

Determining the Highest ROI Solution for Technical Publishing Migration from Microsoft Word

Enterprises are motivated to migrate from Word when they realize that the way they currently create technical documents is not able to keep up with their growth.

Microsoft Word has been around for a long time and is used by over half a billion people. Enterprises often use it to produce a large percentage of their documents across multiple functions/departments since it is known by many people and has a relatively low entry cost. Word is a good 'text processing' tool for writing whitepapers and simple business documents/reports, but inefficiencies are introduced when technical communicators use it to create long and complex technical documents like policies and procedures, user guides, maintenance handbooks and reference manuals with embedded graphics and videos. Word was not designed for technical documentation, so its total cost of ownership is much higher than if more specialized tools were used. For example, loss of time due to Word document 'freeze' becomes a daily occurrence as tables and graphics are added.

Enterprises are motivated to migrate from Word when they realize that the way they currently create technical documents is not able to keep up with growth in an enterprise's products and services, growth in document translation, and growth in publishing formats beyond traditional print and PDF such as ePub, tablets, smart phones, desktop HTML, and other online formats.

This whitepaper presents:

- Factors that drive the cost of technical document creation
- Methodologies that can increase operational efficiency in technical publishing
- Whether Word can implement the desired methodologies and achieve sufficient dependability in technical publishing projects
- The reasons for the Total Cost of Ownership (TCO) to create technical documentation using Word being more expensive than expected
- Word dependability pain points experienced by your technical communicators
- The requisites for a successful migration from Word to another authoring and publishing tool for technical publishing projects
- A list of desired attributes for ideal authoring and publishing tools for technical documentation
- A specific solution that has a higher Return on Investment (ROI) than Word in technical documentation projects, and allows an enterprise to get products and services to market much faster at a lower cost, thereby increasing an enterprise's overall profitability and efficiency

As an enterprise increases the variety of products and services it offers, additional technical documentation is needed.

What drives the cost of technical document creation?

One of the largest cost factors in document creation is labor. The amount of labor performed by technical communicators is based upon the volume of documents that must be written, the number of writers available and their efficiency. If the volume of documents is too great then it's necessary to defer the work, increase the number of writers or the efficiency.

Current trends that increase the volume of documents

A number of factors can increase the volume of documents that an enterprise must produce:

Growth in products and services

As an enterprise increases the variety of products and services it offers, additional technical documentation is needed.

Global growth

Customers around the world expect technical documentation to be translated to their language and culture.

Paper documents replaced by digital content

Traditional papers for technical documents are rapidly being replaced by digital content because paper can be inconvenient to carry, expensive to distribute, and difficult to search for answers. Users want the smallest amount of information that will solve their need in an easily consumable and immediately actionable format.

Interactivity

Today's customer wants to give real-time feedback on digital content, such as reporting errors in documentation and contributing new content. This requires new in-built mechanisms. Also, users demand that content to dynamic and interactive in nature, rather than static text and graphics.

Electronic formats increasing

The number of electronic document formats continues to expand beyond traditional formats like PDF files, software application help, and online help pages. New formats include ePub and mobile.

Mobile growth

We've seen an explosion of Internet-ready mobile devices such as tablets, smart phones, and e-book readers. Each device has different capabilities and limitations. For example, e-book readers and tablets typically have larger displays than smart phones but smaller displays than desktops. To fit smaller displays, documents like help files must be broken down into smaller pieces of **content**.

The new trend is to **create adaptive** content that automatically optimizes its appearance to the capabilities of a device. Although a carefully designed document converted to PDF may work on a tablet, in most cases mobile users will be frustrated zooming and sliding oversized PDFs on small displays.

HTML5 is becoming the new standard for displaying information because it adapts to the requirements of individual mobile displays. It allows us to overcome major incompatibility problems that mobile devices have.

Mobile content can be displayed as one of three types of mobile device **applications**. **Web apps** run in a browser and display HTML5 web pages, **native apps** are little programs installed on the device, hybrid apps are a combination of the two that allow the app to run on many devices like an HTML 5 Web app, yet use the device capabilities like a native app. Web applications can run on many devices but native applications have to be written for specific devices. Native applications run faster and can take advantage of device-specific capabilities but Web applications cannot.

Rich media

Today's trend is toward tablets and mobile devices with touch sensitive displays that users prefer to traditional pointing devices. This makes it natural for users to want to interact visually with information, so they appreciate rich media alternatives to text, such as animation, video, 3-D models, and hyperlinked parts lists.

The choice for enterprises is to either increase technical communicators staffing or to increase the efficiency of how the documents are produced.

Aberdeen Group¹ found that shrinking budgets and increased workloads are motivating content developers to look for ways to reduce development costs.

Creating technical documents efficiently

The volume of documents that an enterprise is required to publish will continue to increase. Thus, the choice is to either increase technical communicators staffing or to increase the efficiency of how the documents are produced. The history of manufacturing gives us an analogy. In the pre-industrial era, craftsmen hand-made things one at a time. No two end products were exactly the same. The industrial era increased the rate of production by using identical or similar components for products in the same 'family' of products, lowered manufacturing cost, and ensured a more consistent quality.

