DACHS

Reliable, competent, and flexible IT services in a strict regulatory environment



How to Accelerate Your Submission Content Preparation

Lessons Learned including MS Word Tips



2023-03-30

Learning Objectives

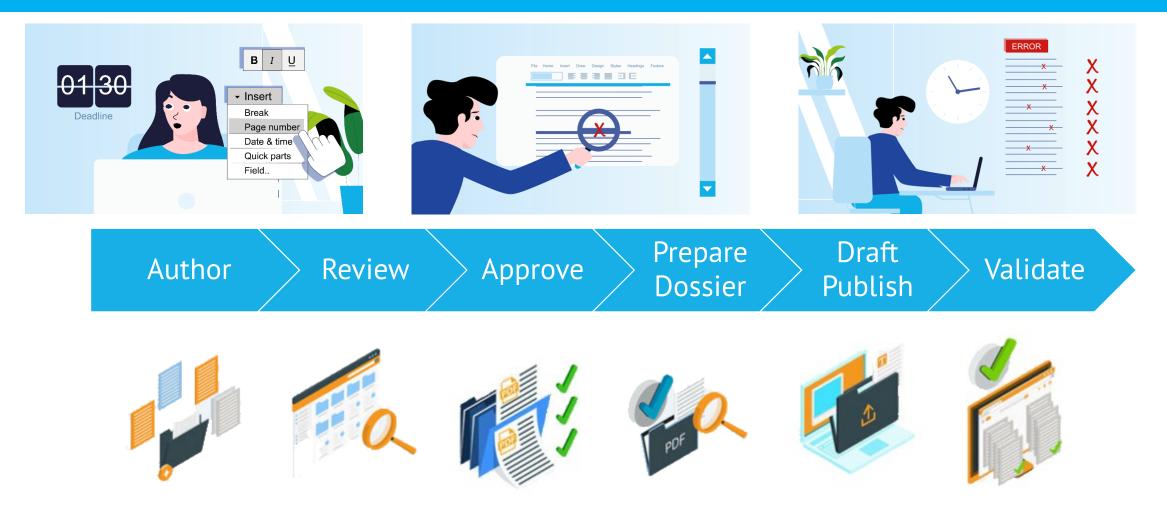
Understand that:

- You can save a lot of time & reduce the risk of non-compliance
- Validation is possible much earlier in the submission process
- Many of your checks and fixes can be automated





Typical Submission Content Preparation Workflow





3

Reaching Technical Compliance

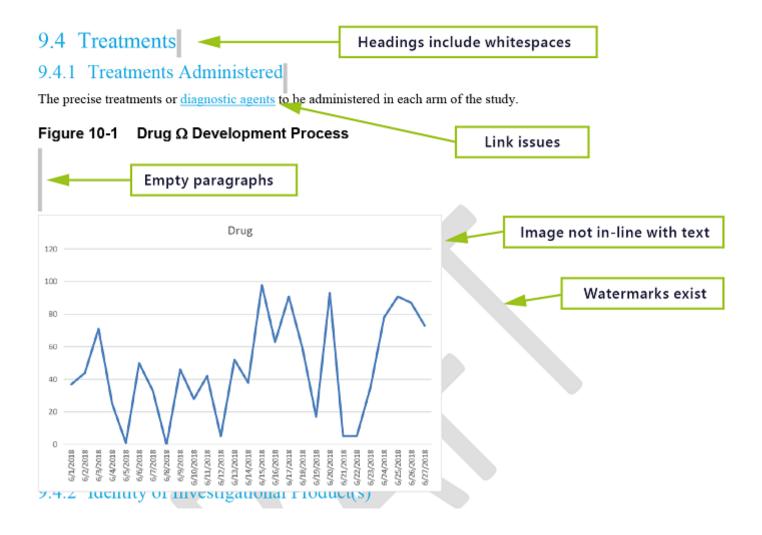
► Why?

