure
	Insert Field
	Results preview
	📩 📩 🤊 (?
	1 Sally Jones 21 4 2 Thomas Smith 45 4 3 Sandy Ocean 37 4 4
Structure Component Information	Set Selected Text Selected Text Apply Converters
Structure Type: Record Record Name: Person Record quantity: 1 [±] Unbound Change delimiter	1 <xcsdata>[2 <person :index="1">[] 3</person></xcsdata>
	1:1 Tree XML

Use the scroll bar to view the XML.

File Spec Editor : New spec		- נ	⊐ ×
<u>File</u> <u>Structure</u> <u>View</u> <u>H</u> elp			
i 🔂 🖆 🗎 🖪 🤊	🔿 🕂 🍵		
Record Structure Module Config	guration Edit Spec XML		
Person Person Last Age ENDLINE		File Type: Rec:Delimited / Field:Fixed Width Change Preview record structure	
		0 : 0	
		Results preview	
		To XML From XML	
		📩 📩 🔊 (?	
		1 Sally Jones	
Structure Component Information		Set Selected Text Selected Text Apply Converters	
	Field		
Field Name:	ENDLINE	1 <xcsdata> 2 <person index="1"> </person></xcsdata>	
	29	3 » <first index="1">ally</first> [
	29	4 <last -index="2">Jones</last>	
Length:	1	5	
Field quantity	1 → Unbound	7 ∥	
Prev	New	8 (Person index="2")] 0 Sinct index="1":Thomso (Einstein)	~
		Tree XML	
L			

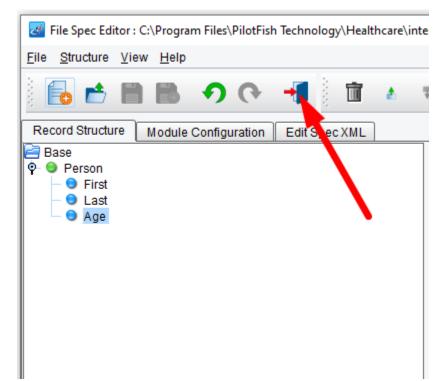
And for those with the added field "ENDLINE", your output will look like that above.



Our file specification is complete. Save it by clicking the **Save** icon.

Save Fil	le X
	Enter the name you wish to save the file under:
	People-FlatFile-Spec
	OK Cancel

The Save File dialogue will appear. You'll be prompted to enter a name. Type "People-FlatFile-Spec" and click Ok.



Next, click the Return to Console icon.

PilotFish eiConsole [4 General Qui File Edit Mode Find Tools Ho						- 0	×
<u></u>		e 😥 Delete Source	🐺 Move Down 🔥 Mo	ve Up 🛛 😽 Add Target 🐳	Delete Target		
Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System	
	>	XML	XML	XML			~
System Unnamed Inte	4 General Quick Start rface.My First Route.Directory	Flat-People-To-XML	My First Route	Relay (System Format)	Not Defined	System Unnamed	
Format Info Transforma Tra De Basic	escription: Performs and delin	O O Search File d and Fixed-Width File o transformation between fixed-witted files and XML Advanced Browse Edit	XSL File: Vidth Cache XSLT	ICED Compatibility To XML Settings	Delete Format Conditional Exe To XML (More) XML: Use Direct Relay Browse Ty Delete Format	cution	

Note that the new file specification now appears in the Transformation Module Configuration area. Since there won't

be any additional transformation, leave the XSL File set to **Use Direct Relay**, checked.

The Route Stage

_	al Quick Start Interface.My First Route	I				- 0	×
<u>File Edit Mode Find Tools</u>	s <u>H</u> elp						
	Add Sour	ce 🛛 😥 Delete Source	🐺 Move Down 🔥	Move Up 🛛 😽 Add Target	→ Delete Target		
Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System	
		XML	×	XML		-	^
System Unnamed	4 General Quick Start Interface.My First Route.Directory	Flat-People-To-XML	My First Route	Relay (System Format)	Not Defined	System Unnamed	
		Pool Configuratio	My First Route				

Click on the Route stage. The General tab will open with the configuration settings. Leave these settings as is.

General	Debug Trace	Routing Rules	Transaction Monitoring	
Routing Con Module Sele	_			
Routing M	odule:	All Targets		
Module D	escription:	All Targets Load Balancer Rou XPath / Attribute	uting Module	
- Module Con	figuration –			
	Module doe	es not support or req	uire graphical config	

In the Route stage, we can optionally implement Routing Rules.

Select the Routing Rules tab. Note your options in the drop-down. In our case, you are sending all data from the Source to the Target System. So, the default <u>Routing Module</u> selection of **All Targets** applies. Leave these settings as is.

Next, click on the Target Transform stage.

The Target Transform Stage

Eile Edit Mode End Tools Belo Source System Listerer Source System Listerer System Unnamed Agreezed DatieS Start File Food File Food </th <th>PilotFish eiConsole [4 Ge</th> <th>neral Quick Start Interface.My First Route</th> <th>e]</th> <th></th> <th></th> <th></th> <th>- 🗆 X</th>	PilotFish eiConsole [4 Ge	neral Quick Start Interface.My First Route	e]				- 🗆 X
Source System Lietener System Unnamed System Unnamed Lietener System Unnamed Lietener System Unnamed Lietener System Unnamed Copy Formal System F	<u>File Edit Mode Find T</u>	ools <u>H</u> elp					
		🍻 Add Sou	urce 😿 Delete Source	🐺 Move Down 🔥 Mo	we Up 🛛 😽 Add Target 🔸	Delete Target	
System Unitalited interface My First Route Directory Proceeding System Contracting System	Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System
System Unitalited interface My First Route Directory Proceeding System Contracting System				- RML			
Format Profile: Relay (System Format)	System Unnamed		Flat-People-To-XML	My First Route	Relay (System Format)	Not Defined	System Unnamed
ojaen olimaned	Sys	stem Info		Formats	t Add Format 🗶	Delete Format	ormat 🕐

To add another format, click the **Add Format** button.

Add Ne	ew Format	\times
•	Enter a name for the new format:	
	People-Mapping-Transform	
	OK Cancel	

Once the Add New Format dialog appears type in "People-Mapping-Transform" and click OK.

PilotFish eiConsole [4 Genera File Edit Mode Find Tools	al Quick Start Interface.My First Route s <u>H</u> elp]				- 🗆 X
	Add Sou	rce 🛛 😥 Delete Source	🐺 Move Down 🔺 Mov	e Up 🛛 😽 Add Target 😽	Delete Target	
Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System
		XML	XML			-
System Unnamed	4 General Quick Start Interface.My First Route.Directory	Flat-People-To-XML	My First Route	People-Mapping-Transform	Not Defined	System Unnamed
Format	Profile: People-Mapping-Transforr		Formats) 🗊 Rename Format	Add Format 🕺 De	elete Format	-ormat 🕜
	Advanced Comp	atibility Condit	tional Execution	rmation Module Configuration		
	FromXML	From XML (More)	ransformation Module: No Transfo	rmation 🗨	
XS	L File: XSLT To	Common XML: 🗹 Use Direct Re	elay D		o transformation.	
	-h - VOI T-			Conditional Execution		
	che XSLT:		E	xecute Transformation: 💟		
	LT Engine: Saxon - XSLT 3.1	v D				

People-Mapping-Transform will be selected in the Format Profile drop-down. Leave that as is.

Next, configure the XSL File and leave the Transformation Module Configuration set at **No Transform**.