Following that analogy into the documentation environment, we have three basic, inter-related concepts to implement before you can start to achieve 'document manufacturing' efficiencies:

- Consistency of document look and feel, tone, structure and writing style ('format' standards)
- Reuse of content
- Specialization of tools to fit the 'role'

Most technical writers are creative, which is a positive attribute unless it results in the creation of inconsistently formatted content or delivery of information not in the sequence that the reader may expect. For example, multiple writers usually work together to create a large document, but if each of them writes as per their respective styles, the reader will notice that the document doesn't have a **consistent** tone, style, or structure, which can result in a negative 'quality' perception about the product and the company – or a call to customer support if the document is confusing.

Reuse of content requires writers to think creatively about how to repurpose content, and how to write reusable content modules. For example, if the steps for installing a piece of software are identical for all products in a hardware product family, then the writer can reuse the entire task module to describe the installation for each product's documentation set. The writer may also reuse the content as part of a training video script to be deployed on YouTube (as a distance learning module) or as a reusable learning module for instructor/student training guides.

Let's examine specific **efficiency methodologies** that address both 'style' and 'reuse' and some of the challenges enterprises face in achieving them.

Using format and writing style guidelines

An enterprise can reduce document creation costs by creating **style** and writing standards defining the appearance of documents. These styles ensure a consistent look and feel, incorporate company branding into all the document deliverables by using a standard company logo and consistent color palette as well as corporate terminology usage. **Formatting** involves establishing paragraph styles for headings (Headings 1, 2, and 3) and body content (Normal, indent, bullets and numbering) and then applying the appropriate style to each paragraph. Traditionally, writers follow a **style guide** that defines an enterprise's standards for editing and formatting, where a person acting as an editor is responsible for ensuring that writers follow the style guide.

Unfortunately, today's constrained resources often require the technical writers, authors, and communicators to be their own editors. Given the large number of styles in a typical style guide, this can be problematic. Also, since each author has a different style of writing, the lack of an independent editorial review often leads to inconsistencies within and amongst document deliverables.

Using templates to implement document structure efficiencies

The requirement of reuse forces writers to think about structuring content within a single deliverable and across multiple deliverables.

Aberdeen Group¹ found that shrinking budgets and increased workloads are motivating content developers to look for ways to reduce development costs. One solution is to reduce the amount of time that authors, especially Subject Matter Experts (SMEs), spend formatting documents. SMEs waste a stunning 30% to 75% of their time formatting documents in **non-structured** (freestyle) **authoring** tools. By using **structured authoring** to enforce consistency, writers don't have to worry about formatting because the styles are applied automatically.

Structure may be thought of as a pattern. Following a pattern provided in structured authoring can speed the creation of content and provide consistent, reusable content.

When users read a technical document, they usually have an expectation about the content and its presentation. For example, when a consumer reads the user manual for a gadget, he expects to find the

Single sourcing is a documentation methodology that enables you to reuse a modular chunk of information—also called an object—in multiple documents.

table of contents followed by a description of product features and benefits in an overview, and finally the sets of step procedures on using the gadget's basic functions. If the writer has decided to remove the table of contents and document the steps in the form of paragraphs, it would make it difficult for the consumer to find and use the information because the expectation of a logical order and appearance is unfulfilled.

Standardized **templates** ensure a consistent structure and style. The requirement of reuse forces writers to think about content module types. Template standards typically include modules like:

- Concept modules: paragraphs of information that describe an idea, answering the question 'What is...'
- Task modules: step-by-step description to accomplish something, answering the question 'How do I...?'
- Reference modules: reference information that you look up rather than memorize, such as tables and lists.

Technical communicators often gather information from SMEs by giving them a template to fill out. For example, a task template to document a procedure may contain the name and purpose of the procedure, introductory information, and the task steps. Once the SME fills out the template and returns it, the technical communicator edits and refines the writing. By having all writers use the same templates, the overall structure of the document should be consistent.

The reality is that templates are difficult to enforce if authoring tools are not chosen carefully. For example, if templates are set up in Microsoft Word, writers and SMEs can still change the structure and the paragraph styles.

Using single sourcing with modular content

Single sourcing is a documentation methodology that enables you to reuse a modular chunk of information—also called an **object**—in multiple documents. First, you build objects such as procedures and tables and put them in source files. Then, you organize them into documents, such as manuals and websites. Finally, you link them together into cross references such as tables of contents and indexes.

If you change an object, it automatically changes in all the other documents that reference it. Compare this method to the traditional copy/paste, which can be a nightmare to maintain. There are several money-saving advantages to single sourcing:

- Reduced translation costs since chunks of text are reused and therefore not retranslated. This can be a major cost saving in enterprises that have more than one language to translate to.
- Increased consistency of information presented.
- Reduced development and maintenance costs and shorter time-to-market efficiencies.
- Rapid reconfiguration since small content modules can be rearranged to create something new.

