

Transforming Operations with NextGeneration EDI, AI, and Natural Language Processing

Enhancing Visibility, Security, and Efficiency in Data Exchange

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This presentation showcases Adept Engineering Solutions LLC's comprehensive proposal to transform Electronic Data Interchange (EDI) using Artificial Intelligence (AI), Machine Learning (ML), and Natural Language Processing (NLP).

Our approach eliminates inefficiencies in legacy EDI systems, provides real-time visibility across transactions, detects anomalies, and opens a new layer of intelligence from data assets, benefiting any organization managing complex data exchanges.







Agenda

Presentation Roadmap

01	Who We Are: Adept Engineering Solutions
02	The Critical Role of EDI in Operations
03	Challenges with Traditional EDI Systems (Focus on Visibility)
04	AI-Powered EDI: Enhancing Visibility and Efficiency
05	Anomaly Detection: Safeguarding EDI Data
06	Natural Language Processing: Unlocking Data Value
07	Al Benefits for Operations and the Department of Defense
08	Kontratar: A Glimpse into Adept's Al Innovation
09	Implementation Plans and Next Steps
10	Q&A
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Who We Are

Adept Engineering Solutions LLC is an 8(a) certified IT service delivery firm dedicated to transforming complex data environments into streamlined, intelligent systems. With over 25 years of industry experience, we empower organizations to make data-driven decisions through innovative Al-powered solutions

We simplify cross-system operations, reduce information chaos, and eliminate data silos by integrating Al into existing workflows, delivering practical outcomes that drive efficiency and compliance.

What We Do

We untangle complex data landscapes, connect disjointed systems, and enhance operational efficiency for organizations navigating high-stakes transactions or regulatory requirements (Home/Landing Page).

Our holistic approach transforms document backlogs into searchable knowledge bases, connects isolated systems into cohesive networks, and automates manual processes to create intelligent workflows (About Us: Our Data Approach).

Our Services



Data Management

Synchronizes Data Across Platforms, Reducing Silos And Enabling Unified Views



System Management

Provides Cross-Platform Monitoring And Self-Healing Connections For Operational Reliability.



Al-Enhanced Data Services

Leverages Intelligent
Document Processing,
Predictive Analytics,
Process Automation, And
Compliance Intelligence
To Streamline Operations.



Integration Services

Builds Bidirectional Synchronization Between Legacy And Modern Systems, Ensuring Seamless Data Flow.



Staffing & Recruitment

Supplies Specialized IT
Talent For Al-Driven
Projects, Including
Custom Application
Development And Project
Management

EDI (Electronic Data Interchange) Solution

Our Al-enhanced EDI solution modernizes document processing for procurement and complex transactions. It reduces errors, cuts costs, accelerates cycles, strengthens compliance with audit trails, and improves supply chain visibility by intelligently handling various standard document formats.

Solution

Our suite of Al-powered solutions—EDI, MFT, Zero Trust, and Clearing House empowers organizations to move data securely, intelligently, and efficiently across complex systems.

From automating document workflows to ensuring regulatory compliance and airtight security, we help you transform data exchange into a strategic advantage.

MFT (Managed File Transfer) Solution



Designed for government and compliance-focused institutions, our Al-enhanced MFT solution provides intelligent and secure file transfer. It automatically classifies data, creates secure paths, maintains chain-of-custody, monitors for risks, and offers real-time visibility while adhering to strict security protocols.

Zero Trust Solution



For organizations prioritizing uncompromised data security, our Zero Trust solution implements continuous verification across identity, device, network, application workload, and data. It establishes contextual access, continuous monitoring, least-privilege pathways, and comprehensive logs, with specialized expertise for government and regulated industries following the 2021 mandate.

Clearing House Solution



Our Al-powered clearing house solution provides a central hub for secure data exchange and reconciliation in complex multi-party transactions. It automates verification, offers real-time visibility, provides audit trails, and uses Al to identify discrepancies, create consolidated views, predict transaction flows, and maintain continuous compliance.





Our Partners

Adept strategically partners with leading industry pioneers, granting us access to cutting-edge thinking, technologies, and best practices. These collaborations directly translate into superior solutions and services, maximizing value for our clients.





















The number of clients, breadth of work and results we have achieved is a true testament of our expertise, experience, and superior client relationships. Below are some of our current and past clients that we have supported in various capacities.





































































The Critical Role of EDI in Operations

Why EDI is Essential for Efficient Operations



Electronic Data Interchange (EDI)

Electronic Data Interchange (EDI) enables standardized electronic exchange of business documents, such as invoices, purchase orders, and compliance reports, in formats like ANSI X12 and EDIFACT. EDI is the backbone of digital transactions, facilitating seamless data exchange between organizations, suppliers, and partners in logistics, retail, and government.

