

 **nine
altitudes**
REACH NEW HEIGHTS



9Δ nine altitudes

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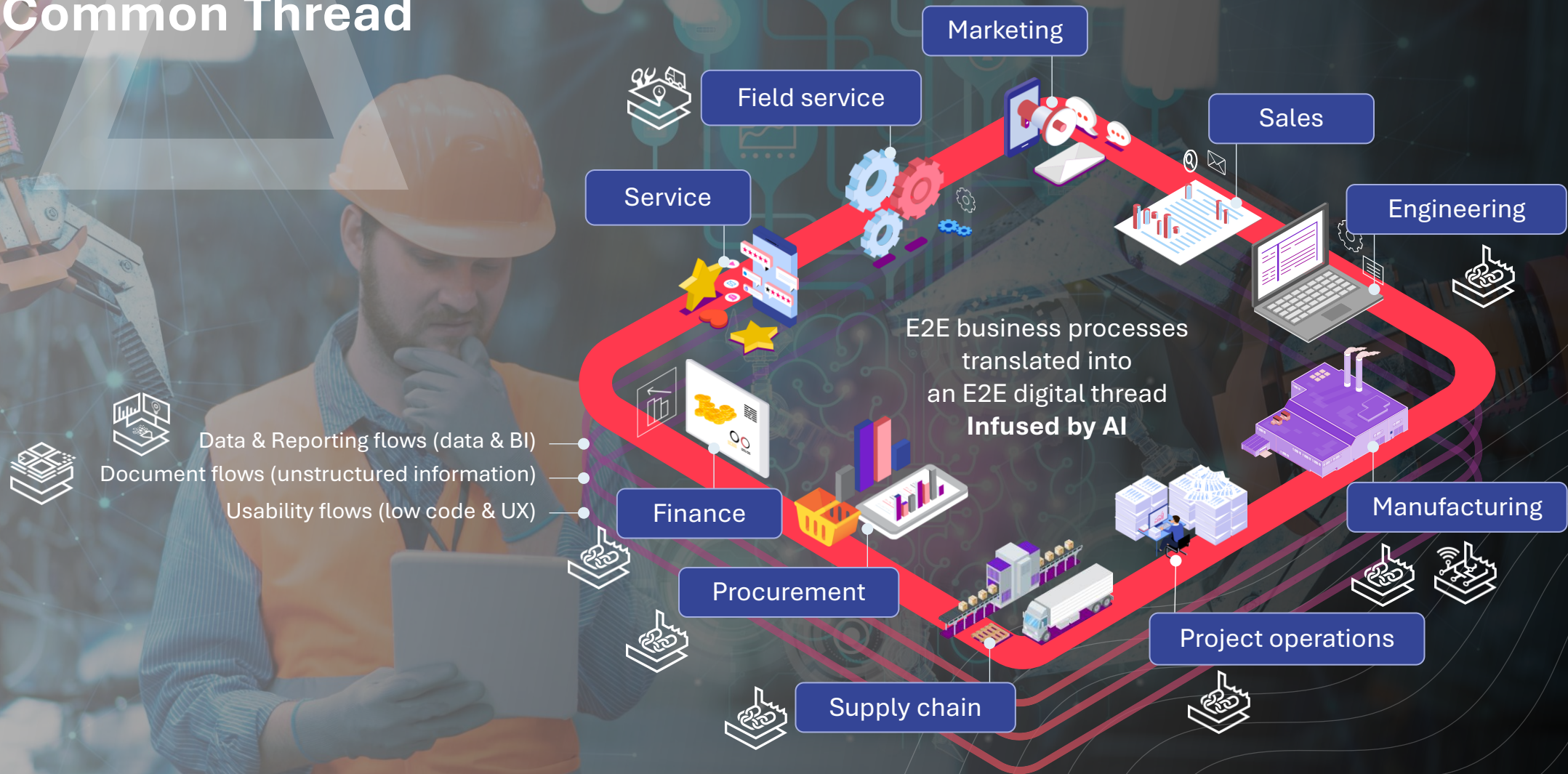
Helping Manufacturing companies
reach new heights **faster,**
safeguarded by proven experience

