

CLOUD SUPPLY CHAIN EXECUTION PLATFORM

Oware Technologies

O360 Platform

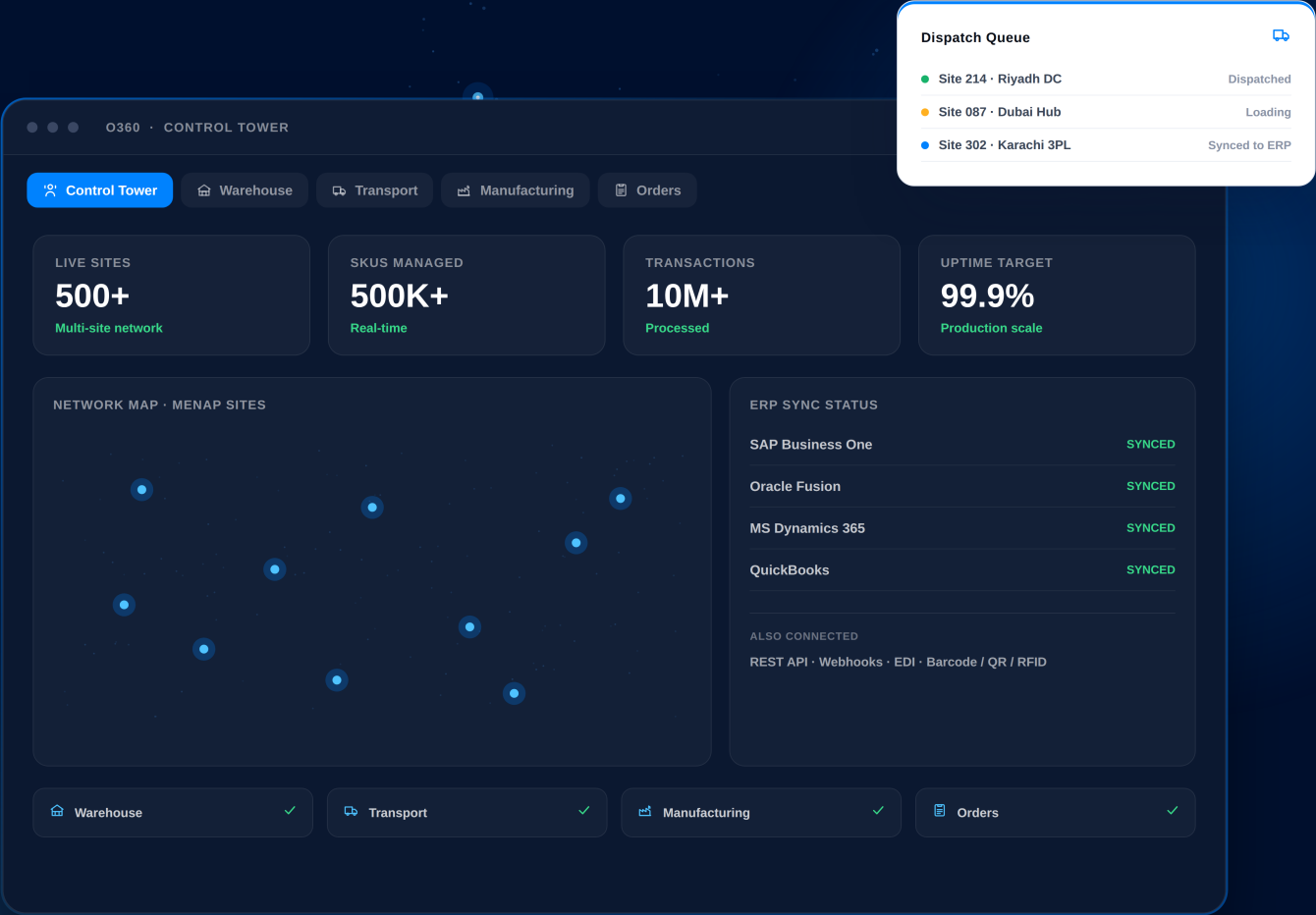
Engineering a real-time execution platform — warehouse, transport, manufacturing and orders, unified on one data model for manufacturers, 3PLs and distributors across MENAP.

500+
LIVE SITES

500K+
SKUS

10M+
TRANSACTIONS

99.9%
UPTIME



INVENTORY VISIBILITY

Real-Time



ENGINEERING SUPPORT

Embedded with Oware's product & engineering team

FEFO Alert Cleared

Pharma batch · Site 118

THE PRODUCT

A single execution layer for physical operations.

O360 is a cloud supply chain execution platform built by **Oware Technologies**, unifying warehouse management (WMS), transportation management (TMS), manufacturing execution (MES), and order management (OMS) on one real-time data model — with a live control tower layer sitting over all of it. It serves **manufacturers, 3PLs, and distributors** operating across MENAP, replacing spreadsheet-run operations with a real execution layer.

