

Your “Yes” WMS for Pharmaceutical Warehouse Operations



datex

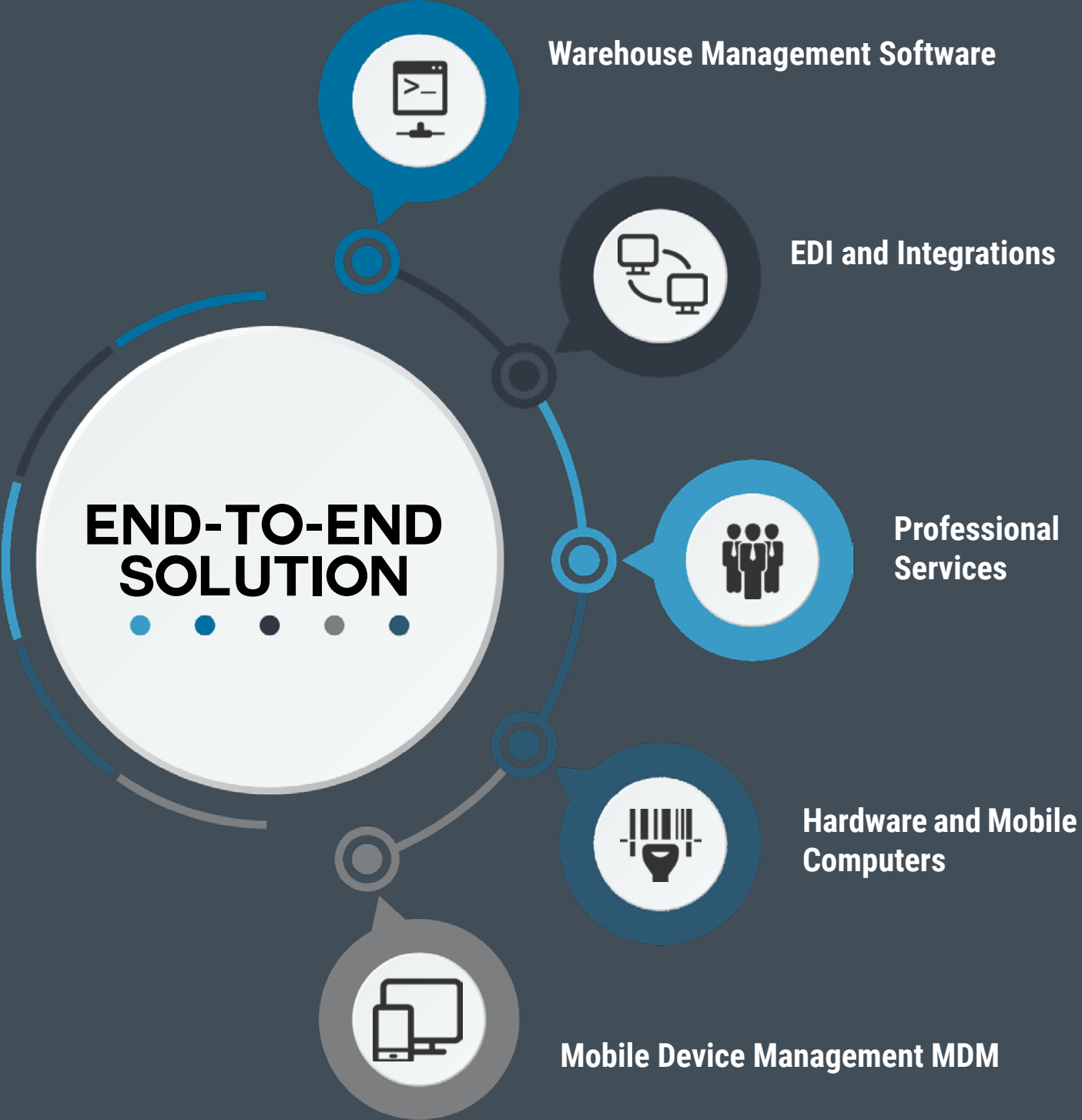
www.datexcorp.com | 727.571.4159 | marketing@datexcorp.com

DATEX PROVIDES FLEXIBLE, RELIABLE SUPPLY CHAIN TECHNOLOGY SOLUTIONS TO HELP MAKE BUSINESSES MORE PROFITABLE

In business since 1978 and headquartered in beautiful Clearwater Florida, Datex has a wealth of experience in helping companies across the world meet critical business challenges with a 96% client retention rate.

One call does it all. No more working with numerous companies to coordinate work and schedules. Having one company take responsibility saves time and resources and allows you to focus on running your business.

TOTAL TURNKEY TECHNOLOGY SOLUTIONS PROVIDER



Offices in:

- Clearwater, FL
- Los Angeles, CA
- Sofia, Bulgaria



DATEX COVERS THE WORLD

Clients in:

- U.S.
- Canada
- Europe
- Latin America
- Middle East

HARDWARE SOLUTION PARTNERS



Zebra Technologies
<https://www.zebra.com/us/en.html>
Zebra builds enterprise-level data capture and automatic identification solutions that provide businesses with operational visibility.



Rice Lake Weighing Systems
<https://www.ricelake.com/en-gb/>
Rice Lake Weighing Systems is an international leader in the manufacture and distribution of weight-related products and process-control equipment.



CipherLab
<https://www.cipherlab.com/en/>
CipherLab provides Automatic Identification and Data Capture/Collection (AIDC) products in mobile computers and barcode scanners.



Honeywell
<https://www.honeywell.com/>
We are blending products with software solutions to link people and businesses to the information they need to be more efficient, safer and more connected.



Dell
<https://www.dell.com/>
Dell provides technology solutions, services and support. Buy Laptops, Touch Screen PCs, Desktops, Servers, Storage, Monitors, Gaming and Accessories.

SOFTWARE SOLUTION PARTNERS



EasyPost

<https://www.easypost.com/>

EasyPost is a multi-carrier shipping solution that offers modern APIs, tracking, address verification, and insurance for USPS, FedEx, UPS, DHL, and many more.



enVista

<https://envistacorp.com/>

enVista is the leading supply chain and enterprise consulting firm and the premier provider of supply chain technology & strategy services, material handling automation & robotics, Microsoft solutions and IT managed services.



DropStream

<https://www.getdropstream.com/>

DropStream is an integration platform used by third-party logistics providers to support their ecommerce customers.



ConnectShip iShip

<https://www.connectship.com/>

ConnectShip | iShip provides reliable carrier compliance for multi-carrier, multi-modal, multi-platform shipping optimization.



SPS Commerce

<https://www.spscommerce.com/>

SPS Commerce retail technology solutions go beyond EDI to enhance visibility, collaboration and communication for retailers and suppliers.



ProShip

<http://www.proshipinc.com/>

Shipping software and supply chain solutions designed to help you compete and reduce costs in today's complex marketplace.



RADIX

<https://radix.website>

Radix is one of the world's leading new domain registries with 10 new extensions. Through these extensions, Radix is empowering business owners to get short, memorable and descriptive domain names.



Vocollect

<https://sps.honeywell.com/us/en>

Vocollect software provides the launching point for implementing voice-enabled warehouse operations that achieve the highest levels of productivity.



Microsoft

<https://partner.microsoft.com/en-US/>

Microsoft enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more.



SOTI

<https://www.soti.net/>

SOTI is a proven leader at creating innovative solutions that reduce the cost and complexity of business-critical mobility and the IoT.



SAP Business One

www.sap.com/business-one.html

Gain greater control over your small business with the SAP Business One application. Streamline processes by using ERP software designed to grow with you.



Sage

<https://www.sage.com/en-us/>

Learn more about how Sage Accounting Products are helping businesses grow and discover the right package for your business!



project44

<https://www.project44.com/>

project44 is an AI-powered platform that provides real-time visibility of goods in transit for shippers, logistics service providers and carriers.



ReverseLogix

<https://www.reverselogix.com/>

ReverseLogix is a software solution that optimizes the returns logistics puzzle for B2B, B2C and hybrid businesses.



MercuryGate

<https://mercurygate.com/>

Gain greater control over your small business with the SAP Business One application. Streamline processes by using ERP software designed to grow with you.

01

DATEX TAKES ON PHARMA INDUSTRY CHALLENGES.....10

Specialized Features for the Pharmaceutical Industry 13

General System Capabilities.....14

DPMS Pedigree.....15

GS1 Standards in the Pharmaceutical Supply Chain.....16

Pharmaceutical Serialization and Product Authenticity.....18

Track and Trace/Traceability.....20

Validation.....22

FDA 21 CFR Part 11.....24

Complying with DSCSA26

02

YOUR “YES” WMS ,.....28

Tremendous Time To Be A 3PL Provider 30

Does Your Business Have Any Of These Challenges?.....31

What Our WMS Can Provide.....32

Outbound Operations.....33

The “YES” WMS34

Introducing Dutex Footprint® WMS, Powered By Wavelength36

03

INNOVATIVE NEW DATEX TECHNOLOGY (OMIT FOR 3PLS).....38

Footprint Cloud Architecture..... 41

Wavelength and Footprint.....42

04

DATEX FOOTPRINT WMS FOR PHARMA.....44

Documentation and Compliance with Federal Regulations (FDA)..... 46

Trace and Trace and Traceability..... 49

Serialization.....50

Aggregation.....53

Quality Assurance/Quality Control.....55

Inventory Management.....57

Security Features.....59

Sample Management.....60

Integrations.....62

Reporting Capabilities.....65

Inventory Labels.....66

Notifications and Alerts.....68

Document and File Management.....69

05

DATEX MANUFACTURING EXECUTION SYSTEM.....70

Production Planning and Scheduling..... 72

Production Management.....75

Special Manufacturing Features.....76

Quality Assurance/Quality Control Processes.....78

Inventory Management.....81

Record Keeping.....82

TABLE OF CONTENTS

06

HEALTHCARE WAREHOUSE MANAGEMENT SYSTEM,.....84

Overview..... 86

Government Regulations..... 88

Reduce Operational Costs..... 91

Validation Service Documentation..... 92

Pharmaceutical Sample Management..... 93

Inventory Management..... 94

Serialization..... 96

Nested Aggregation Capability..... 97

Handling of Hazardous, Fragile and Perishable Inventory..... 98

Inventory Management Capabilities..... 102

WMS Audit Trail 102

Customizable Reporting Capabilities..... 104

Seamlessly Integration..... 108

07

DATEX FOOTPRINT 3PL WMS FOR PHARMA.....110

3PL WMS Overview..... 112

Production Planning and Scheduling..... 116

Inventory Management..... 119

Third Party Billing..... 120

3PL Billing Features..... 123

Online Customer Portal..... 124

User Specific Notifications and Alerts..... 126

Returns Processing and Reverse Logistics..... 127

Shipping Management..... 128

08

CMO/CPO MULTI-CLIENT OPERATIONS.....130

Overview..... 133

Production Planning and Scheduling..... 135

Inventory Management..... 137

Multi-Client Billing..... 138

Billing Features..... 140

Online Customer Portal..... 142

Returns Processing and Reverse Logistics..... 144

User Specific Notifications and Alerts..... 145

Shipping Management..... 146

09

DATEX SERVICES.....148

Why Select Dutex as Your Hardware Solutions Provider..... 151

Keep your Business Up and Running Using Technology..... 152

Mobile Device Mangement MDM..... 155

EDI Service..... 157

Integrations 159

QUIZ: Looking for Software for your Pharma Supply Chain Business?...160

1

DATEX TAKES ON PHARMA INDUSTRY CHALLENGES



SPECIALIZED FEATURES/ FUNCTIONALITY FOR THE PHARMACEUTICAL INDUSTRY

Datex Footprint® WMS is an ideal solution for pharmaceutical and biomedical manufacturers due to its system flexibility and seamless capture of real time information. The Datex warehouse management software can be used by a variety of supply chain businesses including but not limited to 3PLs, contract manufacturers, distributors and contract packagers. Information regarding serialization and chain of custody is integrated seamlessly into the network.