Supports key operational goals:

- 1. Efficiency: Automates document exchange to reduce manual processes.
- 2. Accuracy: Ensures standardized data for reliable transactions.
- 3. Collaboration: Enables interoperability across diverse systems and partners.
- 4. Current State: Organizations process millions of EDI transactions annually, but legacy systems limit visibility and efficiency, creating barriers to modernization.



PROCURE-TO-PAY 8 Financial Audit Training Symposium

DAAS Global Exchange (GEX)

Presented by: Gary Wooddell, DLA

GEX Overview

WARFIGHTER OPERATIONS

Industry (Various Ops)

Movement

Maintenance

Requirement Analysis

T&E

DOD BUSINESS OPERATIONS

Enterprise Resource Planning Budget Planning

Contract Admin

Medical & Subsistence

Funds Management Accounting

Travel

Fuels

Inventory Management
Disposal Management

Logistics

Bankruptcy Notification

Payment/Disbursement

Finance

Procurement

Human Resources

Transportation

Receiving

GEX INTEGRATED SERVICES

Manage Data

Manage Reference Data

Control Access

Data Translation & Routing

Data Standards

Secure Communications

Data Security

Value Added Network Services MORE THAN

418_M

Monthly Transactions

13K+ Connections 295+ Mediations





Procure-to-Pay & Financial Audit Training Symposium

Challenges with Traditional EDI Systems

Pain Points in Traditional EDI

Limited Visibility

Organizations lack real-time insight into EDI transactions, delaying identification of issues like erroneous data or fraudulent activities.

Example: Inability to instantly track discrepancies in purchase orders hinders operational oversight.

Data silos across systems (e.g., procurement, payment, compliance databases) prevent a unified view of transaction data, complicating monitoring.

Complex Data Structures:

EDI formats are highly encoded, requiring specialized expertise, which slows processing and increases reliance on technical staff.

Other Challenges

Manual Processes:

Manual data mapping and error correction raise labor costs and error rates.

High Costs:

Legacy EDI systems involve expensive setup and maintenance, straining budgets.

Integration Barriers:

Older systems struggle to integrate with modern platforms, limiting scalability and interoperability.

Impact

These challenges impede operational efficiency, data accuracy, and fraud prevention, necessitating a modern EDI solution.

Al-Powered EDI: Enhancing Visibility and Efficiency

Transforming EDI with Artificial Intelligence

Our Al-powered EDI solution leverages machine learning and natural language processing (NLP) to overcome traditional EDI limitations, with a focus on enhancing visibility and efficiency. The Al/ML capabilities can be applied to other relevant data formats, such as MIL, XML, CSV, and positional files, extending its value beyond EDI

Benefits

- Unified view of transaction data, breaking down silos.
- · Faster response to issues, improving operational efficiency.
- Reduced costs through automation.

Key Features



Real-Time Visibility

Provides instant access to transaction data, enabling organizations to monitor orders, payments, and compliance in real time.



Simplified Data Interpretation

Converts complex EDI formats into human-readable text, reducing technical barriers.



Intelligent Search

Allows staff to query EDI data using natural language (e.g., "Show me all 2024 orders with errors").



Automated Data Mapping

Eliminates manual data transformation, speeding up processing.



Seamless Integration

Works with existing EDI systems, supporting multiple standards for interoperability.



Scalability & Security

Handles growing transaction volumes with robust encryption and compliance with standards like NIST and FISMA.

Anomaly Detection in EDI Transactions

Safeguarding Data with EDI Anomaly Detection

Machine learning algorithms analyze EDI transactions to identify irregularities that may indicate errors, fraud, or non-compliance.

Benefits

- Proactive fraud prevention, protecting financial integrity.
- Faster identification of compliance issues, ensuring data accuracy.
- Real-time alerts for immediate action, enhancing operational agility.

Technology

 Powered by advanced machine learning models for high accuracy and scalability.

Specific Anomaly Checks for EDI Data

Duplicate Transactions:

Detects multiple submissions of the same order or payment, preventing processing errors or fraud.

Data Discrepancies:

Flags inconsistencies (e.g., mismatched order IDs, incorrect amounts) for review.

Unusual Patterns:

Identifies outliers, such as sudden spikes in payment requests, which may signal fraudulent activity.

Non-Compliance Indicators:

Detects transactions missing required fields or violating standards.

Geographic Anomalies:

Flags transactions from unexpected locations, leveraging global data exchange capabilities.







