A batch workflow showing EDI 837 from a Trading Partner, ingested and traversing through the PilotFish SNIP Validation Processor then into an Internal DB which generates an EDI 999 and an EDI 277. The EDI 275 and EDI 835 from the Trading Partner's Source System is ingested by PilotFish as an individual bill with saved attachments and payments then transported as a JSON inquiry to the database which yields supporting info during data processing.

EDI X12 Integration Poses Complex Challenges

Extensive exchange of complex HIPAA X12 transactions is a rising trend across the healthcare industry. The surge in the number of end-users, such as payers, providers, HIEs, state agencies and others, is fueling the demand for EDI services or solutions. Companies face the challenges of building, managing and maintaining a daunting array of X12 EDI, XML and proprietary interfaces. The difficulties and pain points are numerous.

The Flexibility to Connect Anything with Anything

As a select distribution partner of X12 with access to X12 standards artifacts, PilotFish can deliver the industry's most robust solution for rapid and efficient parsing, mapping, validation and/or production of any X12 standards message.

PilotFish's EDI-specific, productivity-boosting components automate and strip away the technical complexities of exchanging X12 EDI messages. Out of the box, PilotFish effortlessly handles trading partner versions of X12 transactions, X12 HIPAA data formats and rules, conversion to XML, output in any format, and supports any communication protocol required. Using PilotFish's simple graphical automated interface "assembly line," implementers can integrate anything to anything – including legacy and new technology that may have been developed using different data models, designs, or architectures.

The Ultimate Solution for EDI Integration

EDI end users in virtually every area of healthcare can immediately benefit from PilotFish's unified and automated approach to X12 EDI transaction processing. PilotFish integration engine solutions streamline data exchange and integration across the entire healthcare delivery system. PilotFish converts documents to XML, which provides improved parsing, transformation, validation and greater interoperability with other systems. PilotFish offers rules generated from X12 documentation included directly within its validation processor, highly scalable and tunable multi-threaded framework execution of validation rules as well as external code set testing (SNIP level 5). Also, additional rules can be created for SNIP 6 and 7 service and customer-specific rules using the tool's XML rules format.

PilotFish's advanced capabilities provide superior accuracy, efficiency, flexibility, and scalability for a streamlined and customized validation process. PilotFish's optional external code set maintenance program provides additional value by eliminating the tedious burden of ongoing maintenance.

Comprehensive and Accurate SNIP Validation

- In SNIP Level 1-3, rules are automatically derived directly from the implementation guide schema for a one-to-one match, ensuring syntax and standards consistency.

- For SNIP Level 4, others validate only a partial set of semantic rules. PilotFish validates a much more complete set of semantic rules as defined in the X12 EDI implementation guides.

- For SNIP Level 5, PilotFish validates against all external code sets, flags errors for remediation.

- Levels 6 and 7 are configurable to support trading partner-specific Code Sets and implementation guidelines set by the trading partner.

- PilotFish allows testing every transaction sent or received to validate transaction compliance.

Visit Our Website to Download a FREE 90-Day Trial

Ease of EDI Integration for BCBS Licensee - This payer faced an increasingly complex regulatory environment and multiple integration challenges derived from the need to coordinate and streamline a vast array of services, interact with a diverse set of stakeholders and data, and adhere to numerous regulations and reporting requirements. PilotFish helped them meet these challenges with an easy migration path and measurable productivity and efficiency gains.
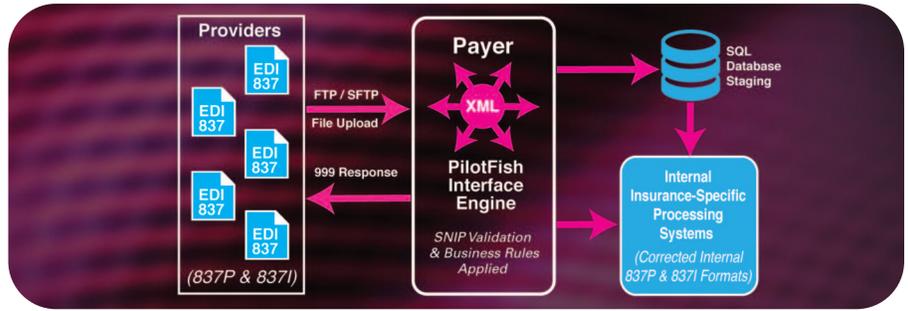
Healthcare Claims Accuracy Solution and Payment Integrity – Extensible software, a forward-thinking approach, and the ability to run billions of claims across policies, networks, and markets from one platform deliver lower costs and higher quality for healthcare payers. Learn about this new hybrid, a cloud-based central platform aiming at all aspects of payment integrity – claims accuracy, eligibility and verification, prior authorization, pricing and plan optimization, and more.
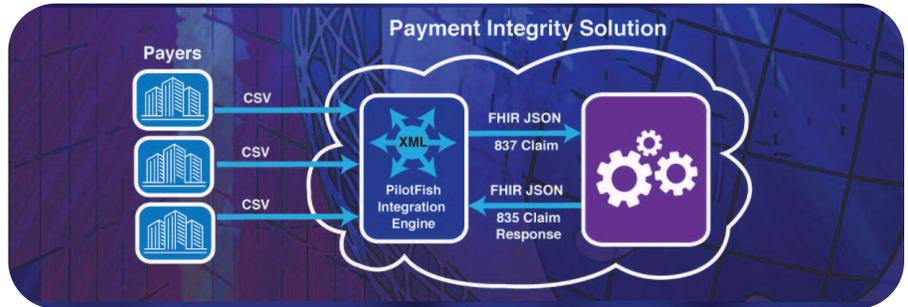

