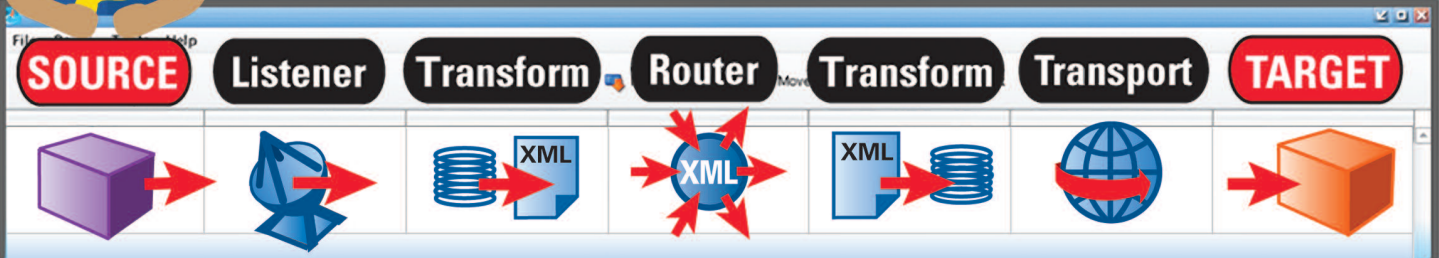




## PilotFish Automated Graphical Interface Assembly Line

*The Key to Transformational Change in Your Integration Strategy*



The assembly line is one of the greatest transformational innovations of the American economy. Now PilotFish's Automated Graphical Interface Assembly Line can transform how integration gets done in your organization. Additionally, PilotFish's tools allow the user to easily understand and navigate HL7 and EDI messages with its user-friendly names and in line documentation. Within the eiConsole, interfaces are rapidly built, managed and maintained with automated functions at each of the Assembly Line's 7 stages. Implementation times are slashed with reuse made possible by component-driven architecture and automated features and functions. Resource costs decrease significantly, as non-developers and business analysts can do up to 80-90% of your interface work. Here's a look at how the Automated Graphical Interface Assembly Line can help you create interfaces at lightning speed.

Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System
HL7 ADT	Not Defined	Relay (System Format)	XML	XML	Globe	HL7 ADT

System Info  
System Name  
HL7 ADT

Choose Source Icon

### 1 Automation Begins at the Source System Stage

Start your interface by selecting the Source System stage. The System Info panel opens where you can name your Source System. No matter what data source you are working with whether it is HL7, EDI, FHIR, JSON, XML, etc. The same process

is followed. At the Source System stage, you can click on the Choose Source Icon to select a representative icon from a library of hundreds of icons or add your own custom icon. (You can have as many Source and Target systems as you wish.)

Source System	Listener	Source Transform	Route	Target Transform	Transport	Target System
HL7 ADT	HL7 ADT to DB.HL7 LLP Listener	Relay (System Format)	HL7 ADT to DB	XML	Globe	HL7 ADT

Listener Configuration Processor Configuration

**Listener Configuration**

Listener Name: HL7 ADT to DB.HL7 LLP Listener

Listener Type: HL7 LLP

Listener Description: Monitors a specified TCP socket for HL7 messages

Basic Advanced Mode Compliance

Port: 80

Synchronous:

### 2 Automated Connectivity with Your Source System

A configuration panel lets you choose from a drop down with several dozen pre-built communications protocols, including every popular one you'll ever need. Each has its own custom panel with just a few fields to fill out.

Click the Processor Configuration tab for access to nearly 140 processors in the drop down – including Compression, Encryption, Authentication and Audit. These perform operations that affect all of the incoming data. Processors may be layered in any order to meet virtually any data manipulation requirement. These Processors can be easily reordered to match the order of execution for your interface for maximum flexibility. You may also create a custom processor using a simple, well-documented API. Here too, each has its own custom panel that requires a minimal amount of effort to configure.