Demonstration

Original EDI Datafile

```
*12*6303207447
                                                  *08*925485US00
                                                                     *240306*1346*:*00501*000003610*0*P*>*
GS*IN*6303207447*925485US00*20240306*1346*389*X*005010
BIG*20240306*0090033326*20240220*7430127958
REF*IA*434291923
N1*ST*Walmart DC 6012R Regular*UL*0078742028743
N3*3101 Quincy St
N4*Plainview*TX*790721951
N1*SU*Winland Foods Inc
N3*PO Box 735382
N4*Chicago*IL*606735363
ITD*08*3*2*20240328*22*20240410*35*78193****2% 22 Net 35 (EFT)
DTM*011*20240306
FOB*PP*CC*Destination Prepaid
IT1*001*84*CA*26.16**IN*009203793
PID*F****8/48 PSTA THIN SPAG-SKNNR
P04*8
IT1*002*90*CA*20.88**IN*009211671
PID*F****24/12 PSTA LARGE ELBW-SKNNR
P04*24
IT1*003*168*CA*17.4**IN*009262788
PID*F****12/24 PSTA SPAG-AMBTY
P04*12
IT1*004*400*CA*17.52**IN*009264223
PID*F****12/24 PSTA SPAG-SKNNR
P04*12
IT1*005*252*CA*17.52**IN*009264237
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P04*12
IT1*006*90*CA*17.52**IN*009264251
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P04*12
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PID*F****12/24 PSTA LARGE ELBW-SKNNR
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PID*F****12/12 PSTA GARDEN STYL TWIRLS-SKNNR
P04*12
IT1*009*108*CA*21.36**IN*009274670
PID*F****12/12 PSTA WIDE EGG NDL-SKNNR
P04*12
IT1*010*216*CA*20.4**IN*009283609
PID*F****12/12 PSTA X BROAD NDL-NOYLK
IT1*011*72*CA*20.4**IN*009283616
PID*F****12/12 PSTA DMPLG-NOYLK
P04*12
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PID*F****24/12 PSTA ANGHR-SKNNR
IT1*013*180*CA*10.44**IN*550387677
PID*F****12/12 PSTA BOW TIE-SKNNR
IT1*014*22*CA*15.36**IN*667128740
PID*F****16/16 PSTA SPAG POT SZ-AMBTY
P04*16
TDS*3909648
CAD*M****TRUCK
ISS*2142*CA*34178*LB
CTT*14*2142
SE*59*7552
GE*1*389
 IEA*1*000003610
```

Json Metadata, For Fast Search And Retrieval

Translated Natural Language File

JSON Metadata For Quick Retrieval

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"type": "EDI/X12",
"clientIDTo": "925485US00",
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 /6303207447 925485US00 810 ae88a4c6-f268-456e-9c0b-cd1b570805d3.txt".
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    "pos": "2",
    "value": "0090033326",
    "elementId": "0076"
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    "pos": "4",
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Natural Language 1/3

common-library — ubuntu@ip-172-31-59-43: /dev_install/ediml/output/l7a92daa-4db7-4580-a2e5-8b9c46778d35 — ssh -i ~/Documents/AWSKeys/Virginia_AppServer.pem ubuntu@ec2-52-200-88-220.compute-1.amazonaws.com — 302x83

Invoice Date: Wed, 86 Mar 2024; Invoice Number: 0490833326; Purchase Order Date: Tue, 28 Feb 2024; Purchase Order Number: N/A; Change Order Sequence Number: N/A; Change Order Sequence Number: N/A; Change Order Sequence Number: N/A; Transaction Type Code: N/A; Invoice Number: N/A; Change Order Sequence Number: N/A; Change Order Sequence Number: N/A; Transaction Type Code: N/A; Invoice Number: N/A; Transaction Type Code: N/A; Transaction Type Code: N/A; Invoice Number: N/A; Transaction Type Code: N/A; Invoice Number: N/A; Transaction Type Code: N/A; Transaction Type Code: N/A; Invoice Number: N/A; Transaction Type Code:

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Entity Identifier Code: SHIP TO; Name: Walmart DC 6012R Regular; Identification Code Qualifier: GLOBAL LOCATION NUMBER (GLN); Identification Code: 0078742028743; Entity Relationship Code: N/A; Entity Identifier Code: N/A;

Address Information: 3101 Quincy St: Address Information: N/A:

City Name: Plainview: State Or Province Code: TX: Postal Code: 798721951: Country Code: N/A: Location Qualifier: N/A: Location Identifier: N/A: Country Subdivision Code: N/A:

Entity Identifier Code: SUPPLIER/MANUFACTURER; Name: Winland Foods Inc; Identification Code Qualifier: N/A; Identification Code: N/A; Entity Relationship Code: N/A; Entity Identifier Code: N/A;

Address Information: PO Box 735382; Address Information: N/A;