Format Profile: People-Mapping-Transform 🗨 💿 🔍 Search Formats 🗊 Rena	me Format 🛛 🖶 Add Format 🖉 🔀 Delete Format 📄 🧑 Copy Format 🥥
Format Info Transformation Joining	
Advanced Compatibility Conditional Execution From XML From XML (More) XSL File: XSLT To Common XML: Use Direct Relay	Transformation Module Configuration Transformation Module: No Transformation Description:
Cache XSLT:	Conditional Execution Execute Transformation:
XSLT Engine: Saxon - XSLT 3.1	

Uncheck the Use Direct Relay box in the XSLT Configuration panel. This will enable the Browse and Edit buttons in configuration items. Click the **New** button to launch the <u>Data Mapper</u>.

📴 Data Mapper : New mapping		- 🗆 X
<u>File</u> Formats <u>Mapping</u> ⊻iew <u>H</u> elp		160MB of 230MB
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Format Type view	Filter by pattern XSLT Structures XPath Functions XSLT Functions Custom Variables	Format Type view
Info Notes	Mapping Information	Info Notes
Structure Type: None selected.	Selected Mapping Structure	Structure Type: None selected.
Element Name:	Description stylesheet	Element Name:
Datatype:		Datatype:
Max. Occurrences:		Max. Occurrences:
Min. Occurrences:		Min. Occurrences:
Sample Data:	Mapping XSLT View Testing	Sample Data:

The Data Mapper opens. The Data Mapper is the eiConsole's 3 pane mapping tool. It generates XSLT transformations and enables you to transform any data format to any other data format. In the Data Mapper, you can load the Source Format, load the TargetFormat, and then graphically map between the two.

Click the **Open Source Format** icon above the Source panel.

Select Format	×
Read Format	
Format Reader:	None selected
	Command Line
Reader Description:	CSV
	DTCC
	EDI
	FHIR
	Flat File
	HL7 v2.x
	HL7 v3
~	Read Format 🎽 Cancel 🔞 Help

The Select Format dialog will open. To map from a flat file format, choose the **Flat File** from the drop-down and click **Read Format**.

Select Format X				
Read Format				
Format Reader:	Flat File			
Reader Description:	Reads flat file format specification and builds a format description.			
Flat file format files (*)				
Add Remove				
🗸 Read Format 🛛 💥 Cancel 🛛 🔞 Help				

Then, the **Add** button below the Flat file format files panel.

🌌 Select Flat fil	le format files		\times
Look <u>I</u> n: 📔 f	formats	•	
📄 Flat-People			
🖻 People-Ma	pping-Transform		
File <u>N</u> ame:			
Files of <u>T</u> ype:	Specification files (*.xml)		•
		Ор	en Cancel

When the Select Flat file format files panel opens, navigate to the 4 General Quick Start Interface directory, or your Working Directory, and double click on the **formats** folder to open.

Select the Flat-People-To-XML folder and double click to open.

🛃 Select Flat fi	le format files		×
Look <u>I</u> n: 📔 F	Flat-People-To-XML	•	💿 🏫 💕 🔡 🚍
format.xml	tFile-Spec.xml		
File <u>N</u> ame:	People-FlatFile-Spec.xml		
Files of <u>T</u> ype:	Specification files (*.xml)		•
			Open Cancel

Inside that folder, you'll find the file specification that was completed earlier. Select the **People-FlatFile-Spec.xml** file and click **Open**.

Select Format	×
Read Format	
Format Reader:	Flat File
Reader Description:	Reads flat file format specification and builds a format description.
	Flat file format files (*)
<	
	Add Remove
v F	Read Format 🛛 👗 Cancel 🛛 🔞 Help

When the Select Format window opens click the **Read Format** button.

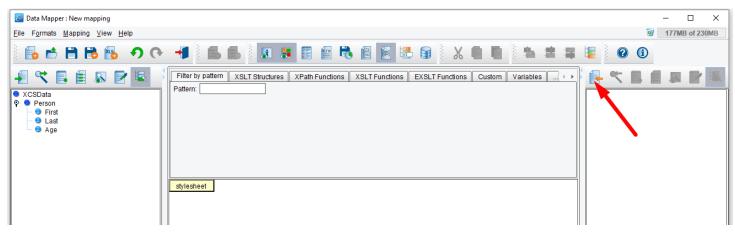
Z Data Mapper : New mapping		- 🗆 X
<u>F</u> ile F <u>o</u> rmats <u>M</u> apping <u>V</u> iew <u>H</u> elp		3 172MB of 230MB
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XCSData Person First Last Age	Filter by pattern XSLT Structures XPath Functions XSLT Functions Custom Variables Pattern:	
Format Type view		Format Type view
	Mapping Information Comments Selected Mapping Structure Filter.	
Structure Type: None selected.	Description stylesheet	Structure Type: None selected.
Element Name:		Element Name:
Datatype: Max. Occurrences:		Datatype:
Min. Occurrences:		Min. Occurrences:
Sample Data:	Mapping XSLT View Testing	Sample Data:

The structure of the flat file will now appear in the tree in the left panel of the Data Mapper. Click the node to expand

the tree. On the right-hand side, load the TargetFormat. (Note, there might be the last element "ENDLINE" in the source format. It would only appear if it has been added in the File Specification step)

Note: What is a "node" vs. an element. The nomenclature comes from the XML standard itself, where any object within an XML tree is called a "node." "Elements" are nodes that have attributes (also nodes) and child nodes. Generally, they're pretty interchangeable. A good analogy, you can think of it this way. A "node is like a fruit, an element is like an apple. An apple is a kind of fruit; an element is a kind of node."

Note: A node has a bullet to the left, it's expandable/collapsable and it's technically an element. But everything - attributes, XSLT instructions, tabular mappings, etc. are all "nodes".



To load the Target Format, click the **Open Target Format** icon.



Take a look at the desired Target Format. It is this XML structure shown here. (The **people-ages.xml** file in the distribution data folder.)

Select Format		Х
Read Format		
Format Reader:	None selected.	
	Redis	-
Reader Description:	Route Error Information	
	SQLXML Format Builder	
	VistA RPC	_
	WSDL	
	XHTML 1.0	
	XML	
	XSD (Schema)	
 ✓ 	Read Format 🛛 🖊 Cancel 🛛 🔞 He	lp

Since there is no schema, and only a sample, choose the XML option from the drop-down.

Select Format	×	
Read Format		
Format Reader:	XML	
Reader Description:	Reads custom XML file(s) and builds a format description.	
	XML Files (*)	
	elect file(s) for the format generation.	
If no file is selected, then all list will be used		
✓ Use as sample da	Add Remove	
L ✓ F	Read Format 🛛 🗶 Cancel 🛛 🕜 Help	

Next, click the **Add** button under the XML Files list.

🥶 Select XML Files	×
Look In: 📄 interfaces	▼ 🙆 🏠 🔛 🖿
1 General Quick Start Tutorial 2 Healthcare Getting Started Tutorial	
3 Healthcare Templates	
🔁 4 General Quick Start Interface	
File <u>N</u> ame:	
Files of Type: XML Files (*.xml)	
	Open Cancel

The **Select XML Files** window will open. Navigate to the distribution folder - **1 General Quick Start Tutorial.** Select and double click to open.

