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Space Industry

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The space industry is undergoing rapid transformation driven by the commercialization of space, shorter mission cycles, increasing satellite constellation deployments, and stringent regulatory and quality requirements.

Organizations involved in satellite manufacturing, spacecraft integration, and space component production face growing pressure to deliver mission-critical systems faster, more reliably, and with absolute traceability.

As customer expectations evolve, product lifecycles shorten, and regulatory compliance increasingly shapes production processes and supply chains, the need for flexibility, traceability, and transparency has never been greater.

In this high-stakes environment, there is significant opportunity to improve production readiness, test execution efficiency, non-conformance/deviations management, and configuration control, while reducing costly rework, delays, and mission risk.

Successful space organizations are those that combine real-time operational visibility with data-driven decision-making, enabling faster issue resolution, tighter quality assurance, and improved on-time delivery.

To achieve this, space industry leaders are increasingly focused on digitally integrating teams, systems, and processes across the entire value chain—from design engineering and cleanroom assembly to environmental testing, quality assurance, supply chain, and program management. Seamless digital integration is becoming a core capability for scalable and sustainable space operations.

Trends and challenges in the Space Industry

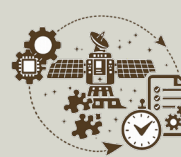
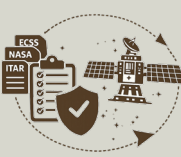
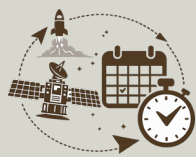
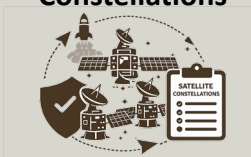
Rapid Growth in Space/Satellite Constellations

Shorter Dev Cycles & Faster Time-to-Orbit

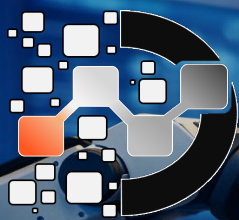
Regulatory Quality & Traceability

Complexity & Customization

Knowledge Retention



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OpsSuite, built on the Mendix low-code platform, addresses these challenges with a Space Operations Digitalization Solution designed to support satellite and components manufacturing, integration, and testing.

The solution digitizes and orchestrates critical space-industry processes such as Satellite and subsystem assembly workflows, configuration and change management, material and component traceability, quality inspections and maintenance/calibration of test equipment.

By enabling collaboration between engineering, manufacturing, quality and supply chain, OpsSuite ensures faster decision-making, improved accountability, and reduced operational risk

Live dashboards provide actionable insights into assembly/integration status, test execution progress/results, non-conformance trends, resource utilization and schedule adherence.

Automated workflows reduce manual errors, enforce process compliance, and ensure full digital traceability across lifecycles from incoming components to final delivery

Designed for scalability, OpsSuite enables additional modules and integrations such as PLM integration, ERP connectivity, LIMS integration, digital build records & as-built documentation, IoT/sensor integration (ie cleanrooms, test facilities, and assets).



Production Management

OpsSuite Production Management acts as the digital orchestrator, efficiently coordinating and optimizing manufacturing processes, ensuring seamless operations and heightened productivity.



Quality Management

OpsSuite Quality Management serves as a precision tool, systematically monitoring, analyzing, and enhancing every aspect of the production process to ensure optimal quality standards are consistently met.



Insights

OpsSuite Insights and KPI dashboards empowers users to visualize and interpret complex data, providing actionable insights that drive informed decision-making and strategic planning.

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Key Capabilities



End-to-End Traceability & Configuration Control: OpsSuite provides full digital traceability across the entire manufacturing lifecycle, from incoming components and materials to as-built and as-tested configurations. It ensures strict configuration control, linking parts, serial numbers, revisions, deviations, and test results to support ECSS, NASA, ESA, AS9100, and customer-specific compliance requirements.



Quality, Non-Conformance & Deviation Management: OpsSuite enables closed-loop quality management by digitizing inspections, NCRs, waivers, and deviation workflows. Engineering, quality, and manufacturing teams collaborate in real time to assess impact, implement corrective actions, and maintain full audit trails—reducing risk, rework, and schedule delays.



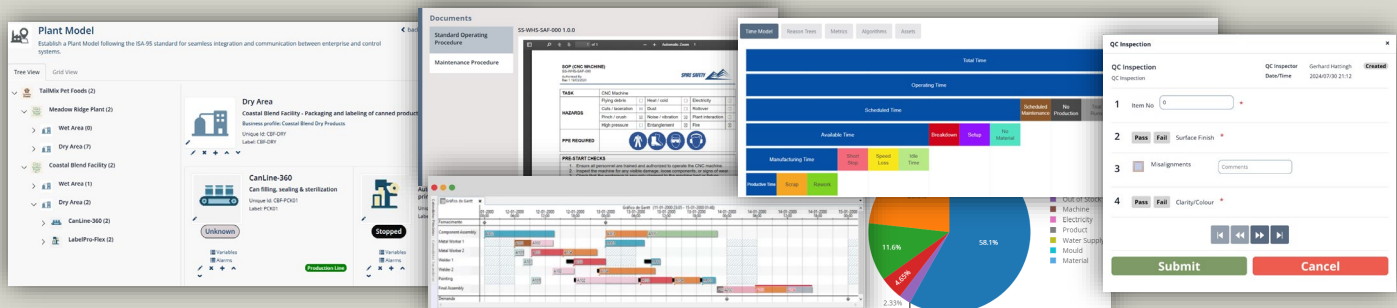
Real-Time Operational Visibility & Program Control: Live dashboards provide real-time insight into build status, test progress, resource utilization, bottlenecks, and mission milestones. Program managers gain early warning of risks and delays, enabling data-driven decisions that improve on-time delivery and mission readiness.



Digital Assembly, Integration & Test (AIT) Workflows: OpsSuite digitizes and orchestrates complex AIT processes, including cleanroom assembly, subsystem integration, functional testing, and environmental qualification. Guided digital workflows enforce correct execution, capture evidence in real time, and ensure repeatability across missions and production batches.



Scalable Integrations & Extensibility: Seamlessly integrate with PLM, ALM, MES, ERP, and LIMS systems, as well as test equipment and IoT sources. This creates a connected digital thread across engineering, manufacturing, quality, and supply chain supporting both prototype missions and large-scale satellite constellations.



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