Healthcare Revenue Recovery Solution - The client processes using advanced data science tools was bogged down by a weak link – EDI data intake. Their home-grown parser couldn't handle ingesting millions of EDI 835 and EDI 837 transactions. PilotFish's built-in EDI parser surpassed the client's home-grown parser across every metric. The client's hospital system customers were the big winners in this revenue recovery automation.
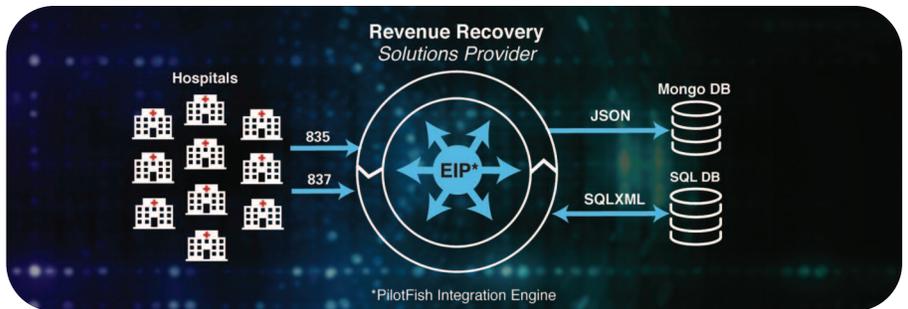
NCPDP Integration Solution - TPAs leverage NCPDP standards for information exchange to process and administer employee healthcare and pharmacy benefits and claims. To manage and drive down healthcare costs, employers turn to TPAs to create and administer employee benefits plans by partnering with PilotFish, this TPA automated and standardized processes vital to meeting their client demands and their own aggressive growth targets.
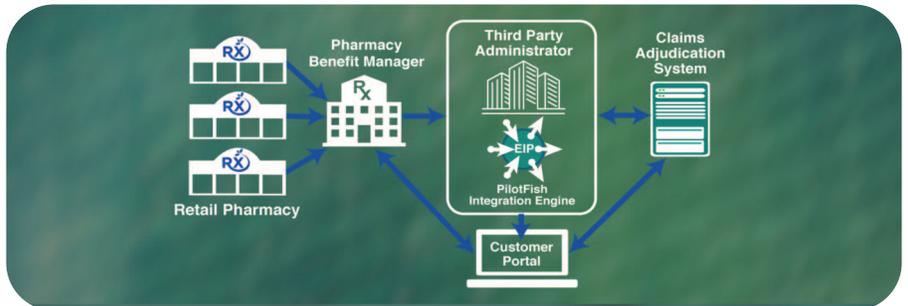
**X12N EDI Specialty Healthcare Integration** – This leading plan provider was experiencing rapid growth. PilotFish's built-in support for all X12 EDI HIPAA transaction sets and superior capacity for validation of SNIP Levels 1 through 7 (utilizing a hyper-speed Validation Processor) were key factors for its selection. Instant SNIP Level 5 validation against 37 External Code Sets comprised of millions of individual codes, helped this payer quickly achieve their goals.
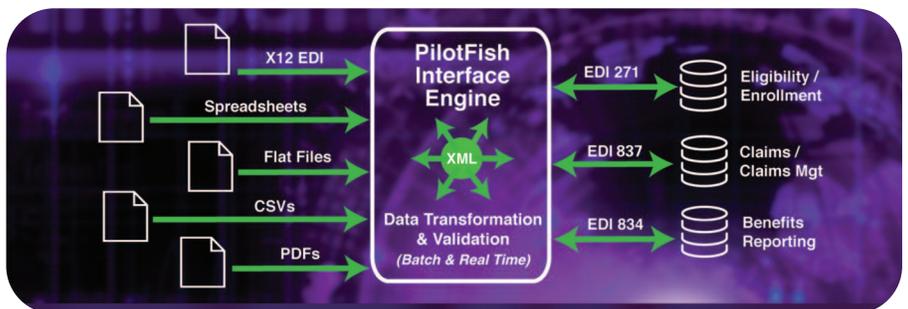