Using structured authoring and XML

Using structured authoring and XML can be thought of as authoring with templates on steroids. The content rules are defined and embedded in the DTD (Document Type Definition) file and are rigidly enforced and validated by the software the author is using. For example, content rules define what type of information should follow a heading 1, whether a minimum of two bullets in a list is required, and rules for images and if image captions are required.

XML stands for eXtensible Markup Language, which means that content is enclosed within tags. In XML, these tags define an element, such as a paragraph, an ordered (numbered) list or unordered (bullet) list or a heading level.

With structured authoring and XML, content is completely separated from format, so a writer can focus on writing and not on appearance. This separation allows multiple publishing audiences and delivery formats (PDF, online, mobile) to be derived from a single source, and increases reuse of topics and modules across product lines.

The single most important reason why so many companies are considering structured authoring and XML is the ability to 'future-proof' documents that need to be delivered on the devices and platforms of the future. Ten years ago, mobile devices were not thought of as data delivery and Internet connectivity devices. Ten years from now current XML standards will provide enterprises with the mechanism for staying current with new technology.

The single most important reason why so many companies are considering structured authoring and XML is to 'future-proof' documents.

A good CMS keeps structured content up to date and makes it easy to locate content for reuse and publishing, such as filtering XML for publishing into different formats.

The most commonly-used XML content authoring standard is **DITA**, chosen by almost two thirds of organizations that develop structured content. Of the remaining organizations, Pringle and O'Keefe² found that about 12% are evenly split between the DocBook, S1000D, and non-S1000D military standards. The remaining organizations use custom solutions or some other standards. Some enterprises have information in silos for security purposes, so a standard may not be critical. Each standard has different strengths:

- DocBook is best for lengthy narratives like training documents but not for mobile or online content, which is usually broken into small chunks.
- S1000D is best for aerospace, defense, and manufacturing, which require specific hidden metadata and the ability to maintain an audit trail on document change history.
- DITA can work well for most types of content. DITA is powerful but it can be too rigid for enterprises that need extreme flexibility or are not large enough to take advantage of its power. DITA supports the concept, task, and reference template types mentioned previously.

The ideal structured authoring tool should be able to support any of these XML authoring standards and to support customization for meeting the special needs of customers.

Momentum for structured authoring and XML remains strong. Enterprises are likely to enjoy dramatic savings by migrating to XML if they publish projects containing many pages, frequently revise content that is reusable to a high degree, or translate projects into multiple languages.

However, XML is not for everyone as it requires a lot of upfront planning and has a significant startup cost and learning curve. Organizations with a small documentation set and a simple publishing matrix may not have a sufficient ROI if they move to XML.

There has been a tendency to rush some organizations into using structured authoring and XML just because it is trendy. Before committing to migration to XML, enterprises should learn what it is, what are the risks and the migration costs.

An ideal approach would be a pilot project to determine which XML standard—if any—is most suitable. The pilot would migrate a small portion of the documents and use carefully thought-out metrics to measure ROI. The pilot experience might change the XML standard the enterprise decides to use. For example, DITA can be used in many industries, but its roots are software documentation and due to recent improvements, training documentation. If the pilot program were to test DITA and determine it is too rigid, a custom XML structure or some other solution could be considered. For some small enterprises, the pilot project may result in only using single source methodologies (developing modular content) and following written standards and writing styles.

Using a unified content strategy

Ann Rockley and Charles Cooper³ describe a **unified content strategy** as a repeatable method of identifying all content requirements up front, creating consistently structured content for reuse and managing it in a definitive source, and assembling content on demand to meet customer needs. If your enterprise generates a lot of content, you should consider using an experienced content strategist to lead the development of a unified content strategy. A senior content strategist can also determine the best tools for your enterprise and identify additional information types you need, such as quizzes and FAQs for your training environment.

Using a Content Management System

Many organizations find that a Content Management System (CMS) can help them manage large amounts of content productively. A good CMS keeps structured content up to date and makes it easy to locate content for reuse and publishing, such as filtering XML for publishing into different formats.

There are different types of CMSs, but unless you need a specialized type, a **component CMS** would be a good choice since it manages content at a granular level, as compared to the document or page level that most others use.

A CMS is not an absolute requirement for reuse of content. If your analysis determines that a CMS is not right for you, your staff should have the technical knowledge to set up content reuse.

If your analysis determines that a CMS is right for you, then verify that the authoring tools you choose integrate well with popular CMSs, ideally, at no additional cost.

Be careful before committing to a CMS. There is a high failure rate, often due to unrealistic expectations and insufficient planning. CMSs have a higher success in enterprises with many documents, many complex documents, or many writers. CMSs range widely in power and cost, so your analysis should carefully determine the best solution. There are open source options that you can use in your test phase to see if a CMS is the right choice.

Using roles-based tools

In authoring, the ability to customize the authoring tool to match the role of each contributor cuts the learning curve and training costs dramatically.

Customization is vital. In an assembly line the tools that a worker uses are exactly matched to the need of that station. In authoring, the ability to customize the authoring tool to match the role of each contributor cuts the learning curve and training costs dramatically. Not everyone needs to be trained on every aspect of document creation and delivery, and not everyone needs every single tool with every feature activated.