City Name: Chicago; State Or Province Code: IL; Postal Code: 606735363; Country Code: N/A; Location Qualifier: N/A; Location Identifier: N/A; Country Subdivision Code: N/A;

Terms Type Code: BASIC DISCOUNT OFFERDD: Terms Basis Date Code: INVOICE DATE; Terms Discount Percent: 2: Terms Discount Date: NA; Deferr ad Anount Date: NA; Deferr ad Anount Date: NA; Percent of Invoice Payable: Ni, Description: "Az 22 Net 35 (EFF); Day of Month: Na; Payament Method Type Code: NA; Percentage As Decimals: NA;

Date/time Qualifier: SHIPPED; Date: Wed, 86 Mar 2024; Time: N/A; Time Code: N/A; Date Time Period Format Qualifier: N/A; Date Time Period: N/A;

Shipment Method Of Payment: PREPAID (RY SELLER): Location Qualifier: COUNTRY: Description: Destination Prepaid: Transportation Terms Qualifier Code: N/A: Transportation Terms Code: N/A: Location Qualifier: N/A: Description: N/A: Description: N/A: Description: N/A:

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Assigned Identification: 002; Quantity Invoiced: 00; Unit Or Basis For Measurement Code: CASE; Unit Price: 20.80; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: N/A; Product/service Id: 00/A; Product/service Id: N/A; Product/service

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1. **This Page-SKNNR; Surface/layer/position Code: N/A; Surce Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

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Pack: 12; Size: N/A; Unit Or Basis For Measurement Code: N/A; Peckaging Code: N/A; Weight Qualifier: N/A; Ornic Or Basis For Measurement Code: N/A; Ornic Ornic N/A; Deckaging Code: N/A; Weight Wildth: N/A; Height: N/A; Unit Or Basis For Measurement Code: N/A; Ornic Pack: N/A; Unit Or Basis For Measurement Code: N/A; Ornic Pack: N/A; Unit Or Basis For Measurement Code: N/A; Ornic Pack: N/A; Unit Or Basis For Measurement Code: N/A; Ornic Pack: N/

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Assigned Identification: 007; Quantity Invoiced: 180; Unit Or Basis For Measurement Code: CASE; Unit Price: 17.52; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: 009264265; Product/service Id Qualifier: N/A; Product/service Id: 009264265; Product/service Id: 009264265; Product/service Id: N/A; Product/service Id: N/A; Product/service Id: 009264265; Product/service Id: 0

Natural Language 2/3

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Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/24 PSTA ELBM-SKNNR; Surface/Layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA ELBM-SKNNR; Surface/Layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA ELBM-SKNNR; Surface/Layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Code: N/A;

Paper: 12; Size: NA; Unit O' Basis For Measurement Code: NA; Papekagino Code: NA; Meight Gualifier: NA; Gross Weight Per Pack: NA; Unit O' Basis For Measurement Code: NA; Unit O' Basis For Measurement Code: NA; Meight Gualifier: NA; Gross Weight Per Pack: NA; Unit O' Basis For Measurement Code: NA; Unit O' Basis For Measurement Code: NA; Surread-Upack; NA; Surread-Upack;

Assigned Identification: 007; Quantity Invoiced: 180; Unit Or Basis For Measurement Code: CASE; Unit Price: 17.52; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/service

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Description: 12/24 PSTA LARGE ELBM-SENNR; Surface/layer/position Code: N/A; Description Code: N/A; Description

Pack: 12; Size: NA; Unit OT Basis For Measurement Code: NA; Packaging Code: NA; Weight Guilfier: NA; Cores well unit OT Basis For Measurement Code: NA; Unit OT Basis For Measurement Code: NA; Unit OT Basis For Measurement Code: NA; Length: NA; Width: NA; Height: NA; Unit OT Basis For Measurement Code: NA; Unit OT Basis For Measurement Code: NA; Surprectives/Pasistion Code: NA; Assigned Edentification: NA; However Unit.

Assigned Identification: 008; Quantity Invoiced: 188; Unit Or Basis For Measurement Code: CASE; Unit Price: 19.2; Basis Of Unit Price Code: W/A; Product/service Id Qualifier: BUYER'S ITEM MAMBER; Product/service Id: 008245438; Product/service Id Qualifier: M/A; Product/service Id: M/A; Product/s

Item Description Type: FREE-FGRM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/12 PSTA GARDEN STV. TWIRLS-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;
A;

Assigned Identification: 009; Quantity Invoiced: 188; Unit Or Basis For Measurement Code: CASE; Unit Price: 21.36; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: 009274678; Product/service Id Qualifier: N/A; Product/service Id (N/A; Product/service Id Qualifier: N/A; Product/service Id (N/A; Product/service Id Qualifier: N/A; Product/service Id

