HCLTech | Supercharging Progress™
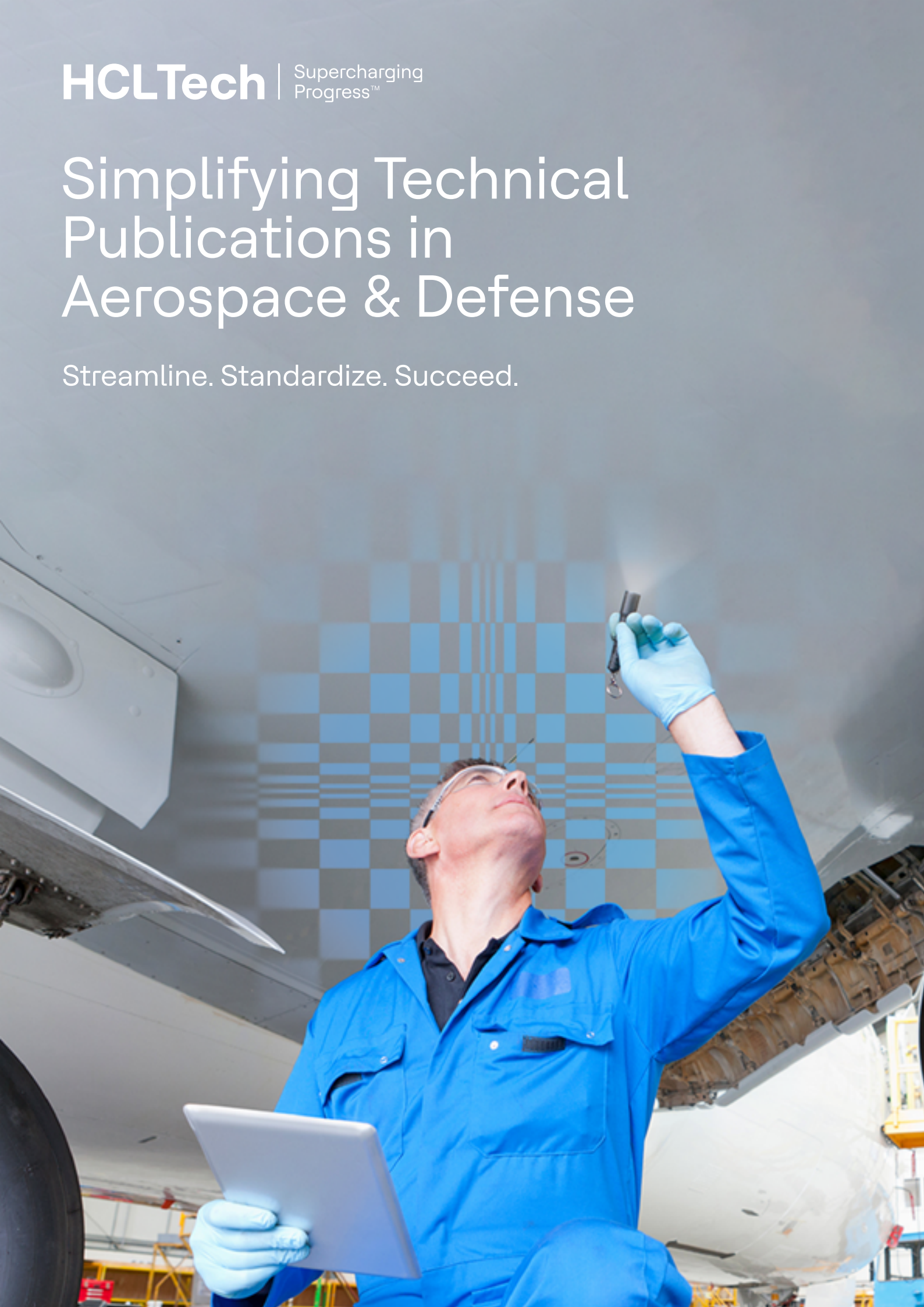
Simplifying Technical Publications in Aerospace & Defense

Streamline. Standardize. Succeed.

Aerospace OEMs/manufacturers find themselves grappling with a myriad of challenges in today's dynamic landscape. With product complexity reaching new heights, rapid adoption of emerging technologies, and the added burden of stringent regulations, they grapple with ensuring fleet readiness and maintenance. Rising costs further compound the situation, making it imperative to efficiently capture, manage, and disseminate critical technical information.

Simplifying intricate technical documents

With the aerospace industry undergoing a digital transformation, aerospace OEMs are recognizing the immense value of adopting S1000D. This industry-standard specification presents a game-changing opportunity to efficiently manage complex technical documents while unlocking substantial cost savings.

By embracing S1000D, aerospace OEMs can seamlessly adapt to evolving business needs and stay ahead of the curve by effectively delivering crucial information.

| At the point of task performance | In multi-spec environment | Intuitive documentation |

Transcending boundaries in technical documentation

At HCLTech, we deliver cutting-edge technical documentation solutions to empower aerospace OEMs. We enable the automation of processes, resulting in significant cost reductions and streamlined publication schedules. We also ensure accuracy and reliability throughout the document lifecycle.

Whether it's traditional technical publications or electronically delivered information, our dedicated teams collaborate closely with OEMs to deliver customized solutions that cater to their unique needs.

Harness the full potential of S1000D with HCLTech expertise

At HCLTech, we offer a comprehensive range of highly scalable S1000D solutions designed to meet the needs of aviation and defense companies. We empower organizations to author and manage their technical documents, facilitating efficient content reuse and enabling multi-channel publishing. With our solutions, companies can optimize their documentation processes, enhance productivity, and ensure consistent and accurate information across various platforms.

