

Supply Integration Tool

Microsoft Fabric–Powered Multi–Tenant SaaS for Enterprise Supply Planning

A Microsoft Fabric–native, Platform that modernizes forecasting and allocation through analytics–driven automation. Built on Azure infrastructure with tenant–isolated workspaces, the platform centralizes fragmented Sales & Demand datasets into a unified Lakehouse architecture. Python regression–based forecasting models execute in Fabric notebooks, feeding a rule–driven allocation engine with governed business overrides. Secure web application for uploads, configuration, and monitoring. Power BI semantic models and dashboards provide real–time visibility. Azure AD–based authentication and role–based access control ensure enterprise–grade security. Designed as a managed SaaS platform for multi–client deployment.



Forecasting Automation

Python regression–based models in Fabric notebooks replace manual Excel workflows



Tenant Isolation

Workspace–per–tenant architecture with Azure AD authentication and RBAC



Centralized Data

Lakehouse architecture unifies fragmented LES, IMD, and VPD datasets

Business Value

- ~70% reduction in manual planning and reconciliation effort
- Faster forecast cycle time and improved planning responsiveness
- More consistent and defensible allocation decisions across markets
- Reduced stockout and oversupply risk through data–driven forecasting
- Scalable onboarding of new client tenants without platform redesign
- Enterprise–grade governance aligned with Microsoft Fabric best practices

Technical Architecture

- Centralized Lakehouse with workspace–per–tenant isolation
- Python regression–based forecasting models in Fabric notebooks
- Rule–driven allocation engine with governed business overrides
- Secure web application for uploads, configuration, and monitoring
- Tenant–isolated Power BI semantic models and dashboards
- Azure AD–based authentication and role–based access control



Eliminate Manual Workflows

Replace Excel–driven demand forecasting and allocation with automated analytics



Unify Fragmented Data

Integrate LES, IMD, and VPD datasets across SAP and external systems



Standardize Forecasting Logic

Apply consistent models across countries and business units



Reduce Risk Exposure

Gain visibility into supply risk, stockouts, and over–allocation

Platform Positioning: A scalable, Fabric–native SaaS platform enabling secure, data–driven supply planning across multiple client environments.