Roles might include technical communicator, SME author, publisher, and content manager. Each requires very different capabilities from the tools. For example, an SME author would need to fill out a template and review documents, whereas a technical communicator may need to create templates, author, and incorporate reviewer edits. In addition to the technical communicator tools, a publisher would need to have additional tools to deliver content to the media output required, whether ePub, PDF, HTML5 or XML and support the required platforms, including tablets and various mobile devices. All reviewers would need to have the right tools for conducting documentation reviews, and review comments should lend themselves to easy aggregation, filtering, and incorporation.

Using tools that support publishing and reviewing

In addition to the authoring issues we have examined, enterprises need powerful publishing and reviewing capabilities. This is where many tools fall short. The tools must be able to publish to all the required outputs, such as print, PDF documents, online and mobile outputs. The tools must also support a full reviewing cycle, where documents can easily be sent to reviewers, reviewers can easily make changes, and their comments can be easily incorporated.

Using dependable tools

Enterprises demand high levels of dependability in the tools that they use for authoring and publishing technical documentation, regardless of the size of the document, the amount of content it contains or the type of content. Service and support are essential in large enterprises and a large pool of certified professionals for training, writing, consulting and template design needs to be available.

Using industry standard tools

Enterprises need access to a large pool of skilled writers, so they need tools that are popular, credible, and well-established. Since no enterprise wants to invest in tools that become orphaned, the tools' company should be reputable and have solid financials.

Microsoft Word evaluation

Efficiency methodologies support

In our final analysis, does Microsoft Word support the efficiency methodologies we discussed that enterprises require for technical documentation? Let's look at a summary of our analysis.

Word only supports unstructured authoring and it does not support a mix of unstructured and structured documents.

| Efficiency Methodology | Can Word meet the needs of an enterprise's technical documentation? |
|--|--|
| Using format and writing style guidelines | NO. Word allows styles, but it has no mechanism to enforce content writing style and prevent the author from changing the formatting styles or using the ribbon menu to make style changes. |
| Using templates | NO. It is possible to compose a template for authors to fill out, but Word has no mechanism to prevent the author from changing the styles and the structure of template. Over time, a template with no means of enforcement will fail. Ideally, the tools must be able to separate style from content and enforce the structure rules. |
| Using single sourcing with modular content | NO. Word lets you include pieces of content, but it does not have the mechanisms built into it to allow enterprise-level reuse and single source. For example, Word cannot use the single source technique of conditional text, or an easy way to reuse variables in text files, or to manage linked text inserts when using a server environment. Without reuse, duplicate text will be translated, which can be costly. |
| Using structured authoring and XML | NO. Word only supports unstructured authoring and it does not support a mix of unstructured and structured documents. Word does not allow straightforward authoring in XML. Although its internal structure is XML, it is proprietary and exports to a flat XML text file that is not easily used or transformed into something usable. |
| Using a Content Management System | NO. Word cannot interface with CMSs. |
| Using role-based tools | NO. Word cannot be customized for the role of each contributor. |
| Using tools that support publishing and reviewing | NO. It is difficult to convert Word documents into multiple types of output such as web help or mobile content. It lacks features like clean and efficient automation of table of contents, indices, and cross-references needed by technical communicators and publishing 'skins' for various output media such as ePub and mobile. Reviews in Word from multiple people are difficult to integrate and the reviewers must own Word. |
| Using dependable tools | Unfortunately, Word can be undependable in the following common technical document situations: <ul style="list-style-type: none"> • Long documents are known to increase the chance of crashing Word or corrupting the document, especially if a computer is low on memory or if a document has several heavy graphics and tables. • Graphics tend to shift around unpredictably in large documents. • Word has problems generating table contents and index in large documents. • Changes in page layout (single to multi-column) still require insertion of 'section breaks', which can corrupt adjacent, numbered headlines. • Long, multipage tables with a graphic in every row are almost guaranteed to make a Word file crash. • Editing equations corrupts layout. |

Microsoft created Word as a mass market, easy-to-use text processing product for everyday business use.

Word wasn't built to handle the methodologies that enterprises need for efficient creation of technical documentation.

Conclusion

Word wasn't built to handle the methodologies that enterprises need for efficient creation of technical documentation.

Some organizations have tried to force Word into enterprise-level methodologies by adding plug-ins and proprietary macros. Just as a trucking company would never try to turn a car into a truck because they were designed for fundamentally different purposes, eventually enterprises realize that—no matter how much it is modified—Word was never intended to meet demanding, high-volume technical documentation methodology requirements on an enterprise scale.

Microsoft created Word as a mass market, easy-to-use text processing product for everyday business use. That market is huge in comparison to the market for technical document authoring and publishing tools. The hard truth is that Microsoft isn't focused on your enterprise's technical documentation productivity issues because that market is comparatively so small.

Enterprises need a professional set of tools specifically designed for efficient technical documentation authoring and publishing.

Requirements for successful migration from Word

There are certain requirements that all enterprises demand for a successful migration, no matter what tools or methodologies they choose.

