



E-BOOK

Tech-Driven Compliance: 3 Ways Compare and Merge Technology Simplifies Aviation's Regulatory Audits

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Introduction

Whether you work in aviation manufacturing or MRO, regulatory audits are a routine part of the job. If your role involves maintaining regulatory compliance, ensuring accuracy and consistency in your documentation is essential to meeting strict standards.

However, managing large volumes of complex documents, tracking changes, and preparing for audits can feel like navigating a labyrinth.

That's where compare and merge solutions shine!

They provide essential support for managing complex documentation, streamlining workflows, and reducing the risk of errors that could lead to non-compliance and costly fines.

Let's explore three ways these solutions can simplify regulatory audits.

1 Find and Process Meaningful Change

Technical documents in aviation and other regulated industries are often highly structured, containing more than just text. They include complex tables, images, metadata, and structured XML content, all of which require specialised handling.

Unfortunately, basic tools usually struggle to differentiate between meaningful changes and irrelevant formatting differences, leading to unnecessary clutter and noise. Alternatively, some teams rely on manual comparison, but that is very time consuming and prone to error.

In reality, you rarely need to see EVERY single change, just those that matter!

The Power of Customisation

That's why specialised compare and merge solutions are built to be easily tailored to fit your content requirements, even when comparing non-text content, such as tables and images.

You can customise to find the meaningful change with much better precision:

- ✓ Specify which changes to ignore
- ✓ Compare complex tables and SVG
- ✓ Detect moving content
- ✓ Compare character-by-character
- ✓ Optimise performance for content and data

This makes compare and merge solutions ideal for industries where technical documents, like Illustrated Parts Catalogues (IPCs), often include complex content, tables and illustrations.

Organisations like ISO use DeltaXignia's comparison technology to track changes in their international standards.

Their redline reports clearly highlight where content has been added, deleted, or modified across versions, demonstrating the value of integrated comparison software.

ISO 9001:2015(en) Quality management systems — Requirements

Available in: EN FR RU ES AR Redlines

green represents content added to ISO 9001:2015
red strike-through represents content deleted from ISO 9001:2008
blue represents content modified

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are the procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the rules given in editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Screenshot from the ISO website with redlines enabled

2 Boost Transparency in your Workflows

Compare and merge solutions provide a powerful way to accurately identify and manage document changes. They generate comprehensive outputs that highlight exactly where modifications have been made—whether content has been added, deleted, or altered—helping your team process updates with confidence.

For example, using document merge in collaborative environments can help consolidate changes from multiple versions while preserving the logical order of updates. You can also easily set up rules regarding which changes can be automatically processed and which you wish to flag for review.

This reduces errors, maintains document integrity, and ensures smooth collaboration in high-stakes environments.

3 Reduce the Risk of Error

By using compare and merge software in your workflows, you can minimize these risks and **ensure 100% accurate content**. Unlike the change management capability in off-the-shelf Document Management Systems, specialised comparison solutions are designed to understand structured and semi-structured content and data, and can identify even the smallest changes in your technical content.

Once changes are detected, you can process the output based on your needs. Outputs like PDF, HTML and XML provide easy ways to review, share, process or analyse comparison results, with compatibility for both document sharing and data processing tools.

This precision reduces the likelihood of errors slipping through, helping you deliver accurate, compliant documentation every time.

Real-World Impact: W3C

A great real-world example of compare technology in action is how Norman Walsh, an XML expert, successfully integrated DeltaXignia's comparison solution into The World Wide Web Consortium (W3C) revision process.

The solution aimed to streamline the process of version control and ensure that every change is documented clearly and accurately across complex XML-based files.

As a result, Walsh's team **reduced time spent comparing versions by over 90%**, giving them more time to focus on critical aspects of their work while ensuring compliance with rigorous standards.

"[DeltaXignia's comparison solution] was used to identify changes made by editors and produce difference files so that reviewers could comment on these changes while being confident that they were commenting on the latest version.."

Norman Walsh
XML Standards Architect

Real-World Impact: Semcon

Semcon, an international technology company, integrated DeltaXignia's comparison solution with Semcon's existing CMS removing complexity from their process and achieving:

- ✓ 30% reduction in review time
- ✓ 50% time savings in validating revised documentation
- ✓ Improved turnaround times for projects with short-lead times
- ✓ Better standardisation and confidence in the processes

"The implementation of DeltaXignia's software into Semcon's existing applications enabled a quantum leap forward in terms of efficiencies and effectiveness."

David Sonden

Manager Business Development

About DeltaXignia

DeltaXignia, formerly DeltaXML, is an enterprise solutions provider, specialising in advanced comparison and merging solutions for content, documents and data. Our highly configurable software integrates seamlessly into workflows, enabling businesses to manage changes with precision and efficiency.

Trusted by enterprises worldwide, DeltaXignia delivers industry-leading solutions for content accuracy and version control. With decades of expertise, DeltaXignia empowers organisations to streamline complexity, boost productivity, and achieve confidence in their digital transformation strategies.

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