An automated data collection and process solution, Datex Footprint WMS preserves an audit trail, ideal for compliance with FDA 21 CFR Part 11 and ensures accountability. To facilitate DSCSA compliance, the

Datex warehouse management system records item level serialization and labeling and can readily handle high transaction volume. In addition, the system captures and records business events such as commissioning (generating and applying labels to products); packing and shipping serialized items. The Datex system can generate Serialized Global Trade Identification Number (sGTIN) labels with 2D barcode and maintains an association for the Finished Goods Item (FG) and Global Trade Identification Number (GTIN).

The solution enables Lot control and genealogy for easy to use track and trace functionality.

GENERAL SYSTEM CAPABILITIES

Supports multiple packaging levels: pallets, case, each, dose, batch

Supports multiple units of measure including lbs, kg, oz, g, L, mL

Provides change control and security

Provides controlled process for proper flagging of inventory that is damaged, expired or recalled

Enables pharmaceutical sample management

Includes the ability to track and locate CSOS records and forms

Provides user specific notifications/alerts

Facilitates FDA CFR 21 Part 11 and DSCSA compliance

Validation ready

DPMS PEDIGREE

In order to meet the needs of DPMS pedigree to maintain the authenticity of the pharmaceutical goods and/or components, Datex Footprint WMS has the capability of maintaining electronic files associated to the item, Lot or serial number. This can be generated on demand using Microsoft Windows Workflow Foundation, embedded within Datex Footprint WMS. This

information can be used downstream to allow each shipping case to be transmitted electronically or printed on demand.

In addition, Datex Footprint WMS can be integrated with a DPMS e-Pedigree system to produce pedigree for each shipping case and transmitted in a DPMS pedigree envelope file.



GS1 STANDARDS IN THE PHARMACEUTICAL SUPPLY CHAIN

Datex Footprint WMS supports the full vocabulary of EPCIS events and records all EPCIS events with date and time stamp. In addition, the system can accept an EPCIS file containing GTIN, serial number and disposition “destroyed”

Can establish an EPCIS status record when goods are returned, posting them as “decommissioned”

Will ensure that serial numbers are unique and allocated only once for any GTIN

Uses digital signatures and data encryption as necessary in order to maintain data confidentiality, authenticity and integrity

Interfaces with serial number event repositories via EPCIS and is capable of confirming that allocated GTIN and serial number combinations have not been used previously



PHARMACEUTICAL SERIALIZATION AND PRODUCT AUTHENTICITY

Datex Footprint WMS supports serialization encoding requirements for countries outside the United States and has been implemented throughout North America, Latin America and the Middle East. The Datex warehouse management solution can be used to receive information from packaging and record Global Trade Item Number (GTIN), serial number (between 6 and 20 alphanumeric characters, alphanumeric Lot

code, and expiration date encoded in a GS1 Datamatrix symbol.

The software can receive e-pedigree and transmit the information when the product has been sold. Datex Footprint WMS can transmit serial numbers and serialized content to serialized container relationships as EDI Advanced Shipping Notices (ASNs) and produce a DPMS e-pedigree.

Ideal for handling serialized goods:

- Ability to output starting and ending serial numbers to establish a range of allocated serial numbers
- Ability to electronically sign applicable records
- Ability to ensure that serial numbers are unique and used only once
- Management of multiple serial number formats; system can generate unique serial numbers using any established standard including GTIN and SSCC
- Serialization event repositories are capable of recording an infinite number of content-to-container levels, including storing serialization for units within the smallest saleable unit such as syringes in a carton
- Reserving large blocks of serial number for assignment and allocation of serial numbers
- System will output starting and ending serial numbers to establish a range of allocated serial numbers
- Serialization encoding requirements for other countries
- Multiple, different serial number formats in the same system
- 11 digit serial number without leading zeros
- Integration with EDI to share serial numbers and serialized content to container aggregation to produce EDI ASNs when goods are shipped to 3PLs
- Allocation of serial numbers for traceability to ensure that records are completely written-critical if process is interrupted (failed hardware, etc.); partially recorded information will be rolled back to preserve the integrity of the data
- Allocation of serial numbers to ensure that each is unique and allocated only once for any GTIN
- Interface with serial number event repositories via EPCIS for confirmation that allocated GTIN and serial number combinations have not been used previously

The Datex solution supports 96-bit RFID encoding for serialized goods. Datex is now a partner to Jamison RFID, an industry leader in RFID technology solutions and can provide an end-to-end solution for data collection and chain of custody using the latest RFID solutions.

TRACK AND TRACE/ TRACEABILITY

Can track samples pulled from manufacturing for testing and use in laboratories

Track and trace by component, batch, package, vial, Lot, serial number, SKU, UPC, GTIN, GS1-128

Traces Lot numbers back to suppliers, through clients by Lot or batch or through outsourcers

Tracks DEA numbers and DEA expiration

Tracks orders based on expiration date, serial number and batch number

Captures and tracks expiration date and test certifications

Manages the traceability of compounding facilities

Datex Footprint WMS provides complete Lot track and trace down to the ingredient level, ideal for product recalls as well as by Lot, serial number, SKU, UPC, component, batch, package or vial.



VALIDATION

The Datex team is experienced in providing validation services for clients working in regulated industries. The validation process provides a structured method for assessing, testing and documenting that the software operates as designed and complies with industry regulations and provide a greater level of control for the operation of the business. In providing validation services, the team will first work with the client team to develop a clear understanding of the project scope, business processes and requirements and other project and operational details. Documentation of features and functionality will ensure that the appropriate test scripts are developed in order to demonstrate that all requirements are satisfied. A development environment will be installed with the software system so that the validation team can prepare the required validation documentation.

Quality Assurance team members will execute the validation plan, record all results and deviations. Once the validation process has been completed within the testing environment, all documentation will be signed and approved. An accounting of all exceptions and deviations will be provided. The production environment can be installed if there are no deviations or exceptions recorded that violate compliance regulations. The production environment will follow the same procedure at the testing environment.

Any software updates or patches require validation and will follow updates to the initial validation plan. The subsequent validation cycles will be scaled down versions of the initial validation and will extend the unbroken historical timeline of the system or process.



FDA 21 CFR PART 11

To meet the needs of 21 CFR Part 11, Datex Footprint WMS includes a comprehensive time stamped audit trail showing detailed information by user. The system date and time stamps every action whenever an electronic record is created, modified or deleted and cannot be edited. The system date and time for audit trails are generated from a single secure reliable source.

Once an ID is attached to an electronic record, it cannot be reassigned or deleted but can be deactivated. Access to the audit trail is severely restricted and is permissions based using role based security that only

a systems administrator can access and alter. System access is automatically restricted to authorized individuals using a unique user ID in combination with a password.

Datex Footprint WMS includes added security provisions to protect data integrity. Passwords must be changed at established intervals. Additional controls are in place to safeguard the system from deliberate or inadvertent alteration or destruction. Datex Footprint WMS also includes the means to prevent, detect and mitigate the harmful effects of viruses, worms and harmful code.

Specific capabilities:

- System enables administrator to assign appropriate privileges to each user account
- Software automatically logs users off after specified period of inactivity
- System includes full audit trail that tracks changes to the system
- System can produce copies of records for inspection and ensures that passwords are changed at established intervals
- Software supports operational checks to enforce permitted sequencing of steps and events

System documentation of Datex Footprint WMS details procedures for establishing new user accounts and associated authorities; retiring user accounts and preventing duplicate user IDs. Documented procedures are provided to instruct system administrators how to ensure that access to system records maintenance by system or computer support personnel is formally managed and an audit trail recorded.



Datex WMS helps ensure regulatory compliance of DSCSA

Supports serialization and detailed pharma product and packaging identification methods

Enables handling, storage and shipment of products down to the individual saleable unit

Includes aggregation capabilities so that pallets, cases, etc. do not need to be opened to retrieve serialization and other information on individual saleable units

Enables tracing of products through pharma supply chain including to each compounding facility, manufacturer, re-packer, distributor, 3PL, etc.

Includes workflow-driven QA/QC processes for timely detection and response including holds and quarantines

Provides options for configurable status (quarantine, on hold, rejected, etc.)

Complies with standardization of data formats

Facilitates swift, accurate notification via multiple methods including EDI, ASN and alerts that can be customized by user

Handles SNIs including NDC + serial number + lot + expiration date and GTIN-14

Capable of capturing and maintaining TI, TS, TH for individual saleable units

Includes the ability to retain documentation on trading partners including licenses, certifications, etc.

Can be used to facilitate returns processing

Can also be used to handle, store and ship pharmaceutical products that are exempt from DSCSA

Provides workflow-driven processes to streamline operations for production, packaging, cartonization, shipping, quality control and quality assurance

COMPLYING WITH DSCSA

The U.S. Food and Drug Administration regulation, the Drug Supply Chain Security Act (DSCSA) passed in 2013. The DSCSA regulation affects businesses across the pharmaceutical supply chain

including manufacturers, contract manufacturers, contract re-packagers, wholesale distributors, third party logistics providers and dispensers.

2

**YOUR “YES”
WMS,**

IT'S A TREMENDOUS TIME TO BE A 3PL PROVIDER

In a stretch of years where many industries have faced slowdowns, 3PLs have enjoyed steady growth. Online retail is surging, and if you're a 3PL with the right capabilities and ample capacity, the future is yours.