The migration must take into account the culture of the company, including its tolerance for change and risk. Otherwise, the migration will be too disruptive.

A long-term plan is vital to success, since it lowers costs by reducing surprises. To reduce the chance of hidden costs popping up, the plan should include:

- The cost of technical documentation you create today
- The cost of technical documentation you plan to create
- The long-term training needs of your staff
- The consulting needed for technical issues and guidance
- A tools analysis and cost estimate

Jumping to structured documents immediately is often too big of a leap, so your authoring tools should allow for a gradual migration. That means the solution must allow for a mix of unstructured and structured documents.

To reduce risk:

- Use a small team to migrate a portion of your documents at each stage, use metrics to measure the effort.
- Follow a plan that allows future phases to change direction based on what happens in the current phase. There is no one-size-fits-all way to migrate from Word.
- Apply a solution that allows your enterprise to profit from efficiencies immediately.

Jumping to structured documents immediately is often too big of a leap, so your authoring tools should allow for a gradual migration.

Tool-independent sample migration plan

Here is a sample multi-phased plan for migration from Word to structured authoring:

The ideal content authoring and publishing tools must have a number of features and functionalities.

| | Today | Migration Phase 1 | Migration Phase 2 | Migration Phase 3 |
|--|--|---|---|---|
| Summary | Microsoft Word | Unstructured authoring using consistent styles and single source | Mixed unstructured and structured authoring using XML elements for styles and single source | Structured authoring using XML elements and single source |
| Authoring Tools | Microsoft Word | Unstructured tools | Unstructured and structured tools Allow a mix of unstructured and structured content | Structured tools Allow a mix of unstructured and structured content |
| Authoring Structured / unstructured | Unstructured | Unstructured authoring Modular, lean (minimalistic) topics Unstructured templates | Structured authoring concepts Modular, lean (minimalistic) topics Templates with XML-like elements (for example, DITA-like elements for styles) | Structured authoring using XML enforced standards (DITA, S1000D, DocBook) or create a custom template |
| Styles | Standard styles difficult to enforce | Consistent styles and standards that must be manually enforced | Content standards built into templates, so authors cannot change them | Built into templates, separated from content so authors cannot change them |
| Single source | No | Yes. Allows for conditional text, variable text, and cross-referenced (linked) text | Yes. Allows for conditional text, variable text, and cross-referenced (linked) text | Yes. Allows for conditional text, variable text, and cross-referenced (linked) text |
| Content reuse | Copy/paste | Yes, by reference to the source file | Yes, by reference to the source file | Yes, by reference to the source file |
| Content management | CMS is not supported | Collaborative authoring using a CMS or a file server | Collaborative authoring using a CMS or a file server | CMS usually required due to volume of content |
| Publishing Tools | None. Word can generate only print, PDF, and simple HTML | Print and PDF documents Online and mobile outputs | Print and PDF documents Online and mobile outputs | Print and PDF documents Online and mobile outputs |
| Reviews | Difficult using 'Track Changes' feature | A good round-trip reviewing solution is required | A good round-trip reviewing solution is required | A good round-trip reviewing solution is required |

The Adobe Technical Communication Suite (TCS) is the market-leading solution for authoring and publishing technical content in an enterprise.

'What to look for' tools checklist

Below is a checklist of features and functionalities that your enterprise could include in your team's search for the ideal content authoring and publishing tools:

Saves money:

- Has a high ROI and a low TCO.
- Supports content reuse and single source.
- Can communicate out-of-the-box with popular CMSs at no additional cost.

Ease of use:

- Has a WYSIWYG editor.
- Has the ability to customize workspace for 'role-based' publishing, so that only the tools required for staff and project goals are present.
- Can easily break large documents into reusable pieces.

Styles:

- Can define a standard set of styles.
- Automatically creates style sheets from existing unstructured documents.
- Understands how to manage and integrate the style sheets with the content.
- Should automatically enforce consistent writing, such as text automatically formatting as a user fills in the blanks.

Structure:

- Allows a mix of structured and unstructured documents which enables migration to be done in phases.
- Can separate a document's appearance from its structure.
- Supports XML authoring standards such as DITA but allows for any level of customization.

Templates:

- Can create templates of content structure for authors to fill out.

Publishing:

- Can publish information in many formats, such as print, PDF, online, and mobile.
- Easily integrates rich media into content.
- Can import Word and other legacy documents.

Supports the full development cycle:

- Can handle the full content development cycle efficiently—including publishing, translation, and reviews.
- Gathers and integrates feedback from reviewers and users.

Established:

- Is widely used, has many people trained, and has extensive training resources available.
- Has excellent company financials.

Long-term success of your migration to structured authoring depends on choosing an authoring tool from a company that can be relied upon. If the selected company doesn't exist in a couple of years, your investment would be jeopardized. You require your tools' provider to:

- Be financially stable and able to ride out recessions.
- Be an experienced leader in the authoring tools segment.
- Stands behind its products for the long term.
- Provides excellent product support.