As the platform evolved from its early modules into a system running live, multi-site industrial and distribution operations, **Codeinity provided software engineering support across O360** — working directly alongside Oware's product and engineering teams on application development, integrations, and platform enhancements.

PROJECT SNAPSHOT

CLIENT

Oware Technologies

ENGAGEMENT

Software Engineering Support — Application Development, Integrations & Platform Enhancements

TECHNOLOGY

REST API Webhooks EDI SAP Business One SAP S/4HANA
Oracle Fusion Oracle NetSuite MS Dynamics 365 QuickBooks

PROJECT

O360 — Cloud Supply Chain Execution Platform

DURATION

Ongoing engagement, supporting the platform's development well beyond any single rollout

FOCUS

Real-Time Data Architecture ERP Integrations
Multi-Module Platform Engineering

THE CHALLENGE

Five live systems. One source of truth.

As O360 evolved from a set of early modules into a full execution platform, the engineering requirements grew more complex. Warehouse, transport, production and order data all needed to move through one live, consistent model — while syncing two-way with each client's own ERP, without breaking under production scale.

01

Real-Time Consistency

Keeping five live modules — WMS, TMS, MES, OMS, and Control Tower — aligned on one consistent, real-time data model.

02

Two-Way ERP Sync

Syncing bidirectionally with each client's own ERP — SAP, Oracle, Microsoft Dynamics, and QuickBooks — without breaking data integrity.

03

Multi-Site Scale

Supporting a growing live operator network across MENAP, not a single pilot site.

04

System Integration

Connecting REST APIs, webhooks, EDI, and floor-level barcode, QR, and RFID scanning hardware.

05

Production Reliability

Engineering toward a 99.9% uptime target under live, multi-site operating conditions.

FROM CHALLENGE TO SOLUTION

Engineering the path to production scale.

THE NEED

Unify warehouse, transport, production, and order execution on a single real-time data model — syncing bidirectionally with each client's ERP as the platform scaled across a growing multi-site network.

CODEINITY'S RESPONSE

Codeinity worked embedded alongside Oware's product and engineering teams — focused on scalable integrations and reliable data flow across modules, including production ERP connectors such as the Oracle Fusion and SAP Business One integrations with automated dispatch-document posting.

THE RESULT

A production execution platform running live across **500+ sites**, managing **500,000+ SKUs** and processing **10 million+ transactions**, engineered toward a **99.9% uptime** target.

ENGINEERING TRANSFORMATION



ROLLOUT METHOD — SITE BY SITE

- 01 **Discovery**
- 02 **Configure**
- 03 **Integrate**
- 04 **Pilot**
- 05 **Go-Live**

Most customers run a live pilot site within **3–4 weeks** under this five-stage method, with multi-site rollouts following site by site — while Codeinity's engagement has supported the platform's ongoing development well beyond any single rollout.

INSIDE THE EXPERIENCE

One interface for every operation on the floor.

The screenshot displays the O360 Manufacturing interface. The top navigation bar includes tabs for Control Tower, Warehouse, Manufacturing (selected), Orders, and Transport. A search bar is located below the navigation bar, and a 'Site: All Regions' filter is active. The main dashboard area is divided into several sections:

- PICK ACCURACY:** 99%+
- DISPATCH:** 1,284
- FEFO:** On Track
- ERP SYNC:** Live

A table lists inventory items with columns for SKU / BATCH, SITE, STATUS, and ERP:

SKU / BATCH	SITE	STATUS	ERP
SKU-88213 · A44	Riyadh DC	Picked	Synced
SKU-40021 · C12	Dubai Hub	Dispatched	Synced
SKU-91002 · F09	Karachi 3PL	In Transit	Pending
SKU-10432 · B21	Lagos Site	Received	Synced