🛃 Select XML I	Files	×
Look <u>I</u> n: 📔	1 General Quick Start Tutorial [• 💿 🏫 ビ 🖫 🖿
data formats in lib out routes		
File <u>N</u> ame:		
Files of <u>Type</u> :	XML Files (*.xml)	•
		Open Cancel

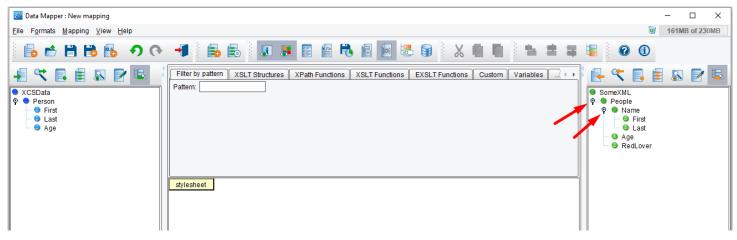
Next, select the **data** folder and double click to open.

🛃 Select XML I	Files	×
Look <u>I</u> n: 📔 (data	▼ 💿 🏫 ビ 🗄 🖿
people-age	es.xml	
File <u>N</u> ame:	people-ages.xml	
Files of <u>Type</u> :	XML Files (*.xml)	
		Open Cancel

Next, select the **people-ages.xml** file and click **Open**.

Select Format	×
Read Format	
Format Reader:	XML
Reader Description:	Reads custom XML file(s) and builds a format description.
	XML Files (*)
	elect file(s) for the format generation.
	is selected, then all list will be used eneral Quick Start Tutorial\data\people-ages.xml
<	IIIII >
	Add Remove
✓ Use as set ple da	ta source
~ R	Read Format 🛛 🎽 Cancel 🛛 🕜 Help

Then click Read Format.

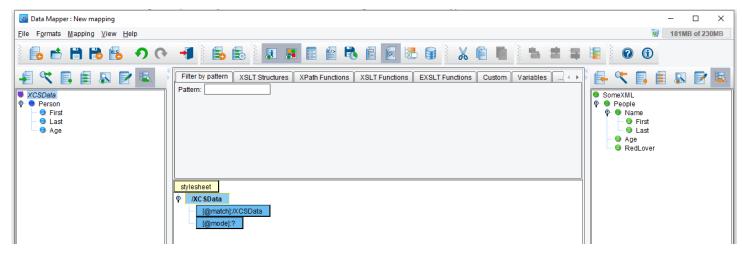


Once the Source and <u>Target</u> structures are set, create a mapping from one to another. Click the node to expand the tree.

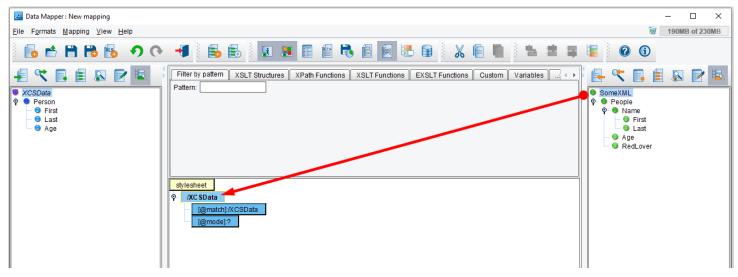
Jata Mapper : New mapping	- 🗆 X
Eile Formats Mapping View Help	3 169MB of 230MB
Image: Second	Functions Custom Variables Image: Custom Image: Custom

To begin our mapping, drag the root node of the Source Format onto the stylesheet.

TIP: Select the node, click and drag it on top of the style sheet element and release once the green circle with the + appears.

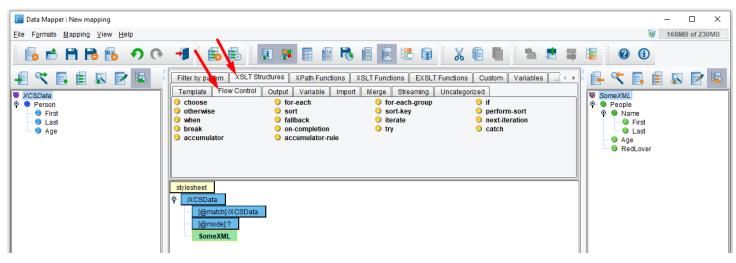


The blue XCSData element should appear under stylesheet.



Next, drag the root node of the Target format onto your newly created **XCSData** node. This indicates that we'll be creating a SomeXML tag each time we encounter an XCSData tag in our Source.

TIP: When dragging a node onto your mapping, release your mouse once the gray bar appears above the element in your mapping. This indicates the correct position.



Notice the red V that appears over the SomeXML node? This indicates it has been mapped.

In order to output a People node for each Person in the Source, select the Flow Control tab in the pallet of XSLT structures and functions above the mapping.

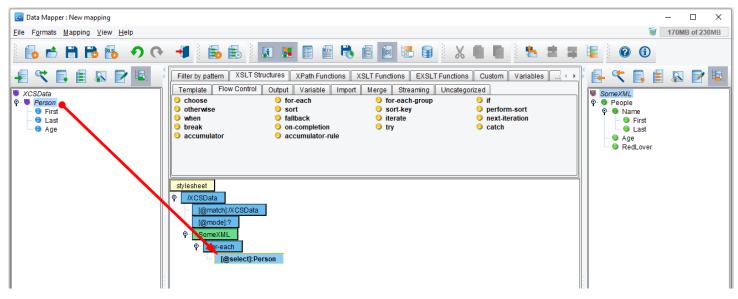
Note: The Data Mapper's XSLT palette of structures and functions allows you to do anything you can do by programming via the eiConsole's drag & drop process.

This tool palette provides a convenient location for all of these XSLT and XPath structures and functions. It allows users to drag & drop these directly into the mapping. Mousing over these palette tabs and their contents provides descriptions of what each item does.

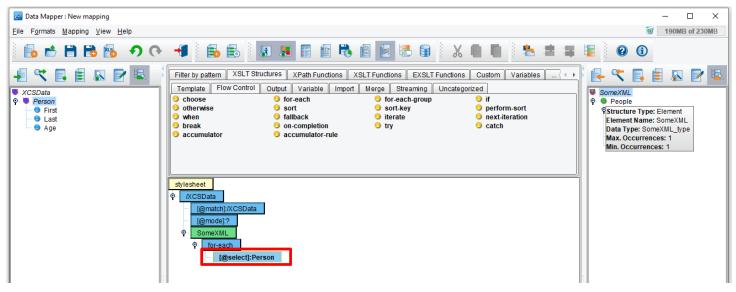
These structures allow users to perform many-to-one, one-to-many, or many-to-many mappings, manipulate string contents (concatenation, trimming, replacements), date formatting, and many other powerful operations that normally require users to write XSLT directly.

Bata Mapper: New mapping - □ × Elle Fgrmats Mapping View Help Image: State of 230MB Image: State of 230MB Image: State of 230MB				
Image: Second secon	🛃 Data Mapper : New mapping			- 🗆 X
Image: Structure in the st	<u>File Formats Mapping View H</u> elp			3 192MB of 230MB
XCSData P Person Otherwise	ि 📩 🖿 🖿 🔂 🚱 🔿 (२	📲 🗟 🗟 📕 🖪 🔮 🕇	🗞 🖻 💽 🗟 🗑 🛛 🗶 🛍 🐘 📥 🛎	s 🔋 😧
	CSData Person O Last	Filter by pattern XSLT Structures XPath Functions Template Flow Control Output Variable Im • choose • for-each • soft soft • otherwise • soft • for-each • soft • break • follback • break • otherwise • break • otherwise • accumulator-rule stylesheet • /// CSData • @match//// CSlata • @match/// CSlata • @model/? • @someXML • for-each •	XSLT Functions EXSLT Functions Custom Variables XSLT Functions Custom Variables Streaming Uncategorized for-each-group if sort-key perform-sort iterate next-iteration	Image: SomeXML Image: S

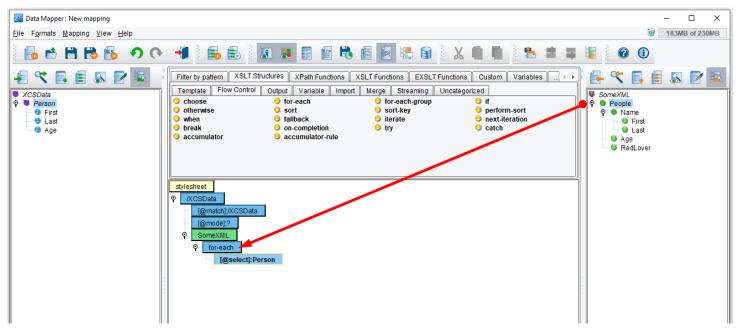
Under the **Flow Control** tab, select the **for-each** tool and drag & drop it on top of the **SomeXML** node. (Once you see the gray bar appears above SomeXML, it's in the right location and you can release the mouse.)



