
























MANUFACTURING INTELLIGENCE PLATFORM (MIP)

OPEN. ADAPTIVE. TRUSTED. INTELLIGENT.

INSIGHT FLOWS DOWN

INTELLIGENCE FLOWS UP

SPA™

L5		Cloud Dynamic Data Backhaul • Snowflake Elastic Twin Scaling • Cloud Analytics ERP / CRM / PLM	 ERP	 PLM	 CRM	 Analytics	 Federation
L4		On-Premise Legacy System Integration • Data Archives MES / WMS / MQIS • Symantec Digital Twins SCADA	 SCADA	 DCS	 MES	 HMI	 Replication
L3		Vizionary™ & ReflexIQ™ AI Copilots • Vizionary™ Dashboards Generative HMI • Process Twins Autonomous Ops • Analytics	 OperationalIQ™	 Vizionary™ Dashboards	 Process Twins	 Autonomous Ops	 ReflexIQ™ Audit & Lineage
L2		Control, Batching & Logic PLCs / PACs / DCS • Adaptive Batching MetaLoop Augmentation MetaProcess Orchestration	 MetaLoop Adaptive Control	 MetaProcess Batch / Recipe	 Logic & Interlocks	 Workflow Engine	 Event Processing
L1		Edge Analytics RAG Memory • Fractional Historization DAG Coordination • Edge Dashboards	 Edge ML	 RAG Memory	 Real-time Analytics	 Local Historization	 ReflexIQ™ Edge Trace
L0		IIoT Core / SPA™ Edge Capture Analytic Sensors • Field IO • SecureSPA™ Spectrometry • Raw Data Ingestion QuantumSPA™	 Sensors	 Controllers	 Gateways	 Protocol Adapters	 SPA™ Edge Capture

MANUFACTURING INTELLIGENCE PLATFORM (MIP)

MIP

ONE PLATFORM • ALL LAYERS • END TO END TRUST