- It is critical for successful submissions
- How do we reach technical compliance?
 - Following industry standards and good authoring processes
 - Creating compliant PDF from compliant source Word document
 - With the correct tools the process can be simplified





Regulatory guidance vs. typical Word Issues





Regulatory guidance vs. typical Word Issues

In the text of the report, a brief description of the test drug(s)/investigational product(s) (formulation, strength, batch number(s)) should be given. If more than one batch of test drug/investigational product was used, patients receiving each batch should be identified in appendix 16.1.6. Figure 14-1
Comments exist

9.1 Clinical laboratory evaluation

Out of sequence numbering

Table not set to page width

9.1.1 Listing of Individual Laboratory Measurements by Patient (16.2.8)

When required by regulatory authorities, the results of all safety-related laboratory tests should be available in tabular listings, using a display similar to the following.

Table 3	L	ist of La	borator	y Measur					
				-		-	AGAT	0007	
Patient	Time	Age	Sex	Race	Weight	Dose	SGOT	SGPT	APX
#1	Т0	70	М	W	70 kg	400mg	V1*	V5	V9
	T1						V2	V6	V10
	T2						V3	V7	V11
	Т3						V4	V8	V12
#2	T10	65	F	В	50 kg	300mg	V13	V16	V19
	T21						V14	V17	V20
	T32						V15	V18	V21

* Vn = value of a particular test

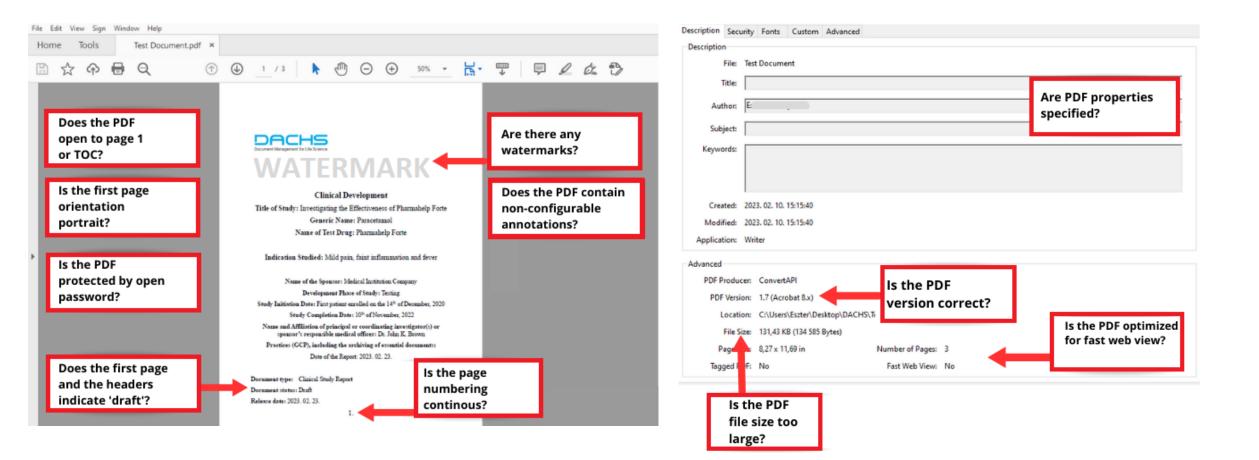
DACHS Document Management for Life Science

Problems with Word documents can cause rendering problems

- Use of not inline embedded objects/images
- Incorrect margins or paper size
- The presence of unused bookmarks in the source document
- Inconsistent or improper use of styles
- Corrupted style configuration/settings
- Invalid/damaged fields; broken links or cross-references
- Hidden/instructional text remaining in the source document
- Revised text/comments not removed