But with growth comes complexity. Each new customer arrives with a full bag of customized wants, needs, and fulfillment preferences. Each new shopping season brings new labor challenges, compounded by a persistent labor shortage. As distribution becomes the cornerstone of the brand experience, 3PL providers are asked to shoulder bigger challenges and measured to higher standards.

If a 3PL provider cannot get its arms around operational complexity, the result will be workflow bottlenecks, tedious and time-consuming onboarding, cloudy financial visibility, and a host of other business limitations. It will not be able to respond fast enough and strategically enough to satisfy customer demands. And all that future growth will be unattainable.

The key to success is technology. A strategic investment in the right logistics technology is how the smartest warehouses are run, the toughest operational challenges are solved, the most profitable businesses are built, and the best brand experiences are delivered.

3PL providers who embrace technology innovation will rule the market. They will thrive where logistics requirements are the most complex and where their capabilities delivers the most value.



DOES YOUR BUSINESS HAVE ANY OF THESE CHALLENGES?

- Revenue Leakage/Insufficient Billing Capabilities
- Lack of Flexibility and Scalability
- Inability to Meet Industry Standards
- Lack of Visibility and Tracking
- Cost Management
- Risk Management
- Inventory Management
- Insufficient Support for Integrations and New Technologies
- Inability to handle multi-client single tenant deployments
- Inability to Meet Customer Expectations

YES, OUR WMS CAN PROVIDE YOU WITH

- Unmatched flexibility: Tailor processes, branding, reports, and more to match your needs and that of your customers.
- A streamlined, user centric user interface for increased productivity
- Configurable, innovative technology that can help your business adapt, thrive, and grow

INBOUND OPERATIONS

Execution

- Shipment Scheduling
- Quality Audit
- Inbound Sortation
- Yard Management
- Cross Docking
- Vendor/Carrier Performance
- Receiving
- Flow-Through
- Returns

Inventory Management

- Putaway
- Cycle Count
- Serial # Tracking
- Lot Management
- Physical Count
- Warehouse Transfers
- Inventory Consolidation
- Work Orders
- Inventory Control

Billing

- In/Outbound Handling
- Volume/Weight Billing
- Accessorial Charges
- Owner Specific Billing
- Recurring Storage
- Work Order Billing
- Anniversary Storage
- Auto Invoice Generation

OUTBOUND OPERATIONS

Planning

- Wave Management
- Replenishment
- Constraint Fulfillment
- Dynamic Pick Locations
- Inventory Allocation
- Sortation Scheduling
- Order Consolidation
- Cartonization
- Scale Tickets

Fulfillment

- Pick/Pack
- Value Added Services
- Put to Store
- Multi-Channel Fulfillment
- Quality Audit
- Item Substitution
- Shipment Scheduling
- Pack and Hold

Datex Mobile Web

- Device Independent
- Easy-to-use, feature-rich
- Browser-based for mobile users
- Quick connect
- Compatible with most devices
- Facilitates real time operations and visibility
- Self-adjusting portrait or landscape orientation
- Intuitive interface minimizes training time

Customer Portal

- Easy-to-use self serve portal
- Enables 3PL customers to manage operations in real time
- Tailorable for any brand or customer
- 24/7 access to real time enterprise data and operations
- Robust secured access

YOUR “YES” WMS.



With Datex Footprint WMS, intricate tasks become straightforward, enabling you to say “yes” to more

ACCELERATES ONBOARDING AND TIME TO REVENUE:

Accelerates Onboarding and Time to Revenue: Our advanced capabilities enable faster onboarding of both customers and associates, which accelerates your revenue generation.



CAPTURE EVERY BILLABLE ACTIVITY:

Our flexible billing engine guarantees accurate billing for even the most unique circumstance and eliminates underbilling concerns, ensuring your money won’t get lost in the complexity of your operations.

SEAMLESSLY INTEGRATES WITH THIRD-PARTY SOLUTIONS:

Empower your team with low-code options for custom integrations and access our extensive library of pre-built and native integrations. Datex FootPrint Cloud ensures that you stay seamlessly connected to the digital world and opens up new markets and alternative fulfillment capabilities.

TRANSFORMS THE USER EXPERIENCE:

Experience a role-driven user interface that is perfectly tailored to every customer requirement, and easily updated every time a single requirement changes. You can boost productivity and throughput at every step, while minimizing errors and wasted time.

GAIN TOTAL VISIBILITY AND PROACTIVELY SOLVE PROBLEMS:

Gain a single source of truth with unified visibility across the entire transaction lifecycle that captures every aspect of your operations.

Our platform brings critical real-time information front and center and leverages predictive analytics, so you gain the power to preemptively solve problems and deliver topnotch customer service.



Say "YES" to More Flexibility, Reduction in Operating Cost, and Burden on Your IT Team

Introducing Datex Footprint® WMS, powered by Wavelength

Datex FootPrint WMS is a SaaS warehouse management system designed for visionary 3PL companies with complex customer demands and ambitious growth plans who see technology as a strategic differentiator to achieving exponential revenue growth and unparalleled efficiency.

- Premier SaaS application hosted on Microsoft Azure
- Fully integrated, composed, published and managed within our Wavelength platform
- Inability to Meet Industry Standards
- Intuitive drag-and-drop simplicity
- Zero downtime update capabilities
- Tenant isolation
- Empowers clients to swiftly deploy customized enterprise solutions to meet complex operational needs
- Hosted on Microsoft Azure environment
- Industry-based validations
- Native customized mobile solution
- Easily scalable for growth

Access easily from any location

Readily scalable

Vendor maintains the environment

Enhanced security

Vendor provides upgrades to hardware

Ready access to real time data

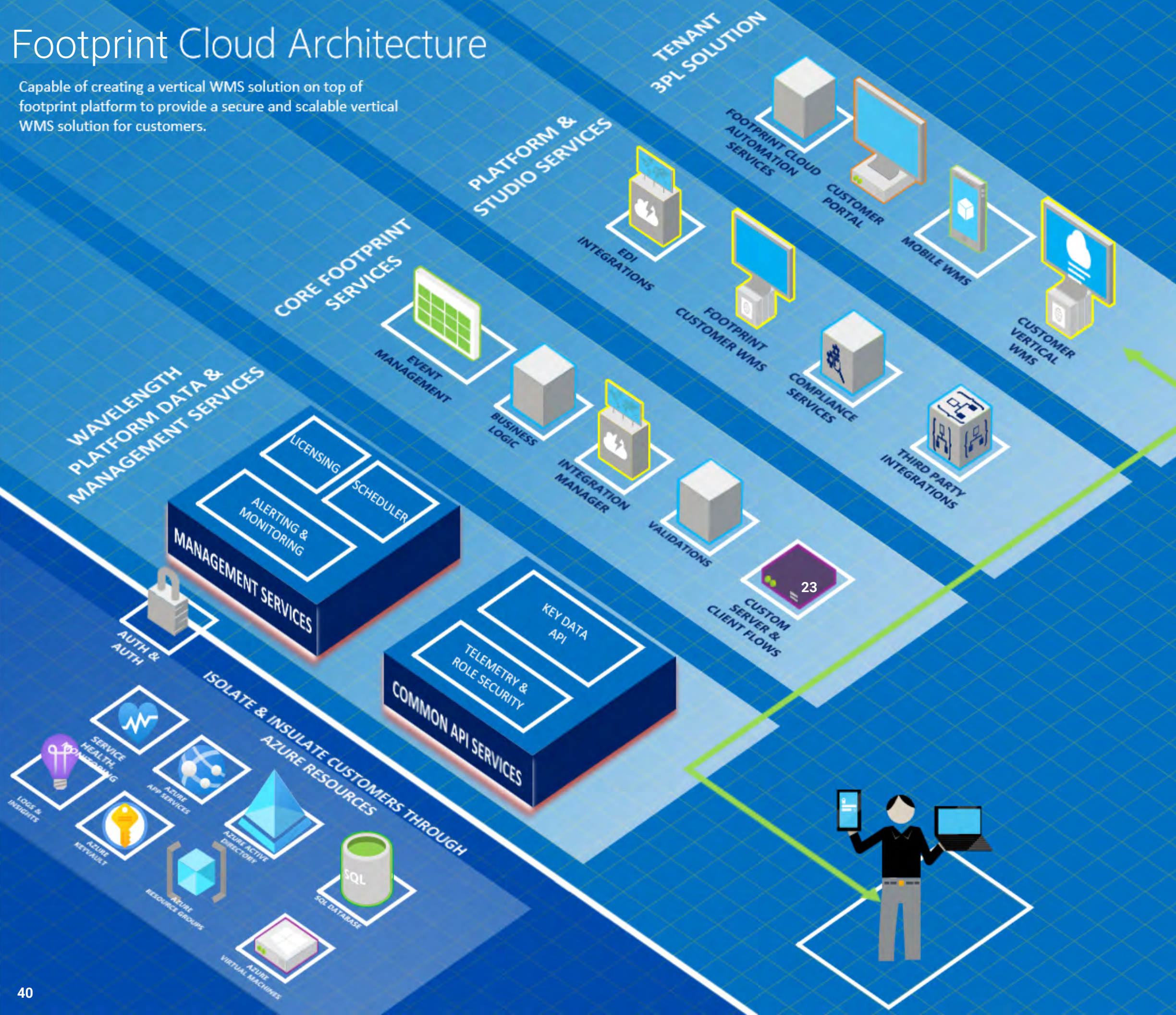


3

**INNOVATIVE
NEW DATEX
TECHNOLOGY
(OMIT FOR 3PLS)**

Footprint Cloud Architecture

Capable of creating a vertical WMS solution on top of footprint platform to provide a secure and scalable vertical WMS solution for customers.