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/12 PSTA WIDE EGG NDL-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Code: N/A

Pack: 12; Size: N/a; Unit OF Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Qualifier: N/A; Unit OF Basis For Measurement Code: N/A; Unit OF Basis For Measurement Code: N/A; Unit OF Basis For Measurement Code: N/A; Surface/Super/position Code: N/A; Masigned Southfields: N/A; Surface/Super/position Code: N/A; Assigned Southfields: N/A; Surface/Super/position Code: N/A; Assigned Southfields: N/A; Surface/Super/position Code: N/A; Assigned Southfields: N/A; Assigne

Assigned Identification: 018; Quantity Invoiced: 216; Unit Or Basis For Measurement Code: CASE; Unit Price: 20.4; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: 0007569; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/ser

Tem Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/12 PSTA X BROAD NDL-WDYLK; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/12 PSTA X BROAD NDL-WDYLK; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/12 PSTA X BROAD NDL-WDYLK; Surface/layer/position Code: N/A; Code: N/A; Description: 12/12 PSTA X BROAD NDL-WDYLK; Surface/layer/position Code: N/A; Description: N/A;

Pack: 12; Size: NA; Unit Or Basis For Measurement Code: NA; Packaging Code: NA; Weight Oulfifer: NA; Conse Weight Per Pack: NA; Unit Or Basis For Measurement Code: NA; Unit Or Basis For Measurement Code: NA; Surfacellayer/position Code: NA; Length: NA; Height: NA; Unit Or Basis For Measurement Code: NA; Unit Or Basis For Measurement Code: NA; Weight Oulfier: NA; Surfacellayer/position Code: NA; Assigned Edentification: NA; Rubert NA; Unit Or Basis For Measurement Code: NA; Unit Or

Assigned Identification: 01; Quantity Invoiced: 72; Unit Or Basis For Measurement Code: CASE; Unit Price: 20.4; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM MAMBER; Product/service Id: 000283616; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/ser

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description Code: N/A; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 12/12 PSTA DMPLO-NOYLK; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

Pack: 32; Size: NA; Unit Or Basis For Measurement Code: INA; Eachaging Code: NA; Weight Gualifier: NA; Gross Weight For Pack: NA; Unit Or Basis For Measurement Code: NA; Unit Or Basis For Measurement Code: NA; Surgery For NA; Surgery For NA; Unit Or Basis For Measurement Code: NA; Surgery For NA; Surg

Assigned Identification: 012; Quantity Invoiced: 100; Unit Or Basis For Measurement Code: CASE; Unit Price: 20.88; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NAMBER; Product/service Id: 558387674; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/

Pack: 24: Size: M/A; Unit Or Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Coullifier: N/A; Gross Volume Per Pack: N/A; Unit Or Basis For Measurement Code: N/A; Surface/Sur

Assigned Identification: 013; Quantity Invoiced: 188; Unit Or Basis For Measurement Code: CASE; Unit Price: 10.44; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: M/A; Product/service Id: M/A; Product/service

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 12/12 PSTA 80W TIE-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

Pack: 12; Size: N/A; Unit OF Basis For Measurement Code: N/A; Peckaging Code: N/A; Weight Walffer: N/A; Cross will Unit OF Basis For Measurement Code: N/A; Unit

Assigned Identification: 81; Quantity Invoiced: 22; Unit Or Basis For Measurement Code: CASE; Unit Price: 15.36; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYEY'S ITEM MAMBER; Product/service Id: 66-7128740; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/s

tem Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Postroption: 16/16 PSTA SPAG POT SZ-AMBTY; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Agency Qualifier Code: N/A; Product Description: 16/16 PSTA SPAG POT SZ-AMBTY; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

Natural Language 3/3

Item Description Type: FREE-FORM: Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description Fig. 12/12 PSTA DMPLG-NOYLK; Surface/layer/position Code: N/A; Source Subpualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

Pack: 12; Size: N/A; Unit Or Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Qualifer: N/A; Gross Weight Per Pack: N/A; Unit Or Basis For Measurement Code: N/A; Lingth: N/A; Width: N/A; Weight N/A; Width: N/A; Weight N/A; Unit Or Basis For Measurement Code: N/A; Lingth: N/A; Width: N/A; Weight Qualifer: N/A; Weight N/A; Weight Qualifer: N/A; Weight Qualifer: N/A; Unit Or Basis For Measurement Code: N/A; Lingth: N/A; Weight Qualifer: N/A; Weight N/A; Weight Qualifer

Assigned Identification: 012; Quantity Invoiced: 100; Unit Or Basis For Measurement Code: CASE; Unit Price: 20.88; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: N/A; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/servic