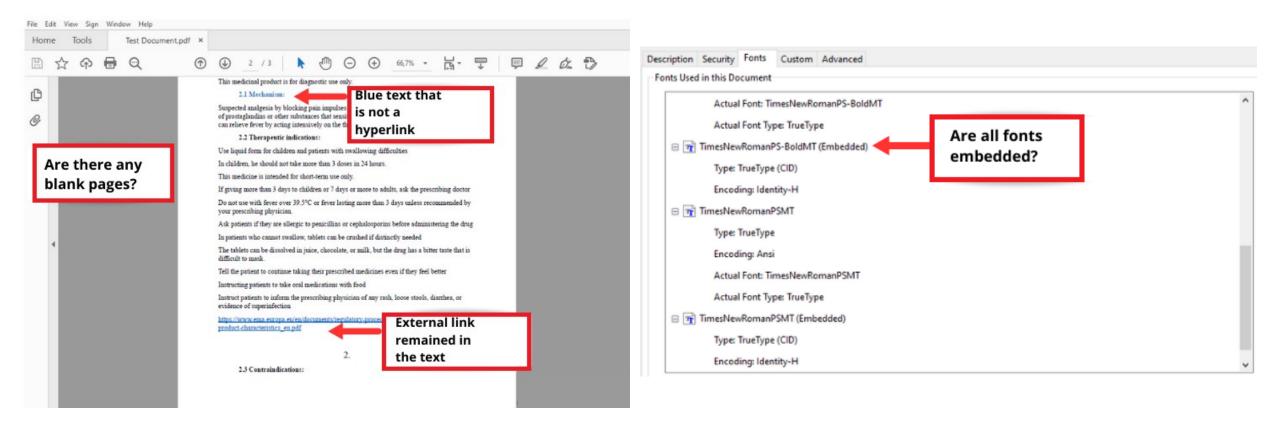


Regulatory guidance vs. typical PDF issues





Regulatory guidance vs. typical PDF issues

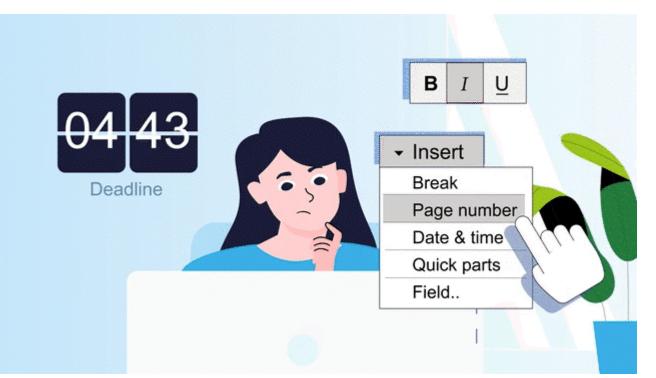




2023-03-30

Painful Formatting Challenges Authors Face

- Reformatting external, existing content
- Using the correct template
- Using correct list formats, figure numbering
- Using correct table formats
- Manual identification and fixing of issues
- Slightly different requirements imposed by multiple health authorities
- Repetitive tasks
- Time-consuming, complicated processes
- Multiple tools required
- Risk of Refusal To File
- Missed deadlines
- Slow + Complex + Risky
- Where have YOU had the biggest issues?





Painful Challenges QC Reviewers Face

- Poor-quality documents
- Manual identification and fixing of issues
- Repetitive issues and tasks
- Time-consuming, complicated processes
- Incorrect checklist and style guide usage
- Large documents
- High risk of missing an issue
- High risk of Refusal To File
- Demanding timelines
- Slow + Complex + Risky
- Where have YOU had the biggest issues?



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Word Templates

PROs

- Easy to create from a good sample
- Controlled formatting elements included (paragraph styles, table styles, numberings)

► CONs

- Hard to update existing documents
- Problematic to deploy new updates
- Word senior expertise is still required for the application
- Usage of multiple steps could be timeconsuming (table format)

Company Name Drug/Substance Name

Nonclinical Overview

Nonclinical Overview

1. Cover page

Document title: Nonclinical Overview	
Company name and address	<name>, <address></address></name>
Document version and date	<document version="">, <date></date></document>
Regulatory authority(ies) and submission	<authority> <sub. identifier=""></sub.></authority>
identifier	

- 2. Table of contents
- 3. Introduction

Brief overview of the nonclinical program	
Objective of the Nonclinical Overview	
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4. Nonclinical Pharmacology

Summary of the pharmacology studies conducted	
Description of the pharmacodynamic and	
pharmacokinetic properties	
Discussion of any relevant findings	



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Word Macros

PROs

- Recorded macros make it easy to repeat complex formatting tasks.
- No deep development knowledge is necessary to make "smart" tools.
- Word expertise is not really needed for the application of macros.