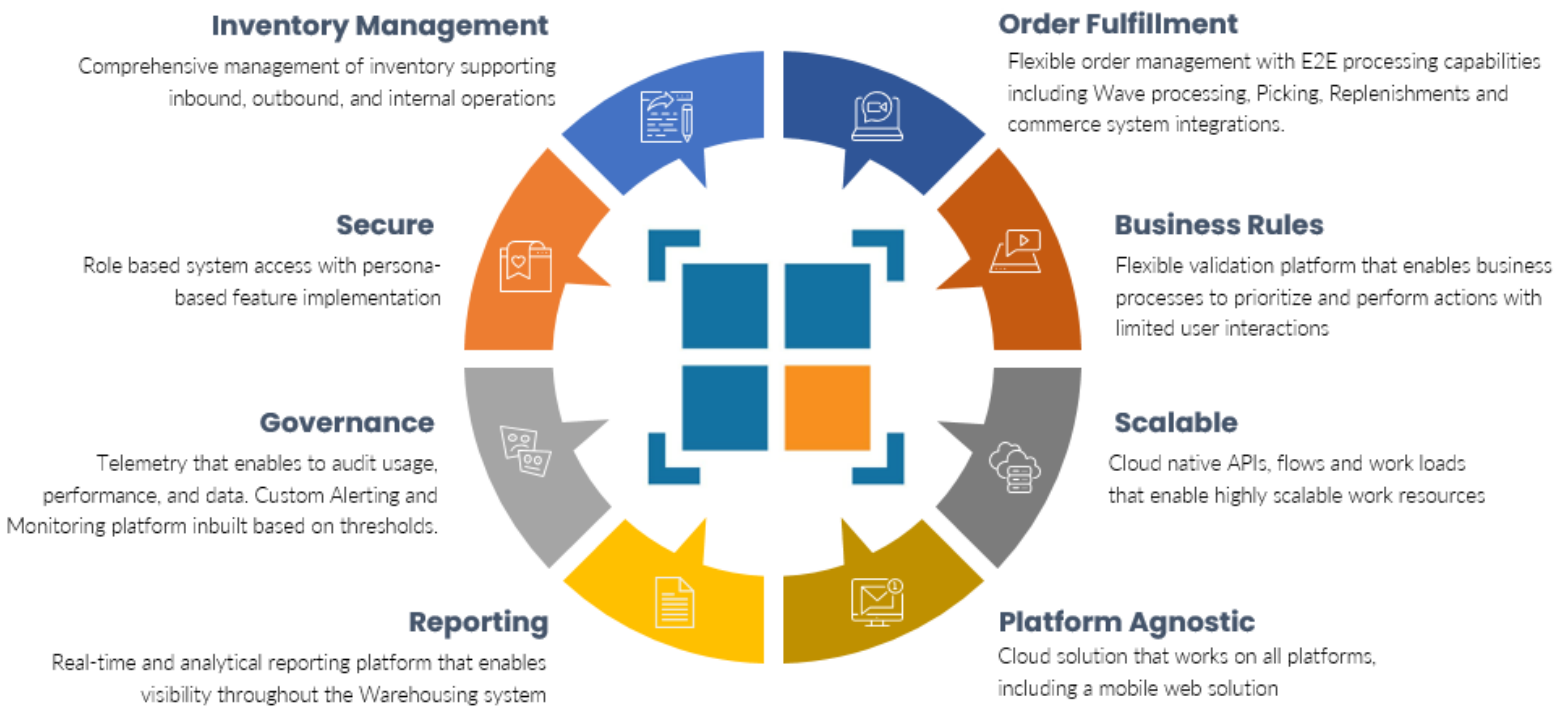
**BRING
DECADES OF
EXPERTISE
UNDER YOUR
ROOF,**

Datex Footprint Cloud WMS is developed on our proprietary Wavelength platform – where we've encoded decades of expertise, collaborating with operations, executive leaders, technology teams, and frontline employees across multiple markets and customers. The combined result is an unparalleled set of core WMS features, along with a native integration to leading supply chain solutions.

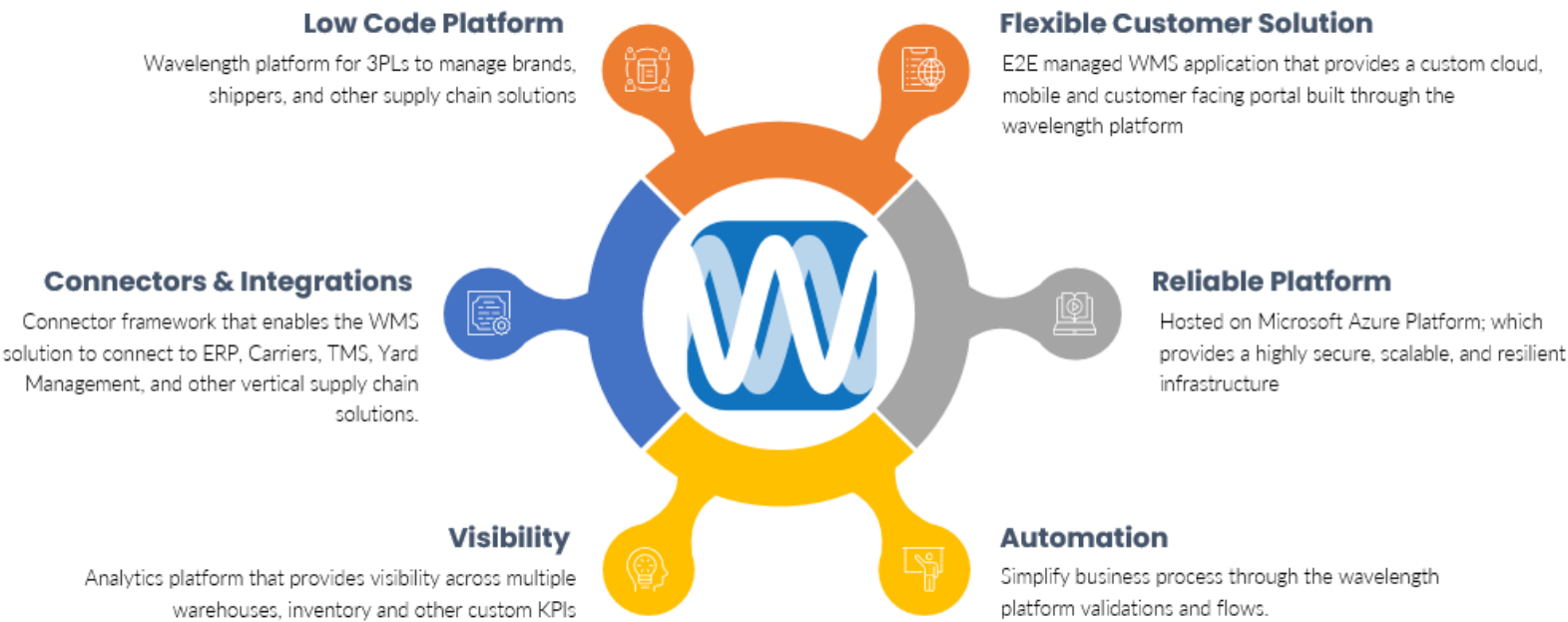
INTRODUCING WAVELENGTH THE NEW DATEX PROPRIETARY LOW CODE PLATFORM

For those who want to significantly tailor Footprint Cloud WMS in-house and develop their own WMS and logistics capabilities, Wavelength gives you the low-code building blocks to chart your own course and an open canvas to do it.

Wavelength and Footprint



Wavelength and Footprint





DATEX FOOTPRINT® WMS FOR PHARMA

**More Than Just A Warehouse
Management System**

DOCUMENTATION AND COMPLIANCE WITH FEDERAL REGULATIONS (FDA)

Physician Payments Sunshine Act -Section 6002 of the Patient Protection and Affordable Care Act (PPACA)

Handles Drug Enforcement Administration (DEA) Controlled Substances Ordering System (CSOS) records and forms

Maintains electronic files associated to item, lot or serial number

Can be integrated with DPMS e-pedigree system

Produce pedigree for each shipping case

Transmit in DPMS pedigree envelope file



FDA 21 CFR Part 11

FDA Drug Supply Chain Security Act (DSCSA)

Tracks DEA expiration

Tracks DEA numbers

S. Department of Health and Human Services (HHS) Prescription Drug Marketing Act (PDMA)

FDA Current Good Manufacturing Product (CGMP)

System validation

Chain of Custody

Batch traceability

Expiry dates

Captures and tracks expiration date and test certifications

Capable of managing traceability of compounding facilities

Lot and expiration date configurable rules including FEFO, FIFO, LIFO and others, food and pharma grade

GS1 barcode automation for NDC, lot and more

Track and trace by serial number, lot, UPC, SKU, component, batch, package or vial

Traces lot numbers:

- Back to suppliers
- Through clients by lot or batch
- Through outsourcers



TRACK AND TRACE AND TRACEABILITY IN DATEX PHARMACEUTICAL WMS

Traceability of components and goods

Tracks orders based on expiration date, serial number and batch number tracking

Tracks samples pulled from manufacturing for testing and use in laboratories





PHARMA SERIALIZATION WAREHOUSE MANAGEMENT SYSTEM

Can receive data from packaging and record:

- Global Trade Item Number (GTIN)
- Serial number (between 6 and 20 characters)
- Alphanumeric lot code
- Expiration date encoded in GS1 Datamatrix symbol

Supports serialization encoding requirements for countries outside the U.S.

Supports, multiple different serial number formats within same system

Supports 96-bit RFID encoding for serialized goods

Supports manually adjusting shipper case aggregation

Allows users to manually build aggregation of items into shipper cases and shipper cases into pallets

Recorded aggregation information can be transmitted as Advanced Shipping Notices (ASNs)

Able to provide and use IARW reports

Allows previously aggregated and seals shipper cases to be opened, items removed and aggregation updated using simple package conversion task

AGGREGATION IN DATEX PHARMA WMS

Records and stores serial numbers and their relationship to serialized containers

Lowest unit of measure would have true serial number

Every level up would be a license plate for an infinite number of level

Able to “drill down” for more details in reports





QUALITY ASSURANCE/QUALITY CONTROL FEATURES OF DATEX WMS

Configurable workflow-based processes ensure warehouse workers complete QA/QC processes properly in the necessary order

- Inspection workflow dependent on product type
- Controlled vs. non-controlled
- Capable of multiple simultaneous holds with automated scheduled releases
- Handles Certificates of Analysis (COA)

Change inventory status by:

- Lot
- Location
- License plate

Inspection

Testing

Quarantine

Holds



INVENTORY MANAGEMENT

Cold storage compatible

- Record and monitor temperatures
- Temperature zones
- Freezer, refrigerator, ambient zones

Serialization

Catch/variable weight

Change control and security

Flags inventory that is damaged, expired or recalled

Putaway process with location restraints

- Controlled substances
- Products requiring refrigeration/freezer storage

Multiple allocation strategies: FIFO, FEFO, FMFO, LIFO, LMFO

Supports multiple packaging levels

Multiple units of measure supported

Provides transaction time stamps



SECURITY FEATURES

Immutable audit trail

Electronic signatures

Role-based security and
permissions

Field-level tracking of all system
changes

System restricts ability to change
inventory status (damages)



PHARMACEUTICAL SAMPLE MANAGEMENT

Verifies credentials and classification for eligibility requirements

Notification of Certificate of Acceptance

Management of specific shipping requirements

Workflow-based cartonization and shipping management

Check of state regulations

Proof of delivery

System manages limitations:

- Doctor
- Manufacturer representatives

Description of material by pallet, case, tray and dose

Different SKU configuration

Certificate of Acceptance tracking
Management of revision-controlled marketing materials

Validation for HCP (Healthcare Practitioner) and HCO (Healthcare Organizations) via integration with MedPro or similar system

Electronic signature



SEAMLESS INTEGRATION WITH OTHER BUSINESS SYSTEMS

Integrate with:

- FDA portal
- National Provider Identifier (NPPES NPI Registry)
- Payment gateways
- ERP

State portals

Aggregate Spend Solutions

Federal Open Payment and State Regulations

ASN and EDI ready

Healthcare Licensing Database Solutions (MedPro or similar)

DMR HCP Solutions (Health-care License Verification)

DPMS e-pedigree system

Accounting and financial systems

- MRP
- E-commerce
- Shipping systems
- Shipping carriers
- TMS
- Material handling systems
- And more





REPORTING CAPABILITIES

Users can create customized reports by “dragging and dropping” fields into the format of their choice

Lot status change report shows release lot, quarantines and more available

FDA

Data resolution process reporting

Exception reports

Process returns report

Healthcare practitioner inclusion and exclusion report

Generate reports for accounts with nearly or already expired DEA numbers

PHARMACEUTICAL INVENTORY LABELS

Capable of printing labels using 3rd party applications including:

- Quarantine labels
- Customer-specific labels

HDMA labels with the following information:

- | | |
|-------------------|-----------------------------------|
| • Name | • Distributed by |
| • Expiration date | • Global Trade Item Number (GTIN) |
| • NOC | • GS1-128 |
| • Lot number | • Serial number |
| • Quantity | |
| • Manufactured by | |





WMS DOCUMENT AND FILE MANAGEMENT

Capable of attaching any file to inventory records including:

- Photos
- Video
- Certifications
- Inspection records

Store photos of damaged product in inventory records

Track and locate CSOS records and forms

USER-SPECIFIC NOTIFICATION AND ALERTS

- Set up alerts based on expirations of
- Account DEA number
 - Account DEA number nearing expiration

Customize by user and role





5

**DATEX
MANUFACTURING
EXECUTION
SYSTEM**

PRODUCTION, PLANNING AND SCHEDULING

Handles planned as well as Just-in-Time (JIT) production

Handles master orders which contain multiple orders going to differing locations

Manufacturing feedback provided by staging area

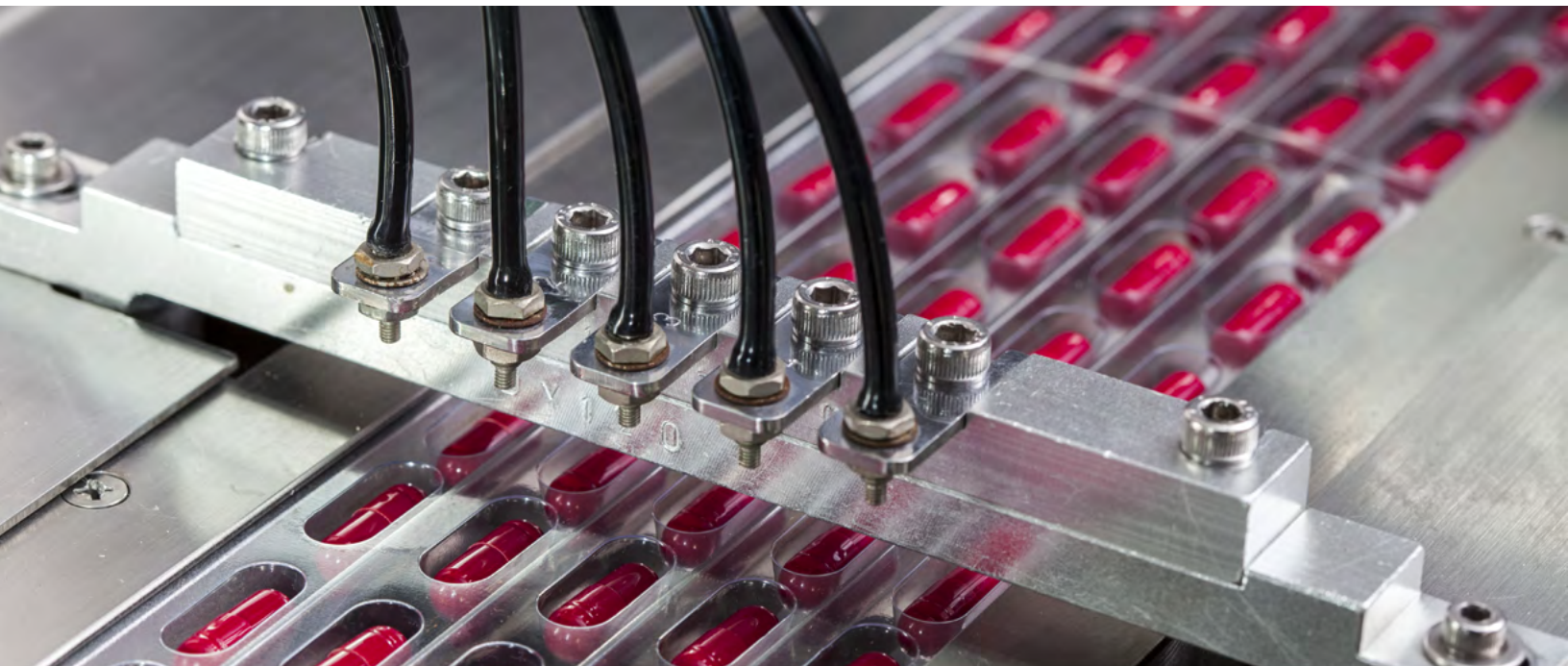
Build production orders

Maintains management controls and visibility throughout manufacturing process

Set up rules for production and storage area requirements

Optimizes manufacturing process efficiencies

- Minimizes production down time
- Handles multiple product lines
- Minimizes waste
- Helps to improve delivery times
- Aids in streamlining production scheduling
- Improves control over yield, scrap and rework metrics



Provides visibility of process manufacturing operations

Can specify production lines

Determines preparation staging areas for raw materials

User-friendly color-coded scheduler

Tracks work-in-progress

Capable of handling raw material substitutions

Automates Bill of Material creation

Keeps track of and balances during production:

- Raw materials
- Components
- Ingredients
- Scrap
- Finished goods
- Batch control
- Expiry dates



PRODUCTION MANAGEMENT

Manages record keeping for FDA compliance

Change control

Handles multiple package changes

Able to customize product conversions by component

Inventory claim feature

Handles owner transfer seamlessly

Link product type to specific equipment

SPECIAL MANUFACTURING FEATURES

System automatically advances product expiration date based upon the time out of the optimal storage conditions (for example refrigeration)



HANDLES MATERIAL TRANSFORMATION

For example: SKU to SKU for packaging changes

QUALITY ASSURANCE / QUALITY CONTROL PROCESSES

Workflow-based quality inspections

Holds

GS1 barcode automation for NDC, lot and more

Workflow-based management of approval process

Quarantines

Schedules inspections

- Visual product inspection
- Testing
- Re-inspections

Product recall management

Lot and expiration date configurable rules including FEFO, FIFO, LIFO and others, food and pharma grade

Change control

Track and trace by serial number, lot, UPC, SKU, component, batch, package or vial

Traceability of components and finished goods

Tracks orders based on expiration date, serial number and batch number tracking

Tracks samples pulled from manufacturing for testing and use in laboratories

Traces lot numbers:

- Back to suppliers
- Through clients by lot or batch
- Through outsourcers





INVENTORY MANAGEMENT

Temperature capture

Restriction of inventory to specific zones

Enables inventory to be stored in a primary or secondary temperature zone

Blind and bulk receiving

Multiple allocation strategies supported: FEFO, FIFO, FMFO, LIFO, LEFO, LMFO and more

RF and RFID-enabled





RECORD KEEPING

System records:

- Dates and times
- Equipment used
- Rework

Electronic signatures

Comprehensive audit trail

ALERTS AND NOTIFICATIONS

System advises users of
status changes and conditions

Customize alerts based on
user role and need

6

**HEALTHCARE
WAREHOUSE
MANAGEMENT
SYSTEM**

HEALTHCARE WAREHOUSE MANAGEMENT SYSTEM

The rising cost of healthcare in America has forced the pharmaceutical and healthcare industry to act. If your company handles, stores, ships or dispenses prescription drugs, medical equipment, medical devices or medical supplies, using a warehouse management software will reduce costs, boost labor productivity and ensure regulatory compliance.

Healthcare and pharmaceutical life science products require much more than simple use of barcode scanners with inventory management software. The level of complexity in dealing with regulated inventory necessitates warehouse management software that has the required flexibility, detailed functionality, capability for documentation and end-to-end traceability to meet regulatory guidelines.





HELPS ENSURE COMPLIANCE OF GOVERNMENTAL REGULATIONS

FDA 21 CFR Part 11

FDA Drug Supply Chain Security Act
(DSCSA)

Department of Health & Human
Services (HHS) Prescription Drug
Marketing Act (PDMA)

FDA Current Good Manufacturing
Product (CGMP)

Physician Payments Sunshine
Act -Section 6002 of the Patient
Protection & Affordable Care Act
(PPACA)

Chain of Custody

Handles Drug Enforcement
Administration (DEA) Controlled
Substances Ordering System (CSOS)
records & forms



REDUCE OPERATIONAL COSTS

Reduces data errors

Improves workforce productivity

Eliminates redundancy

Streamlines quality checks and processes

Reduces regulatory fines for non-compliance

Reduces inventory carrying costs

Decreases warehouse picking errors

Improves warehouse picking speed

Stock out reduction

Optimizes inventory levels and enhances fulfillment accuracy

Enables faster, more responsive operations

VALIDATION SERVICE DOCUMENTATION AVAILABLE

- Feature Request Specification (FRS)/Business Process Analysis (BPA)
- Software Requirements Specification (SRS)
- Software Design Specifications (SDS)
- Software Development and Installation
- Installation Qualification (IQ)
- Operational Qualification (OQ)
- Performance Qualification (PQ)
- User Acceptance Test (UAT)
- Reverse Tractability Matrix (RTM)
- Standard Operating Procedures (SOP)