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 24/12 PSTA ANGHR-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 24/12 PSTA ANGHR-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 24/12 PSTA ANGHR-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 24/12 PSTA ANGHR-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description: 24/12 PSTA ANGHR-SKNNR; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A; Description Code: N/A;

Pack: 24; Size: N/A; Unit Or Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Walfier: N/A; Weight N/A; Gross Weight Per Pack: N/A; Unit Or Basis For Measurement Code: N/A; Length: N/A; Hight: N/A; Width: N/A;

Assigned Identification: 013; Quantity Invoiced: 180; Unit Or Basis For Measurement Code: CASE; Unit Price: 10.44; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: S08387677; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Language Code: N/A; Description Code: N/A; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A

Pack: 12; Size: N/A; Unit Or Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Qualifier: N/A; Gross Weight Per Pack: N/A; Unit Or Basis For Measurement Code: N/A; Length: N/A; Unit Or Basis For Measurement Code: N/A; Length: N/A; Unit Or Basis For Measurement Code: N/A; Cod

Assigned Identification: 014; Quantity Invoiced: 22; Unit Or Basis For Measurement Code: CASE; Unit Price: 15.36; Basis Of Unit Price Code: N/A; Product/service Id Qualifier: BUYER'S ITEM NUMBER; Product/service Id: 66/128740; Product/service Id Qualifier: N/A; Product/service Id: N/A; Product/s

Item Description Type: FREE-FORM; Product/process Characteristic Code: N/A; Agency Qualifier Code: N/A; Product Description Code: N/A; Description: 16/16 PSTA SPAG POT SZ-AMBTY; Surface/layer/position Code: N/A; Source Subqualifier: N/A; Yes/no Condition Or Response Code: N/A; Language Code: N/A;

Pack: 16; Size: N/A; Unit Or Basis For Measurement Code: N/A; Packaging Code: N/A; Weight Walfier: N/A; Gross Weight Per Pack: N/A; Unit Or Basis For Measurement Code: N/A; Unit Or Basis For Measurement Code: N/A; Length: N/A; Width: N/A; Width: N/A; Width: N/A; Width: N/A; Unit Or Basis For Measurement Code: N/A; Unit Or Basis For Measurement Code: N/A; Near N/A; Unit Or Basis For Measurement Code: N/A

Amount: 39096.48

Transportation Method/type Code: MOTOR (COMMON CARRIER); Equipment Initial: N/A; Equipment Number: N/A; Standard Carrier Alpha Code: N/A; Roterence Identification Qualifier: N/A; Reference Identification Qualifier: N/A; Reference Identification: N/A; Service Level Code: N/A; Roterence Identification Qualifier: N/A; Reference Identification Qualifier: N/A; Service Level Code: N/A; Roterence Identification Qualifier: N/A; Reference Identification Qualifier: N/A; Service Level Code: N/A; Roterence Identification Qualifier: N/A; Reference Identification Qualifier: N/A; Service Level Code: N/A; Roterence Identification Qualifier: N/A; Roterence Iden

Number Of Units Shipped: 2142; Unit Or Basis For Measurement Code: CASE; Weight: 34178; Unit Or Basis For Measurement Code: POUND; Volume: N/A; Unit Or Basis For Measurement Code: N/A; Quantity: N/A; Weight: N/A;

Number Of Line Items: 14; Hash Total: 2142; Weight: N/A; Unit Or Basis For Measurement Code: N/A; Volume: N/A; Unit Or Basis For Measurement Code: N/A; Description: N/A;

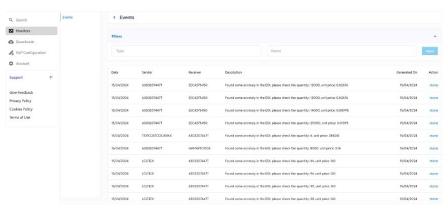


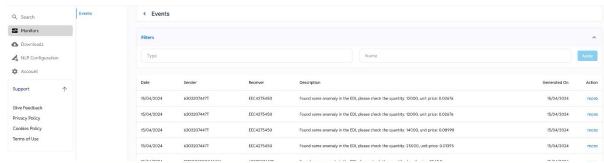




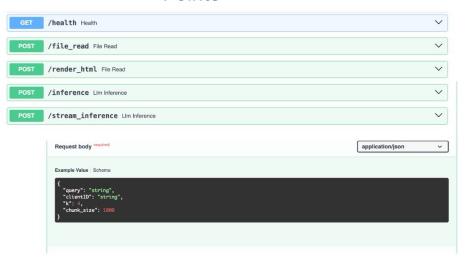
Live Demonstration of A User Interface to Highlight the EDI/ Al Capabilities