CONs

- VBA code is really slow and unstable during complex task execution (e.g., searching and correction).
- VBA is an insecure coding solution, sometimes generating a virus scanner false alert.
- It is still problematic to deploy new updates.



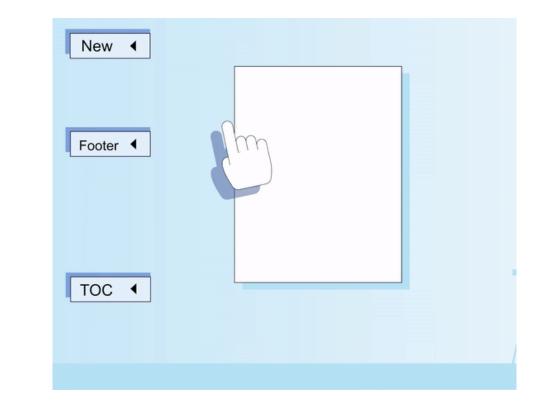
Word Add-Ins

Pros

- Complex tasks can be achievable
- Good performance and secure coding solution
- No Word experience is necessary for application
- Easy to distribute and update globally
- Existing documents are manageable

Right examples for application areas

- Consistency checking PerfectIt
- Reference handling EndNote, Zotero
- Compliance verification and correction OnStyle, DocXTools
- Authoring support OnStyle



Automatic batch validation and correction for Word files

- Integration with another automated processes/workflow
- Document quality checks on multiple documents
- Automatic corrections
- Detailed report on findings and changes





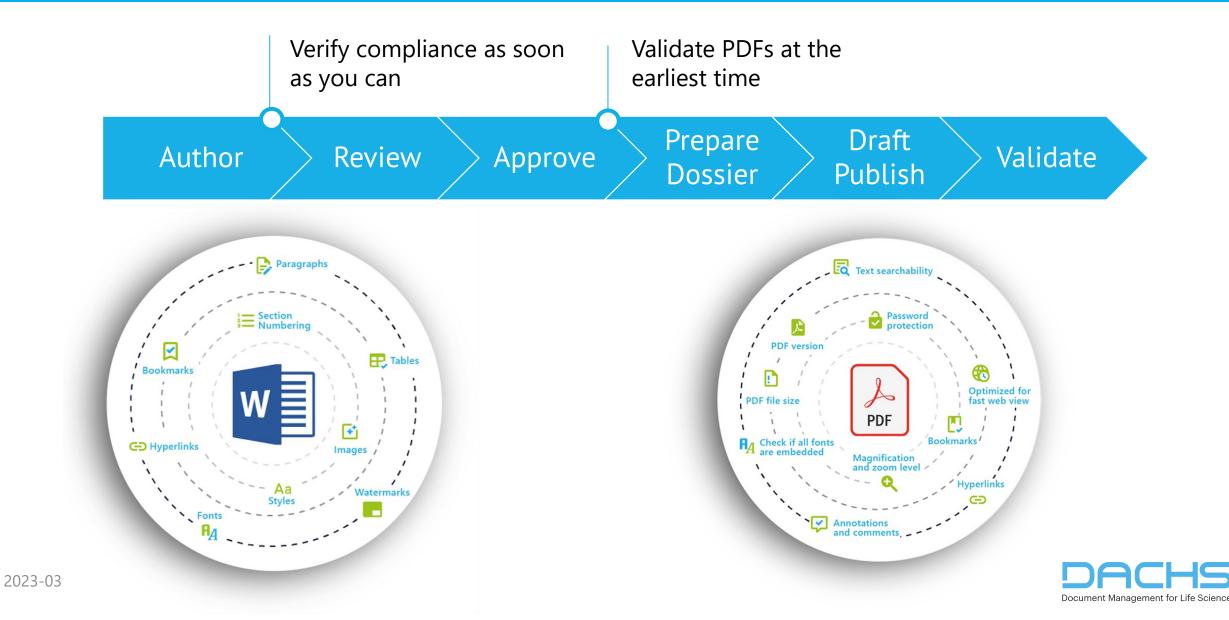
PDF Files

- Adobe Acrobat functions
- Other PDF tools, plug-ins
- Interactive semi-automated batch validation (OnTrack PDF Validation)
- Automatic batch validation

