Information Management Resource Kit

Module on Management of Electronic Documents

UNIT 4. WORKFLOWS

LESSON 3. CREATION AND PROCESSING OF ELECTRONIC FILES

NOTE

Please note that this PDF version does not have the interactive features offered through the IMARK courseware such as exercises with feedback, pop-ups, animations etc.

We recommend that you take the lesson using the interactive courseware environment, and use the PDF version for printing the lesson and to use as a reference after you have completed the course.



Objectives

At the end of this lesson, you will be able to:

• understand the **usefulness of a workflow** for creating, processing and delivering documents on different media;

 distinguish the different steps of electronic production and management of documents; and

• identify the **requirements and options** you have in structuring your workflow.





Introduction

The current process is mainly meant for printing: this involves a lot of work when we have to convert documents into formats that are more suitable for the Internet or e-mail.



Ms. Lee noticed that, as publication of electronic format documents increases, the process she follows for creating and delivering documents is becoming obsolete.

In fact, it is mainly for delivering documents in print and unlikely to favour electronic dissemination.

What Ms. Lee needs is a new process designed from the start to disseminate documents through both electronic and printed media.

The process	
The process for creating documents to be d media goes through five main stages:	isseminated through both electronic and print
Click on each stage to	see the description
1. AUTHORING	Documents are planned, authored and edited in a format that facilitates conversion for electronic and print media.
2. SELECTION AND APPROVAL	Documents are approved and sent for conversion. They can also be acquired from external sources.
3. CONVERSION	
S. CONVERSION	Documents are converted into the formats appropriate for delivery on the media you have selected to best reach your audience: a website, a CD-ROM or a print book.

4. STORAGE	More of a concept than an activity, storage means keeping your documents in order,
	properly named, in a secure environment, in the most appropriate format for publication, reuse or conservation.
5. PROVIDING ACCESS	When the content and formats are final,
	documents are published, distributed, posted to a website or stored in a database for the intended audience to access them.





Structuring the wo	Structuring the workflow		
Having identified	your workflow objectives, you have to define:		
DOCUMENT STANDARDS	If you want to automate part of your workflow, you have to make sure that standards (e.g. templates, metadata, formats for texts and images) are consistently applied. Otherwise, a lot of manual work has to be done in order to make a document compliant to your standards!		
TOOLS	You need to identify the tools that best help you to apply the standards . Some standard tools can be used for the job (e.g., authors may use Microsoft Word just because it is widely used). Other tools have to be customised or built to fit your requirements.		
KEY ROLES	Authors, publications officers, information systems officers, librarians and Webmasters are among the key roles your staff will play in the workflow. Note that roles do not necessarily correspond to the same number of staff members : if you have simple needs, one person could play all roles.		
	tools and goals have been established, tasks and procedures can be identified and oles needed to implement the workflow.		
	Checklist for structuring a workflow		





b) Assign styles to each block	A formatting style should be assigned to mark the different blocks in order to facilitate the next stages in the process.
Bytes: Paragraph proview In Bodar: In Bodar: In Heading 1 Intending 3	Look at this example: every time you assign the "Heading 1" style to the chapter-level headings, these will mark the chapter blocks o your document.
Normal Character preview Effective Information Manage Description Normal + Font: Arial, 14 pt, Bold, Kern at 14 pt, Space before 12 pt: after 3 pt, Keep with next, Level 1 Styles in use	Choose styles carefully and assign them to your document blocks consistently: when you convert your document to HTML or XML, styles tell the conversion tool which HTML or XML elements should be used to correctly convert your document and preserve its structure.
Organizer <u>New Modify</u> Delete	This is a good investment at the authoring phase!



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1.	AUTHORING
2.	SELECTION AND APPROVA
3.	CONVERSION
4.	STORAGE
5.	PROVIDING ACCESS

A text processing format like a Microsoft Word document is usually preferred for editing the content and the formatting **before the document is finally approved and selected** for conversion and publication.

The **conversion stage** can include different procedures depending on the file formats needed to visualize the final layout. Here are some **conversion standards**:

• For PDF: the compression options suitable to the intended use of the final output, e.g. to be read on screen or used for high-quality printing.

• For HTML: the HTML or XHTML definition for code validation, cascading style sheets for formatting and visual layout;

• For XML: a set of rules for mapping the template styles to the elements of the Document Type Definition; a Document Type Definition or a schema for validation; stylesheets for transformation into HTML, PDF or other formats.



