# Enabling and Optimising External Manufacturing and Material Supply with MINT and Opus



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## Agenda

External Manufacturing Business Goals & Supply Chain Challenges

**Technology Constraints** 

Use Case Spotlight: Digitalizing External Manufacturing with Opus

Value Realization

Q&A

### MAHs & CMOs Operating in Process and Data Silos

#### **Manufacturer Trends**



### **CMO Trends**



Inconsistent and delayed demand signals creating forecasting challenges



Increasing customer requests for visibility and automated data exchange



Increasing supply disruptions from geopolitical and natural causes.



Delays in API delivery and other suppliers creating machine capacity constraints.



Increasing reliance on CMOs pressuring manual and paper-based processes



Constant pressure to reduce Cost of Goods

## Current Options for Sharing Information Digitally with Partners are Costly, Inefficient, and Will Not Scale to 100% of Your Supply Chain

## **Everyone is Asking Trading Partners** the Same Questions:

- Has my supplier accepted the PO in full?
- Is my order ready to ship?
- Does my CMO have capacity?
- · Is my batch quality released?
- How much raw material inventory does my CMO have?
- Where is my shipment?
- Did my customer receive the order?
- · What is the real-time and forecasted demand?
- Has my return been authorized?
- ...

#### **Hire and Train More People**

- · Resource intensive, labor cost does not scale
- · Data entry errors
- · Emails, PDFs, and spreadsheets
- Different processes for each partner

### **Develop Company Specific Portals**

- · Everyone has their own portal
- · Data entry errors
- Initial and ongoing IT costs and security risks

### **Establish Point-To-Point Integrations**

- Authenticate and onboarding partners
- Building integrations
- Maintaining integrations when systems or partners' systems evolve

Your suppliers, contract manufacturers, 3PLs, and customers all face the same accessibility challenge

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### **External Manufacturing Orchestration – Use Case Spotlight**

MAH / Brand Owner

Life Sciences



Procurement Supply

Chain

- External Manufacturing
  - п 📴

• EMEA HQ w/ US Ops

- >100 Global Markets Served
- >23,000 Employees
- >\$9.6B Annual Revenue

- EMEA HQ w/ Global Ops
- >50 Global Markets Served
- >10,000 Employees
- >\$1B Annual Revenue



- 1. Integrate top 12 key CMOs digitally over next 12 months
- 2. Digital exchange of POs, PO Acks, ASNs, inventory balance, material issuance & consumption
- 3. Improve PO confirmation rate and API visibility @ CMO

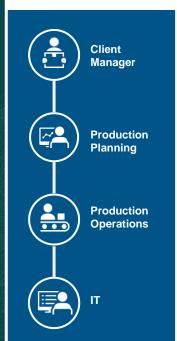
### Business Impact – We aim to ...

- 1. Mitigate write-off risk owing to buffer stock build up
- 2. Improve production planning schedule
- 3. Expedite receiving process & available to promise inventory

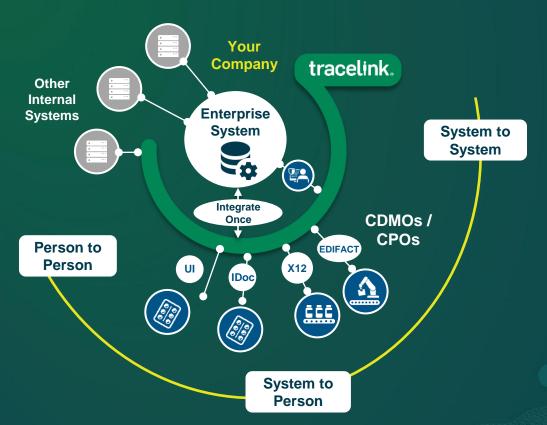
**CMO** 

**CDMO** 





### MINT for External Manufacturing Orchestration



### Integrate-Once<sup>™</sup> for:

- Forecast Planning Schedule
- Forecast Planning Response
- Purchase Order
- PO Acknowledgement
- Advance Ship Notice
- Invoice
- Remittance

- Inventory
   Balance Report
- Inventory Update
- Batch Master
- Bill of Materials
- Master Data

## Real-time business transaction exchange to:

- Align on annual production forecasts
- Confirm PO quantities and due dates
- Ensure inventory availability for upcoming production runs
- Accelerate invoice and payment process