In order to iterate over each instance of Person in our Source, drag **Person** onto the **select** node underneath the foreach. Make sure the gray bar appears above the select node before you release the mouse. This indicates that some structure will be created underneath SomeXML for each instance of Person encountered in our Source.



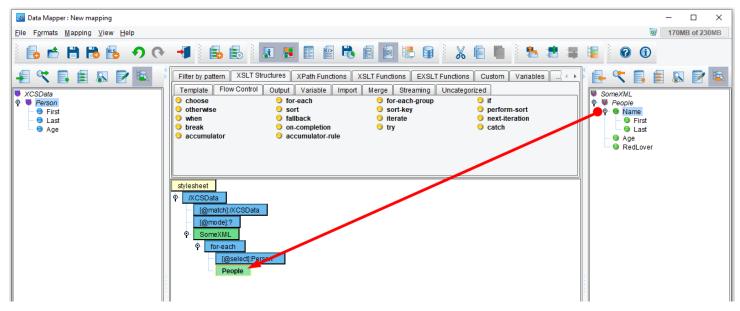
Mouse over the **SomeXML** node and click F1 to view the Help ToolTips.



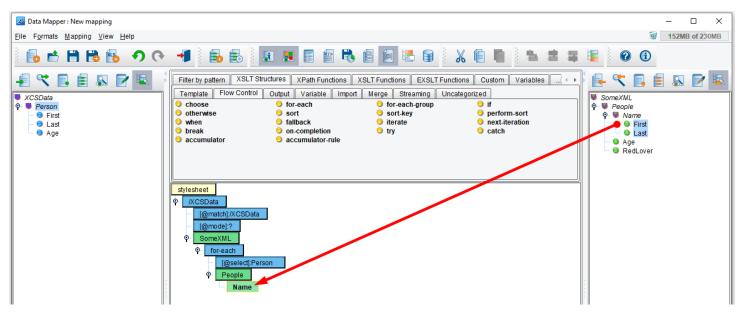
In order to generate a People node, drag this on top of the for-each and release the mouse button.

🜌 Data Mapper : New mapping		- 🗆 ×
<u>File Formats Mapping View Help</u>		3 160MB of 230MB
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XCSData P Person - First - Last - Age	Filter by pattern XSLT Structures XPath Functions XSLT Functions Custom Variables Template Flow Control Output Variable Import Merge Streaming Uncategorized Import Import Import Merge Streaming Uncategorized Import Import Import Merge Streaming Uncategorized Import Import Import Import Import Import Import Import	Image: Source XML Image: Source XML Image: Source XML Image: Source XML

The green **People** node now appears in your mapping.

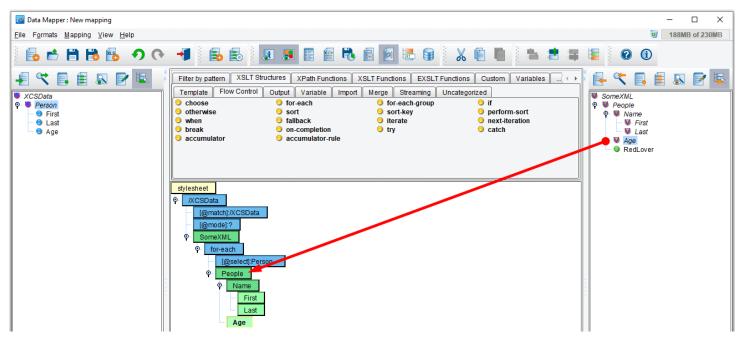


In order to create the Name, First, Last, Age and RedLover elements, do the following steps. Click the **Name** node to expand the tree and drag **Name** on top of **People**.



Then drag & drop First and Last on top of Name.

Note: You can drag elements individually or together. Select, shift click and drag.

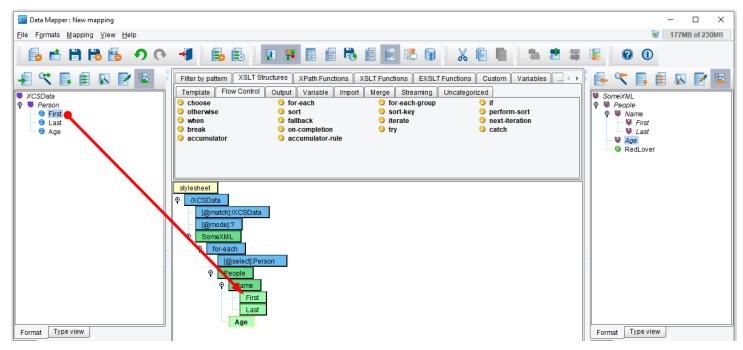


Drag & drop **Age** on top of **People**.

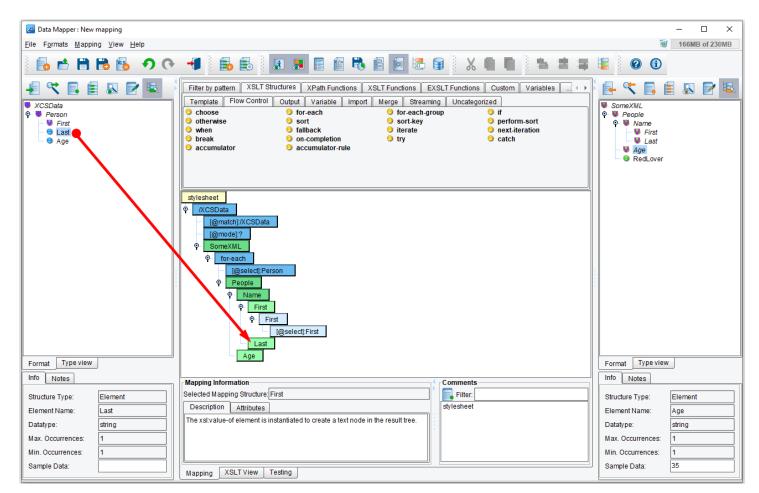
🛃 Data Mapper : New mapping		- 🗆 X
<u>F</u> ile F <u>o</u> rmats <u>M</u> apping <u>V</u> iew <u>H</u> elp		3 166MB of 230MB
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Image: Second	Filter by pattern XSLT Structures XPath Functions XSLT Functions Custom Variables + + Template Flow Control Output Variable Import Merge Streaming Uncategorized • choose • for-each • for-each-group • if • otherwise • sort • sort-key • perform-sort • when • fallback • iterate • next-iteration • break • on-completion • try • catch • accumulator • accumulator-rule • try • catch • f@model?2 • SomeXML • for-each • first • first Last Age • first Last Age	SomeXML SomeXML People Name Last Age RedLover
Info Notes	Mapping Information	Info Notes
Structure Type: Element Element Name: Person Datatype: Person_element_type Max. Occurrences: 1 Min. Occurrences: 1	Selected Mapping Structure: Age Description This mapping structure represents a 'Age' LiteralResult Element	Structure Type: Element Element Name: Age Datatype: string Max. Occurrences: 1 Min. Occurrences: 1

Even though you mapped Age onto People, Age appears in the correct position at the bottom of your mapping.