Storage: file formats

The **types of file formats** you are going to store and maintain for your documents should be selected on the basis of the ultimate goals of your workflow.

If your goal is	Your decision should be:	
Preserve content and look and feel of documents	To select a software-independent format for your documents whenever possible this will ensure that the content will be rendered in its integrity over time and regardless of the software utilized for its creation.	
Reuse the documents and/or their components	Based on the size and nature of the blocks and on the format that allows you more flexibility in transformation.	
Providing access to documents	Based on how your end users prefer to access your content. Relying on available software like web browsers and free plugins is likely to be more important than any consideration about proprietary formats.	
	Because document addresses can change, providing access should take into account the issue of persistence . You might want to name your documents according to a scheme whereby they will remain available and accessible over time regardless of their location on the network.	

Storage: file for	mats
V	For example, imagine that a book produced for print is to be reproduced on a CD-ROM and its components included in an online training course, slideshows and articles. What is your main goal in identifying the most appropriate file formats?
	 Preservation Reuse Providing access
	Click on your answer

Storage: file naming conventions



How will you **keep track** of versions and translations during the creation and conversion stages?

In a document workflow, storage also requires keeping your documents in order and properly named.

Even in a simple workflow, naming your files in a consistent way is a wise decision and will help you to:

• prevent the loss of documents and their components;

• **avoid renaming** for the sake of name compatibility with human comprehension, local drives and Internet servers, search, display, planning for database import of documents.

Storage: file na	ming conventions	
It is helpful to	define a set of file r	naming conventions and stick to them.
	onventions usually co Here are some recon	ver both the directory structure and the actual names files nmendations:
meeting_report_en_20030109		 Give folders names that help identify the files they contain.
		Give files meaningful, memorable names.
		 Dates included in filenames should be written in reverse order and justified with a 0.
		 Use hyphens or underscore to separate words.
	January 9, 2003 YYYY = year	 Do not use spaces: although supported by current Windows OSs, spaces are not tolerated in URLs.
	MM = month	• Indicate the language of the document content by using
DD = day		the 2-letter language code (e.g. en for English, fr for Frence es for Spanish, ar for Arabic, zh for Chinese).

file naming conventions	
More information	tion about filenaming conventions
loreover:	
	as suffixes to mark successive versions : e.g. 09 a for the first version of the meeting report
	ld be kept short as long as it allows for meaningfu is a limitation only if you are running on DOS or
For UNIX/Microsoft con	npatibility: write filenames in lower case.
Do not use punctuatio	n signs, such as: ,.;:#§*+!" £\$%&/()=?'^

Storage: file naming conventions	
For example, read this file name:	
How to set up_standard, guideli	ines-3/2/2003.doc
How could you rewrite it in an easily	y understood and compatible way?
	rd_guidelines_20030203.doc I guidelines_20030203.doc 03.doc
C	Click on your answer

Using a content management system



For large and complex workflow requirements, authoring, conversion and storage can also be approached with the adoption of a **content management system** where a core **database** and its related applications can help you to:

• apply the rules about formats, naming, versioning;

• provide access to different types of users based on their roles in the workflow;

- manage reuse of content;
- backup, archive and restore content.

	uments on the Web, you are basically referencing them with a URL or), e.g.: http//thelibrary.org/book.htm.
The URL indicates where the are moved from one server	e document is located. However, what will happen if the documents to another?
	document a stable or persistent identifier , that identifies it as nany copies are present on the Web or of the location where it is
Click	on each button to find information on using identifier
Identifiers for internal publishing	An identifier is useful to track a document along the processing stage. For example, in FAO each publication is given a code called Job Number that uniquely identifies a document within FAO.
	A publication can be identified as follows:

Locators and identifiers	
Identifiers for Internet publishing	If documents are made accessible online, it is important that: • links to the documents are consistent and reliable; • names are permanent; • documents can be archived, e.g. their location changed or be preserved, while remaining available and accessible; • multiple identical copies are identified as the same document.

Locators and identifiers]
	 In practice, adopting an identifier system implies three factors: 1) An identifier system, e.g. choose what to call the documents; 2) A system of resolution to map the identifier to the document identified: when the identifier is used as a link, the resolution system will get users to the document. 3) Maintenance of access through continued association of the location with the identifier to make sure that the links continue to work over time.