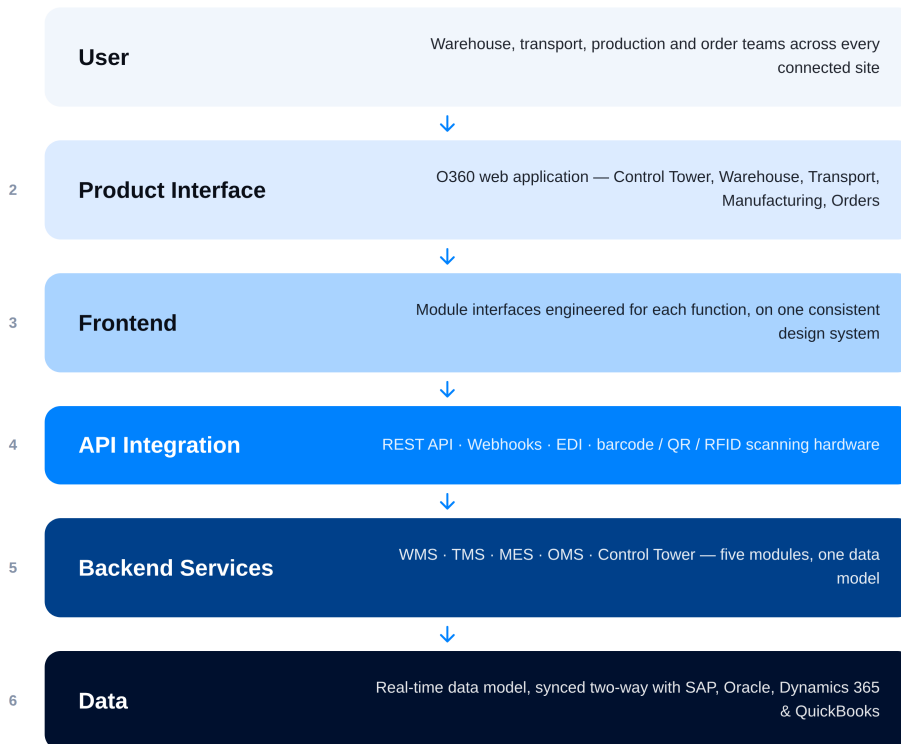
On the right side, there is a 'LIVE SITE MAP' showing a geographical distribution of sites. Below the map, the 'MODULE STATUS' section shows the following:

- Warehouse: ✓
- Transport: ✓
- Manufacturing: ✓
- Orders: ✓

At the bottom of the interface, a row of feature tags is displayed: Real-Time Inventory, Multi-Site Control Tower, Two-Way ERP Sync, FEFO & Batch Traceability, and Dispatch Automation.

BEHIND THE PRODUCT

From the floor to the data model.



ENGINEERING FOCUS

- 
Frontend Engineering
 Module interfaces for warehouse, transport, production and order teams, on a single design system.
- 
API Integration
 REST API, webhooks and EDI connecting O360 to client ERPs and floor-level scanning hardware.
- 
Performance
 Engineered for reliable, real-time data flow across 500,000+ managed SKUs.
- 
Scalability
 An architecture built to support 500+ live sites and 10 million+ transactions.
- 
Product Functionality
 Five operating modules held on one consistent, auditable data model.

SECURITY & COMPLIANCE

- 
Encryption & Access
 Encryption in transit and at rest, with RBAC/SSO and full audit trails.
- 
SOC 2 & ISO 27001
 Security controls designed in line with SOC 2 and ISO 27001 principles.
- 
Data Residency
 Regional data-residency options across the MENAP deployment footprint.
- 
Pharma Traceability
 Strict FEFO enforcement and batch traceability for regulated distribution.

WHAT THE ENGINEERING ENABLED

Production scale, measured in the field.

500+

Live Sites

O360 deployed across 500+ sites for manufacturers, 3PLs and distributors

500K+

SKUs Managed

Real-time visibility across half a million SKUs on the platform

10M+

Transactions

Processed on the platform at production scale

99.9%

Uptime Target

Engineered for a live, multi-site operator network

REPORTED IMPACT ACROSS LIVE DEPLOYMENTS

95%

improvement in network-wide inventory visibility, one distribution network

35%

reduction in stockouts, same distribution network

99%+

pick accuracy, multi-site FMCG operator

30%

cut in dispatch cycle time, same FMCG operator

12%

gain in on-time delivery, 3PL running multi-modal transport

BUILT FOR GROWTH

The platform was designed to support continued business and marketplace growth across MENAP.

CONNECTED

API integrations supported real-time communication between platform components and client ERPs.

USER-CENTERED

The work focused on creating a smooth, reliable digital experience for operators on the floor.

BEYOND THE BUILD

An engineering partnership, not a one-off delivery.

Codeinity's work with Oware has continued well beyond any single rollout — supporting O360's development, enhancement, and optimization as the platform scaled from early modules to a system running across 500+ live sites.

- ✓ Ongoing platform development & enhancement
- ✓ Embedded engineering — working directly alongside Oware's team
- ✓ Technical expertise across integrations & core platform work
- ✓ Flexibility and responsiveness through each phase of growth



Codeinity has been a reliable technology partner for us, bringing strong technical expertise, clear communication, and a practical approach to every challenge. Their team understood our requirements quickly and consistently delivered solutions that aligned with our goals. We appreciate their flexibility, responsiveness, and commitment to quality throughout the project.



Oware Technologies
Maker of O360

3–4 Weeks

to a live pilot site, under Oware's five-stage rollout method

Site by Site

multi-site rollouts follow the same proven method

500+ Sites

supported across the live O360 operator network

Ongoing

engagement, from early modules to today's production platform



CASE STUDY COMPLETE

Build. Evolve. Scale.

Codeinity Solutions

Digital Products

Web Applications

Mobile Apps

SaaS

AI Solutions

Cloud

UI/UX

E-Commerce