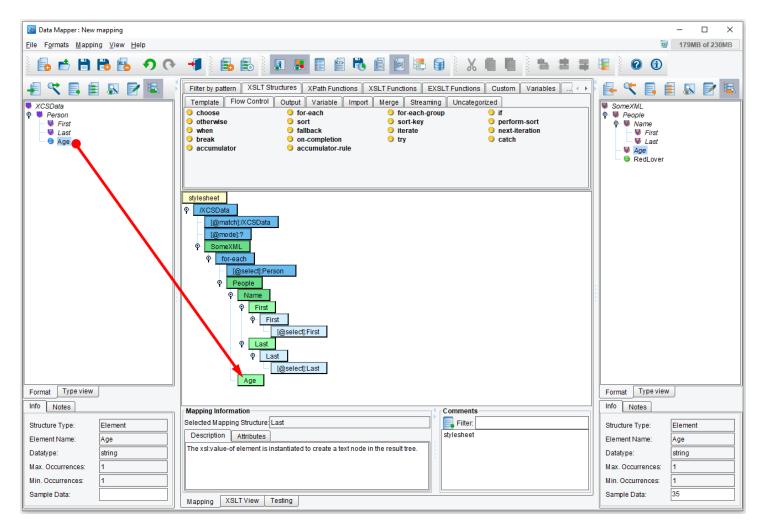
While **RedLover** is in the TargetFormat, ignore it for the purposes of this tutorial.



To map the First field from the Source onto the First field of the Target, drag **First** from the Source onto the green **First** node in the mapping.



Next, drag & drop Last from the source on to the Last element in your mapping.



Repeat the process by dragging and dropping Age from the source on top of Age in the mapping.

Zata Mapper : New mapping		- 🗆 X
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♥ XCSData ♥ Person ■ First ■ Last ■ Age	Template Flow Control Output Variable Import Merge Streaming Uncategorized • choose • for-each • for-each.group • if • otherwise • sort • sort-key • perform-sort • when • fallback • iterate • next-iteration • break • on-completion • try • catch	SomeXML P People People Pirst Last Age RedLover
	stylesheet <pre> KCSData </pre> (@match]/XCSData [@mode]? \$ SomeXML \$ for-each [@seled]Person \$ People \$ People \$ People \$ Pirst \$ [@seled]First \$ [@seled]First \$ [@seled]Last \$ Page \$ Age \$ PAge \$ Page	
Format Type view	[@select]:Age	Format Type view
Info Notes	Mapping Information	Info Notes
Structure Type: Element	Selected Mapping Structure: Age	Structure Type: Element
Element Name: Age	Description Attributes stylesheet	Element Name: Age
Datatype: String	The xsl.value-of element is instantiated to create a text node in the result tree.	Datatype: String
Max. Occurrences: 1		Max. Occurrences: 1
Min. Occurrences: 1		Min. Occurrences: 1
Sample Data:	Mapping XSLT View Testing	Sample Data: 35

Let's review what the various colored nodes represent: The blue nodes are from your source, the green from your target. Light blue elements are "childless" fields, and light green elements are "childless" elements. Dark blue and dark green elements have children (sub-elements). Attributes are always light green because they would never have children.

Other features available within the Data Mapper are:

- Information Panels
- Notes Tabs
- Type View Tabs

DATA MAPPER FEATURES – INFORMATION PANELS

Format Type view	P Age P Age I@select;Age	Format Type view	v
Structure Type: Element Element Name: Age Datatype: string Max. Occurrences: 1 Min. Occurrences: 1 Sample Data:	Selected Mapping Structure Age Description Attributes The xstvalue-of element is instantiated to create a text node in the result tree. Mapping XSLT View Testing	Structure Type: Element Name: Datatype: Max. Occurrences: Min. Occurrences: Sample Data:	Element Age string 1 1 35

The Data Mapper has three information panels. The information panel in the center provides high-level information about a selected node. It allows you to individually edit attributes for XSLT elements as well as to modify tabular mappings.

The information panels on the source and target show sample values for the selected node (called "sample data"); they also offer tabs for format descriptions and typecodes (for the ACORD standard, for example).

DATA MAPPER FEATURES – NOTES TABS

Inf	0 Notes			Info Notes	
-	0 Notes	Mapping Information	Comments	IIII0 Notes	
		Selected Mapping Structure: Age	Filter:		Ê
/	Add 🕨	Description Attributes	stylesheet		
	Remove	The xsl:value-of element is instantiated to create a text node in the result tree.			
	Show 🕨				
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	<u> </u>	Mapping XSLT View Testing	,		~

The notes tab, in source and target, allows users to associate comments with a particular node. You do this by selecting an item in the source or target, click the Notes tab, then right-click in the empty (grey) space and select Add > Define new. Then provide a name for your notes. This name applies to all notes defined by you, so you can think of it as a group (e.g. "John's Notes").

Once added to a node, you can type in the information in the Notes panel. You'll see a note icon in the source/target panel for any node you've added notes to.

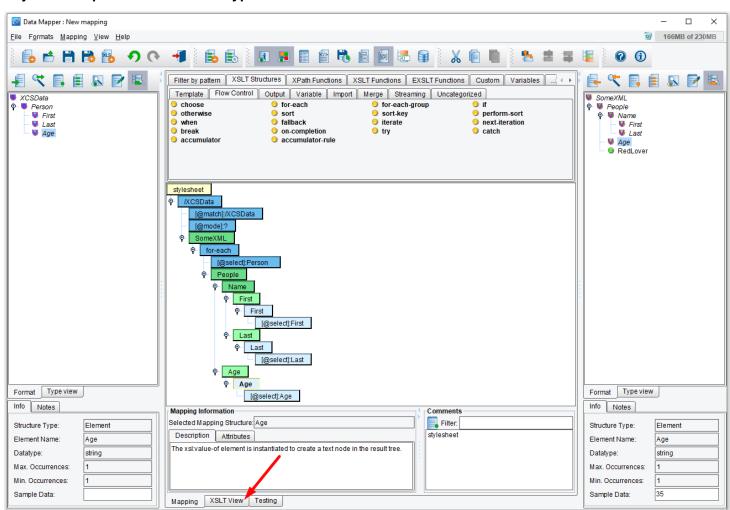
You can also right-click in that panel again to add more notes (e.g. "Consultant Notes").

The functionality of notes is that if multiple users are managing a mapping, they can use these notes to provide comments or information to one another, or just as a convenient place holder for comments.