Health Information Exchange – Healthcare Claims Clearinghouse and HIE utilized PilotFish to re-engineer and transition its claims processing architecture. PilotFish was used to create a framework capable of effectively handling the connectivity, data manipulation, and validation to replace their legacy implementation. The effort included implementing several hundred unique data flows, providing a secure gateway for electronic data exchange.
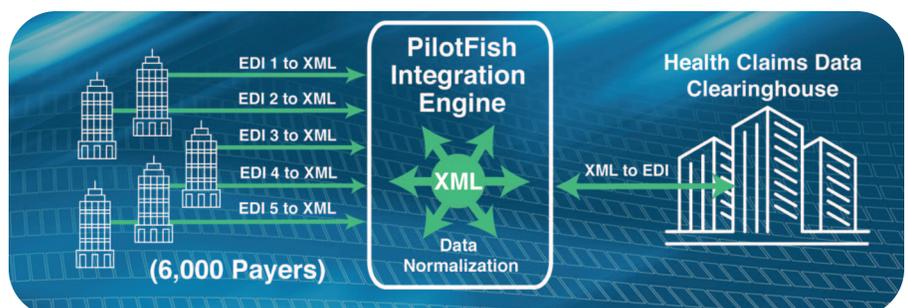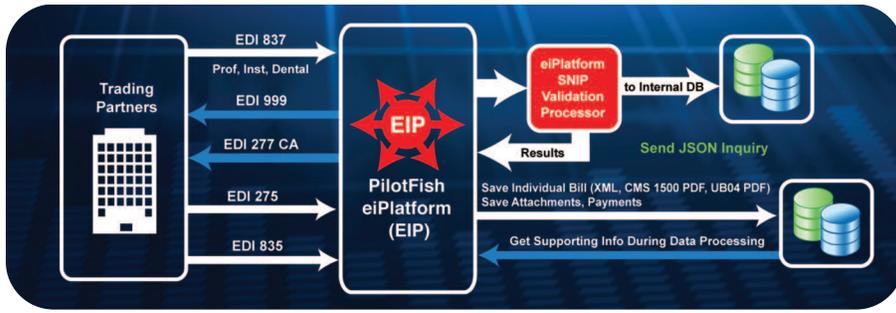
EDI Workers' Comp Claims System – PilotFish's robust, modern EDI integration solution replaced the client's current sunsetted EDI integration system end-to-end. The company gained advanced SNIP validation of types 1-7 with superior accuracy, efficiency, and scalability. Faster, cost-effective closure of workers' comp claims improved profit margins. PilotFish's top EDI technology and EDI expertise delivered big results.
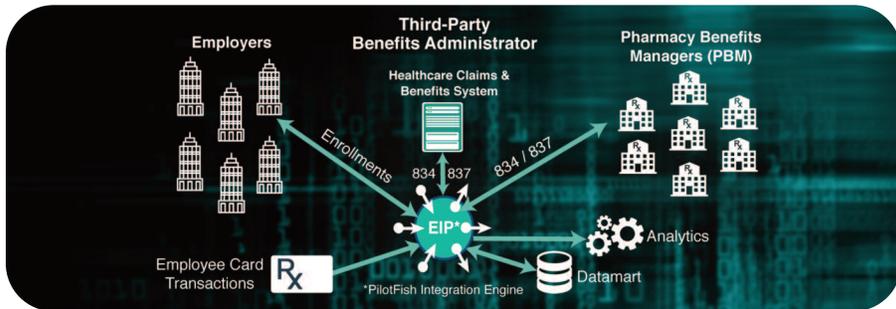
EDI 834 and 837 Claims Integration - This full-service third-party benefits administrator is a leader in the self-funded employer benefit health and wellness plan space. The company provides employers with strategic benefits plan design, cost-effective benefits administration, and reporting and analytic services. By partnering with PilotFish, they've been able to capitalize on plan, utilization, and claims data to help their customers balance and control costs.
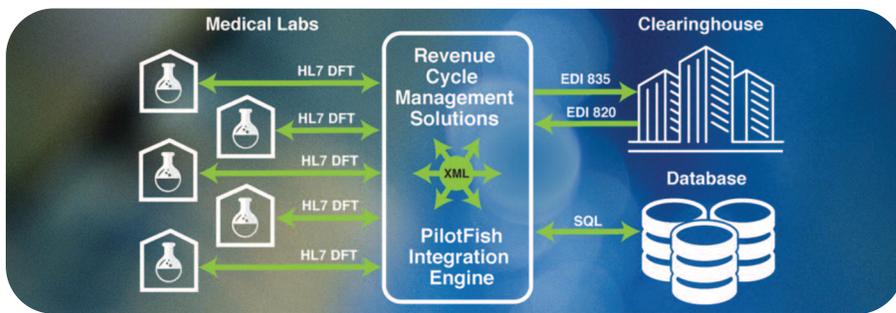
