

Why Life Sciences Companies Should Consider Oracle Supply Chain and Logistics Applications in Their Digital Transformation Journey



Intellinum



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INTRODUCTION

Pharmaceutical, biotech, and medical device manufacturers are under immense pressure — managing regulatory compliance, cold chain integrity, product traceability, and supply reliability in a world of rising demand and evolving therapies. These challenges require more than traditional ERP systems or disconnected tools. A modern, resilient supply chain is essential.

Oracle Fusion Cloud Supply Chain & Manufacturing (SCM), including Oracle Cloud Warehouse Management (WMS) and Oracle Transportation Management (OTM), empowers life sciences organizations to build a digitally connected supply network with real-time visibility, intelligent automation, and compliance-ready operations.

Key Reasons to Consider Oracle Cloud SCM, WMS & OTM

ADVANCED TECHNOLOGY DESIGNED FOR LIFE SCIENCES PRECISION

Built on Oracle Cloud Infrastructure (OCI), Oracle SCM applications blend AI/ML, IoT, and automation to support life sciences needs—such as serialized tracking, environmental monitoring, FDA/GxP compliance, and tight control over batch processing and cold chain logistics.

CUSTOMER EXAMPLE



DeRoyal accurately forecasts demand using Oracle Cloud

“Oracle Cloud supports our ability to more accurately forecast, helping us to quickly pivot when market conditions change to meet the needs of both our employees and our customers.”

Senior Vice President of IT, DeRoyal



ORACLE CUSTOMER STORY



For detailed information, visit: **www.intellinum.com**

Oracle Cloud WMS: Intelligent Inventory Control for Regulated Environments



Life sciences distribution centers manage complex SKUs under strict conditions — including lot-level traceability, expiration controls, and validated workflows. Oracle WMS offers:

- Full traceability with serialized, lot, expiration, and temperature data
- Configurable workflows supporting GMP compliance and FDA 21 CFR Part 11
- Secure mobile UIs for controlled picking, cycle counting, and inventory audit
- Workflow automation to reduce manual effort and boost accuracy
- Integration with labelling, robotics, RFID, and cold chain monitoring devices

WHY IT MATTERS FOR LIFE SCIENCES

When patient safety and regulatory compliance are non-negotiable, WMS must go beyond efficiency — ensuring validated processes, clean room controls, and transparent chain-of-custody. Oracle WMS delivers both operational performance and regulatory assurance.

CUSTOMER EXAMPLE

Integra LifeSciences enhances multicloud capability with OCI, achieves 90% time savings and boosts IT efficiency

INTEGRA 



ORACLE CUSTOMER STORY



Oracle Transportation Management (OTM): Secure, Compliant Logistics Across the Globe



OTM enables life sciences companies to design and execute efficient, traceable transportation strategies, including:

- Automated carrier selection with validated lane management
- Route optimization for temperature-sensitive and time-critical deliveries
- Real-time shipment monitoring with IoT-based cold chain visibility
- Automated freight audit, chargeback reconciliation, and contract compliance

WHY IT MATTERS

From clinical trials to commercial distribution, life sciences logistics must be precise. Whether shipping vaccines or diagnostic kits, Oracle OTM supports secure and timely delivery while enabling compliance with DSCSA, GDP, and other standards.

CUSTOMER EXAMPLE

Moderna accelerates vaccine distribution and enhances visibility with Oracle OTM

“With Oracle, we gained better insight into shipment performance, enabling us to deliver millions of doses while maintaining cold chain integrity and global coordination.”



ORACLE OTM CUSTOMER STORY

moderna[®]

End-to-End Functionality for Life Sciences Supply Chains

Oracle Cloud unifies critical life sciences operations through a single digital thread, including:

APPLICATION	KEY LIFE SCIENCES BENEFIT
Product Lifecycle Management (PLM)	Speed time-to-market for therapies with structured, compliant innovation
Supply Planning	Align manufacturing, packaging, and distribution to actual demand and regulatory needs
Manufacturing Execution	Ensure electronic batch records and real-time visibility into production variances
Warehouse Management (WMS)	Maintain strict inventory control and regulatory compliance across all DCs
Transportation Management (OTM)	Enable validated, cost-effective global transportation
IoT & Predictive Analytics	Track cold chain conditions, equipment performance, and supply disruptions proactively

What Makes Oracle Unique?

THE ORACLE ADVANTAGE FOR LIFE SCIENCES SUPPLY CHAINS

Oracle offers a secure, scalable cloud platform with embedded intelligence and continuous innovation — purpose-built to support the complexity of regulated industries.

PLATFORM IMPACT

SCM – Up to 25% shorter cycle times and reduced risk through connected batch planning

WMS – 99%+ inventory accuracy and full traceability with validated processes

OTM – 20–30% logistics cost savings with higher OTIF and validated delivery assurance

What Makes Oracle Unique?

Oracle Cloud supports CPG operations with an integrated digital thread across:

ORACLE ADVANTAGE	LIFE SCIENCES IMPACT
Unified Cloud Platform	Eliminate silos with a common data model across SCM, ERP, and Quality
Built-in Intelligence	Forecast supply needs, optimize batch schedules, and reduce disruptions
Proven in Regulated Industries	Trusted by top pharma, med device, and biotech firms
Secure, Scalable Cloud	Compliant with HIPAA, GxP, and global data protection requirements Quarterly updates bring rapid
Continuous Innovation	Stay ahead with quarterly updates tailored to regulatory shifts

CONCLUSION

Oracle Cloud SCM, WMS, and OTM provide life sciences companies with the digital infrastructure to modernize operations, ensure patient safety, and deliver life-saving therapies more efficiently. Whether you're launching a new product, scaling global operations, or improving compliance visibility — Oracle offers the technology and expertise to make it happen.

Transformation in life sciences starts with a modern, connected supply chain. Oracle Cloud is built for both.