DATA MAPPER FEATURES - TYPE VIEW TABS

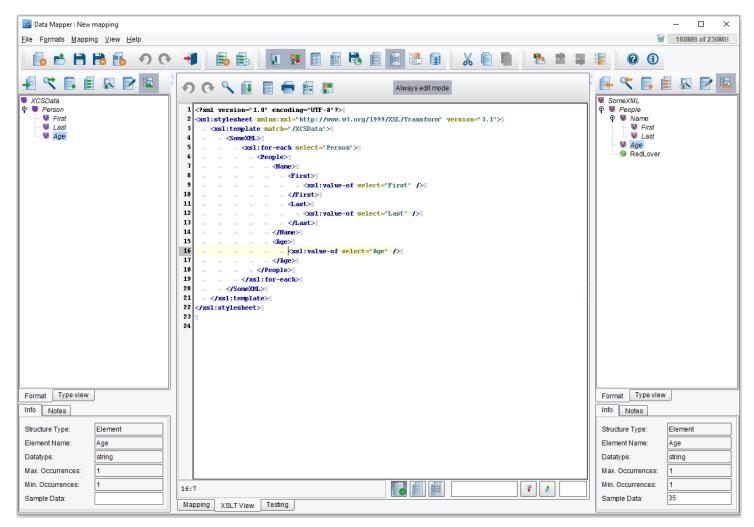
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Sample Data:	Max. Occurrences:		Max. Occurrences:
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	Sample Data:	Mapping XSLT View Testing	Sample Data:

Type view, in source and target, is mainly for schema maintenance and editing, or for users who are really familiar with the format in its raw definition. For example, very experienced ACORD users can use it to find



or just look up information about types in the ACORD model.

Click the XSLT View tab to view the generated XSLT.

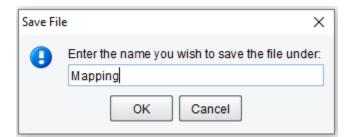


This is the XSLT generated by the Data Mapper.

Note: The Data Mapper generates, W3C compliant XSLT, in real-time, under the graphical view. There is no proprietary scripting or coding. Users can access the XSLT at any time by clicking the XSLT view tab. Should a user choose to work in the XSLT mode, the graphical view will be updated in real-time, as well. Users who wish to perform complex or specific functions not available via the eiConsole's wide range of XSLT structures and functions can leverage the virtually unlimited reference materials and many user groups on the web. Once they find what they want, they can simply copy and paste into the XSLT view.

Ze Data Mapper : New mapping					- 🗆 X
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Save your mapping by clicking the **Save Current Mapping** button.



You'll be prompted for a name in the Save File dialog. You can simply enter the name "Mapping" and click OK.

Z Data Mapper : C:\Program Files\PilotFish Techno	ology\Healthcare\interfaces\4 General Quick Start Interface\formats\People-Mapping-Transform\Mapping.xslt	– 🗆 ×
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You can then return to the console by clicking the **Return to Console** button.

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System Unnamed	4 General Quick Start Interface.My First Route.Directory	Flat-People-To-XML	My First Route	People-Mapping-Transform	Not Defined	System Unnamed	- 1
	t Profile: People-Mapping-Transform at Info Transformation Joining Advanced Comp	atibility Condit	ional Execution	rmation Module Configuration	elete Format 🛛 👘 Copy F	Format	~
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	Mapping.xslt	Common XML: Use Direct Re	e Edit		no transformation.		
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2X	SLT Engine: Saxon - XSLT 3.1						

You'll see the name of the configured mapping now appears in the XSLT Configuration area. Now, click the **Transport** icon.

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System Unnamed	Interface.My First Route.Directory	Flat-People-To-XML	My First Route	People-Mapping-Transform	Not Defined	System Unnamed	
PI	Processor Configuration Post-Processors						~
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		Transport Type:	No Module Selected	· · · · ·			
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		Transport Description:	AWS SQS Database (SQL)				
			Directory / File Email (SMTP)				
			Execute Command Line FTP / SFTP	~			

To drop the transformed XML off in a file, select **Directory / File** in the Transport Type drop-down.

Processor Configuration	Transport Configuration	Post-Processors	s
Transport Configuration	Retry Configuration		
	Transpor	t Configuration —	
	Transpo	t Name:	rt Interface.My First Route.Directory / File Transport 💼 📗
	Transpo	t Type:	Directory / File 💌 🔞
	Use Con	nmon Transport	No Module Selected
	Transpo	t Description:	Stores data as files in a specified directory.
	\varTheta Ba	sic Advance	ed
	😑 Targ	et directory:	🗟
	😑 Targ	et file name:	
	Targ	et file extension:	
	Spec	ify full file path:	Disabled 🔍 💽
	Path	to file:	🖻
	If file	exists:	Create New
	Maxi	num File Size:	-1 - Bytes

When the Transport Configuration panel opens, configure the required items. Click the **Ellipsis** button next to the Target directory configuration item.

🛃 Select targe	et directory	\times
Look <u>I</u> n: 📔	4 General Quick Start Interface 💿 🔞 🚔 🔡	0— 0—
data formats in lib out routes		
Folder <u>n</u> ame:	iology\Healthcare\interfaces\4 General Quick Start Interface\New Fold	ler
Files of <u>T</u> ype:	All Files	•
	Open Cancel	

Navigate to **4 General Quick Start Interface** directory and double click to open. Select the **New Folder** icon to create a new folder and name it **"out"**. Select it and click **Open**.

Processor Configuration	Transport Configuration	Post-Processors	3
Transport Configuration	Retry Configuration		
	Transpor	t Configuration —	
	Transpo	t Name:	t Interface.My First Route.Directory / File Transport 💼 🔳
	Transpo	t Type:	Directory / File 🗨 🔞
	Use Con	nmon Transport	No Module Selected
	Transpo	t Description:	Stores data as files in a specified directory.
	Ba	sic Advance	a
	Targ	et directory:	faces\4 General Quick Start Interface\out 🕞
	Targ	et file name: T	TransformedFile
	Targ	et file extension: 🛛	ml 🔒
	Spec	ify full file path:	Disabled 🔽 💽 🕞
	Path	to file:	
	If file	exists:	Create New
	Maxi	num File Size:	-1 -1 Bytes

The out folder is now set in the Target directory.

In the Target file name area, type in "TransformedFile".

In the Target File Extension, type in "xml".

To make the interface a bit more understandable, provide Metadata for the Source and Target system.

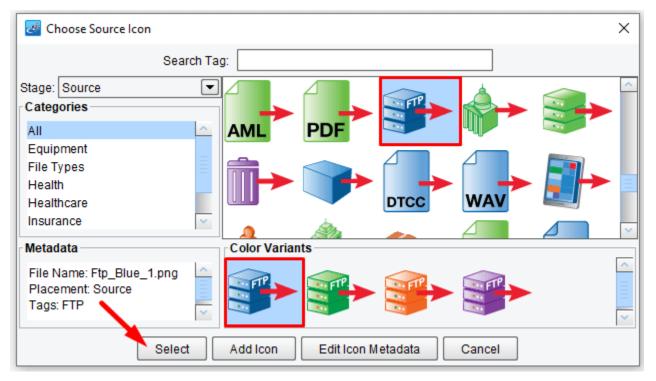
Source & Target System Metadata

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			👍 Add 🛛 🕌 Remove				

Click on the **Source System** stage and type in "Flat File Producer" in the System Name text box.

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Also, you can set different icons for each of your <u>Sources</u>. In our example, we have only one source, so let's choose an icon for it. Click on the **Choose Source Icon** button.



There is a number of icons in the Choose Source Icon dialog. Choose the FTP Server icon and click OK.

