

## **CASE STUDIES**

# Skan Process Intelligence Platform Case Study

## Skan<sup>NI</sup>

https://www.skan.ai/

Skan Process Intelligence Platform

Using Aspose.word to Export Process or Standard Operating Procedure (SOP) Document

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#### **About Skan Al**

The Skan Process Intelligence Platform uses computer vision and machine learning to continuously uncover the complete, end-to-end view of digital processes with zero interruption to employees and zero required integrations.

At Skan AI, our team of architecture experts in the engineering department has been diligently exploring options for an out-of-the-box solution that seamlessly integrates process and standard operating procedure (SOP) documents into our cutting-edge Skan Process Intelligence Platform. Our goal is to efficiently export these documents in Word format while preserving both the text and images in a specific format. Additionally, as part of the SOP, we have a substantial dataset that needs to be exported smoothly.

#### **Problem**

Skan plays a vital role in empowering our customers to gain deep insights into their processes, enabling them to strategically plan digital transformation and automation initiatives, foster continuous improvement across the organization, and develop targeted employee training programs, among other benefits. In our quest for comprehensive process and standard operating procedure (SOP) documentation, we sought a solution that would allow customers to effortlessly download their customized SOP as a Word document, tailored specifically to each unique process.

This document, while based on a template, requires a high degree of dynamism, incorporating diverse elements such as text, metrics, tables, and images. Our aim was to programmatically generate this document based on the data observed by the Skan platform, providing our customers with an accurate representation of their processes.

During our evaluation, we explored various options, including Word COM/OLE automation. However, we encountered unexpected challenges with this approach. We also discovered that most off-the-shelf tools and libraries fell short of meeting our specific requirements, as they primarily focused on creating documents from scratch rather than dynamically generating content.

At present, we anticipate a pilot phase involving 50 users from five customer organizations, where we will refine and optimize the SOP download functionality. Once the pilot phase is



successfully completed, we plan to expand its availability to our wider customer base for seamless integration into their production environments.

#### **Solution**

The Aspose.Word solution seamlessly aligned with our requirements, proving to be an excellent fit for our needs. Our initial task involved creating templates to cater to the various types of documents that needed to be generated. These templates featured convenient placeholders for variables like client names, process information, and the entire process flow. During the document generation process, these placeholders could be effortlessly replaced with actual values. Leveraging the power of the LINQ Reporting Engine API, we were able to dynamically populate the templates with dynamic content, including the inclusion of images as part of the data. This allowed us to generate rich and customized documents with utmost ease and flexibility.



Figure 1: Aspose. Word Template (Sample page)



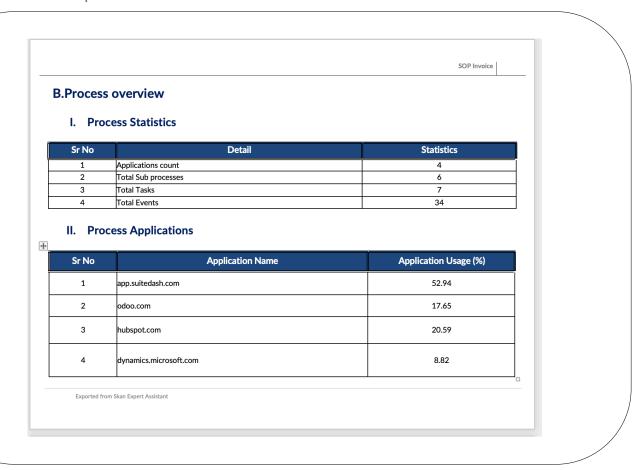


Figure 2: Exported Output (Sample page)

### **Experience**

#### Finding a solution:

Although we did consider Word OLE/Automation during our evaluation, we found it to be cumbersome and reliant on a lot of custom development. In contrast, Aspose emerged as the industry leader, offering robust document manipulation and conversion capabilities across a wide range of file formats. Moreover, Aspose proved to be particularly well-suited for handling large datasets, ensuring efficient processing.

During our assessment, we opted for a free trial of Aspose, which allowed us to explore its functionalities before making a purchasing decision. The availability of a temporary license proved invaluable, enabling us to thoroughly test and evaluate all the features offered by Aspose.



#### Implementation:

In just a few days, we were able to test a prototype of Aspose. Word, and we found the integration process to be seamless. The ease of integration offered by Aspose. Word has been highly valued by our team members. They appreciate its ability to seamlessly integrate with our existing systems and its support for multiple programming languages. Additionally, Aspose. Word has proven to be highly scalable for handling large data exports, and it simplifies the management of templates. Overall, our team has expressed great appreciation for the numerous benefits provided by Aspose. Word.

#### Outcome:

The adoption of Aspose. Word brought forth several advantages for our operations:

**Enhanced Efficiency:** The implementation of Aspose.Word eliminated the need to start document creation from scratch each time. By utilizing appropriate templates and inputting variable values, the team experienced significant time and effort savings in generating documents.

**Consistency:** With standardized templates, all documents are produced through Aspose. Word exhibited a consistent format and layout. Moreover, the availability of Python-based APIs ensured that documents were generated through Aspose. Word closely matched those created using the Windows C#.NET framework.

**Cost Savings:** The new system enabled faster and more accurate document creation, reducing the expenses associated with rework and corrections. Additionally, developing a custom application with Aspose. Word proved to be a cost-effective alternative compared to purchasing a commercial document generation solution.

**Flexibility:** Aspose. Word provided the team with flexibility in modifying templates as per requirements. In scenarios where clients requested different formats, the team could promptly update the templates to generate new documents, ensuring responsiveness to client needs.



Overall, the adoption of Aspose. Word resulted in increased operational efficiency, consistency, cost savings, and flexibility, enabling our team to create high-quality documents with ease and precision

### **Next Steps**

Moving forward, our next steps involve identifying potential opportunities to assess the compatibility and integration feasibility of other Aspose products within the Skan platform. We aim to explore how additional Aspose products can complement and enhance the existing functionalities of our platform. By evaluating their suitability, we can determine the potential value and benefits that these products may bring to our users and further improve the overall capabilities of the Skan platform.

## Summary

Aspose has established itself as a leading provider of robust document manipulation and conversion tools, trusted by numerous Fortune companies. These organizations rely on Aspose APIs to create, edit, export, and convert files across various formats within their applications.

The integration of Aspose.Word into our product has yielded significant benefits. Our document creation process has become streamlined and simplified, resulting in improved efficiency, cost savings, and enhanced consistency. By leveraging templates and variables, we can swiftly generate personalized documents with precision, eliminating the need for manual creation or starting from scratch. Aspose.Word proves invaluable for businesses that require the generation of numerous customized documents, and its inherent flexibility allows for seamless customization and adaptation to meet diverse needs. We wholeheartedly recommend utilizing the Aspose product suite for document manipulation and conversion, as it consistently delivers exceptional results.