Anomalies Logging





Rest API End Points



NLP Processor

WSA+RR+ GS+P0+TST1BUNZLOSRAAA+6303207447T+20240102+0550+1026+X+004010 ST*850*1026 BEG+00+NE+789789++20240102 REF*IA*C649 PER*BD*Buyer Name*EM*BuyerEmai@Bunzl.com TTDs81s3s5ss18ss38s158ssssTorms Rescription DTM+882+28248187 TD5**2*SCAC*M N9*L1**GEN MSG*Purchase Order Note N1*BT*BUNZL RETAIL (29295)*9*959651896919100 N2*AddressAlternateName*AddressAlternateName2 N3*ONE CITY PLACE DRIVE SUITE 200*Address2 N3+Address3+Address4 NAMSAINT LOUISMON63141HUS N1*ST*BUNZL NEW ENGLAND (10/100)*9*059651896910100 N2+AddressAlternateName+AddressAlternateName2 N3*180 SHREWSBURY STREET*Address2 N3*Address3*Address4 N4*WEST BOYLSTON*MA*01583*US N1*VN*Maxco*9*0042464430001 N2*AddressAlternateName*AddressAlternateName2 P01**75*CA*41.29**CB*C6490001*VN*51771822767*UK*10067200007298 PID*F****2/3.7 SCE WING 1ST DGR SMKCA P01**158*CA*38.63**CB*C6498992*VN*51775382767*UK*19967299987595 PID*F****2/3.7 SCE SWT CHILI SMKCA P01**75*CA*41.61**CB*C6490003*VN*51775522767*UK*18067200007281 PID+F****2/3.7 SCE HNY GAR SNKCA P01**135*CA*66.59**CB*4035731*VN*48539385507*UK*82248619334 PID*F****SALSA THICK CHNKY MILD SE#31#1826 GE#1#1826 IEA*1*1888888826

AN EDI XIZ Interchange has been received by ASB3207447T, qualified by PHONE (TELEPHUME COMPANIES) Trom ISTIBURIOSSAMA, qualified by PHONE (TELEPHUME COMPANIES) Trom ISTIBURIOSSAMA, qualified by WINILLIV DEFINED, on Tue, 82 Jan 2924 at Time - 1556 AM, with an interchange control number of the sender of this transaction, TSTIBURIOSSAMA, has demoted an acknowledgment requested flag, NO ACKNOWLEDGMENT REQUESTED. The test indicators associated with this interchange is PROMOLITON DATA.

As EDI XX2 Group transaction with a functional identifier code of PURCHASS OMDER (858) code was sent from the application render code, ISTAINURJOSHAM to application receiver code, Salgar044.77. The group envelope is dated Une, 02 and 050 with a group control number, 1826. The responsible agency is ACCREDITED STANDARDS COMMITTEE X12 and the transactions in this EDI X12 group is built according to the EDI X12 standard 0004818.

Transaction Set Identifier Code: 850; Transaction Set Control Number: 1026; Implementation Convention Reference: N/A;

Transaction Set Purpose Code: ORIGINAL; Purchase Order Type Code: NEW ORDER; Purchase Order Number: NEW ORDER; Release Number: ; Date: Tue, 82 Jan 2842 Contract Number: N/A; Acknowledgment Type Code: N/A; Invoice Type Code: N/A; Contract Type Code: N/A; Purchase Ctapory Cta

Reference Identification Qualifier: IA; Reference Identification: C640; Description: N/A; Reference Identification Qualifier: N/A; Reference Identification: N/A; Reference Identification

Contact Function Code: BUYER NAME OR DEPARTMENT; Name: Buyer Name; Communication Number Qualifier: ELECTRONIC MAIL; Communication Number: BuyerEmsigBunzl.com; Communication Number Qualifier: N/A; Communication Number: N/A; Communication Number: N/A; Communication Number: N/A; Contact Inquiry Reference: N/A;

Tarms Type Code: MASIC; Terms Basis Date Code: IMVDICE DATE; Terms Discount Percent: 5; Terms Discount Debug: 1 rams of Scount Percent: 5; Terms Net Due Date; 1 rams Net Due Date; 2 rams Net Due Date; 3 rams Deferred Amount Due: 5 Percent of Invoice Payable; Description: Terms Description; Day of Month: N/A; Payme nt Method Type Code: N/A; Percentage as Declaims! N/A;

Date/Time Qualifier: 002; Date: Sun, 07 Jan 2024; Time: N/A; Time Code: N/A; Date Time Period Format Qualifier: N/A; Date Time Period: N/A;

Bouting Sequence Code: I Identification Code Qualifier: STANDARD CARRIER ALPHA CODE (SCACA): Identification Code: SCAC): Transportation Method/Type Code: MOTGE (COMMAN CODE) (SCACA): Transist Time Direction Qualifier: NA: Location Code: NA: Code