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	Source	Tag Name		Tag Value		
			👍 Add 🛛 🚜 Remove			

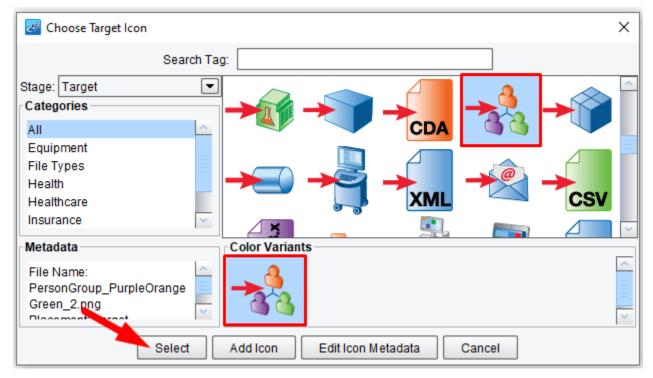
The new icon will appear in the main grid of the eiConsole.

Source System		urce Eource Transform	Move Down	Move Up Add Target Target Transform People-Mapping-Transform	Transport	Target System
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	Target	Tag Name		Tag Value		

Next, click on the Target System stage. Type in "XML Consumer" in the Target System Name text box.

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And click on the Choose Target Icon button to set a unique icon for your Target.



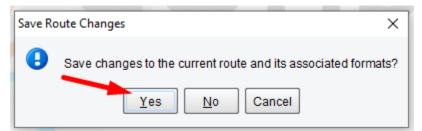
You can choose any relevant icon. We'll use the **Group People**.

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The new icon will appear in the main grid of the eiConsole.

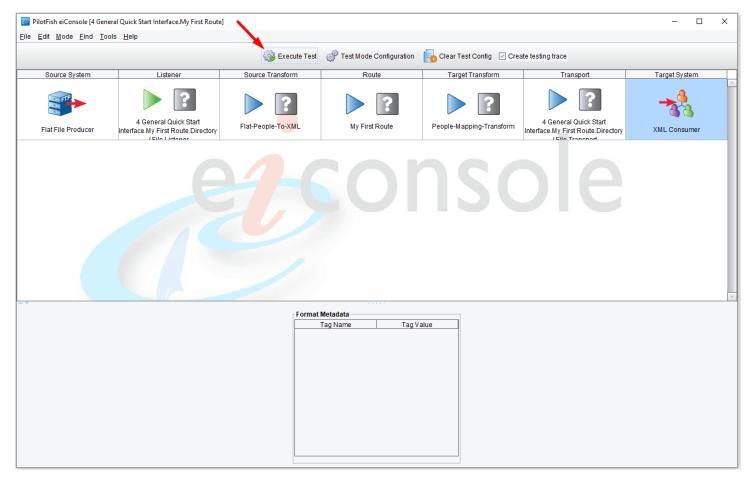
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Flat File Producer	4 General Quick Start Interface.My First Route.Directory	Flat-People-To-XML	My First Route	People-Mapping-Transform	4 General Quick Start Interface.My First Route.Directory	XML Consumer	
				ncr			

When the basic interface configuration is complete, move on to Testing Mode. From the Mode menu, select **Testing Mode**.



When the Save Route Changes pop up appears and you are prompted to save the route, click **Yes**.

Testing Mode



In Testing Mode, you'll see the arrows that indicate the path that the test may take. You can choose to start or end your test at any point. Here, start from the beginning (the Listener stage) and run the test all the way through to the end (the Transport stage).

⊗ ⊖ ⊕		🚞 data		
			Q.	
FAVORITES Dropbox All My Files AirDrop AirDrop AirDrop Dosktop Documents Downloads Movies Movies Music Pictures SHARED DEVICES	people-ages.txt	people-ages.xml		,

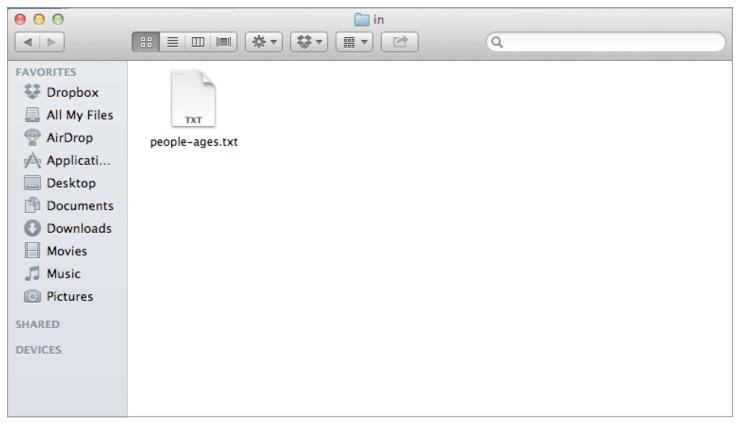
For the test, navigate to the distribution folder. Double click the **data** folder, and select the **people-ages.txt** file and copy.

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Next, navigate to the **4 General Quick Start Interface** directory or your Working Directory, double click to **Open**. Then double click the **"in"** folder to open.

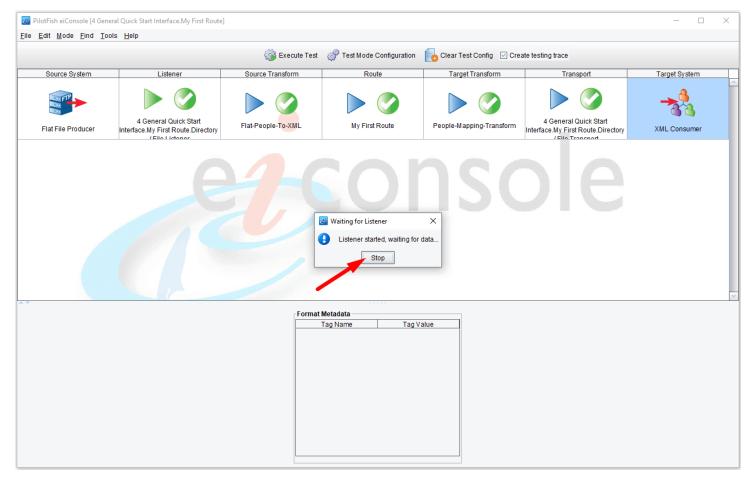
PilotFish eiConsole [4 General Quick Start Interface.My Fi File Edit Mode Find Tools Help	st Route]				- 🗆 X
	🐞 Execute Test	🖑 Test Mode Configuration	Clear Test Config 🛛 Cre	ate testing trace	
Source System Listener	Source Transform	Route	Target Transform	Transport	Target System
Flat File Producer		My First Route	People-Mapping-Transform	4 General Quick Start Interface My First Route Directory	XML Consumer
		Waiting for Listener Listener started, waiting for Stop	X or data		5
	Format	t Metadata			
		Tag Name Tag	Value		

To begin testing click the **Execute Test** button. The Directory Listener will start waiting for data to appear in the input folder.



Paste the **"people-ages.txt"** file into the **"in"** folder within the **4 General Quick Start Interface** of your Working Directory.

Within 10 seconds the file should be picked up and processed.



As the file is processed the blue question marks are replaced with green checkmarks. Had there been an error, a red x would appear in one or more of the stage cells. Click on the **Stop** button.