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Automate Word and PDF file validation



Create Compliant Word Documents

- Use regulatory-specific authoring tools
- Ensure that you use the right style and formatting standards
- Automate the identification of issues
- Automate issue correction
- Create PDF-ready documents by eliminating known errors



Save Time in QC Review

- Automate QC checks
- Get a list of findings in seconds
- Automate issue correction
- Use predefined, use-case-specific checklists
- Create PDF-ready documents by eliminating known errors





Benefits for Regulatory Professionals



Reduce risk

Enforce standards

- Reduce manual steps and time pressure
- Identify issues and achieve compliance earlier
- Make sure that technical requirements are met

Speed

- Automate checks and corrections
- Reduce rework
- Work with multiple documents at once
- Ease communication with comprehensive reports
- Reuse content in multiple formats for multiple Health Authorities simultaneously

Focus on the content



- Standard tables are very tedious to create properly from external sources, considering
 - Table borders and header rows
 - Styles and font formats in cells
 - ► Title numbering, captioning, and style
 - ► Table sizing and alignment to margin

Typical issues

- ► Non-uniform table appearance with improper font format
- Incorrect table numbering
- Irregular table positioning



Table Transformation with Word Templates

Find

Options:

Formate

- ► How can the typical issues be detected using Word features?
 - Find Tables (one by one)
 - Advanced Find

How can Word Templates help?

- Prerequisite: have the correct template
 - Table styles
 - Paragraph styles
- Apply simple border formatting
- Using standard table cell styles manually

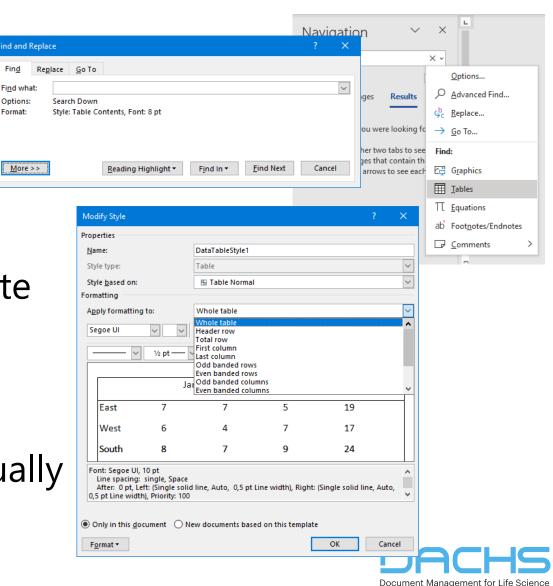


Table Transformation with Word Macros

23

- How can the typical issues be detected using Word macro features?
 - Macro to find tables (multiple)
 - Advanced search for formatting rules

How can a Word macro help?

- Add custom bordering and special table format
- Apply table cell styles with logic
- Insert smart table captioning

Patient	Time	Age	Sex	Weight	Dase	SGOT	SGPT	AP
#1	To	70	400mg	V1*	V5	V9		
Micro	osoft Word			×		V2	V6	V10
						V3	V7	V11
Cell with small font: 6 pt has found in table no. 3						V4	V8	V12
#2	Device when the step hand?			300mg	V13	V16	V19	
						V14	V17	V20
		Yes		No		V15	V18	V21
* V - vou	ue or a part					1		

Patient	Tim e	Ag e	Se x	Weigh t	Dose	SGOT	SGPT	APX
#1	To	70	м	70 kg	400m g	V1*	V5	V9
	T1	Microsoft Word X		V2	V6	V10		
	T2	Selected table formatted with:			V3	V7	V11	
	T3				V4	V8	V12	
#2	T10	- Header: Table Cell 11 Left - Body: Table Cell 10 Center - Footer: Table Cell 10 Left		V13	V16	V19		
	T ₂₁		V14	V17	V20			
	T32				or	V15	V18	V21
* Vn = value of a pa	articular				OK			



Table Transformation with OnStyle

How can these issues be detected using OnStyle features?

- Table Not Fitting to Page
- Table Header Row Not Repeating
- Table with Row Break across Pages
- Table with Small Font Size
- Incorrect Caption, Missing Caption, Orphan Caption
- Receding Caption, Empty Caption

How can OnStyle help?