## TraceLink Network Success Supports Full Onboarding & Maintenance

Onboarding

Partners are onboarded and enabled at no cost

Account Management

Single point of contact for all partners, and access to partner training

Maintenance

Maintain the partner accounts & links

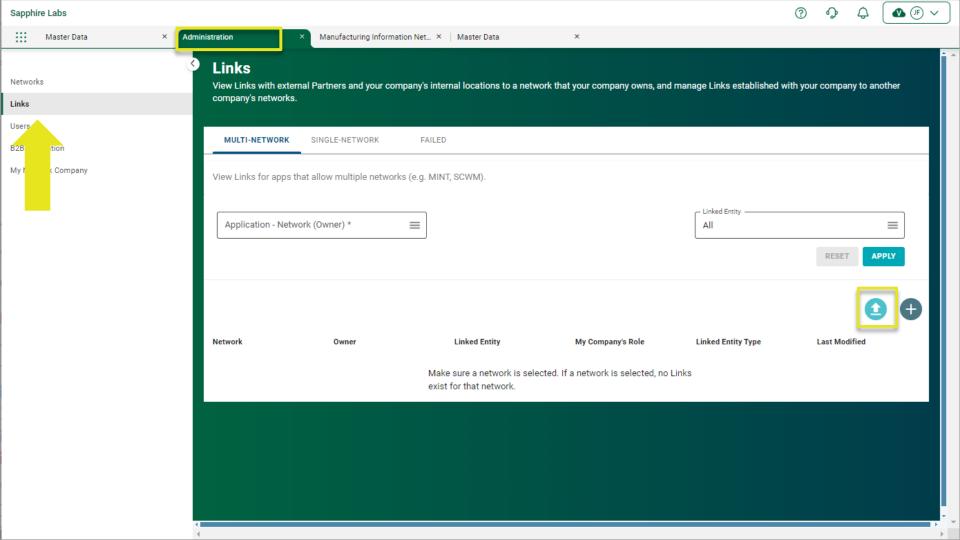
■ Technical Support

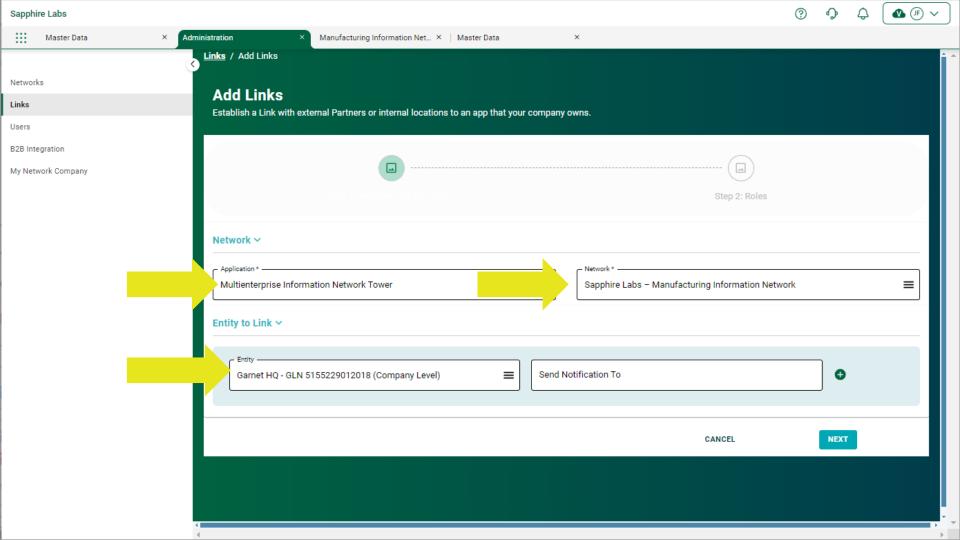
Handle connectivity setup, mapping, and testing