Listener Configuration Processor Configuration

**Processor Configuration**

**Add Processor**

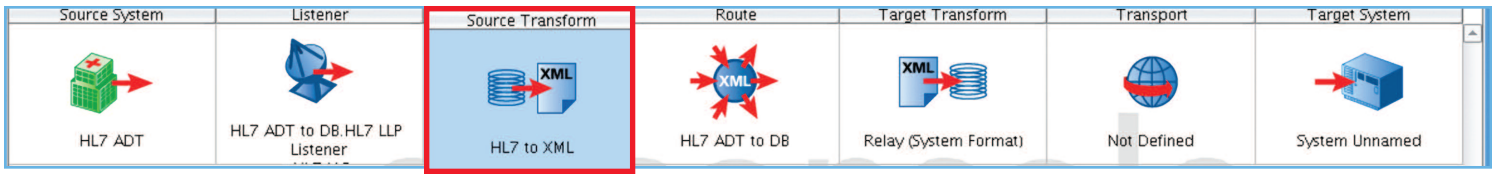
Processor Name: le Sources to Reporting and Analytics.Processor

Processor Type: Compression (ZIP)

Use Common Processor: Compare to Reference XML File

Common Processor: Compression (ZIP)

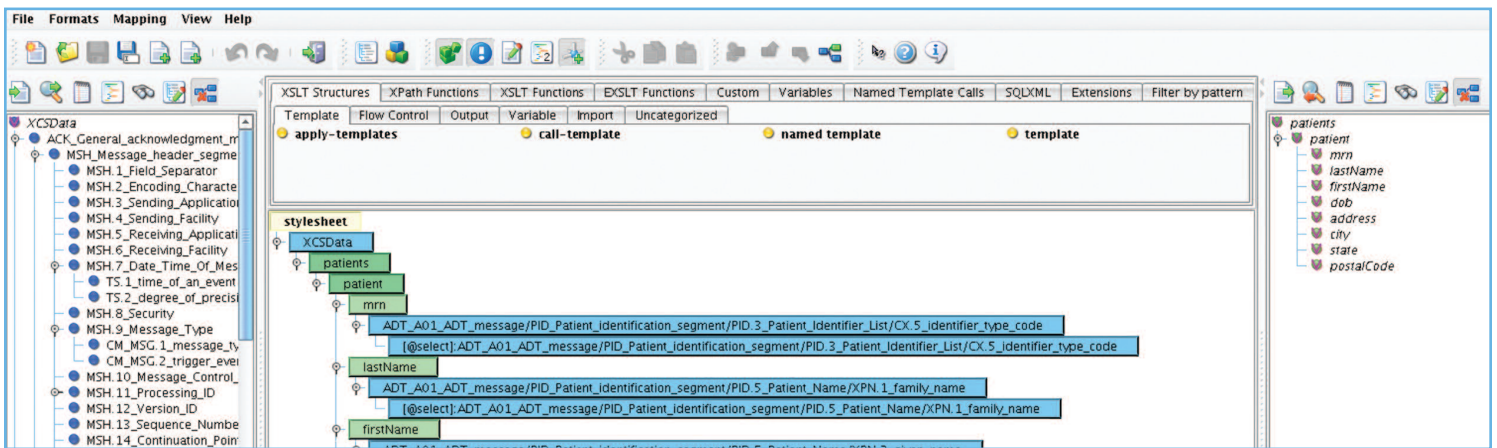
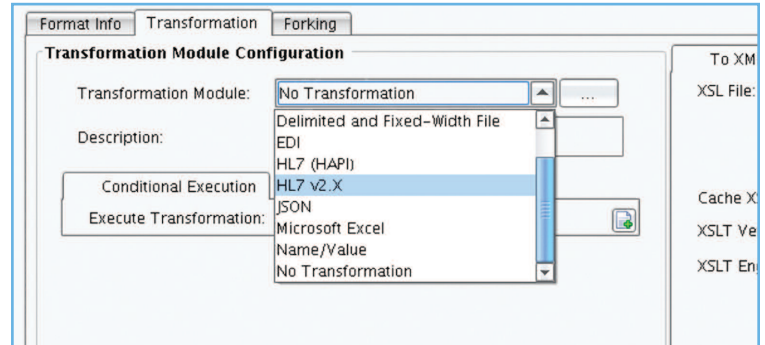
Processor Description: DICOM Input Processor, DICOM Output Processor, DOC Text Extractor, Dashboard Indexed Data Processor, Data Attribute Swapper Processor, Decompression (ZIP)