RoboHelp gives your enterprise more choices in authoring and publishing, especially in its powerful new mobile publishing capabilities in HTML5.

The ideal solution—Adobe Technical Communication Suite

The Adobe Technical Communication Suite (TCS) is the market-leading solution for authoring and publishing technical content in an enterprise. TCS's powerful, integrated authoring and publishing tools meet all the requirements we have examined. Let's examine two major components of TCS: Adobe FrameMaker and Adobe RoboHelp.

"If your help development also includes Adobe Captivate videos, you do not need to purchase Adobe Captivate and Adobe RoboHelp separately. Always go for the 2017 release of Adobe Technical Communication Suite! It's truly a bundle of joy."

—Rick Stone, Owner of ShowMe Solutions

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FrameMaker

FrameMaker supports the entire content authoring and publishing cycle. Whereas most authoring tools require that you jump fully from unstructured to structured authoring, FrameMaker is the only tool in the market that allows legacy unstructured documents to exist along with structured XML documents. This allows your enterprise to choose any level of structured authoring at each step of your migration plan.

"The 2017 release of Adobe FrameMaker is the only solution in market which covers all major needs out-of-the box in editing and publishing for any device in any language based on XML technology or on classic DTP technology."

—Dieter Gust, Member of the Supervisory Board, Director of Research & Development, itl

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RoboHelp

No matter what authoring tools your technical communicators are using, it makes sense to switch to tools optimized for online authoring that can also output hardcopy and mobile.

RoboHelp is a leap forward in publishing. Previous versions have been great at authoring and publishing online content but now RoboHelp gives your enterprise more choices in authoring and publishing, especially in its powerful new mobile publishing capabilities in HTML5, which is the de-facto mobile standard.

FrameMaker users can author in FrameMaker and import or link a file into RoboHelp to take advantage of RoboHelp's specialty in online publishing, such as HTML 5 multi-screen display.

RoboHelp can generate hybrid apps for publishing to mobile devices and can also generate native apps for the iPhone and Android.

"The search suggestions in the 2017 release of Adobe RoboHelp are fantastic—helping me find what I need faster. It knows what I need before I finish typing!"

—Willam van Weelden, Owner, WvanWeelden Consultancy

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TCS efficiency methodologies support

Let's evaluate whether or not TCS can support the efficiency methodologies that enterprises require for technical documentation, and see opinions by industry leaders about TCS.

"Now that Adobe Technical Communication Suite creates HTML5 output, my clients can expand their reach to push content to all mobile devices."

—Matt Sullivan, Independent Adobe Certified Instructor

FrameMaker has historically had its strength in creating print and PDF documents, but RoboHelp moves it up several notches with cutting edge online and mobile outputs.

| Efficiency Methodology | Can TCS meet the needs of an enterprise's technical documentation? |
|---|--|
| Using format and writing style guidelines | YES. TCS supports detailed styles and layout capabilities. |
| Using templates | YES. FrameMaker supports powerful templates that require an author to follow a particular structure when using XML standards. You can take the intermediate step of (unstructured authoring) using modular content designed for reuse, and later move to structured authoring with XML. |
| Using single sourcing with modular content | <p>YES. Conditional text, variables, and insets make FrameMaker a powerful single source tool.</p> <p><i>"I have clients requiring both PDF and online Help output. Adobe Technical Communication Suite allows them to single source the content and automatically update all necessary role-based outputs from one place. Now that Adobe Technical Communication Suite creates HTML5 output, my clients can expand their reach to push content to all mobile devices. The Help content queries the device, and adjusts the delivery based on screen size!"</i></p> <p>—Matt Sullivan, Independent Adobe Certified Instructor</p> <p><i>"Adobe FrameMaker supports single source document production, which means I only have to write, edit, and review information once. The result is fewer reviewers and writers are needed, and translation costs are reduced dramatically."</i></p> <p>—Mary Ann Howell, Certified FrameMaker Expert</p> |
| Using structured authoring and XML | YES. FrameMaker supports structured authoring and allows a mix of both structured authoring and unstructured authoring. No other tool has this capability. FrameMaker supports structured authoring in the XML standards of DITA, S1000D, DocBook or custom XML. |
| Using a Content Management System | YES. FrameMaker integrates with many popular CMSs, some of which are included for free. |
| Using role-based tools | <p>YES. FrameMaker can be customized for the role of each contributor, decreasing the learning curve.</p> <p><i>"Not all technical authors are the same. That's why it's hard to select a single authoring tool that meets the needs of each and every contributor. FrameMaker acknowledges this problem and provides a much needed solution in its new role-based views approach. Customizable authoring experiences—XML Code View for power using code junkies, Author View for writers, and WYSIWYG view for those who need a simple desktop publishing-esque view of the content being produced—provide a much-needed addition to the professional technical communication tool arsenal."</i></p> <p>—Scott Abel, The Content Wrangler, Inc.</p> |