- Converting your legacy data into S1000D
- Producing your new publications in accordance with S1000D
- Revise existing publications in accordance with S1000D
- Publishing the documents as Interactive Electronic Technical Manuals (IETMs) and Interactive Electronic Technical Publications (IETPs) by employing XML and web technologies

Key values

90%
First Time Right (FTR)

95%
Responsiveness

95%
On budget

100%
On Time Delivery (OTD)

HCLTech digital drivers

ADONIS: Accelerating the legacy tech manual conversion

An intelligent acceleration platform to convert/generate S1000D/ATA compliant XML output from legacy (structured or unstructured) aerospace and defense technical manual/publications.

60- 70% saving on effort/ faster time to market

Over **30%-50%** savings on commercial expenditure and CSDB

Compatible with different editors and CSDB
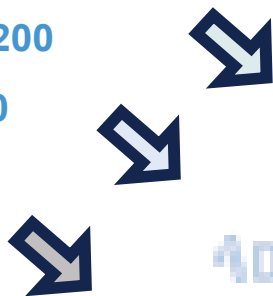
CMM AMM   AIPC   Supplements   Others…

iSpec 2200

ATA 100

PDF

Word

SGML

ADONIS

XML Output

(ATA, S1000D Compliance)

Parikshya checker tool

A tool to reduce validation effort and eliminate human errors in CMMs and ACMMs written using XML.

Customer approved savings of $800,000 in three years by using this tool

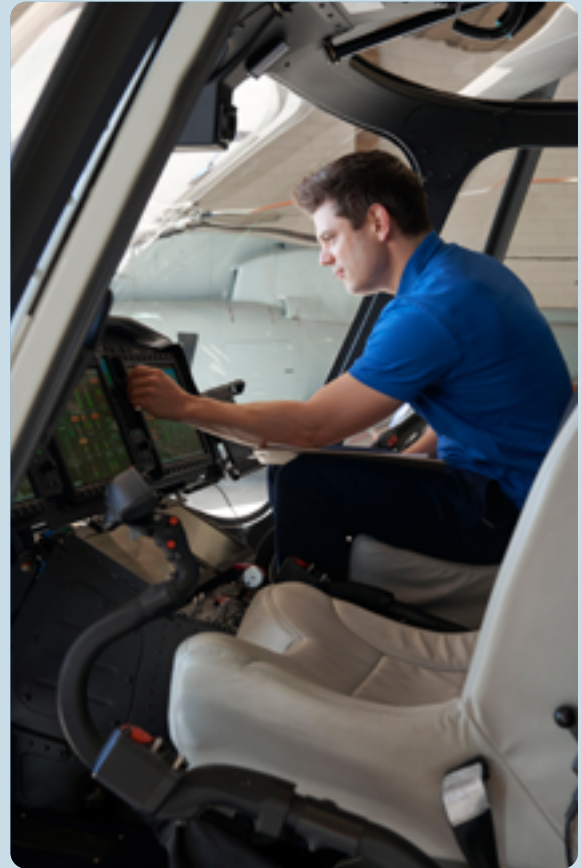Reduced lead time and ease of work

Productivity improvement

Error reduction

Automation of quality checks

Reusable SGML/XML publications

Creation of SGML/XML tag templates for aero systems using project manager tool.

30% reduction in lead time for authoring

25% reduction in formatting errors

The HCLTech advantage

Engineering

Experience in ATA 100 Rev 37, ATA iSpec 2200 standards and S1000D specification

Well versed with aerospace standards and ready to support aerospace systems publications

Technology

Equipped with latest tools and technologies and partnership with PTC and corena to meet the global customer publications requirements

Have inhouse developed framework and tools to deliver the tasks on-time

Support

Will provide all the native files along with ready-to-publish PDF.

- Native SGML/XML/ FrameMaker files
- Illustrations in .CGM/. iso/.ai

Ready to support the customer by keeping the dedicated resources in shifts

Ownership

Demonstrated complete ownership to provide end-to-end technical publication solutions that are cost effective

Domain

5 million person hours of efforts in the past 15+ years with 200+ teams engaged on systems, structures, engines, and interiors for 20+ active customer engagements in this area

Collaboration and flexibility

Flexible to support as per customer requirements in terms of tools or standards

Success stories cementing our expertise

Illustrations support for a leading aero-systems OEM

Problem statement
- Creation of illustrations for Component Maintenance Manuals (CMM) using ATA iSpec 2200 standard

Solution
- Illustrations are prepared using AutoCAD and Coreldraw for 2D illustations. IsoDRAW CAD process for 3D illustations
- Followed stringent quality system and used customer specific templates and checklists
- Delivered error-free illustrations to customer

Business impact
- 25% reduction in Turn Around Time (TAT)
- Higher first-time-right deliverables percentage of transition

Streamlining complex aircraft maintenance publications

Problem statement
- To create Aircraft Maintenance Publications (AMP) data modules for braking systems at OEM's Common Source Database (CSDB)

Solution
- Created AMP in accordance with specifications of S1000D and ASD-STE (Simplified Technical English)

Business impact
- Complex documentation provided on-time as per industry standards

Enhancing technical publications for a tier 1 supplier

Problem statement
- Create and revise Component Maintenance Manuals (CMMs), Component Maintenance Publications (CMPs), Aircraft Maintenance Publications (AMPs) and Service Bulletins (SBs)
- Documentation of component engineering documents
- T-files generation at OEM portals

Solution
- Input analysis
- Authoring and illustration of the manuals
- Review of the manuals
- Parts provisioning data

Business impact
- Large workload done in parallel and reduced time to deliver
- Reduced critical path for delivery
- Productivity improvement across different document types

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