- Create a standard table
- Insert a standard table title
- Transform existing table by
 - Applying the selected Table Style
 - Using the default table style for multiple tables
- Change the number of header rows and reformat them

Inspecti	ion Resu	lts			\sim	\times		
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- Hyperlink issues are very hard to detect
 Typical issues
 - Wrong or missing hyperlink target
 - ► Text looks like a hyperlink, but the link is missing
 - Hyperlink looks like normal text
- How can these issues be detected manually?
- ► How can these issues be detected using Word features?
- How can OnStyle help?
 - Inspection and correction modules
 - Export all hyperlinks



- Abbreviation table is mandatory in large documents
 How to create it?
 - Manually, searching all used abbreviations in the document
 - Copy and paste an existing table from another document
 - Try to collect the abbreviations and their descriptions with regular expression search
 - ► Use an add-in, like OnStyle

Challenges

- ► To meet all rules and requirements
- ► To collect automatically the abbreviation descriptions



Save Time and Reduce Risk with OnStyle



- Proven Word plug-in
- Customized for Life Sciences
- Controlled, supported authoring
- Automated QC checks
- Automated fixes
- Improved document quality
- Comprehensive validation report



- Configurable Ribbon with powerful authoring tools
- Predefined authoring settings ensure that you use the right style and formatting standards
- Automated validation identifies and lists the deviations from standards
- The tool navigates you to the issues and gives guidance for correction
- Controlled, automated issue correction
- Document updates to the newest standard or multiple formats with a single click



Compliance with OnStyle

- Submission-specific inspections
- Configurable inspection sets
- Issues are listed and navigated to
- Number of found issues is indicated
- Automated correction for issue types in bold
- Issues can be corrected one by one or all at once
- Status of the issues is indicated

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		▷ Blue Text Not	Linked (4)			
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- 1) <u>Abbreviation</u>
- 2) Blue Text Not Linked
- 3) <u>Character Formatting Applied</u>
- 4) Character Style Applied
- 5) <u>Comment Available</u>
- 6) <u>Corrupt Style Alias</u>
- 7) <u>Cross-Reference Issue</u>
- 8) <u>Document Revisions</u>
- 9) <u>Embedded Object</u>
- 10) Empty Key Property
- 11) Empty Page
- 12) Empty Paragraph
- 13) External Link Formatting
- 14) Harvard Style Reference
- 15) <u>Heading Numbering Issue</u>
- 16) <u>Heading or Title with Break</u>
- 17) Heading Out of Sequence
- 18) <u>Heading Whitespace</u>
- 19) Hidden Text Available
- 20) <u>Highlighted Text</u>
- 21) <u>Hyperlink to External Document</u>
- 22) Hyperlink with No Hyperlink Style

- 23) Image in Low Resolution
- 24) Image Not Inline
- 25) Image with Incorrect Format
- 26) Image with Incorrect Style
- 27) Incorrect Caption
- 28) Incorrect List Format
- 29) Instructional Style Used
- 30) Internal Hyperlink Not Set
- 31) Internal Hyperlink Target Mismatch
- 32) Internal Hyperlink with No Target
- 33) Internal Reference Document
- 34) Invalid Symbol
- 35) Language Issue
- 36) Manual Page Break
- 37) Narrative Text Formatting Issue
- 38) <u>Non-black Text</u>
- 39) Nonstandard Page Layout
- 40) Nonstandard Style Used
- 41) Obsolete Cross-Reference
- 42) Paragraph Formatting Applied
- 43) Placeholder Text

- 44) Protected Document
- 45) Read-Only Mode
- 46) <u>Repeating Whitespaces</u>
- 47) Restricted Access
- 48) Restricted Editing
- 49) Special Character
- 50) Special Keyword Used
- 51) Standard Style Modified
- 52) Strikethrough Text
- 53) Symbol in TOC
- 54) Table Header Row Not Repeating
- 55) Table Not Fitting to Page
- 56) Table with Row Break across Pages
- 57) Table with Small Font Size
- 58) Track Changes
- 59) Unused Bookmark
- 60) Unused Nonstandard Style
- 61) <u>Watermark Available</u>
- 62) Web Link Available



