

Organization-wide creation of accessible PDF/UA documents: The shortest route to 100% PDF/UA

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Overview



Session structure

- 1. Overview
- An exercise
- 3. How to define goals for an 'accessible document company'?
- 4. Approaches for making a company '100% document accessible'?
- 5. Conclusions and summary:
 What's the most economical and most likely successful and most likely sustainable approach?



A little exercise



A little exercise...

You:

Consultant (MBA), specializing in accessible document infrastructure

Your customer:

- Insurance company, hundreds of employees, several departments
- All kinds of documents (internal/external communication, publications, forms)



The mission

The mission:

 All documents in the organisation must become 100% accessible by end of 2020



Your compensation

- 1/3 end of 2017: after project launch
- 1/3 end of 2020: if all goals have been reached
- 1/3 end of 2025: if all goals are still being reached
- Goals not reached if
 - Budget exceeded
 - Not all documents accessible
 - Insufficient quality of documents
 - Approach not accepted by staff
 - 0 ..



Goals



Goals

All document based documentation must be accessible – what does that mean? What are the various goals?

Your input please:

- 3
- 3
- •



Goals

All document based documentation must be accessible – what does that mean? What are the various goals?

- All types of documents, namely:
 - b2b communication
 - b2c communication/interaction
 - Investor communication
 - marketing/sales/PR
 - internal communication,
- Consistent high quality; needs monitoring
- Immediately available in accessible form
 - Immediately? Within hours? Within one day? Two days? A week?
- Sustainable
 - Must work now, next year, and ten years from now
- Reasonable and predictable budget



Which types of documents?

What document types can appear?

Your input please:

- 1
- 3
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Which types of documents?

- Letters to customers
- Internal memos
- Orders (to external providers of goods/services)
- Contracts
- Invoices
- Statements
- Fillable forms (applications, claims, ...)
- Sales literature
- "Print" ads
- Internal performance/sales reports
- Annual financial report to stakeholders
- ..



Who is creating documents?

Who are the people creating documents?
Which documents get created by an automated process?

Your input please:

- 3
- •
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Who is creating documents?

Who are the people creating documents?
Which documents get created by an automated process?

- Accountants
- Customer service agents
- Secretaries
- Sales representatives
- People in marketing department
- Assistants to the management
- Service providers (e.g. ad agency)
- IT staff in charge of output management
- ...



Goals – Summary

Document based communication must be fully accessible by end of 2020

- All documents
- All types of documents
- Regardless of author or authoring system
- Externally provided documents
- Documents with externally provided content
- Quality control and monitoring
- Sustainable must work fully for at least 10 years
- No exceptions!!!
- No strict limit to budget but:
 No budget without justification



Approaches



What are possible ways to achieve the goal?

Your input please:

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Note: Money does play a role...



Note: Money does play a role...

Various options:

- Enable staff so they can make every document accessible
 - o Buy tools
 - Provide training
 - Occasional monitoring/quality assurance
 - Oust do it!?
- Install specialized "document services" department
- Use automated processes
- Outsource to external service providers
- And: How do options compare in terms of total cost?

Additional ideas

Note: Money does play a role...

What else to look at:

- Simplify all documents
 - Structural (content) / visual organisation (layout)
- Instead of PDF (PDF/UA) use e.g.:
 - Microsoft Word, Google Docs
 - o EPUB3
 - o HTML
- Use templates
- Use web frontend for creating documents
 - documents as such get created by an automated process
- Move more document creation to automated processes
- Avoid "documents", use something else
 - For example, plain text email, web based customer portal



How much does remediation actually cost?

Some non-representative examples...:

- One-offs:
 - Letter, 1 to 2 pages: 25 EUR/USD
 - 16 page brochure: 250 EUR/USD
- Framework agreement,
 self-service portal or automated workflow,
 high volume of similar documents
 - Price per page: 1 EUR/USD or even (much) less
 - Letter, 1 to 2 pages: ca. 1 EUR/USD
 - 16 page brochure: ca. 15 to 20 EUR/USD



Possible challenges

What about

- Knowledge
- Expertise
- Training
- Motivation
- New employees
- Freelancers
- Tools
- Quality control
- Monitoring



What are some of the most ugly stumbling blocks?

- Fillable forms
- Diagrams
- Mathematical formulas
- Icons, symbol fonts
- Complex layout
- Complex tables
- Content from external sources
- Legacy content
- OCR
- ..



What are some of the most ugly stumbling blocks?

And how to overcome them?