### 3 Automated Transformation from Your Source System

Reading in data from a proprietary format or a format exported by a Source System is quickly accomplished with built-in transformation modules and format builders available via a drop down. Configuration is an easy process. A partial list includes:

- Delimited & Fixed-Width File
- EDI Transformation Module
- XLS / XLSX
- XSD Format Builder
- Database Format Builder
- EDI Format Builder
- ACORD Transformation Module
- HL7 Transformation Module
- XML
- CSV



### Automated Graphical Data Mapping

Achieve even the most complex data mapping with an automated, graphical, 3 pane, drag & drop data mapper. No coding or scripting is required. The built-in palette of XSLT structures and functions allows you to accomplish anything you can do programmatically via drag & drop – including XPath and XSLT Functions, Iteration, Conditional Logic, String Manipulation, etc. Macros make it easy to do common mapping tasks, too.

Users also have the option of working in the Data Mapper both in the graphical and XSLT view, in real-time. The XSLT Transformations created using the Data Mapper are W3C-compliant. They can be saved to the interface configuration files to be deployed to the eiPlatform, or exported and integrated into other systems, platforms, or workflows that support XSLT transformations.

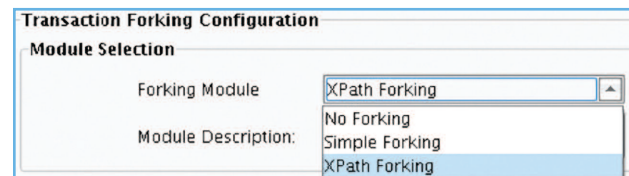
### Automated HL7 Data Mapping Features

- Transform cryptic HL7 field names to “friendly names” by checking off a box.
- Automate mapping between slightly incompatible HL7 messages and matching fields so the user only needs to work with the remaining deltas.
- Automatically read in non-standards compliant HL7 with a click of a button and parse unknown segments to capture the data for subsequent transformation and manipulation.

### Automated Implementation of a Wide Variety of Workflow Patterns

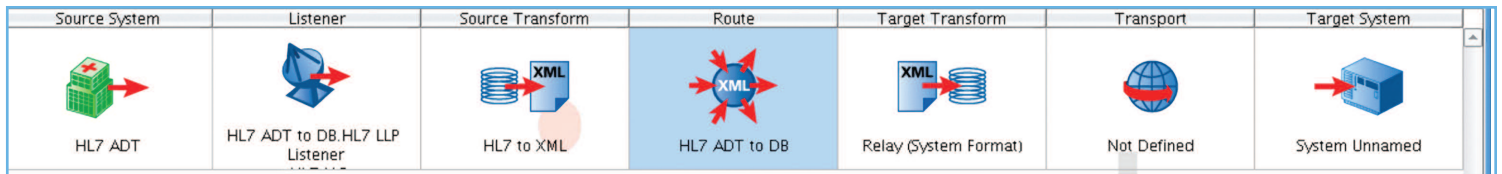
Oftentimes, automation of a business process requires more than simple point-to-point integration of Source and Target Systems. To accomplish this, PilotFish supports the implementation of a wide variety of the workflow patterns common to more complex business process modeling (BPM) scenarios. The supported patterns include (but are not limited to):

- Sequencing
- Splitting
- Merging
- Branching
- Conditional Logic
- Iteration



PilotFish automates Workflow Patterns with a number of pre-built Modules (each with simple configuration panels) including:

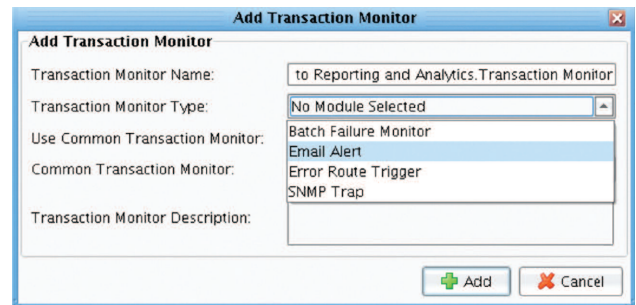
- XPath and Attribute based Module
- Parallel Split or Forking Operation
- Process Orchestration Module



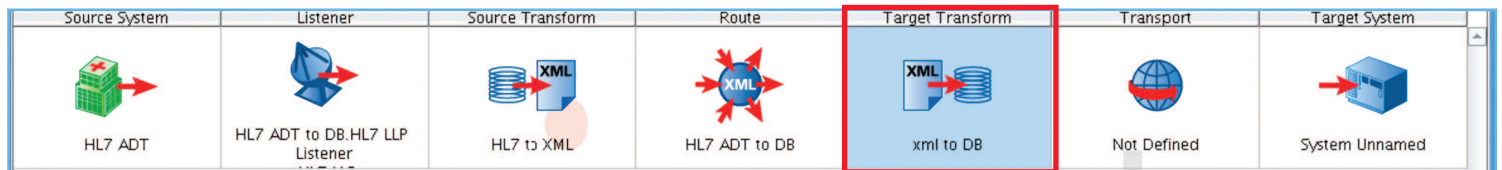
#### 4 Automated Routing & Error Handling

In the Route stage you can maintain general metadata describing the Route, specify routing rules and configure Transaction Monitoring. You can also turn on and off transaction logging and debug tracing. A number of different mechanisms for Transaction Monitoring are included and are automated with pre-built configuration panels. These include:

- Email Alert Monitor
- Error Route Trigger
- SNMP Trap
- Batch Failure Monitor
- Transaction Processing Monitor



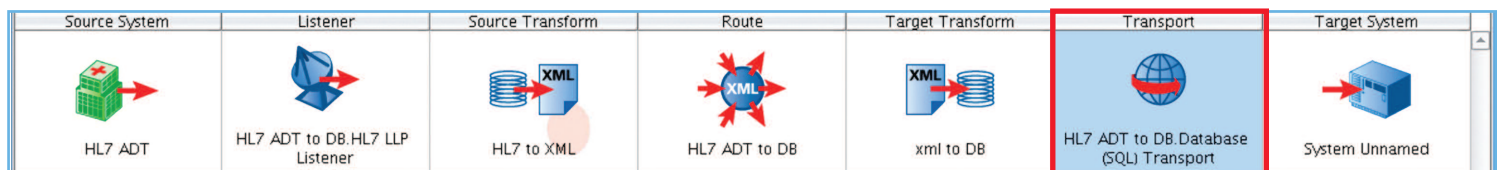
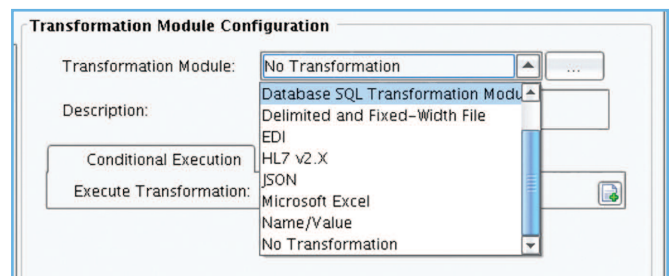
NOTE: Anywhere you see a drop down, you have the ability to extend the options using a simple, well-documented API.