Revenue Cycle Management – A clinical laboratory billing and collection company leveraged PilotFish to initiate automation. Decoupling interface logic from their core application made the client's conversion between claims processing systems seamless. They configured interfaces to process binary image attachments that are embedded within HL7 messages as Base 64-encoded strings, eliminating the previous very manual effort.
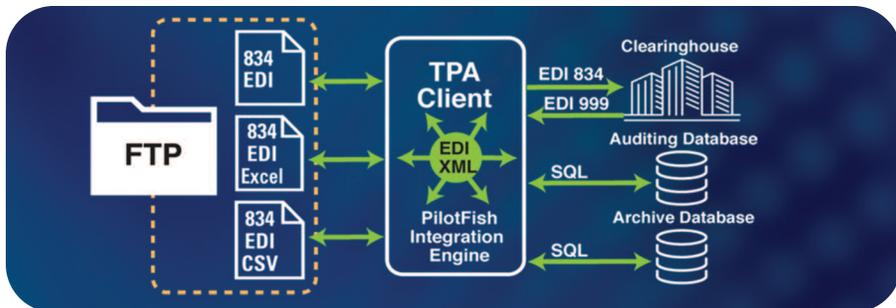
Third Party Administrator - Full-service TPA develops sustainable employee benefits plans that decrease healthcare costs for its members. PilotFish stripped away the technical complexity of parsing, validating, mapping, and producing all EDI HIPAA files. It streamlined and automated the handling and processing of member EDI 834 Enrollment and Maintenance data at scale while meeting the company's goals to inaugurate 100% consistency and error checking.
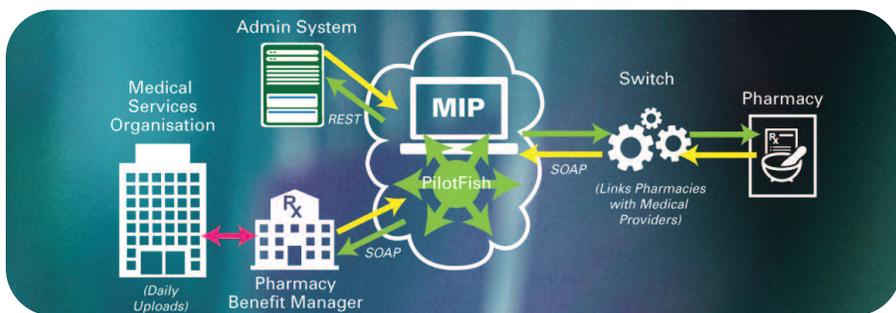
Claims Processing in Real-Time - PilotFish, with innovative technology, as well as extensive implementation and integration experience, delivered a winning solution to meet a client's demanding pharmacy benefit delivery requirements. This organization, which offers claim processing services, was able to leverage PilotFish's services and integration solution to reduce its implementation times by 75% – from 16 weeks to just four weeks.
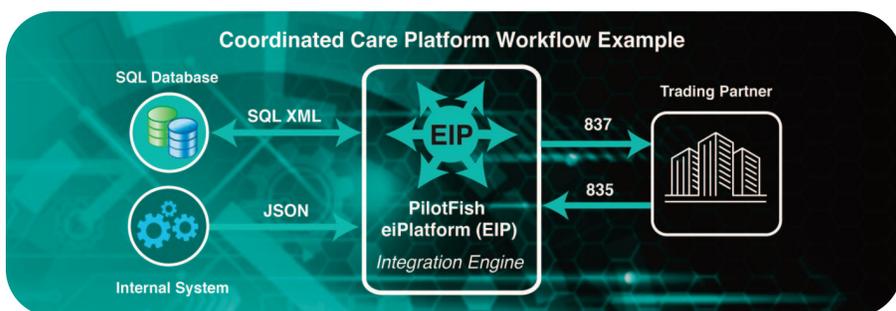
Care Delivery Model Succeeds with PilotFish – Payers, providers, and service partners struggle to navigate the disparate processes, standards, and systems required to integrate social care, behavioral health care, and medical care. With PilotFish's exceptional capabilities in the bi-directional data exchange of HL7 FHIR and X12 EDI, this transformative leader was able to move forward to tame complexity and ensure seamless data interoperability.