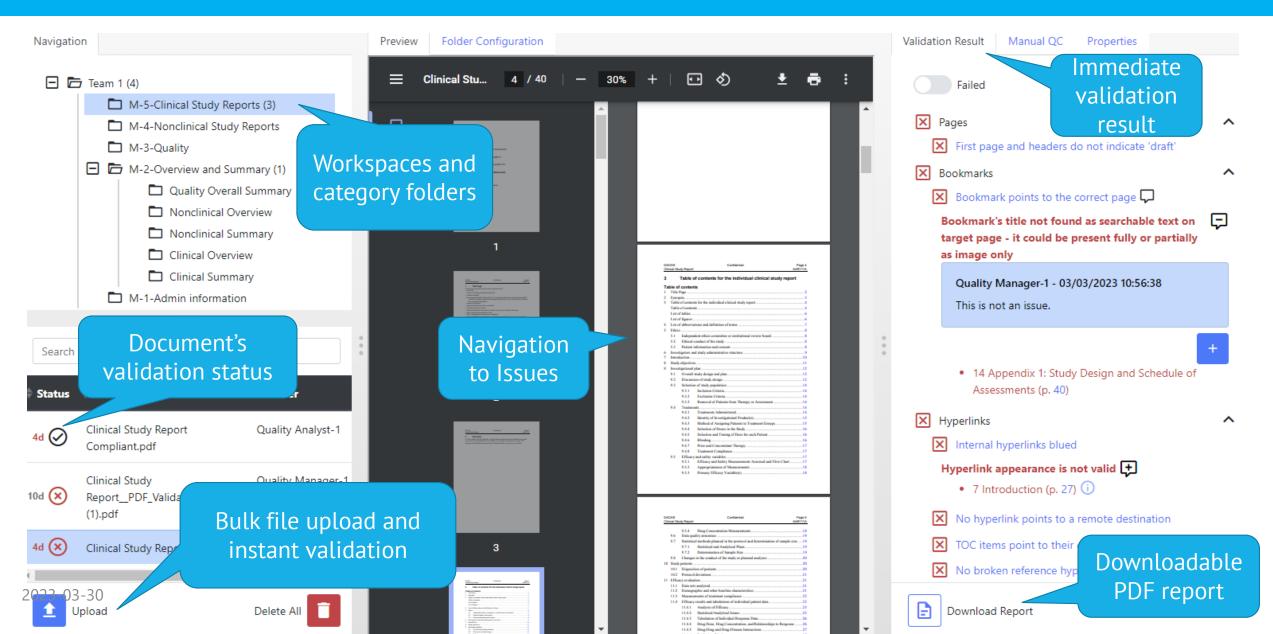
Save Time and Reduce Risk with OnTrack PDF Validation 31



