



Optimized Operations

A secure, SAP-integrated, and increasingly optimized shipyard where specialized workforces quickly adopt digital transformation *is* within reach.

Challenges

Shipyards operate exceedingly complex logistics operations, combining diverse, integrated supply chains; huge warehouses; voluminous work orders; assembly, manufacturing, and engineering; and intricately orchestrated installation orders. These complex logistics operations must be executed within environments that both call for acute and comprehensive security and that challenge the ability to network distributed workforces to centralized information systems.

EVM Reporting

In earned value management contracts what is reflected in the back-end ERP platform must timely represent actual progress for each hull. To drive accurate cost collection, digital initiatives must deploy fully integrated processes that ensure compliant capture of: time; component issues; returns; production confirmations. These complex operations span multiple SAP modules and require comprehensive *and* adaptable solutions.

Process Composition

While valid, timely transaction posting is a must, forcing industrial staff to scroll through endless screens is not a recipe for

optimization. Process composition allows organizations to tailor what their staff need to see and enter, while automated application logic ensures compliant, complete transaction posting. Composition allows the flexible assembly of screens across multiple SAP domains for staff using mobile devices. Give the data they need and combine views from multiple SAP domains to inform staff.

Applications that Don't Get in the Way

Material receiving, warehouse putaway, work order picking, executing machining/fabrication work orders, delivery to hull side, these processes all share something in common – they need the full attention of staff on the floor and in the yard. Mobile applications need to support but *not get in the way* of staff who need their eyes on the task and both hands free.

Offline and Online

When building military, merchant cargo, or public safety vessels, security can rightly trump connectivity. To support this need for supreme protection from both malicious actors and poor cyber hygiene, solutions need to be designed with fully disconnected computing in mind. Solutions need to provide intuitive, reliable methods to deliver the shift's work to the right staff members through the right mobile devices. When returned at shift end, staff members' progress is seamlessly posted through secure APIs to the back-end ERP systems.

Secure, Optimized, Integrated

Shipyard Transformation with SAP-Certified Mobile Solutions

Versatile Mobile Devices

Mobile solutions need to operate across almost any kind of mobile computing device without requiring major application rewrites. When technical refreshes for mobile devices are not possible, mobile application solutions need to run on older versions of Android or Windows. Similarly, when transformation initiatives introduce new device types, be they upgrades or wholesale new form-factors such as wearable computers, the same mobile application platform must be versatile enough to support any OS on any device.

Across the Yard and into the Hull

Leveraging rugged devices in offline modes, mobile solutions can accompany staff into the hull to record precise locations of installations. Once installed, timely notification with precise shipboard locations are provided to quality inspection teams to complete installation procedures. Updates are then securely and validly posted to SAP to record work order completion.

Process and Team Visibility

Solutions that do not provide detailed views of what is happening with each process and for each team member do not help transformation initiatives to look for further improvements, let alone even keep pace with improvements already deployed. More than just taking data from SAP and representing it in a dashboard, shipyards require visibility into how solutions are used, how processes are affected, and how to better support their staff members.

Operational insights are achieved when true activity and process information is made available through detailed, intuitive, and shareable dashboards. Longitudinal trend analysis, detailed staff views, and end-of shift reports with detailed task-level information.

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Moviynt accelerates business transformation by giving frontline staff tools that connect them to SAP without getting in the way of what they need to do. Our applications are easy to learn, easy to use, and fast. Our solution, Mobilium™, securely runs on a wide range of industrial mobility devices whether they are running Android, iOS, or Windows, or whether they are handheld or wearable. Staff can work online, intermittently online, or fully offline - critical when WIFI is unavailable. Using our native client, our customers' teams get all their device benefits: Bluetooth printing, image capture, signature on glass, RFID, OCR, GPS, and more. Mobilium™ is SAP certified and seamlessly deploys to cloud or on-prem SAP with no middleware and no new servers. Our robust solution studio allows our deployment teams to rapidly configure any workflow, quickly integrate that workflow to SAP, and get it in the hands of our customers' staff. Warehouse Management, Quality, Work Order Management, Production, Pick by Vision/Voice, and handsfree workflows are all available and fully integrated to SAP. Visit us at <https://www.moviynt.com>