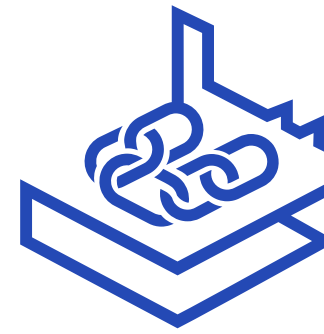
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Manufacturing customers with diverse models (everything ranging from Make-To-Stock to Engineer-To-Order) and complexities, reaching new heights, safeguarded by 9altitudes



Implementing your Manufacturing-specific **Digital Common Thread**





9A Advanced Manufacturing

for Project-Based Manufacturing

A 9altitudes industry solution

9A Advanced Manufacturing

for Project-Based Manufacturing

9A Advanced Manufacturing extends the Microsoft Dynamics 365 Finance & Supply Chain Management platform for general discrete and discrete project-based manufacturing companies.

This **application suite** tackles recognizable discrete and discrete project-based manufacturing challenges, such as: insights in material availability, long lead time items, financial insights on actual cost and WIP, design changes, contractual invoicing, etc...

Extended discrete Manufacturing functionalities

Discrete Manufacturing

Adding discrete project-based functionalities

Advanced Projects

Providing strong connectors

PTC Windchill Product Lifecycle Management

Dynamics 365 Field Service

Dynamics 365 Field Service – Connector

Marketing

Sales

PTC Windchill – Connector

Engineering

E2E business processes
translated into
an E2E digital thread
Infused by AI

Service

Field service

Advanced Projects

Finance

Procurement

Advanced Projects

Supply chain

Advanced Projects

Manufacturing

Discrete Manufacturing

Project Operations

Advanced Projects

Extended Discrete Functionalities

Discrete Manufacturing

- Insights in material availability status: Avoid disruptions and waste of time on shop floor by checking material availability status for planned production and transfer orders before releasing production orders.
- Enhanced user experience for planners: Cockpit machine planning as a single point of access containing all functionalities a planner requires.
- Close collaboration between buyers and planners: Remarks can be shared on item level and are visualized on planned orders.
- Integrated vendor feedback: Showing feedback of vendors on ordered items on purchase order lines.
- Automatic ending of secondary jobs: When ending a primary process job through manufacturing execution applications, the subsequent secondary jobs belonging to the route operation will be ended as well.

Discrete Project Based Functionalities

Advanced Projects

Project Supply Chain

- Multi-level, hierarchical view: Combining project activity, supply and production planning of BOM
- Start procurement of long-lead time products early: Linking them automatically once engineering progresses with the design of the BOM
- Project driven MRP
- Early notifications of delays in material up to production and project schedule: Adjust project schedule accordingly.
- Reserve anonymous stock in project stock: Switch from one project stock to another.
- Project tracking dimension: Propagated in all direct and indirect project stock transactions.

Project budgeting & cost control

- Use BOM calculations from past project: Reuse for budgeting new projects.
- Early insights in project costs: View hour costs and material costs for work in progress production orders on finished products or subassemblies needed for those finished products for the project. View material costs as soon as reserved from anonymous stock to project stock. See difference between reserved project stock and consumed project stock.
- Financial project dimension: Automatically filled on all direct and indirect project transactions.
- Calculated ETC and EAC: Taking into account all direct and indirect project costs (committed, received or actual)
- Drill through to project transaction level: Investigate origin of project cost control figures.
- Costing sheet based on snapshots: View on all costs vs budget related to a project and subprojects of point in time.