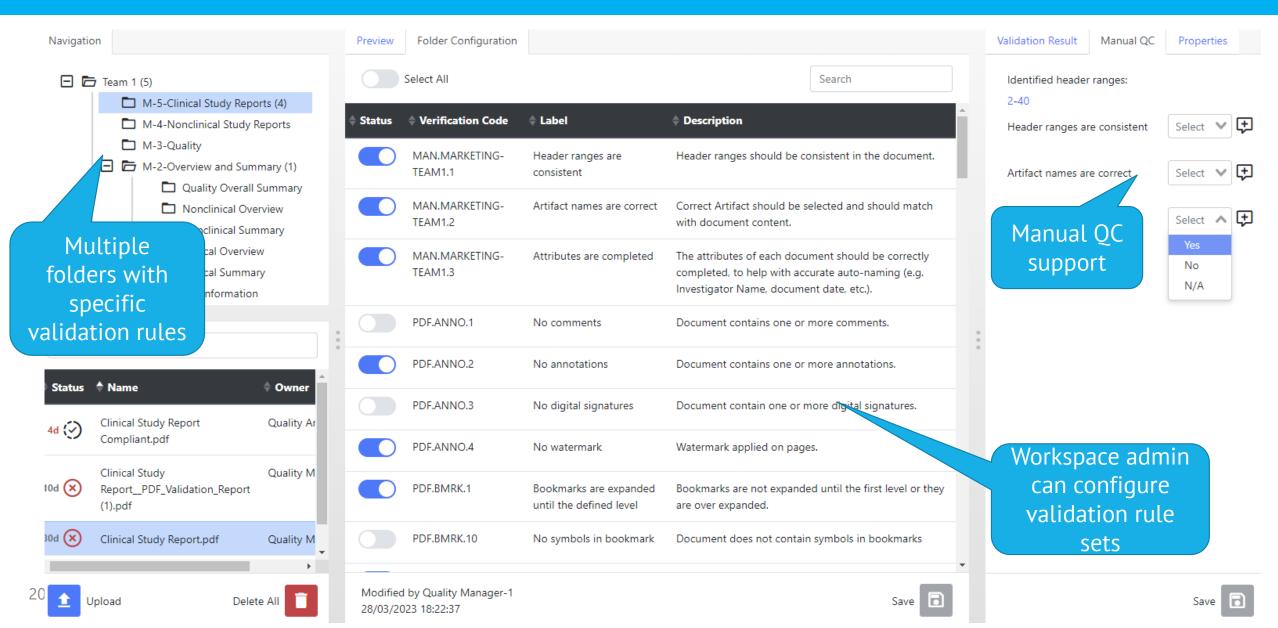
- Health authority-specific PDF validation
- Many documents validated at the same time
- Predefined, use-case-specific checklists
- List of findings in seconds
- Easy navigation to issues
- Manual QC support
- Comprehensive validation report



How Does OnTrack PDF Validation Work



Configurable Validation Rules in OnTrack



- 1) Text is searchable
- 2) PDF file size does not exceed configured limit
- 3) PDF contents can be processed successfully
- 4) PDF is not protected by open password
- 5) No certificate protection
- 6) PDF version is correct
- 7) "Fast Web View" option is activated
- 8) No security (document access) restriction is set
- 9) All used fonts have been embedded
- 10) No Track Changes
- 11) Navigation Tab Setting
- 12) Page Layout is set to Default
- 13) Magnification is set to Default
- 14) Document open to page 1 or TOC
- 15) PDF contains only pages with the configured sizes
- 16) First page orientation is portrait
- 17) No blank page

- 18) Sequential page numbering
- 19) First page and headers do not indicate 'draft'
- 20) No text on side margins
- 21) Correct scan resolution
- 22) Bookmarks are expanded until the defined
- 23) Number of bookmark levels does not exceed maximum limit
- 24) Bookmark nesting is correct
- 25) Bookmark has title and destination
- 26) Magnification of the bookmarks is set to inherit zoom
- 27) No multiple action bookmark
- 28) There are bookmarks
- 29) Provide bookmarks for each item listed in TOC
- 30) First bookmark leads to first page
- 31) No symbols in bookmark
- 32) Bookmark points to an existing page
- 33) Bookmark points to the correct page
- 34) Internal hyperlinks blued

- 35) No broken reference hyperlink
- 36) Relative paths are used in hyperlinks
- 37) No external hyperlinks to websites
- 38) Magnification of the hyperlinks is set to inherit zoom
- 39) No multiple action hyperlink
- 40) No blue texts without hyperlinks
- 41) No blue texts without hyperlinks ignoring text within square brackets
- 42) Hypertext linked TOC is included
- 43) No inactive hyperlink
- 44) Hyperlink points to an existing page
- 45) Hyperlink points to the correct page
- 46) No hyperlink points to a remote destination
- 47) TOC items point to their correct pages
- 48) Sequential TOC section numbering
- 49) Provide TOC item for each bookmark
- 50) No comments
- 51) No annotations
- 52) No digital signatures
- 53) No watermark



Summary

► You learned that:

- You can save a lot of time and reduce the risk of noncompliance.
- Early validation is feasible in the submission process on both Word and PDF files.
- There are powerful automation tools with lot of checks and fixes.
 - See OnStyle & OnTrack





Thank you for your attention More info: <u>https://dachs.ch</u> zsuzsa.fulop@dachs.ch zoltan.kovacs@dachs.ch



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