



## Establish Complete Configuration Control and Data Integrity Across the Entire Enterprise

Non-automotive transportation manufacturers — including aerospace, marine, off-highway, and material handling companies — operate under the strictest quality, safety and compliance requirements in the world. Every component, serial number and engineering change must be documented, traceable and verifiable across a network of global suppliers and regulatory authorities.

Yet design, manufacturing and maintenance data often reside in disconnected systems — creating risk, inefficiency and nonconformance.

Stibo Systems Platform unifies product, supplier and compliance data across PLM, ERP and MES environments to deliver full lifecycle visibility and regulatory control.



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By centralizing part and supplier data, we've cut traceability audit time by 50% and improved engineering change accuracy across multiple programs.”

**Director of Digital Manufacturing,  
Aerospace OEM**

## 1. Maintain configuration control across the entire lifecycle

Aerospace, marine, off-highway, and material handling systems evolve continuously through design changes, production updates and maintenance modifications. Stibo Systems synchronizes configuration and product data to ensure each unit and subsystem reflects its true certified state.

### Key capabilities:

- Centralized configuration management for unit and components
- Integration with PLM, ERP and MRO systems
- Engineering change synchronization and approval workflows
- Version control and digital twin alignment
- Automated impact analysis for downstream systems

### Benefits for key stakeholders:

**Engineering:** Ensure all teams use validated, current configurations

**Quality:** Eliminate nonconformance due to outdated data

**Executives:** Strengthen audit readiness and regulatory confidence



## 2. Achieve complete part and supplier traceability

From fasteners to safety-critical assemblies, transportation and equipment manufacturers must maintain a verified record of every component's origin and compliance status.

Stibo Systems provides a central repository linking serial numbers, suppliers and certificates of conformity.

### Key capabilities:

- Serial-level traceability for all components and assemblies
- Supplier and certificate of conformance management
- Integration with ERP and quality systems for genealogy tracking
- Secure digital audit trails and document linkage
- Automated recall and defect response



## 3. Streamline engineering change and program management

Complex vehicle and equipment programs require precise coordination between design, manufacturing and quality functions. Stibo Systems ensures every engineering change is tracked, communicated and implemented accurately.

### Key capabilities:

- Engineering change order management and approval automation
- Integration with PLM, MES and ERP for synchronized updates
- Real-time impact analysis for affected assemblies
- Cross-site data validation for multi-plant operations
- Audit trail of design and configuration changes

### Benefits for key stakeholders:

**Engineering:** Simplify change documentation and distribution

**Manufacturing:** Prevent production delays and rework

**Executives:** Improve delivery performance and program profitability



**Benefits for key stakeholders:****Procurement:** Simplify supplier audits and approval cycles**Quality:** Maintain compliance with AS and FAA standards**Executives:** Reduce risk exposure and enhance supply continuity

## 4. Ensure supplier compliance and certification integrity

Supply chains for aerospace, marine, off-highway, and material handling equipment span multiple countries and require rigorous oversight of vendor qualifications, material specifications and process compliance. Stibo Systems centralizes supplier master data and certification tracking.

**Key capabilities:**

- Supplier onboarding and certification governance
- Integration with vendor portals and compliance systems
- Document management for AS9100, ITAR and NADCAP
- Automated alerts for expiring certifications
- Performance dashboards for continuous improvement

## 5. Strengthen operational readiness, maintenance and regulatory compliance

Every vehicle, vessel and aircraft must maintain a verified lineage of its parts and service events. Stibo Systems connects engineering, production and maintenance data to ensure documentation integrity throughout the asset lifecycle.

**Key capabilities:**

- Integration with MRO and digital maintenance systems
- Serial-level service and replacement part tracking
- Centralized repository for maintenance and inspection records
- Data lineage linking engineering to field service
- Compliance alignment for EASA, FAA and DoD requirements

**Benefits for key stakeholders:****Maintenance teams:** Access verified configuration and service data**Compliance:** Simplify reporting and audits**Executives:** Improve reliability and operational transparency**Benefits for key stakeholders:****Engineering:** Collaborate across systems without data duplication**Quality:** Maintain a single, verified version of truth**Executives:** Enable digital transformation safely and efficiently

## 6. Enable secure data collaboration and digital transformation

Advanced transportation manufacturing programs depend on cross-enterprise collaboration, but data sharing must remain secure and controlled. Stibo Systems supports secure data federation while maintaining integrity and compliance.

**Key capabilities:**

- Role-based data access and governance controls
- Secure collaboration between OEMs, suppliers and regulators
- Integration with digital thread and twin initiatives
- Cloud-based data sharing with audit logging
- Scalable architecture for Industry 4.0 and AI readiness

# Build a connected, compliant and trusted transportation enterprise

Stibo Systems Platform unifies engineering, manufacturing and supplier data to maintain configuration control, regulatory compliance and full product traceability.

By connecting critical data across design, production and maintenance, commercial and industrial transportation manufacturers can accelerate certification while strengthening compliance and increasing program efficiency.

For manufacturers managing intricate supplier networks and distributor relationships, Stibo Systems Business Partner Data Cloud's AI-powered deduplication, firmographic enrichment and automated onboarding streamline operations, maintain compliance and provide visibility into indirect sales channels.

And our Customer Experience Data Cloud eliminates duplicates, ensures data quality and maintains regulatory compliance. Where customer relationships span multiple touchpoints, our solution connects customer data with locations and products to optimize cross-sell opportunities, improve loyalty programs and enable data-driven decisions.

Both Business Partner Data Cloud and Customer Experience Data Cloud centralize, manage and sync data — customer or business partner — across siloed operational and sales solutions.

See how Stibo Systems supports aerospace and aviation manufacturing at [stibosystems.com/transportation](http://stibosystems.com/transportation).



## About Stibo Systems

Stibo Systems is a leading enabler of trustworthy data through AI-powered master data management. Built on a robust and flexible platform, our SaaS solutions empower enterprises around the globe to deliver superior customer and product experiences. Our trusted data foundation enhances operational efficiency, drives growth and transformation, supports sustainability initiatives and bolsters AI success. Headquartered in Aarhus, Denmark, Stibo Systems is a privately held subsidiary of Stibo Software Group, which guarantees the long-term perspective of the business through foundational ownership. More at [www.stibosystems.com](http://www.stibosystems.com).