Reference Identification Qualifier: L1; Reference Identification: ; Free-form Description: GEN; Date: N/A; Time: N/A; Time Code: N/A; Reference Identification Qualifier: N/A; Reference Identification: N/A; Reference I

Free-form Message Text: Purchase Order Note; Printer Carriage Control Code: N/A; Number: N/A;

Entity Identifier Code: 87; Name: BMZL REFAIL (22298); Identification Code Qualifier: D-UH-S44, D-UH-GMERGENT MERCHANDER OF MERCHANDER SENSION CODE: NAME OF MERCHANDER OF

Name: AddressAlternateName; Name: AddressAlternateName2;

Address Information: ONE CITY PLACE DRIVE SUITE 200; Address Information: Address2;

Address Information: Address3; Address Information: Address4;

Natural Language Processing: Unlocking EDI Data

Making EDI Data Accessible with NLP

What NLP Adds to Raw EDI Data:

Plain Language Conversion:

Transforms encoded EDI data (e.g., ANSI X12, XML) into clear, human-readable text, eliminating technical barriers.

Interactive Queries:

Enables staff to ask questions in natural language (e.g., "Find all late orders for Q1 2025") via chat or voice interfaces.

Contextual Insights:

Extracts meaning from raw data, summarizing trends or highlighting issues (e.g., "10% increase in late orders this quarter").

Example:

- Query: "Show me all 2024 transactions with errors over \$10.000."
- Response: A user-friendly table listing erroneous transactions with details (IDs, error types, amounts).

Benefits:

- Empowers non-technical staff to engage with EDI data, democratizing access.
- Saves time by eliminating manual data interpretation.
- Supports real-time decision-making for agile operations.

Al Value from NLP-Enhanced EDI Data

Maximizing EDI with AI and Machine Learning

General Al Value with NLP-Enhanced EDI

Pattern Recognition: Identifies trends in EDI data (e.g., seasonal order patterns), enabling predictive analytics for resource planning.

Automation: Automates tasks like data mapping, compliance checks, and report generation, reducing costs by up to 40%.

Decision Support: Provides data-driven insights for strategic decisions (e.g., optimizing procurement based on anomaly trends).

Scalability: Handles increasing EDI transaction volumes as organizations digitize processes.

Operational Value

- Simplifies data access for staff, improving efficiency.
- Strengthens compliance by identifying high-risk transactions.
- Supports digital transformation by integrating AI with legacy systems.

Broader Al Impact

NLP-enhanced EDI data fuels machine learning models, creating a feedback loop that improves accuracy and insights over time.

EDI Benefits for the Department of Defense

Enhancing DoD Operations with AI-Powered EDI

The Department of Defense uses EDI extensively for procurement, logistics, and supply chain management, processing transactions like purchase orders and shipping notices.

Al-Powered EDI Benefits for DoD

Streamlined Procurement:

Automates EDI processing for vendor contracts, reducing manual effort and errors.

Example: converts complex purchase orders into plain language for faster review.

Anomaly Detection:

Identifies irregularities (e.g., overbilling, duplicate orders), preventing fraud and ensuring budget integrity.

Compliance:

Ensures EDI transactions meet DoD standards (e.g., DFARS), reducing audit risks.

Integration:

Provides instant access to supply chain data (e.g.,

shipment statuses), enabling rapid response to

Real-Time Visibility:

mission needs.

Breaks down data silos by connecting DoD systems with vendors, improving collaboration.

Life Improvement for DoD

Efficiency:

Speeds up procurement and logistics, supporting mission readiness.

Cost Savings:

Reduces errors and fraud, optimizing resource allocation.

Agility:

Enhances responsiveness to supply chain disruptions (e.g., tracking critical supplies in real time).

Our Al enabled Electronic Business Discovery and Visibility (EBDV) library has been extended to work with the following formats

- 1. XML
- 2. Positional Files (such MILS format, SAP IDOC)
- 3. Delimiter Files



EBDV Allows For API Integration With Other Applications And Systems



EBDV Support Voice Interaction



EBDV Will Help Increase Visibility Of Transactions Sent Through The DoD Global Exchange Platform

Next Steps

Partnering to Transform EDI Operations

Why Choose Our EDI Solution:



Addresses visibility and efficiency challenges in EDI systems.



Enhances operations with Aldriven insights and automation.



Backed by Adept's proven Al expertise, as demonstrated by Kontratar.

Call to Action

Contact:



Remi Kuti

President/CEO, Adept Engineering Solutions LLC



remi.kuti@adeptengr.com



(888) 392-3378



www.adeptengr.com



Thank You