PHARMACEUTICAL SAMPLE MANAGEMENT

Defines product by dose, tray, case and/or pallet

Different SKU configurations

Tracks Certificate of Acceptance

Electronic signatures



INVENTORY TRACK AND TRACE

By serial number, SKU, VAT, UPC, component, package, batch or vial

Captures and tracks expiration date

Captures and tracks production/ manufacturing dates

GS1 barcode automation for entities including NDC, lot and others

Provides traceability of finished goods

Provides traceability of raw materials, ingredients, supplies

Manages traceability of compounding facilities, third party warehouses and more

Capable of tracking orders using serial number, expiration date and batch number

Can track samples from manufacturing used in testing and laboratories

Enables batch traceability

Provides lot traceability

Backwards to suppliers

Through to clients by batch or lot number

Through to outsourcers

SUPPORTS SERIALIZATION INCLUDING:

Multiple and different serial number formats within the same system

96-bit RFID encoding

International serialization encoding requirements

United States serialization encoding requirements

Capable of receiving data from packaging and records:

- GTIN (Global Trade Item Number)
- 6-20 character serial number
- Alphanumeric lot code
- GS1 Datamatrix symbol-encoded expiration date



FEATURES BUSINESS ESSENTIAL: NESTED AGGREGATION CAPABILITY

Logs and stores serial numbers as well as their relationship to serialized containers

- True serial number would be recorded on the lowest unit of measure

Includes Labor and Time-Saving Simple Package Conversion Capabilities:

- Previously aggregated, sealed shipper cases can be opened, items removed and aggregation updated easily

ENABLES SPECIALIZED HANDLING OF HAZARDOUS, FRAGILE AND PERISHABLE INVENTORY

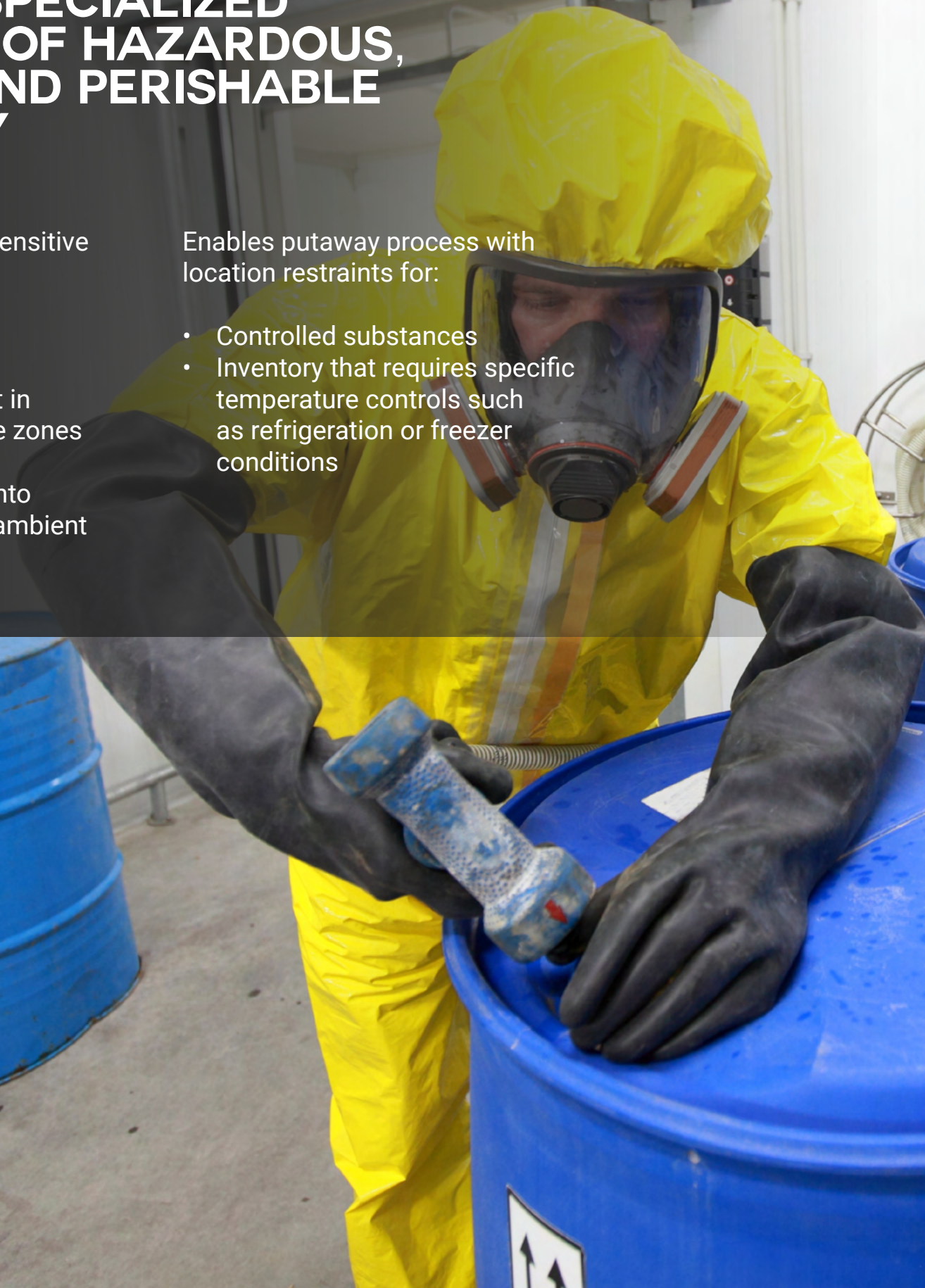
Handles temperature-sensitive inventory

- Record and monitor temperatures
- Inventory placement in specific temperature zones

Can restrict inventory into freezer, refrigerator or ambient temperature zones

Enables putaway process with location restraints for:

- Controlled substances
- Inventory that requires specific temperature controls such as refrigeration or freezer conditions



QUALITY ASSURANCE/QUALITY CONTROL OF HEALTHCARE INVENTORY

Inspections, based on workflows specific to the type of product

Multiple simultaneous holds

Certificates of Analysis (COA)

Testing procedures

Quarantine of goods



INVENTORY MANAGEMENT CAPABILITIES

Handles numerous allocation strategies including FIFO, FEFO, FMFO, LIFO, LMFO

Provides date/time stamps for all transactions

Supports multiple units of measure and multiple packaging levels

Enables full change control and security

Provides flags on inventory which is expired, damaged or recalled

Facilitates putaway process with restraints for:

- Drug products that are controlled substances
- Pharmaceutical/healthcare goods which require storage in freezer conditions or refrigeration

INCORPORATES FULL WMS AUDIT TRAIL

Comprehensive unchangeable audit trail records every action taken using the warehouse management system including:

Quality assurance/quality control processes such as:

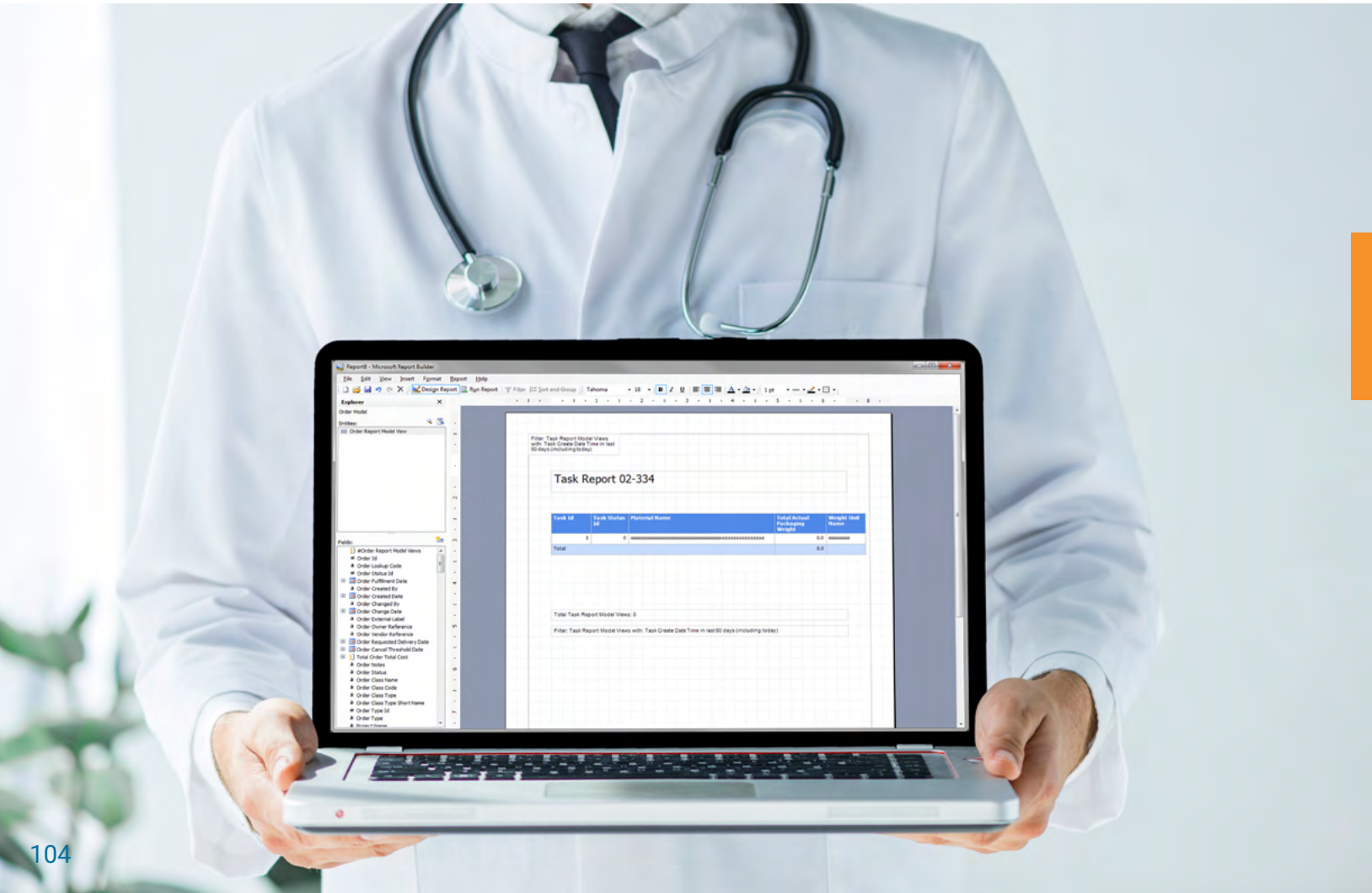
- Holds
- Multiple simultaneous holds
- Quarantines
- Inspections

Inbound and outbound inventory



“DRAG AND DROP” CUSTOMIZABLE REPORTING CAPABILITIES TO MEET HEALTHCARE INDUSTRY NEEDS

- Software users can use standardized reports or create their own
- Sample reports include:
- Exception reports
 - FDA reports or dashboards
 - Healthcare practitioner inclusion or exclusion
 - Accounts which have either expired or nearly expired DEA numbers
 - Lot status change
 - Process returns



HEALTHCARE AND PHARMACEUTICAL INVENTORY LABELS

- Third party integration to print labels
- Customer specific label generation
- Quarantine label generation
- HDMA label generation



DOCUMENT AND FILE MANAGEMENT CAPABILITIES

Users can attach and store any kind of file to inventory records including:

- Controlled Substances Ordering System (CSOS) records and forms, which can be tracked and located
- Documentation of damaged inventory in photos or video
- Certifications
- Inspection records

SEAMLESSLY INTEGRATES WITH REGULATORY PORTALS AND BUSINESS SYSTEMS

Integration Ready WMS
Connects to Provide Real
Time Accurate Data to:

Regulatory and Health Care or Pharma-Specific Portals and Systems

- FDA web portal
- Healthcare Licensing Database Solutions (such as MedPro, etc.)
- National Provider Identifier (NPPES NPI Registry)
- DMR HCP Solutions (Healthcare License Verification)
- State web portals
- Federal Open Payment and State Regulations
- Aggregate Spend Solutions
- DPMS e-pedigree system

Business Systems

- Payment gateways
- Accounting, ERP and financial systems
- E-commerce
- MRP
- Material handling systems
- Shipping systems
- Shipping carriers
- TMS

This is a selection of possible integrations. Datex Footprint WMS is ASN and EDI ready and uses open APIs for easy integration.