Strategies to handle stumbling blocks:

- Awareness
- Procedures for special cases
- Internal task force? External service provider?
- Avoid altogether
 - ... or provide/use alternatives as a complement



How×Who



How × Who		How		
		Ad hoc	Templates	Processes
Who	Staff			
	In-house service			
	Outsourced service			
	Processes			

How×Who



How: Adhoc



Document creation

Ad hoc

How do people create the various types of documents if there are neither rules nor templates?

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Document creation

Ad hoc

How do people create the various types of documents if there are neither rules nor templates? **Challenges:**

- General accessibility know-how
- Understanding of the various document types
- General tool know-how (e.g. Word, InDesign)
- Availability of special tools
 - Overcome limitations of mainstream tools
 - o Is IT / procurement flexible enough?
- Help with quality assurance
 - O When is it good enough?
- Strategy for handling "road blocks"
 - For example, bugs in the software, overly complex layout
- How is monitoring / supervision carried out
 - Quality (e.g conformance with PDF/UA)
 - Use of resources (e.g. employee time how long does it take?)



How: Templates



Document creation

Template based

How do people create the various types of documents based on templates?

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Document creation

Template based

How do people create the various types of documents based on templates? **Challenges:**

- Who provides and maintains the templates?
 - External service provide? IT department?
 - Quality assurance for templates and template output?
- Roll-out of templates (and special software)?
- How many different templates are needed?
 - Can every real world situation be covered by templates?
- What if the template 'does not fit'?
- How much training is still needed?
- Does it work with different software versions?
- Monitoring?
 - What if employees use templates in the wrong way?



How: Processes



Document creation

Process based

How are documents created by processes?

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Document creation

Process based

How are documents created by processes? Challenges:

- Only suited for certain types of documents
 - Good for
 - documents based on structured data/content
 - High volumes of repetitive content types
 - Not very flexible, major effort for
 - Each new type of document
 - Modifications
- Only one time invest?
 - Relatively inexpensive once implemented
- Can be combined with template strategy
 - Web based front end for writing into template
 - Document management systems
- What about "highly designed" documents?



How×Who



Who: Staff



Staff

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Staff

- Each and every employee writing/compiling documents?
- Who, and how many, are those employees?
- Do they need special software?
- How to train, and keep staff trained?
- What about motivation?



Who: In-house service



Specialized department: In-house service

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Specialized department: In-house service

- For which types of documents?
 - Communication such as letters to customers or business partners?
 - O Internal memos and reports?
 - Sales brochures?
 - Occupance of the contracts?
- What type of skills are needed?
- Is it allowed to change design or even content?
- How to scale the service?
 - E.g. handling peak times



Who: Out-sourced



Out-sourced: Remediation service

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Out-sourced: Remediation service

- The most expensive but easiest way?
- Requirements:
 - Reliable relationship and framework agreement
 - Well defined procedures
 - Some kind of 'interface' (e.g. automation or portal)

Advantages:

- Monitoring and QA can be outsourced as well
- Typically "experts at work" good quality and relatively fast
- Scales well
- No needs for own infrastructural efforts
- Predictable cost



Who: Processes



Processes

- 3
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Processes

(also see above)

- Must fit into the overall IT structure
 - Widely used IT based processes must already exist, or
 - Need to be implemented first
- Only suited for certain types of documents
 - Good for
 - documents based on structured data/content
 - High volumes of repetitive content types
 - Not very flexible, major effort for
 - Each new type of document
 - Modifications
- Only one time invest?
 - Relatively inexpensive once implemented
- Can be combined with template strategy
 - Web based front end for writing into template
 - Document management systems
 - No more desktop tools such as Word?



Summary



Summary

- Findings
- Fairy tales
- Surprises
- Controversial

What were the most important insights for you?

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- ?



Summary

- Findings
- Fairy tales
- Surprises
- Controversial

What were the most important insights for you?

- Every employee an accessibility specialist neither cost efficient nor sustainable
- Simpler documents always cost less
- Less documents cost less (maybe)
- Remediation not always most expensive option
- External content can spoil everything
- 100% coverage + perfection = tough



Conclusions



Conclusions

What would you recommend to those who were not in this workshop?

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- ?



Conclusions

What would you recommend to those who were not in this workshop?

What would you recommend to those who were not in this workshop?

- Plan comes first
 - Inventorize overall situation and needs
 - Calculate total cost before making decisions
 - Determine medium-term sustainability
- Focus on low hanging fruit
 - Keeps motivation up, provides learning opportunities
- DIY by staff only if training not necessary
- Do as much by means of processes as possible
- Everything else goes to a service provider
 - o in-house departments do not scale well





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