



E-BOOK

Building a Scalable Pipeline: The Role of Compare & Merge Solutions in Document Revision Workflows



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Introduction

Managing version control and document accuracy at scale can be a challenge. If you're involved in optimising document workflows and ensuring accurate revisions, you know how inefficiencies and errors can impact timelines, productivity, and consistency.

Manual change tracking and basic tools simply cannot handle the volume and complexity of aviation documents, increasing the risk of errors, misaligned team outputs, and rework that drains valuable time and resources.

The Solution? Advanced Comparison and Merging

This e-book explores how automated change management solutions can help you optimise your document review pipeline to boost speed, accuracy, and efficiency.

Let's explore some key considerations for building a scalable solution, real-world examples, and how DeltaXignia can support your goals.



Challenges with Managing Document Revisions at Scale

To optimise your document revision pipeline, it's essential to address the key issues that can slow down the process:



Volume and Complexity

Aviation technical departments update hundreds of documents annually in structured formats like XML, S1000D, DITA, and DocBook. Manual comparison is time-consuming and prone to error, while basic tools struggle with large documents, tables, and graphics.



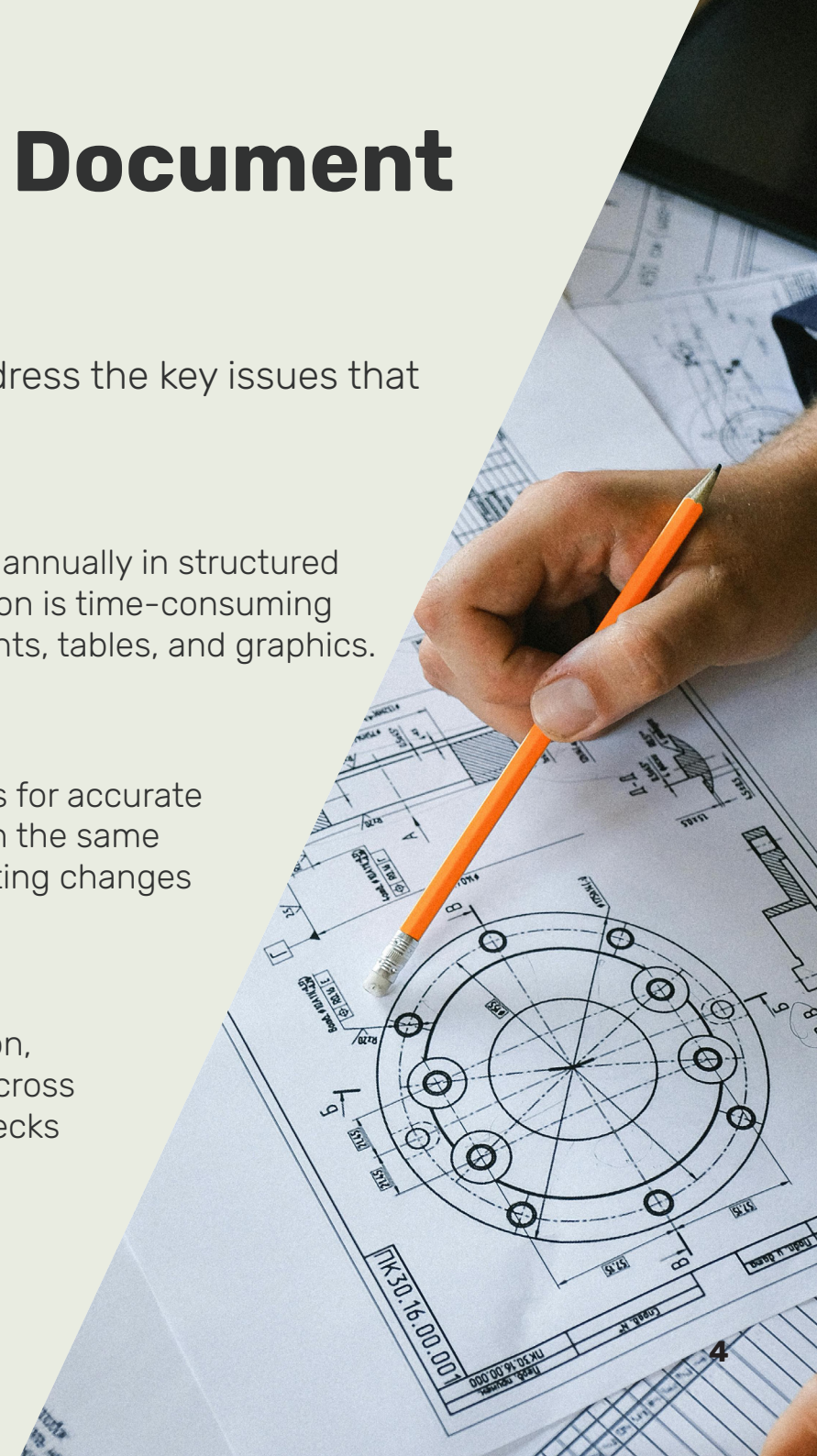
Version Control and Collaboration

Without a streamlined version control process and the right tools for accurate merging, consolidating updates from multiple editors working on the same document becomes complex and time-consuming, with conflicting changes easily missed.



Disconnected Tools in Document Workflows

When different systems and standalone tools are used in isolation, it becomes challenging to maintain consistency and accuracy across revisions. Manual tracking and lack of integration create bottlenecks that slow down the process and increase the risk of errors.



The Power of Advanced Comparison

Mastering Accuracy in Change Detection

In regulated industries like aviation, where even a small error in your technical documentation can lead to compliance failures, operational risks, and costly rework, **every change matters!**

To optimise your document revision workflow, you need a solution that doesn't just detect changes—it ensures accuracy at every level.

That's where advanced compare and merge technology comes in.

By integrating directly into your existing document management or version control process, compare and merge solutions can be configured to automatically identify and process changes—reducing the risk of human error and improving overall efficiency.

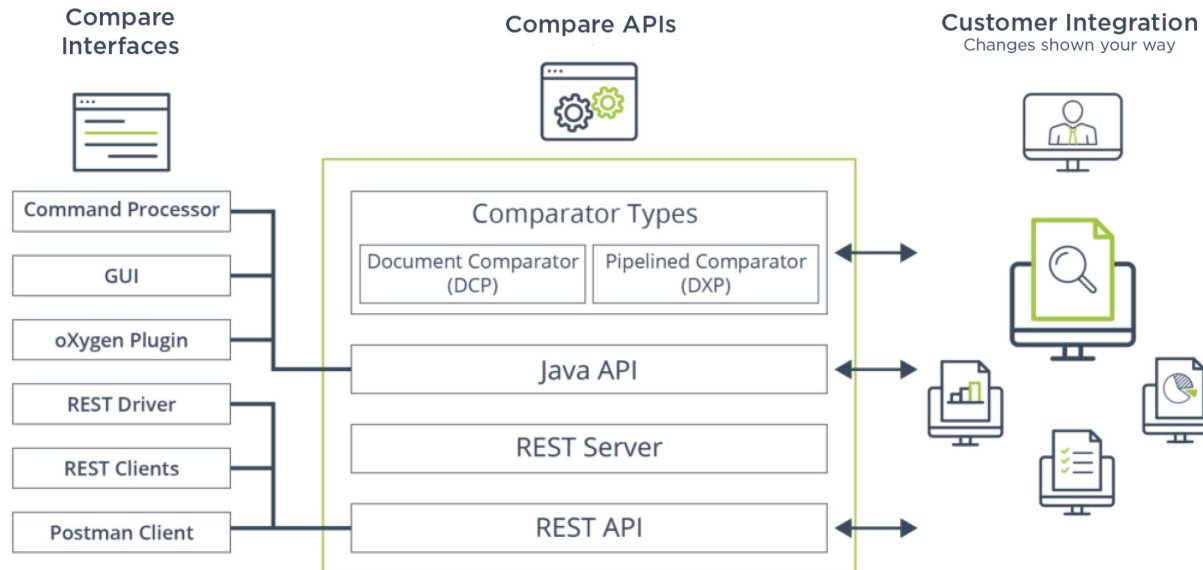
Ideal when you need deep-level analysis of even the smallest discrepancies:

- ✓ **Character-by-Character Comparison** ensures that even granular changes, like typos in product codes or serial numbers, are identified.
- ✓ **Move Detection** recognises when content has been relocated within a document, maintaining logical structure and consistency.
- ✓ **Advanced Table Comparison** detects row, column, and cell-level changes within complex tables, ensuring that data remains accurate even after formatting adjustments.
- ✓ **SVG Comparison** highlights changes in technical diagrams, including differences in Z-index, animations, and layered content

Simplifying Integration Across Content Workflows

Disconnected workflows and manual handling can create bottlenecks, increase complexity, and slow down your revision process. When it comes to managing change, **the right solution should integrate seamlessly into your existing process**, making it faster and smarter, without disrupting the way your team works.

For example, by embedding DeltaXignia Compare and Merge into your existing development ecosystem, you can create a streamlined, automated process for managing changes. **Its flexible API framework lets you control how output is processed and used, ensuring optimal results with minimal disruption.**



Advanced Customisation for Maximum Impact

When it comes to managing change in your content, one size doesn't fit all. When dealing with complex documents, different content types, grammars, and technical requirements, **rigid tools and processes often create more problems than they solve**. Adopting a solution that can be customised allows your team to focus on the changes that matter, without getting distracted by irrelevant noise.

Solutions, like DeltaXignia, allow you to configure the process so your team can find the meaningful change:

- ✓ **Ignore changes** - Filter out irrelevant differences like whitespace, metadata, and unimportant tags to reduce noise and improve clarity.
- ✓ **Tailor to your content type** - With XPath-based rules, you can customise which sections are processed as text or data, for a faster, more efficient comparison.
- ✓ **Customise the output** to for your needs, whether it's creating redline reports or publishing changes to multiple outputs: PDF, HTML, CMS editors and more...