**DATEX
FOOTPRINT®
3PL WMS FOR
PHARMA**

3PL WMS

Each customer's raw materials, components, ingredients and finished goods often must be segregated

Must be able to manage multiple client requirements simultaneously while satisfying customer production delivery deadlines, quality standards and other factors.

Each customer needs real time visibility





Segregates inventory by ownership

Bills for all the value-added services you provide

Simultaneous management of multiple customer requirements

Access inventory across multiple warehouses and production facilities

Customize

- Billing
- Operational processes
- Labels
- Invoices
- Documents
- Reports
- And more

Onboard new clients quickly

Easy-to-use billing wizard

Executes owner transfers seamlessly with comprehensive traceability

Accommodates even the most unusual billing requirements

Records “outbound shipment” of original owner’s inventory and “in-bound receipt” for new owner without need to physically touch the inventory or perform typical inbound/outbound processes

PRODUCTION PLANNING AND SCHEDULING

Provides multi-level Bill of Materials

Specifies production lines
Tracks and balances raw materials and inventory during production

Schedules, manages, monitors and tracks production and inventory

Job costing:

- Can be executed at production order level
- Include cost of labor, materials, supplies and equipment
- Usable during manufacturing feedback process
- Batch costing

Can schedule by equipment

Schedule single line manufacturing order across multiple production lines and equipment

Links equipment to product type

Compounding of raw materials

Creates production orders

Executes kitting and assembly as well as de-kitting

Kitting, packaging and assembly





INVENTORY MANAGEMENT

Manages inventory control for both raw materials and finished goods

Executes material transformation (from SKU to SKU, etc.)-ideal for packaging changes

Automatic advancement of expiration date based on time out of optimal storage conditions

Provides bidirectional tracking of:

- Lot
- Expiration date
- Serial number

Able to have multiple instances and units of measure of same product or SKU linked to same or different clients (for client-owned inventories)

Unit of measure levels (length, width, height) available to the .000 (thousandths) level

Can change expiration lead time on specific instances of inventory

Can easily design, assign rules to and assign to client or project:

- Forms and labels
- Pick pack lists
- Pack lists
- Bill of Lading (BOL)
- Manifests
- Pick labels
- Product labels
- And more

Product movement and workflow-based rules are assigned to the client or project

Automatically manage and decrease inventory based on container type selected during containerization

Time-stamped records

PLC, scale and metering systems connectivity

Enables batch scalability

Lot control

Catch weight

Change management

Silo and fluid product tracking logic

Fluid product tank and container logic

Executes product recalls

Streamlines operational processes

Raw material receipts

HIGHLY CUSTOMIZABLE THIRD PARTY BILLING

Generates billing invoice:

- By client
- By client/project
- Recurring
- On the fly

Able to add static monthly charges automatically:

- Support fees
- Management fees
- And much more

Able to calculate variable charges based on:

- Location utilization
- Number of shipments
- Case picks
- Single picks
- Receipts
- Returns
- Other factors

Allows users to manually add one-off charges as needed

Invoice forms are easy to:

- Design
- Assign rules to
- Assign to client/project

Handles export data feeds

- Export invoice data to an outside system

Print, fax and email invoices to desired recipients

- Based on per client or project rules





3PL BILLING FEATURES

Flexible, Automated, Auditable

Accessorial Charges

- Automation of 1x/Month charges
- Ability to bill for non-activity based charges

Handling and Storage Charges

- Storage Billing Options
- Billing by Picking Type.Method
- Billing by Order Entry Type (EDI, manual, etc.)
- Billing by Load Type

Charge accrual based on Transactions

Charge accrual based on Configurable Periods

Billing File Updates based on effective date

Rates Structures based on Activity Codes

Rates Structures based on Customers

- Rates Structures based on SKUs

Ability to bill multiple SKUs within same customer

Rates Structures based on Groups of SKUs

Billing by Anniversary Date

Pre Invoice Charge Audits

Customer Invoicing

Invoice Generation with custom invoice formats

- Ability to put logo on invoice
- Ability to add/change payment terms / verbiage
- Ability to adjust level of details shown on invoice

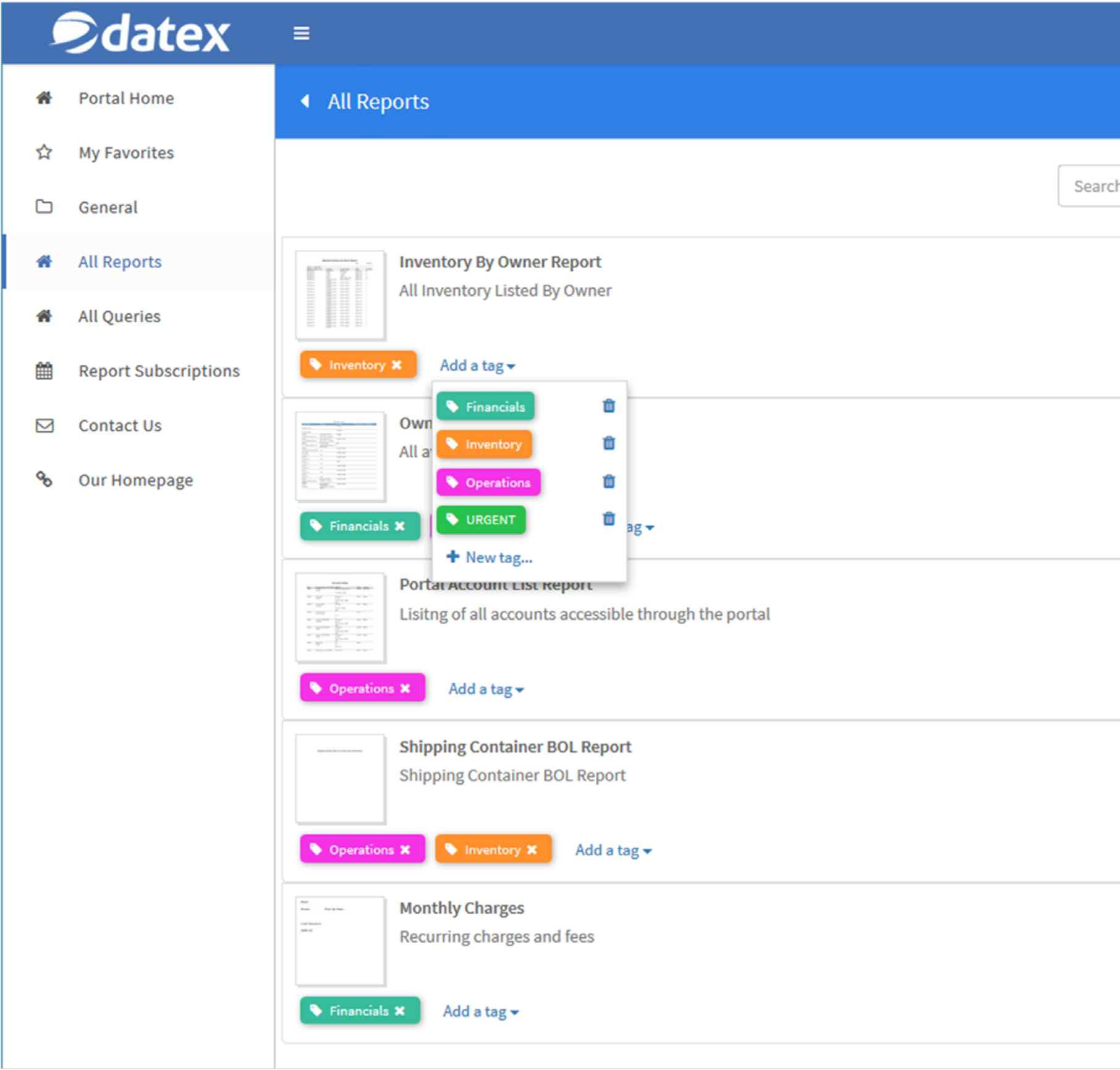
Invoice Printing and tracking reprints

Invoice by UOM other than inventoried UOM for products

Bill by CWT

ONLINE CUSTOMER PORTAL

- Easy to set up and administer
- Capable of inbound and outbound order input
- Ideal for self-serve customer operations
- Real time visibility of lots, inventory and license plates
- Can assign shipments to an existing or new delivery
- “Drag and drop” customized creation or adaptation of reports
- Automated report delivery
- Can add tags and bookmarks to save time
- User friendly system cuts down on training time



USER, SPECIFIC NOTIFICATIONS AND ALERTS

QA/QC processes

- Holds
- Quarantines
- Inspections

Status updates

- Inventory
- Lead time for expiring products

RETURNS PROCESSING / REVERSE LOGISTICS

Enables easy return of goods

- Based on client or project
- Enables return of items not originally shipped or set up in the items master





SHIPPING MANAGEMENT

Integrate with manifest system for rate shopping

- True carrier rate shopping at shipping station and during batch mode
- Enables specific client and project rules on carrier services and add-ons including test scenarios

Performs dangerous goods shipping

- Includes required documentation
- Handles necessary labeling
- Supports data feeds