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| <p>Using tools that support publishing and reviewing</p> | <p>YES. FrameMaker has historically had its strength in creating print and PDF documents, but RoboHelp moves it up several notches with cutting edge online and mobile outputs.</p> <p><i>"A real bonus is the smooth workflow between Adobe FrameMaker to Adobe RoboHelp within Adobe Technical Communication Suite. Here you have a toolbox of the best-of-breed apps for technical writers."</i></p> <p>—John Daigle, President and Owner, Evergreen Online Learning, LLC</p> <p>TCS has powerful reviewing features. Technical communicators can send PDFs to reviewers, who can use the free Adobe Acrobat Reader to edit the PDF. The technical communicator can easily import selected changes 'in place' into the FrameMaker source text and manage with 'track changes'.</p> <p><i>"The PDF round trip function in Adobe FrameMaker has been useful to us with a client project that involves updating dozens of topics every day. Rather than send a single PDF of more than 1,000 pages every few days with a request to review specific components, we instead send a PDF related to a single topic. After client review, we import the markup, make our edits, and resubmit. The time for reviews has dropped significantly."</i></p> <p>—Bernard Aschwanden, President and Owner, Publishing Smarter</p> |
| <p>Using dependable tools</p> | <p>YES. FrameMaker is far more stable than Word.</p> <p>FrameMaker handles large documents extremely well. In fact, even the earliest versions of FrameMaker could reliably create and open documents over 1000 pages without crashing! It can handle large numbers of graphics in a document without crashing and still have a snappy response time. FrameMaker is extremely reliable and maintains file integrity (non-corruption), unlike Word.</p> <p><i>"My experience working with lengthy publications proved to me that Adobe FrameMaker has a history of stability that cannot be matched by competing tools like Microsoft Word. Adobe FrameMaker allows me to rapidly change the entire structure of a document and its many components without worrying about the document becoming corrupted or incorrectly published. Also impressive is that FrameMaker correctly generates a variety of content across page spans, including indexes, tables, figures, headings, cross references, equations, and multiple paragraph and character level styles."</i></p> <p>— Bernard Aschwanden, President and Owner, Publishing Smarter</p> |

Powerful automation tools available

Adobe created powerful server automation tools that decrease publishing costs and are specifically targeted towards the efficiency requirements of enterprises:

[Adobe FrameMaker Publishing Server](#) is an enterprise software for automated multichannel publishing. Access publishing services remotely, and manage it with a comprehensive dashboard. Easily generate HTML5 output for multiple devices. Publish to EPUB 3, KF8, MOBI, PDF, mobile apps, WebHelp, CHM, and more formats. Leverage out-of-the-box support for Adobe Experience Manager, EMC Documentum, and Microsoft SharePoint, or use the new web APIs to smoothly integrate with other CMSs.

[Adobe RoboHelp Server](#) software extends the managing and tracking capabilities of Adobe RoboHelp software. Automatically build multiple sections of a project, and then publish as a unified online information system.

TCS sample migration plan

Your migration plan should be tailored to your enterprise's specific needs.

Below is a hypothetical, multi-phased plan for an enterprise that wants to migrate from freestyle Word documents to structured authoring. It shows how the tool-independent sample migration plan we discussed before can be implemented using FrameMaker, RoboHelp, and the free Adobe Acrobat Reader.

| | Today | Migration Phase 1 | Migration Phase 2 | Migration Phase 3 |
|-------------------------|--|---|--|--|
| Summary | Microsoft Word | Unstructured authoring using consistent styles and single source | Mixed unstructured and structured authoring using XML elements for styles, and single source | Structured authoring using XML elements and single source |
| Authoring Tools | Microsoft Word | FrameMaker in unstructured WYSIWYG mode | FrameMaker in unstructured WYSIWYG mode | FrameMaker in structured WYSIWYG mode Allows mix of unstructured and structured content |
| Publishing Tools | None. Word can generate only print, PDF, and simple HTML | FrameMaker for print and PDF documents RoboHelp for most online and mobile outputs | FrameMaker for print and PDF documents RoboHelp for most online and mobile outputs | FrameMaker for print and PDF documents RoboHelp for most online and mobile outputs |
| Reviews | Difficult using Track Changes feature | Free and easy using Adobe Acrobat Reader | Free and easy using Adobe Acrobat Reader | Free and easy using Adobe Acrobat Reader |

Of course, your plan should be tailored to your enterprise's specific needs. For example, your enterprise may be perfectly happy to stay on a particular phase for an extended period of time to fully evaluate the ROI and determine when and if to continue to the next phase.

Sample migration plan steps

Phase 1:

1. Train lead writers on how to build a template and documenting style guide rules.
2. Determine file naming and folder naming conventions for text and graphics usage.
3. Train authors on how to use FrameMaker's WYSIWYG editor, using the template and naming conventions consistently.
4. Import Word documents into FrameMaker. From the beginning, FrameMaker was designed to work well with Word, so importing is smooth. If you design the MS Word styles to match your FrameMaker paragraph tags, you can import a Word document into FrameMaker and create a clean, new FrameMaker document with little cleanup, especially if it doesn't have a lot of graphics.
5. Begin authoring new content using these templates and naming conventions.
6. Customize FrameMaker workspaces so that XML authoring requires only the tools and functionality needed for each role, making it easier and cost-effective to train FrameMaker users.
7. Determine conditional text, variable text, and insets in order to maximize content reuse and write lean (minimalist).