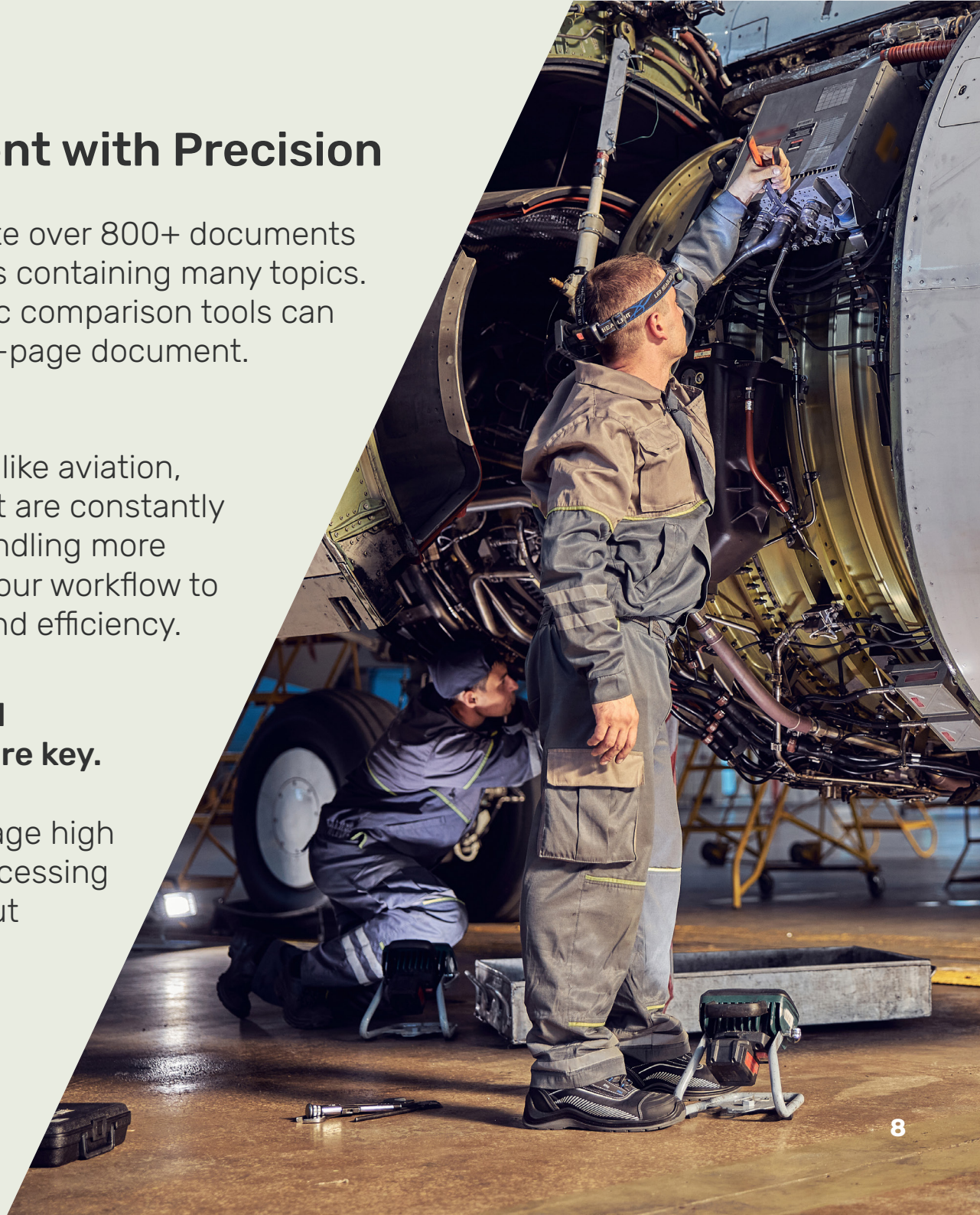
Handling High-Volume Content with Precision

An airline we work with cited that they update over 800+ documents annually, most of which are large documents containing many topics. When it comes to finding change, some basic comparison tools can take up to 9 hours to produce a diff of a 200-page document. Do these sound familiar?

This case is common in regulated industries like aviation, where the volume and complexity of content are constantly increasing. The problem is not just about handling more content—it's about ensuring you can scale your workflow to handle your content with speed, accuracy and efficiency.

To achieve scalability, leveraging specialised comparison technology and automation are key.

DeltaXignia's solutions are designed to manage high volumes of structured content at speed, processing complex documents and data quickly without sacrificing accuracy.



Best Practices for Building a Scalable Document Review Pipeline

1

Automate Early in the Workflow

Use comparison and merging as part of the initial revision stage. Catching issues early reduces the risk of cascading errors later.

2

Define Clear Comparison Rules

Customise comparison settings based on your content type and business needs. Avoid wasted time by filtering out irrelevant changes.

3

Customise the Output

Integration with your existing systems and configure the output to meet your needs—whether that's redline reports, CMS/DMS integration, or HTML.

4

Monitor and Optimise

Track performance and refine comparison and/or merge settings over time to best fit your needs.

Real-World Impact: SunExpress

SunExpress, a German-Turkish Leisure Airline, integrated DeltaXignia's compare solution to optimise their document management process and achieved:

- ✓ 90% fewer man-hours spent demonstrating changes
- ✓ 80% faster revision review times
- ✓ Improved user experience when reviewing revised content
- ✓ Quick access to the parts where changes were made
- ✓ Minimised risks associated with changes in operational processes

"With multiple authors contributing to documents, it became challenging to track all the changes accurately, and DeltaXignia helped streamline that process."

Mehmet Dinç

Documentation Centre Specialist



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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