Receives and manages all carrier shipment status updates including

- Delivery dates
- Exception details
- Sign by
- Signature image

Handles third party billing shipments on the fly on an order-by-order basis

- In batch
- One-by-one

Integrates with manifest system for delivery confirmation

Documentation of shipping process and records

Ability to manifest by day and carrier

Can consolidate and group shipments by client and project

Performs carrier shipping email functions

- Email passed email addresses: shipping and delivery confirmations

Performs international shipping

- Including required customs documents
- Supports data feeds

Can set up and manage unique client and project business rules to manage shipping selections such as services based on:

- Weight
- Number of containers
- Volume
- Shipping location
- State
- Routing

8

**CMO/CPO
MULTI-CLIENT
OPERATIONS**



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Simultaneous management of multiple customer requirements

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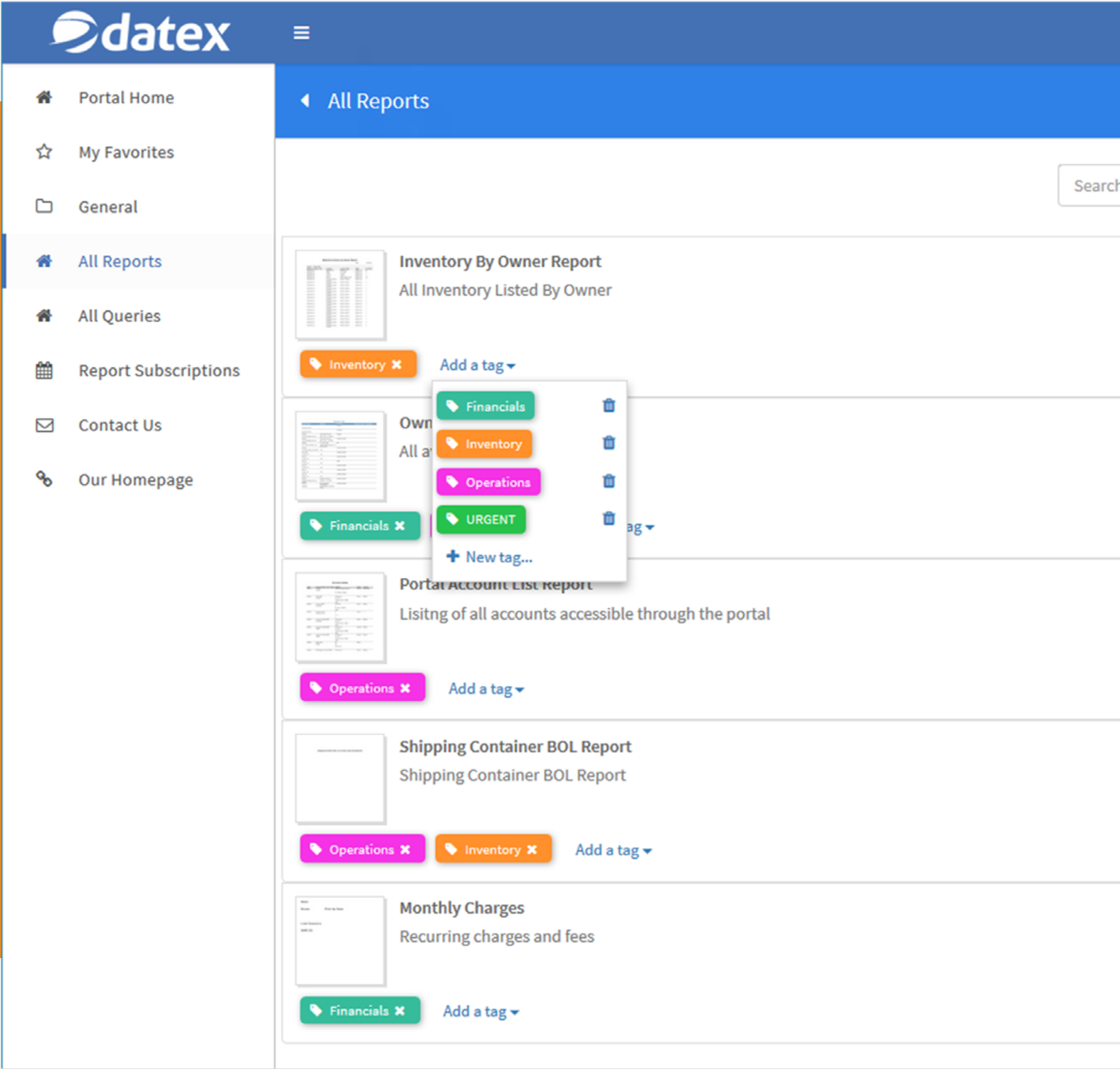
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9

**DATEX
SERVICES**

The latest technology at the lowest prices

Additional Manufacturer Discounts. Datex passes along additional manufacturer discounts to ensure that you always get the lowest price on hardware. As a premium industry partner, Datex is often able to get special discounts that can be passed along to your company.



WHY SELECT DATEX AS YOUR HARDWARE SOLUTIONS PROVIDER,

Helps ensure streamlined Datex software implementations

Free configuration with purchase of hardware from Datex.

Benefit from our experience. Our team has specialized expertise in selecting, configuring and troubleshooting mobile computing and other hardware solutions to work with Datex software.

Save time, money and frustration. With only one vendor to call, there

is no “blame game” or “finger pointing”. Datex experts handle all your needs to help keep your project on schedule and executed to the highest standards.

Optimized wireless coverage. Datex designs customized site surveys for optimal wireless coverage.



Solution Partner

KEEP YOUR BUSINESS UP AND RUNNING USING THE LATEST TECHNOLOGY

Buyback program. Take advantage of our device buyback program to help ensure that you always get the top dollar for used equipment when upgrading to the latest technology for your business.

Loaner devices. Datex can provide loaner devices in case of emergency to help maximize the uptime and productivity of your workforce.

Reliable experts help you manage your technology

Optimal, affordable solutions. In business since 1978, Datex provides technology experts that can help find the best, cost effective solutions for your operation.

Latest technology. Technology experts help ensure that you are advised of new technology advances and services that can benefit your business.

Highly experienced. The Datex team includes experts with more than 15 years of service and experience in providing mobility hardware solutions to a variety of industries.

Top industry partnerships. Take advantage of the long term partnerships Datex has established with industry leaders. Our experts keep up to date continually on industry solutions in order to advise you on the best technology for your business.



Break/Fix and Warranty and Extended Warranty Services on mobile devices and printers



MOBILE DEVICE MANAGEMENT

You need mobile devices in order to be able to always be in sync. Datex can monitor and troubleshoot your suite of mobile devices while in the field and can push software updates, manage security and much more - all while the devices are in the hands of your workforce, not in our office. We'll keep you going, as you need it, when you need it. With a customized program of mobile device management (MDM), IT solutions and services,

your organization will experience enhanced productivity, improved operational efficiency and minimized security risk. To ensure mobile device security, Datex can provide rapid deployment of security changes and access and handle immediate security lockdown of all or specific mobile devices. MDM data from mobile devices can be viewed via a web portal and reports can be generated.

Create a customized plan using all or some of these options to meet your budget and business needs

Rapid software deployment and provisioning

Device configuration

Device troubleshooting and field support

Tracking of all mobile devices

Carrier SIM card activation and load in

Device configuration with carrier

Barcode symbology testing and setup

Shipment with device documentation

Reserve stock program

Service agreement summary with start and end date for carrier service

Why choose Datex?

- No hardware or software
- No internal IT staffing
- No lengthy contracts
- One stop expert EDIs
- No annual fees

Features:

- Complete single vendor end-to-end EDI service
- Streamlined process
- Timely expert service from EDI experts
- Expert project team dedicated to your business
- Handles X12, EDIFACT, XML, and ad hoc flat files
- Fast EDI problem resolution
- Expedited project delivery
- Datex Footprint WMS interface
- Efficient project management
- Unmatched US based support
- Free software updates included

DATEX EDI SERVICE

One vendor, one complete EDI solution. Let Datex streamline your company's EDI services by acting as the single source provider for all EDI needs. Our expert team has years of experience dealing with trading partners and companies in the 3PL, warehousing and distribution,

manufacturing, retail and other industries. Using state-of-the-art technology, our team can save your business time, money and frustration by eliminating the complexity and headaches of dealing with multiple vendors.

Datex handles:

Interface with Datex Footprint WMS

Project management

Communication with trading partners, negotiations standards/formats, testing and go live

Monitoring of interfaces

Proactive handling of any issues related to EDI

INTEGRATIONS

- ERPs
- MRPs
- LMS
- Accounting Systems
- Shipping Carriers
- Scales
- CRMs
- Shopping Carts
- Material Handling Systems



LOOKING FOR SOFTWARE FOR YOUR PHARMA SUPPLY CHAIN BUSINESS?

Better make sure the software:

- ✓ Facilitates FDA 21 CFR Part 11 and DSCSA compliance
- ✓ Capable of handling individual saleable unit serialization
- ✓ Includes an option for an Electronic Batch Records System
- ✓ Is validation ready
- ✓ Includes aggregation capabilities
- ✓ Includes workflow-driven quality assurance/quality control features
- ✓ Includes an immutable, comprehensive audit trail
- ✓ Supports GS1 standards including EPCIS events
- ✓ Facilitates rapid track and trace to the component, batch, package or vial level
- ✓ Is workflow-driven to ensure streamlined, accurate operations
- ✓ Provides the ability to customize reports and dashboards
- ✓ Includes role-based security and user permissions
- ✓ Facilitates documentation and compliance with regulations
- ✓ Supports sophisticated inventory management functionality including for cold storage
- ✓ Is capable of printing labels such as HDMA, quarantine, customer-specific and more
- ✓ Has production planning and scheduling capabilities
- ✓ Enables electronic signatures
- ✓ Is integration-ready
- ✓ Includes versions for 3PL, distributors, manufacturers, re-packagers, CMO/CPO
Enables third party billing to multi-client specifications
- ✓ Provides a web portal for 24/7 access
- ✓ Facilitates returns processing
- ✓ Provides optional add on modules such as cartonization, procurement and shipping management
- ✓ Can provide support for multiple packaging levels and units of measure
- ✓ Enables pharmaceutical sample management

Datex Has It All!



YOUR “YES” WMS.



With Datex Footprint WMS, intricate tasks become straightforward, enabling you to say “yes” to more

- Accelerates onboarding and time to revenue
- Captures every billable activity
- Seamlessly integrates with third-party solutions
- Provides total visibility and helps to proactively solve problems
- Transforms the user experience, boosting productivity and throughput

**Contact Datex today and see how
The Yes WMS can transform your
operation**

datex

www.datexcorp.com
marketing@datexcorp.com
727.571.4159