#### 5 Automated Transformation to Your Target System

As in the Source stage, the Target Transform stage offers automated data transformation. Transforming data from the canonical format to a proprietary format (or a format accepted by a Target system) is easily accomplished with built-in transformation modules and format builders. These also have pre-built, easy-to-fill out configuration panels. A partial list includes:

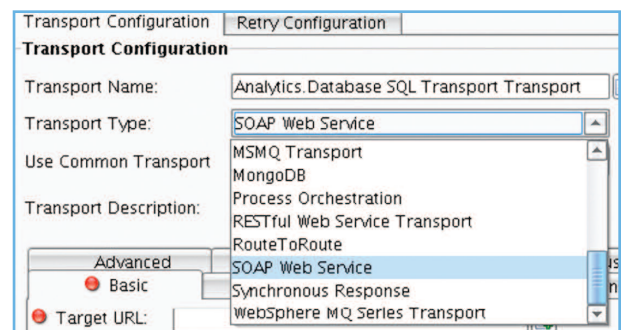
- Database SQL Transformation Module
- Delimited and Fixed-Width File
- EDI Transformation Module
- HL7 v2.X Transformer
- Microsoft Excel Transformer

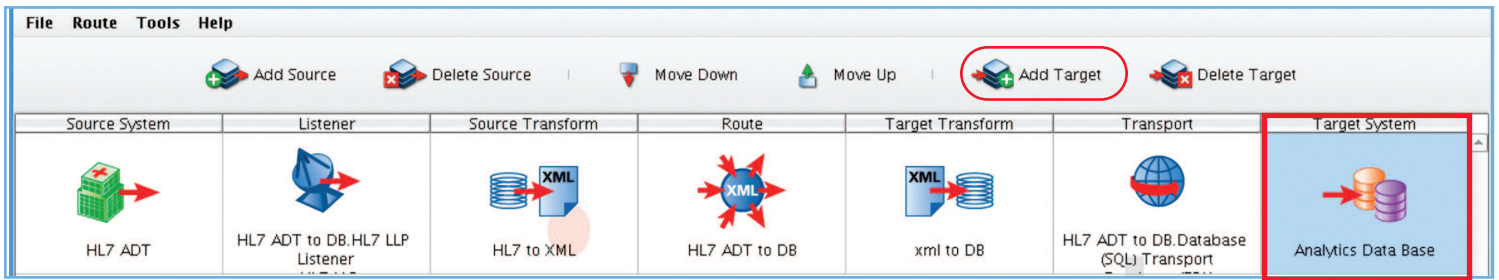


#### 6 Automated Connectivity with Your Target System

PilotFish automates connectivity to your Target system with over 3 dozen popular Transport Adapters (or add your own with our Open API). Each has a pre-built configuration panel making it easy to connect to any system. Some include:

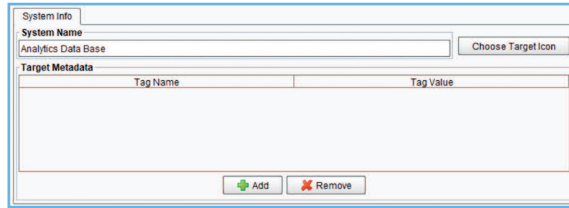
- Database Table
- Directory
- Email (SMTP)
- FTP
- HTTP Post
- HL7 LLP
- Message Queues (JMS/MQ/Rabbit MQ/MSMQ)
- RESTful Web Service
- SOAP Web Service