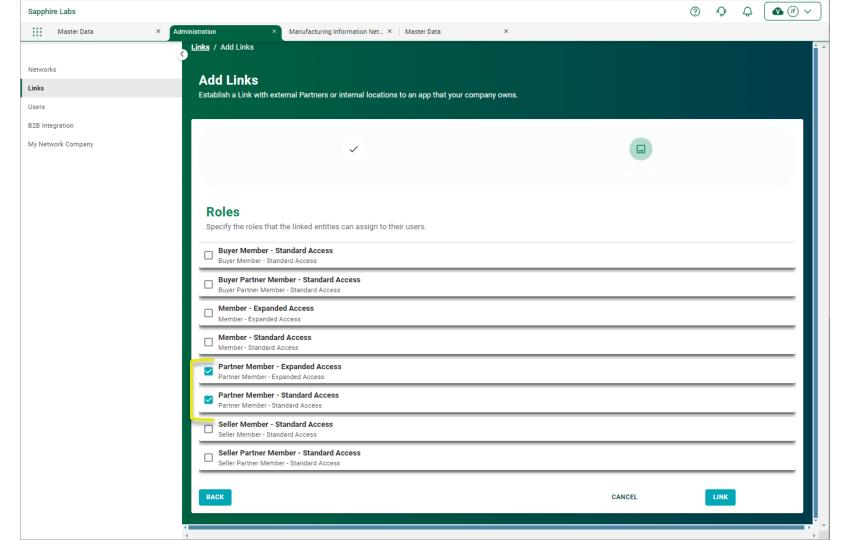


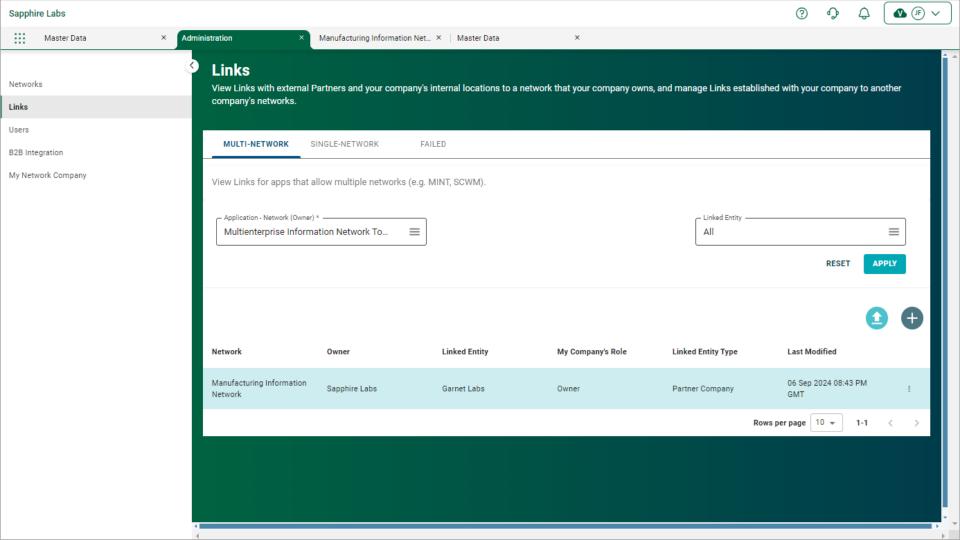
## MINT FOR EXTERNAL MANUFACTURING

### **Product Overview**

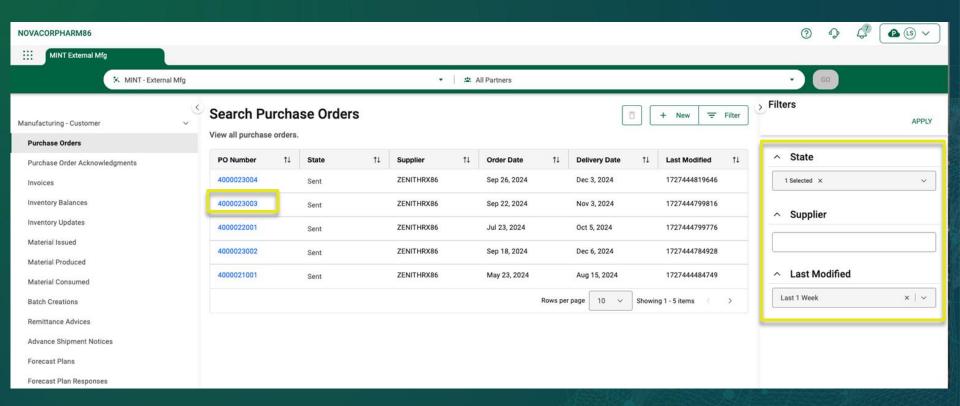




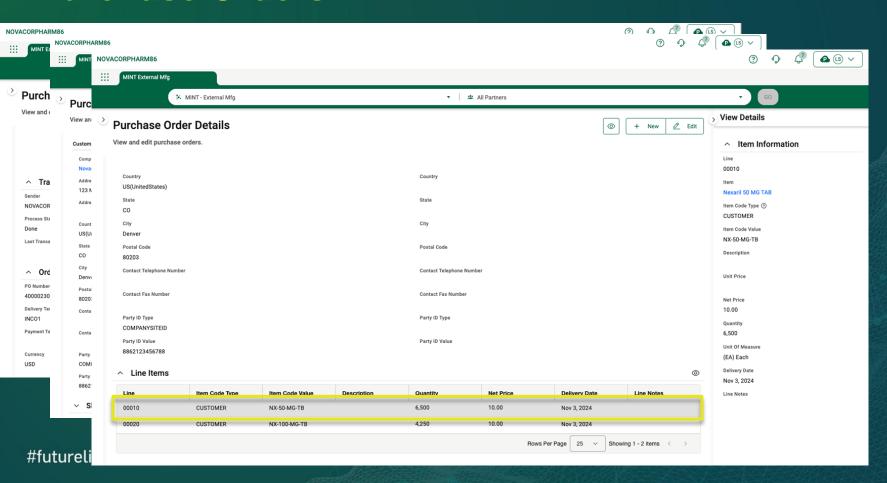




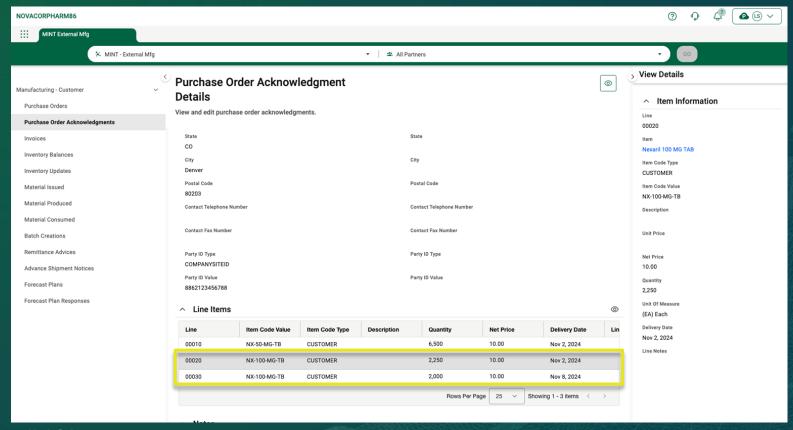
### **Purchase Orders**



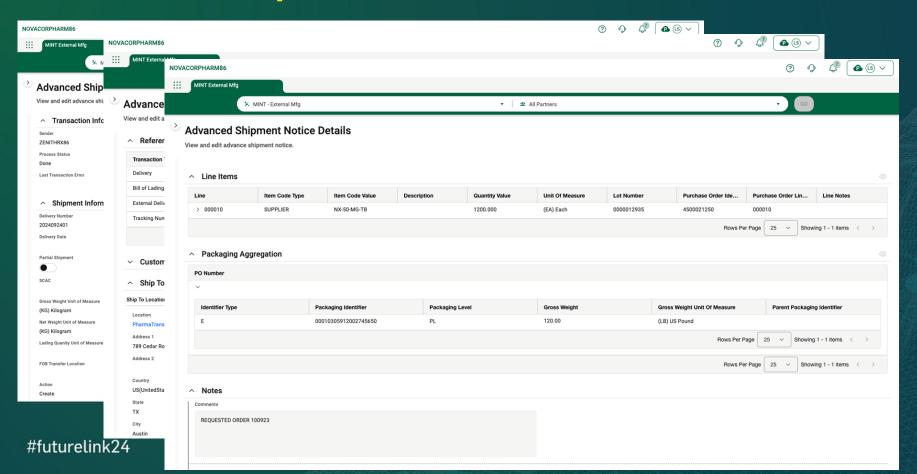
### **Purchase Orders**



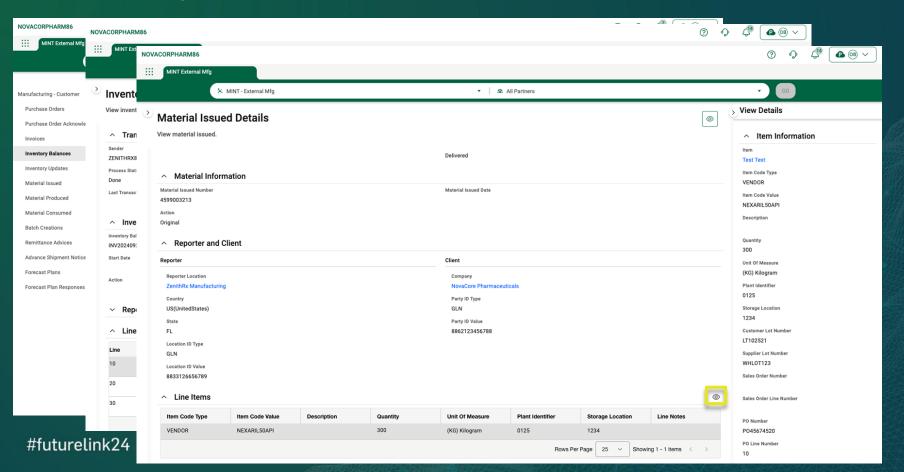
## **PO Acknowledgment**



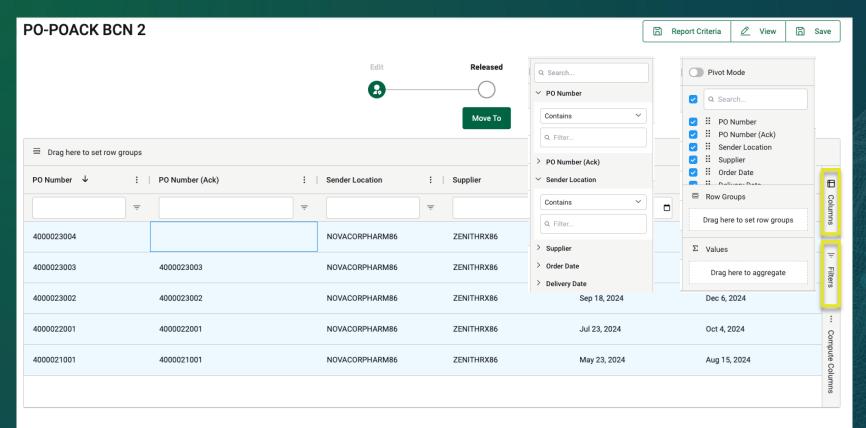