SUPPORTED PLATFORMS
Windows
Linux / Unix / AIX / HP-UX
Mac OSX

SUPPORTED APPLICATION SERVERS
Windows Service
Apache Tomcat
JBoss / WildFly
WebSphere Application Server (WAS)
Glassfish
WebLogic
Any Other Java Container

SUPPORTED DATABASES

Any JDBC DB
   (MS SQL Server / Oracle / DB2 / Postgresql /
   MySQL / MariaDB / Java DB / Derby / H2)

MS Access
MongoDB

SUPPORTED FORMATS
HL7 2.x / 3.x / FHIR
CCD / CDA
EDI X12
Delimited and Fixed-Width Files (CSV/Positional/Custom)
Key / Value
XLS / XLSX
DICOM
XML
JSON
PDF
NCPDP
Binary (.wav / .jpg)

SUPPORTED PROTOCOLS
Database (JDBC)
Email (IMAP / POP3 / SMTP)
Local / Network File System
FTP / SFTP / FTPS
TCP / UDP Sockets
HL7 LLP
HTTP/S
OAuth2 (JWT / Token Introspection)
Messaging (JMS / MQ / MSMQ / RabbitMQ / Kafka)
EMR API Call
Web Services (SOAP / RESTful)
Command-Line Invocation (CLI)
Active Directory / LDAP
Custom Connectors
IoT (Serial / MQTT)
VistA RPC
AS2
Cloud Storage (S3 / Google / Azure)

ARCHITECTURE
Consistent "Assembly Line" Pattern
Configuration Over Code
Component Driven
Extensible Via Open APIs
Scripting Support (via GraalVM: JavaScript, Python, etc.)

HL7 FEATURES
HL7 Friendly Name Option
HL7 Lenient Parser
Ability to Read Any Version of HL7
Inline HL7 Documentation
Transaction Templates for HL7, FHIR and CDA

EDI X12 FEATURES
Parse any EDI X12 Transaction
EDI Friendly Name Option
SNIP Validation 1-3 Included, 4-7 Available
Inline Code Set Definitions (Optional Code Maintenance)
Transaction Templates for EDI

DATA TRANSFORMATIONS
Graphical, Drag & Drop Data Mapping
No Coding or Custom Scripting Required
Standards Compliant (W3C XSLT)
Computationally Complete

WORKFLOW PATTERNS SUPPORT
Sequencing
Splitting / Merging
Process Orchestration
Branching
Conditional Logic
Iteration

ERROR HANDLING
Easy, Hook-Based Customized Error Handling
Configurable Text-Based Logging
Flexible Proactive Notifications
Extensive Operational Visibility Framework

VALIDATION
Schema (XSD)
Structural Format Conformance (HL7, EDI, etc.)
Business Rules
External Lookups

TESTING
Instant (No Compilation or Deployment)
Graphical, Step-By-Step Debugging
End-to-End or Stage-by-Stage
IDE-Resident Server Emulation

ANALYTICS
Robust Real-Time REST API
Flexible Reporting
On-the-Fly Break-Fix
eiDashboard Multi-Instance Monitoring
Splunk Integration

DEPLOYMENT MODELS
On-Premises
AWS / GCE / Azure
Lightweight / Bundled
Docker / Containerization

LICENSING (Includes an unlimited number of dev, test & cold back up)
End-User Licenses
Product Bundling Licenses
Value Added Reseller Licenses
One-Time Licenses
Subscription – Flat Monthly or On-Demand Pricing