Phase 2:

1. Determine and test the XML standard that you plan to use in phase 3 (DITA, S1000D, DocBook or custom).
2. Create templates that define standard information types similar to your future XML standard. For example, if you will use DITA, define elements for concepts, task procedures, and reference information.

TCS is the only authoring tool that supports both structured and unstructured authoring.

3. Migrate content into these templates. The content should carefully follow the templates and be written lean (minimalist).
4. Begin authoring new content into these templates.
5. Take enough time to get authors used to the idea of adherence to the structured templates. Consider this training for phase 3.
6. Verify that the structure is not too restrictive. If it is, you may need to customize it.

Phase 3:

1. Design a conversion table to your chosen XML standard (DITA, S1000D, DocBook or custom). For example, if your standard is DITA, then variables and insets became CONREFs, and conditional text converts into the DITA VAL attributes.
2. Convert some documents by hand to your XML standard. That way you'll see exactly what is required.
3. Convert the rest of your documents. You can do it by hand or you can use automation tools built into FrameMaker.
4. Your enterprise is now using full XML and can enjoy the efficiency benefits. If for some reason you decide that DITA does not suit your needs, there is a way to back out. Just import DITA project into the FrameMaker project and save it to XHTML.

Recommendations:

- Test each phase on a small set of content before processing it all.
- Test the ROI using well thought-out metrics before moving to the next phase.

Enterprises prefer TCS

Adobe had fiscal 2016 revenues of US \$4.795 billion... Adobe will be around for the long term and will continue to stand behind its products.

Structured FrameMaker has over 37% of the authoring tools market worldwide, with major markets in the US, Europe, Middle East, and Africa.

Other authoring tools just don't have the same full set of capabilities as TCS. For example, no other authoring tools support both structured and unstructured authoring. Some are missing migration tools, a WYSIWYG editor, a publishing engine, scripting or full DITA support. Many have few publishing formats. Some tools focus on editing and can't handle the complete authoring cycle. Some have exorbitant maintenance contracts.

"Adobe Technical Communication Suite gives us a powerful documentation process from start to finish. I can author in Adobe FrameMaker and set documents up for review through Adobe Acrobat. Using the same set of source files, Adobe RoboHelp lets me then publish multiple outputs, such as eBooks, different types of online help, and HTML5."

—Mary Ann Howell, Certified FrameMaker Expert

Executives want to have confidence in the software tools company that they choose. Unfortunately, some tools are made by companies that have not been around very long and/or are missing the solid financial numbers that would give us confidence that they are going to exist in the long term. It can be a crippling mistake to choose a tool that ends up as a dead product of a failed company.

A long-term relationship

Before you make the commitment to purchase TCS, talk with Adobe about having experts work with your enterprise to develop a flexible, long term plan for migration from Word. The plan should take into account the specific needs of your enterprise, including your budget, culture, tolerance for risk, and technical expertise. The plan should include long-term training needs, and where to find the best professional trainers. Metrics should be created to test the ROI of each phase before moving to the next.

Once a plan is in place, Adobe can help you plan what software is needed for the first phase. For example, you may only need a few TCS licenses while your team is being trained to create templates, styles, and conversions. As your staff phases into writing with these new tools, Adobe can help you choose the best tools to match your need, optimize your expenditures, and maximize your ROI.

Adobe can also work with your team to find certified experts that offer training for specific skills, such as how to create templates. Training could be live or recorded, online or face-to-face, depending on the need.

Adobe Corporation stands above the rest

An authoring tools company should be profitable and have solid financials. If not, then it may not be around a long time. Adobe meets the challenge. It had fiscal 2016 revenues of US \$4.795 billion. More than half of Adobe's revenue is generated outside the United States. Adobe FrameMaker has an installed base of almost 30000+ customers and over 700,000 units sold worldwide. As of June 1, 2012, Adobe employed approximately 10,474 worldwide. Adobe has created world standards such as PDF and Flash and popular tools like Photoshop, InDesign, and Illustrator. Adobe will be around for the long term and will continue to stand behind its products.

TCS has the highest ROI of other authoring tools

Adobe developed a simple ROI CALCULATOR that will give you an idea of the efficiencies your enterprise could enjoy by migrating to TCS. [Try it here](#)

You can't afford to make a mistake in choosing the ideal authoring and publishing tools for your enterprise technical documentation.

For any queries, please reach out to us at techcomm@adobe.com

1 Adobe Technical Communication Suite Aberdeen Whitepaper "The Technical Communicator's Transformation - Publishing On-Time and On-Quality" by David Houlihan

2 Alan S. Pringle and Sarah S. O'Keefe. (2011). The State of Structured Authoring. Scriptorium.

3 Rockley, Ann; Cooper, Charles (2012). Managing Enterprise Content: A Unified Content Strategy (2nd Edition). New Rider.

Subject to Apple's current requirements and approval.

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