### **Advanced Shipment Notice**

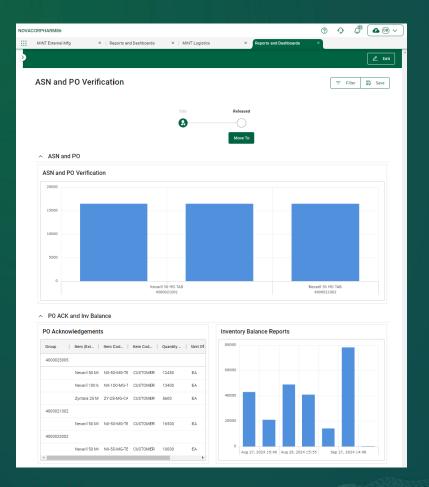


## Inventory & Material Issued/Prod/Consumed



### Reports





## **Dashboards**

### The "Win-Win" Outcome: Why Your CDMOs Will Benefit from MINT



Real-time exchange of forecasts, inventory balances, and purchase orders enables more precise production planning and better capacity utilization.



Improved responsiveness to customer requests for changes ensures better on-time, in-full deliveries with at higher operational efficiencies.



Ensure that the energy, efforts and resources are focused on strategic initiatives, launches/tech transfers and less on chasing open orders and data reconciliation.



Participating in real-time information exchange improves relationship with customer with no onboarding or integration costs.



Single link to TraceLink reduces IT costs related to maintaining outdated modes of information exchange, including EDI and point-to-point integrations.



CDMO can use the single link to improve the operational efficiency with other customers.