Strong Connectors

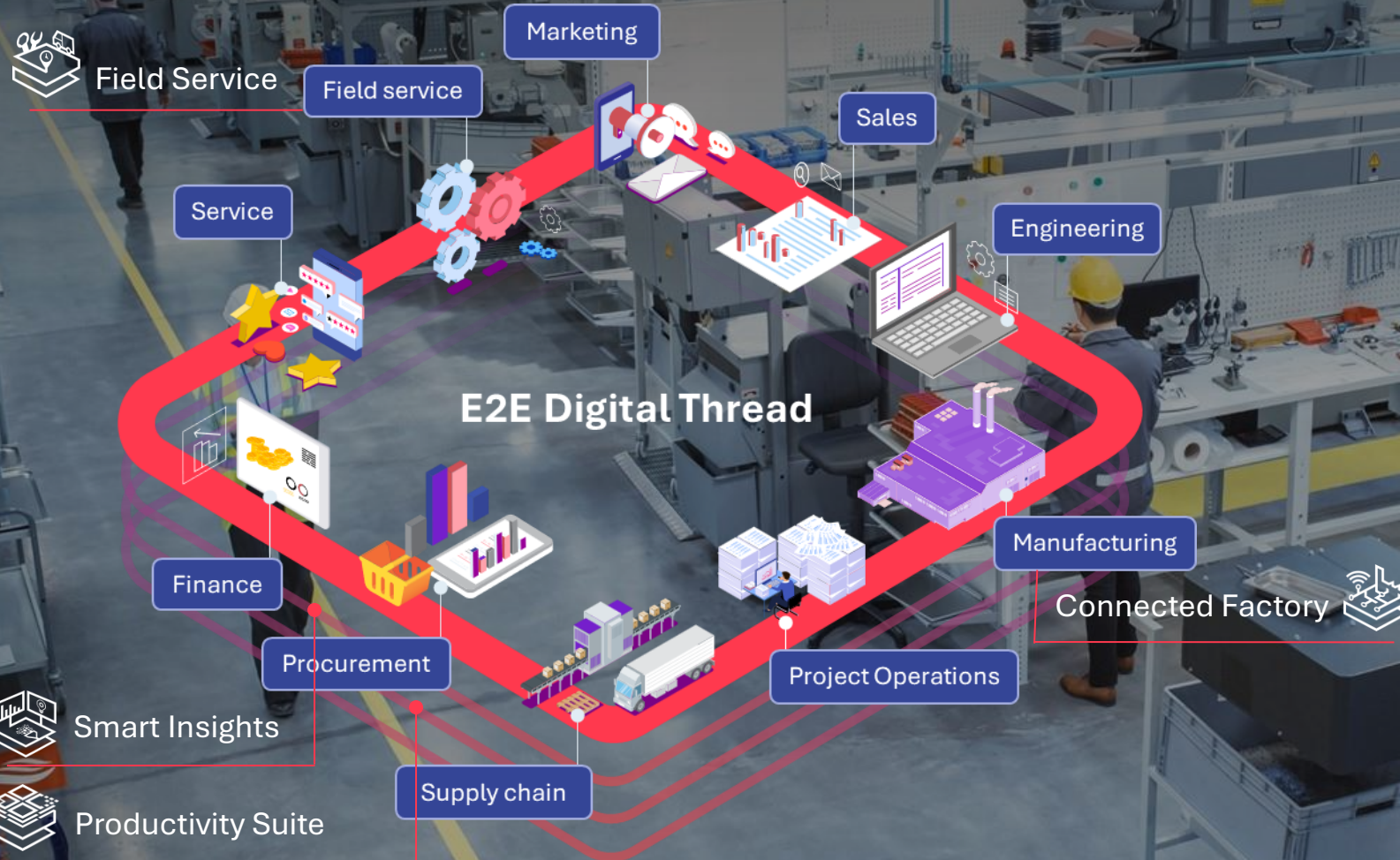
PTC Windchill PLM – Connector

- Push Windchill parts, structures and attributes to D365 Supply Chain: Creating items, BOMs and routes in ERP, supporting version control for changes in assemblies.
- Support growing BOM: Allowing operations to start work as early as possible. Direct access to PLM data for ERP users: Access to part page, 3D representation and drawings.
- Release process integration: Trigger synchronization towards ERP based on releases in Windchill (manual or automatic).
- Highly configurable: Create ERP items, routes based on templates. Integrates eBOM, mBOM or both. Support for multiple scenarios to transform eBOM into mBOM.
- Intercompany support: Release buy-to-order BOM to ERP sales companies or make-to-order BOM to production companies.

Dynamics 365 Field Service – Connector

- E2E process from D365 Supply Chain to Field Service: From work order creation (preventive maintenance, incident, installation order, IOT signal) to invoicing
- Synchronize master data: products, sites, warehouses, cost categories,...
- Creation and follow-up of purchase requisitions in Supply Chain based on requirements on Work Orders in Field Service
- Shared resource planning (bi-directional) between production and field service.
- Inventory management: provide inventory status to field technicians and replenish inventory automatically (MRP), manual or through service request (for specific order)
- Extend Warranty Management by introducing coverage sets: Create templates to combine entitlements for a set of components.
- Integrate with 'Advanced Projects' enabling full cost control for hours, consumption and expenses from Field Service

Complete your Digital Thread for Project-Based Manufacturing



9A Field Service

Take control and optimize the installation and/or maintenance of your products at your customers.