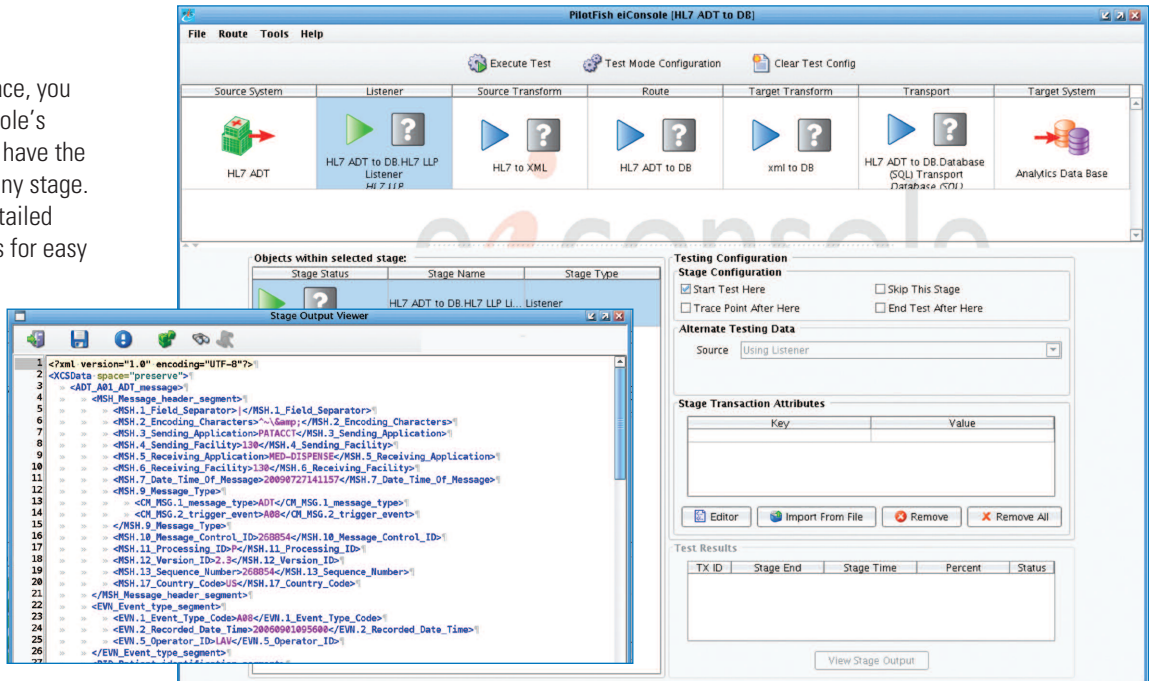
### 7 Automated Adding a Target System

Select the Target System stage. The System Info panel opens where you can name your Target System. Here, as on the Source System stage, you can click the Choose Target Icon to select a representative icon from a library of hundreds of icons or add your own custom icon.



### 8 Automated Inline Testing

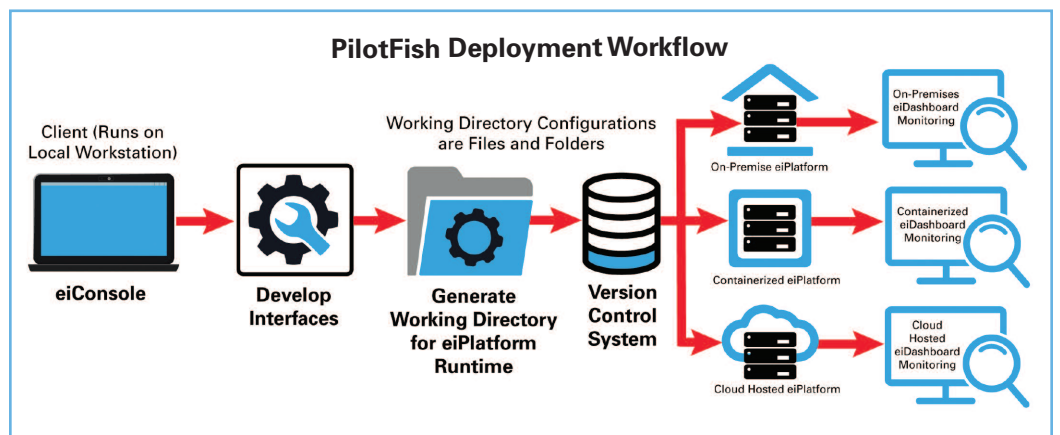
Once you've configured your interface, you can test it end-to-end in the eConsole's automated testing component. You have the option to start and stop testing at any stage. Testing automatically generates detailed error messages of any failed stages for easy analysis. You may also view the data output at each stage as the data undergoes the transformation process.



### 9 Automated Deployment

Once an interface has been tested from end-to-end, the final step is deployment to an eiPlatform runtime environment. The completed interface is saved as a set of discrete, easily managed configuration files and folders.

The eiPlatform runtime can be deployed on premises, in the cloud or even in containerized configurations. This provides users with the ultimate in flexibility and scalability.



Speed up your integration process. Automate now! Call us for a free evaluation on what our Automated Graphical Interface Assembly Line can do for you.

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