

UST Sentry Vision AI

Enabling smart factory intelligent manufacturing with Industry 4.0

Transforming manufacturing with vision context

ust.com



UST Sentry Vision AI: Our artificial intelligence based vision platform enabled with SAP Business Technology Platform and SAP Analytics Cloud powers the intelligent digital enterprise to uncover digital vision data and analytics to give you a competitive edge

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Key functions

- Build contextual, analytical and reinforcement capabilities embedded into day-day factory shop floor operations
- Accentuate production quality and throughput with vision tracking for anomaly detections and material usage
- Improve and monitor overall equipment effectiveness and performance with vision-enabled continuous monitoring and real-time event detection
- Build predictable patterns that help reduce operational wastage and prevent production delays or equipment breakdowns
- Enhance security and attain new levels of safety and compliance of physical assets, including facilities, equipment, and staff



Occupational health & safety	Savings	Compliance	Productivity	Production inventory
<ul style="list-style-type: none"> • Assault and risk tracking • Mishandling of materials and tools tracking • Machine misuse 	<ul style="list-style-type: none"> • Pilfering and theft tracking • Machine utilization tracking • Consumable usages and wastage tracking 	<ul style="list-style-type: none"> • Ensure 100% process compliance • Hazardous material storage tracking • Shop floor waste tracking 	<ul style="list-style-type: none"> • Assembly line anomalies • Operator efficiency • Tracking actions on shop floor 	<ul style="list-style-type: none"> • Production inventory Tracking materials (full vs empty vs damaged) • Inventory quality for production use • Inventory availability for manufacturing needs

UST Sentry + SAP use cases

Automated production yield reporting with UST Sentry and SAP

- Vision AI can be used on the factory floor to measure yield, capture quality, and communicate complete production confirmations to SAP
- Vision AI can be used to track the production cell and capture the input batch and output batch, enabling tracking and tracing of the product on the production floor
- Enables faster and more accurate yield reporting, real-time

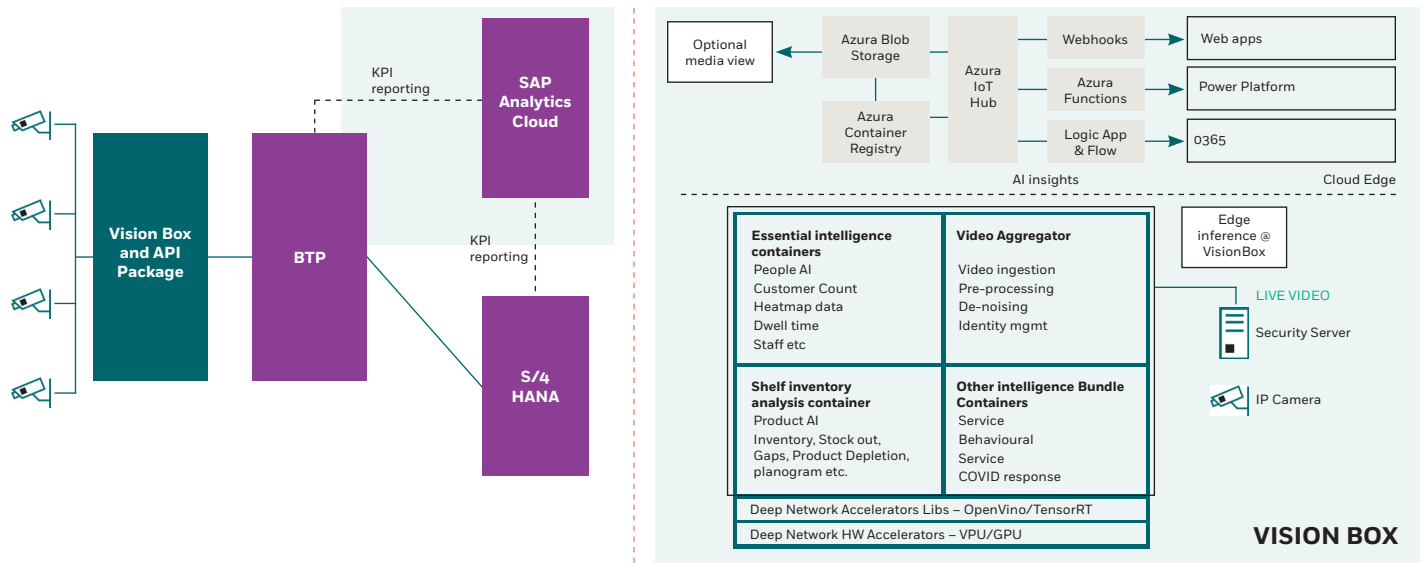
Quality reporting in SAP with UST Sentry

- Vision AI can be used to identify visual quality issues in products
- Quality notifications in SAP can be updated with the type of defect and quantity of defective products
- Real-time reporting of defects and quantity, eliminating manual intervention
- Reduce reliance on trained eyes to detect defects, providing flexibility to the operations team to use a low-skilled workforce







Smart picking in SAP with UST Sentry

- Vision AI is used to identify the part and send it back to SAP for confirmation of picking
- AI-based identification of parts is possible where no bar code is available to scan
- Enables fast and quick pick confirmation regardless of workforce experience
- Reduce picking errors to enable faster delivery processing

High level architecture: UST Sentry + SAP



Value proposition

 <p>AI/ML Machine learning-based prediction of key manufacturing attributes</p>	 <p>Productivity Boost productivity and cost savings by proactively monitoring machine performance to prevent delays</p>	 <p>Quality & compliance Maximize throughput with real-time, vision-enabled detection of quality conformity</p>
 <p>Ready now Cutting edge technology built from IP already developed and deployed by UST</p>	 <p>Streaming analytics Blends data streams of factory and warehouse operations with multiple event sources like Computer Vision, IoT, ERP, and MES</p>	 <p>Foundational & market-leading Infrastructure for broad range of IoT and Computer apps. Co-developed with top enterprise platforms from SAP</p>

ENGAGE WITH US

Take the next step on taking out costs from your factory operations. Contact our team today.

For more than 20 years, UST has worked side by side with the world's best companies to make a real impact through transformation. Powered by technology, inspired by people and led by our purpose, we partner with our clients from design to operation. Through our nimble approach, we identify their core challenges, and craft disruptive solutions that bring their vision to life. With deep domain expertise and a future-proof philosophy, we embed innovation and agility into our client's organizations—delivering measurable value and lasting change across industries, and around the world. Together, with over 29,000 employees in 30 countries, we build for boundless impact—touching billions of lives in the process. Visit us at:

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