9A Productivity Suite

Automate and optimize all your document related processes such as product data sheets, workers instructions, invoice processing, EDI flows, approval flows,...



9A Connected Factory & Insights

Take the first steps towards Industry 4.0 by connecting the machines on your shop floor, getting real insights on your assembly line, automated alerting & accurate OEE.

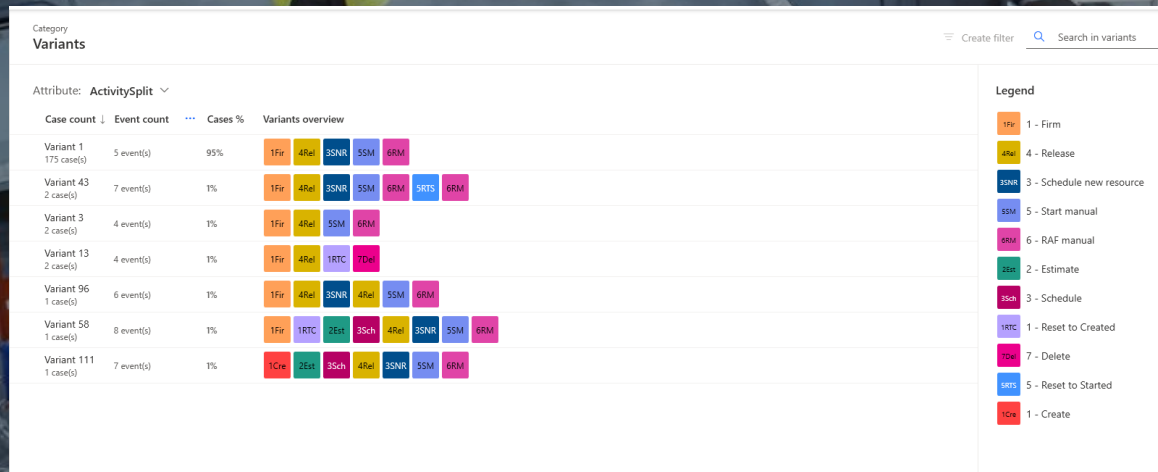
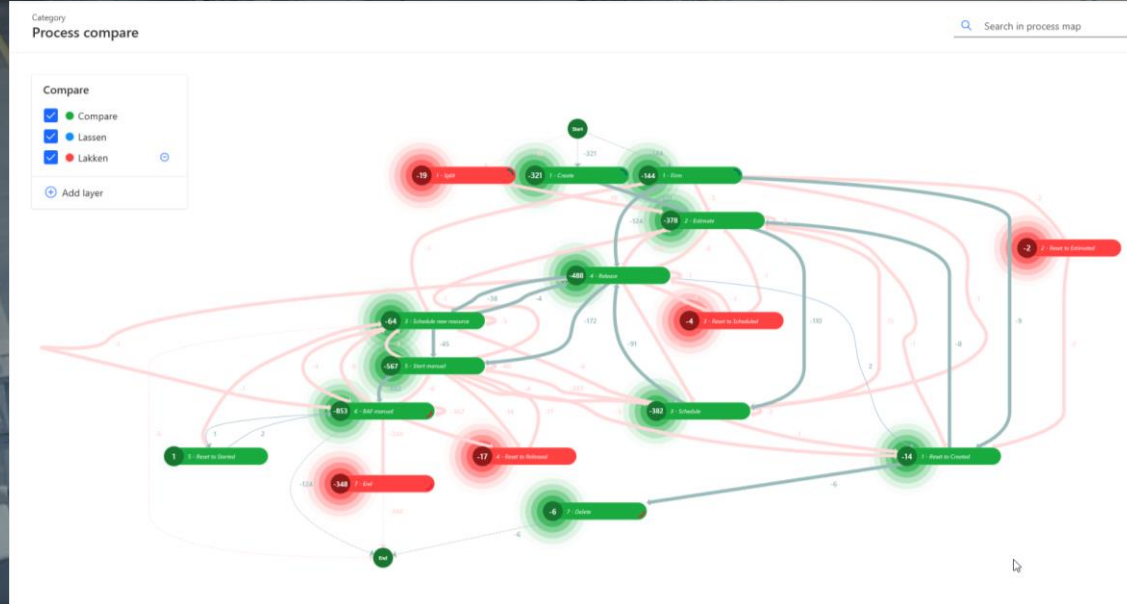


9A Smart Insights

This solution enables organizations to get key insights out of Dynamics 365 in a structured and seamless way and visualizes them in Microsoft Power BI.

