

EXLATHENA — ENTERPRISE BRIEF

From Stockout Risk to an Explainable Replenishment Decision

Safety stock, allocation, and replenishment on the plant–DC–line material network.

Problem

Stockouts and excess often share the same root: inventory decisions disconnected from live cover, lead-time risk, and capacity.

What changes

Replenishment becomes an explainable recommendation a planner can approve — tied to network positions and finite supply.

- Plant–DC–line cover integrity
- Lead-time and supplier risk in the tradeoff
- Expedite vs wait with rationale
- Write-back to ERP for the next measurement loop

Related fabric

Ship and fleet ETA risk, MES downtime, and PdM capacity loss reshape inventory decisions inside the same graph.

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