Locators and ide	ntifiers
	How the identifier system works
Once adopted,	the identifier system works like this:
An article has b	peen assigned a Digital Object Identifier (DOI)
Identifier:	doi: 10.1045/july95-arms
The access ma used to cite the	intenance body provides the resolution service, in practice the URL that should be e article.
Resolver:	http://dx.doi.org/10.1045/july95-arms
Clicking on the	above URL takes you to the location where the article is published.
Locator: http:	//www.dlib.org/dlib/July95/07arms.html







Maintaining the workflow

Once you have the standards, tools and roles in place, how do you keep it all together?

Level of complexity	How to mantain the workflow
The workflow is simple : - 1-2 authors - 1 editor/approver - 1 producer/WEBMASTER	Provide written guidelines and policies on templates, formats, conversion options and file naming conventions. Make sure they are always up-to-date and circulate changes.
The workflow is more complex : - Multiple authors inside and outside the organization - Multiple levels of approval (e.g. for content, expenses, translation) - Parallel or subsequent processing procedures for different output formats	You should consider adopting a workflow management system to keep track of the status of documents through metadata (e.g. owner, language, review stage, approval stage, etc.) and to assign roles and rights to team members (e.g. author, approver, producer). If you also need to control versions and access to documents, you should consider a document management system with workflow management capabilities.

Document and workflow management systems can be used for providing access to documents to end users and thus cover the whole document workflow. How much of it is supported by the systems depends on the specific requirements and needs of your group and organization.





A sample approach to complex workflows is given by the **FAO Document Repository**, a system for storage and dissemination of FAO documents and publications in electronic formats.





Guidelines a	nd procedures	
-	an download and print the document	ts provided in this lesson.
You may u	se them as tools for your job.	
Cho		
	cklist for structuring workflow	
🔛 How	v to create a style-based Word te	mplate
Tem	plate sample	
🛣 Tab	e of storage formats for docume	nts and images

		processing workflow relie		
	Is and organizational ro	al goals, document and co les.	onversion	
• Structured documents.	templates facilitate co	nversion, storage and ac	cess to	Ĥ
	n, reuse and access s should be stored.	set the priorities for decic	ling on	
comprehensio	n, assist in their location	e used which facilitate h n on local drives and Inte play, as well as facilitate (ernet	
	opies are present on th	documents as unique, re e Web or of the location		
capabilities ca	n track the status of do	with workflow managen cuments along the workfl d search functionalities t	low,	

Exercises

The following six exercises will allow you to test your understanding of the concepts described up to now.

Good luck!



Exercise 1							
These are the five main stages of cro through electronic and print media.	ation and pro	rocess	ing of do	cuments	to be dis	seminat	ed
What is the correct sequence?							
1 STORAGE	a	a					
AUTHORING							
CONVERSION							
PROVIDING ACCESS							
SELECTION AND APPROVAL							
	Standard r	mess	age				

Exercise 2	
When do you h should be deliv	ave to decide the formats (e.g. HTML, XML, PDF) your electronic documents ered into?
	 When you structure the workflow.
	O During the conversion stage.
	\bigcirc During the providing access stage.
	Click on your answer

Exercise 3	
	cumentation centre. You want to make sure that content, look and displayed as originally intended over time and regardless of the creation.
What is your main goal?	
	○ Reuse
	○ Preservation
	O Providing access
	Click on your answer

Exercise 4	
What are the benefits o	of using a document template based on Word styles?
	A document template provides a ready-made outline that helps authors write their content
	Styles simplify conversion to HTML and XML
	Using a template makes documents compatible with older versions of MS Word
	Table of contents can be built and updated quickly
	A template makes documents look nicer
	Click on your answers

Exercise 5
A URL is a name that uniquely identifies a document (or any other type of information resource) and will be forever associated with that document. It will ensure that when a document is moved, or its ownership changes, the links to it will continue to work.
O True
○ False
Click on your answer

xercise	6
	ion bars help people moving around a website and access documents. They can come r forms: look at this page and click on the breadcrumb trail.
1	Home Search My Email Alerts For Institutions For Publishers About Contact Help Bigm nor register for access to all rhighting coston reasons features
	Quick Author: Keyword(s): In My Favorite Journals (what's this?) search
2	Home > Articles by Topic > Agriculture > Crops and their Management
3	Crops and their Management * <u>Grops</u> (181,282) * <u>Pedology</u> (14,882) * Crop Management (67,353)
	Articles in "Crops and their Management" 1 to 25 of 2959 found <u>Mext 25</u>
	Click on your answer