		🐝 Execute Test	i i est mode Com	figuration 🗧 Clear Test Config 🗹 C	reate testing trace	
ource System	Listener	Source Transform	Route	Target Transform	Transport	Target System
t File Producer	4 General Quick Start Interface.My First Route Director	Flat-People-To-XML	My First Rou	te People-Mapping-Transform	4 General Quick Start Interface. My First Route. Directory	XML Consume
[Objects within selected stage:			Festing Configuration		
	Stage Status	Stage Name S		Stage Configuration		
	4 Gen	eral Quick Start Interfa Listener		✓ Start Test Here ☐ Trace Point After Here	Skip This Stage End Test After Here	
	4 Och	and galok otarentena Elotener		Trace Point Alter Here	End rest Alter Here	
				Alternate Testing Data		
				Alternate Testing Data		
				Alternate Testing Data Source Using Listener		
				-		
				Source Using Listener		
/				Source Using Listener Stage Transaction Attributes	-	T
/				Source Using Listener	15	
		Stage Output Viewer		Source Using Listener Stage Transaction Attributes	15	X
				Source Using Listener Stage Transaction Attributes		
		Sally Jones	21	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute		×
		2 Thomas Smith	21 45	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute		×
		Sally Jones	21	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute		×
		I Sally Jones Thomas Smith Sandy Ocean	21 45	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute		×
		I Sally Jones Thomas Smith Sandy Ocean	21 45	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute Find: IX ID Stage End Stage	Fo	- X rmat As: None V
		I Sally Jones Thomas Smith Sandy Ocean	21 45	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute Find:	Fo	- C X rmat As: None V
		I Sally Jones Thomas Smith Sandy Ocean	21 45	Source Using Listener Stage Transaction Attributes Transaction Attributes Global Attribute Find: IX ID Stage End Stag 1 13:19:47.643 00:00:00	Fo	- C X rmat As: None V

You can view the data at each part of the process. When you click on a stage, such as the <u>Listener</u> stage, you can double click on any sub-stage within the Objects Within Selected Stage grid to view the output as it appeared when it exited that stage.

Here, you can see the flat file input.

PilotFish eiConsole [4 Ge	eneral Quick Start Interface.My First Ro	oute]						- 0	×
<u>File Edit Mode Find T</u>	ools <u>H</u> elp								
		🐝 Ex	ecute Test 🥳	💡 Test Mode C	onfiguration	Clear Test Config 🛛 Crea	ate testing trace		
Source System	Listener	Source Trans	form	Route	9	Target Transform	Transport	Target System	
Flat File Producer	4 General Quick Start Interface My First Route.Director	Flat-People-To	-XML	My First R	coute	People-Mapping-Transform	4 General Quick Start Interface.My First Route.Directory	XML Consumer	
	/ File Listener						/File Transport		
•	Objects within selected stage: —				Testing Con	figuration			
	Stage Status	Stage Name	Stage	Туре	Stage Conf				
	Delin	nited and Fixed-Width F	Transformation			int After Here] Skip This Stage] End Test After Here		
	Forki	ng	Forking		- Alternate T Source				
					Stage Tran	saction Attributes			
						on Attributes Global Attributes	1		
						Key	Value		
					Edit	or 🦉 Import From File	😵 Remove 🛛 🗶 Remove	All	
					Test Results	Stage End Stage 13:19:47.660 00:00:00.01 13:20:17.601 00:00:00.00	7 2.05 Succ 8 14.81 Succ	ess	
						View Stage	e Output		

Click on the Source Transformation stage. Double click the **Delimited and Fixed-Width** row to view the output.

🛃 Stage Output Viewer	– 🗆 X
Image: Second	Format As: XML 💌
1 xml version="1.0" encoding="UTF-8"?	^
2 _□ <xcsdata></xcsdata>	
3 _□ <person index="1"></person>	
4 <first index="1">Sally</first>	
5 <last index="2">Jones</last>	· · · · ·
6 <age index="3">21</age>	
7	
8 ← <person index="2"></person>	
9 <first index="1">Thomas</first>	
10 <last index="2">Smith</last>	
11 <age index="3">45</age>	
12	
13 → <person index="3"></person>	
14 <first index="1">Sandy</first>	
15 <last index="2">Ocean</last>	
16 <age index="3">37</age> 17	
17 18	
19 (XCSData)	
20	
20	
	×

Here, you can see the data after it's been converted to XML. Choose the XML format.

		÷	Execute Test	💣 Test Mode	Configuration	Clear Test Config 🛛 Cr	eate testing trace	
Source System	Listener	Source Tra	ansform	Rou	ite	Target Transform	Transport	Target System
Flat File Producer Interface.My First		eral Quick Start First Route.Directory		-XML My First Route		People-Mapping-Transform	4 General Quick Start nterface.My First Route.Directory	XML Consumer
r	Objects within selected stag	Je:			Testing Cor		_	
	Stage Status	Stage Name	St	tage Type	Stage Con			
		XSLT-Mapping.xslt	XSLT		Start Te		Skip This Stage Science Scien	
		Joining	Stage (Dutput Viewer		Find:	× •	Format As: XM
		No Transformation	2 : <50me 3 : 4 : 5 6 7 8	<pre><people></people></pre>	st>Sallyt>JonesAge> st>Thomas /f<br t>SmithAge> st>Sandy <td>rst> t> irst> t></td> <td></td> <td></td>	rst> t> irst> t>		

The data was routed along towards our one Transport. If you click on the Target Transformation stage, you can double click the **XSLT** stage to see the transformed data. It will be in the SomeXML structure with People tag, Name sub-tag, with First and Last name tags as children.

ame	↑ Ext	Size	Date	At
È []		<dir></dir>	19.01.2017	14:33-
TransformedFile	xml	301	19.01.2017	14:33 -a-
4				

Finally, the Transport deposits the TransformedFile.xml file in the selected Out folder.



Double click the file to open. Notice the file named TransformFile.xml has been written to the disc.

∠‡ I	PilotFis	h eiCon	sole [4	General	Qui	ick St	art Interfa	ace.My	First Ro	oute
<u>F</u> ile	<u>E</u> dit	<u>M</u> ode	<u>F</u> ind	<u>T</u> ools	H	elp				
🛃 File Management 🔍 🧲 tri-F										
🗎 Save Current Route 🛛 🖏 S										
Test Mode Configuration							Liste	ener		
💝 Reload Route From Disk										
Switch Route Ctrl-F				R 📄 🦳						
📩 Open in System Explorer										
	Quit			Ctrl-C	-		General C			
	i iai	Therro	uucer	1	nte	rtace	My First			ry

Lastly, go to the File menu and select File Management to return to the Route File Management window.

Deploying an Interface

🜌 Route File Management	-	
<u>File Edit View Find Tools H</u> elp	E	
File Management		
😢 Healthcare [C:\Program Files\PilotFish Technology\Healthcare]	💌 🕼 Create New 📲 Browse	🗊 Remove
Basic View		
Interface Overview: eip-root/4 General Quick Start Interface]
Name		
A My First Route		LØG)
	Radd Route 🛛 😵 Add Interface Package 🖉 Configure Common	n Modules
		1
	- Quit ei	Console 🕜

When the Route File Management window opens, you'll see the icon next to **My-First-Route** is now blue indicating it is a fully configured interface. Typically, if you wanted to deploy this interface into production, you'd connect to your

eiPlatform server and drag & drop the interface into the eiPlatform server window to deploy.

Note: An eiPlatform server needs to be configured in order for this option to be visible in the above window.

Now you have completed the Quick Start Tutorial and have learned the basic topology of the eiConsole you can move on to more complex tutorials:

• General Getting Started Tutorial

Or choose an industry-specific tutorial:

- Healthcare Getting Started Tutorial
- HR-XML Getting Started Tutorial
- Insurance Getting Started Tutorials (LAH & PCS)
- OpenTravel Getting Started Tutorial

The industry-specific tutorials will teach you how to leverage the many standards-specific features and components that make the eiConsole a powerful tool for interface building, management and maintenance for each industry. Or you can also browse through the topics in <u>General User Reference Level I-IV</u> for more advanced interface configuration documentation and tutorials.