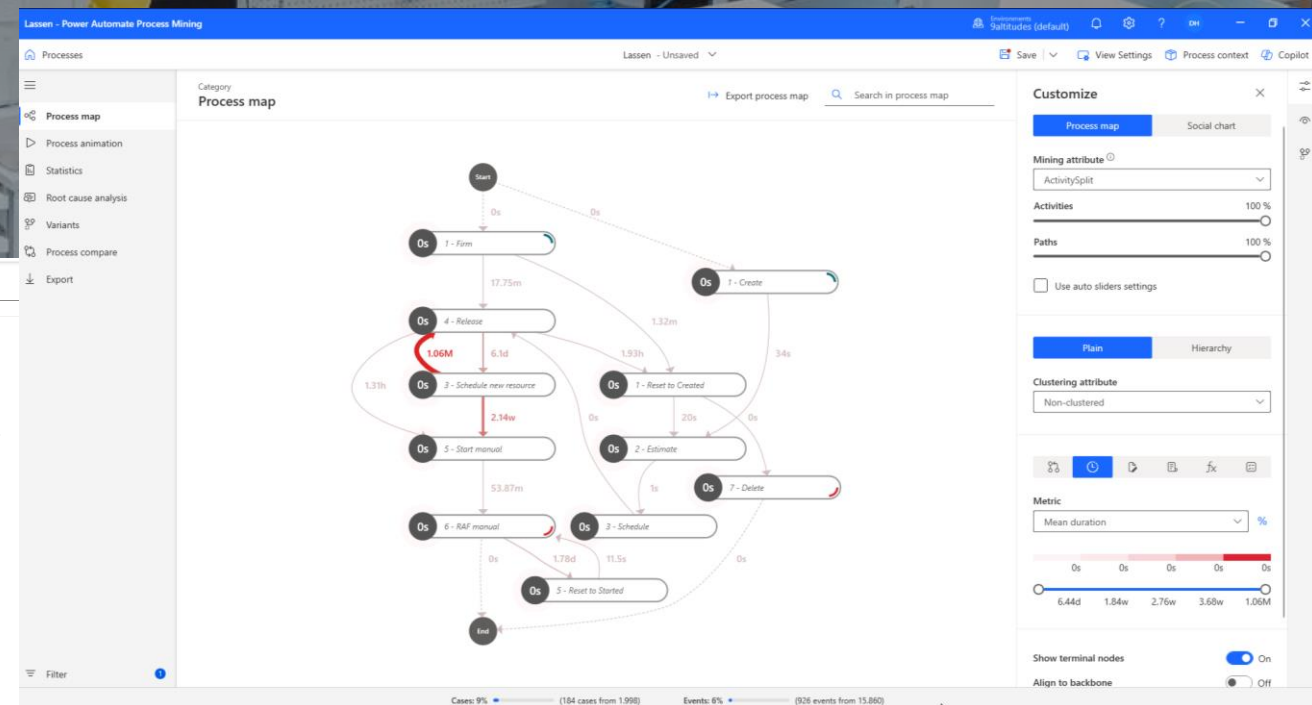


Get Real-Time Production Insights through Process Mining



Process Mining for Advanced Manufacturing

Extending Microsoft Power Platform Process Mining for manufacturing processes: Export data from sales & production processes from Dynamics 365 F&O to generate real-time insights in your manufacturing processes guided by Copilot.





Take the next step in efficiency and productivity by supercharging manufacturing processes with the help of Autonomous Agents in 9A Advanced Manufacturing for Finance & Supply Chain Management



Stock Reallocation Agent for 9A Advanced Manufacturing

Introducing a stock allocation agent that extends our Advanced Projects functionalities to assist project managers in reassigning left-over stock or stock created in advance that was temporarily assigned to a dummy project. The agent will replace the now manual work in determining what the optimal redistribution of stock is across any remaining projects.

