

## **ECTD v4.0 Implementation Update**

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#### **Learning Objectives**



- Understand fundamental eCTD v4.0 concepts
- Discuss FDA eCTD v4.0 implementation strategy
- Prepare for eCTD v4.0

#### eCTD v4.0 Goals



#### Excerpt from ICH eCTD v4.0 Implementation Guide

- The goal of upgrading to eCTD v4.0 is to facilitate the processing and review of electronic regulatory submissions.....key business drivers:
  - Document Reuse ability to submit a document once to a Regulatory Authority and refer to the document by its unique identifier in future submissions
  - Document and Metadata life cycle − ability to manage versions of documents and/or metadata
  - → Management of Context Groups ability to group documents together based on nature of their use (e.g., components of clinical study reports)



## eCTD v4.0 Concepts

## Harmonized Submission Unit and Document Reuse



- Harmonized submission unit
  - → All content from Module 1 through Module 5 contained in one exchange message.

eCTD v4.0	eCTD v.3.2.2	
Submissionunit.xml (M1-M5 and study information)	Usregional.xml (M1) Index.xml (M2-M5) Stf.xml files (Studies)	

#### Document reuse

- Once a document has been submitted, the document may be reused by referencing its unique identifier (ID) from the same or different submission unit (sequence).
- ⇒ Allows reuse of meta-data (e.g., document title, location)

#### Context of Use (COU)



- Placement of a document within a TOC\* heading/section
- Provides information regarding the usage of a document and its life cycle (e.g., content may be replaced)
- Keyword gives additional information to the CoU
  - ⊕ Keywords replace the eCTD v3.2.2 attributes and valid values
- Example:

COU X

3.2.S.2 Manufacture (name 1, manufacturer 1)

# COU and Keyword Combinations (Context Group)



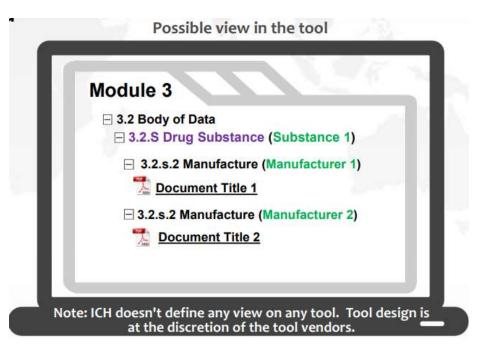
The combination of **CoU** and **keyword(s)** defines the context of the submission contents. If any one of them is different, the context is considered different.

#### **COU X**

3.2.S.2 Manufacture
Substance 1 manufacturer 1

#### **COUY**

3.2.S.2 Manufacture
Substance 1 manufacturer 2



#### **Group Title**



- Uses Group Title Keyword
- Applied to lowest level of Context of Use or Context Group to further organize content under a CTD heading when multiple documents are allowed
- The sender assigns the group title to specify how the content should appear together

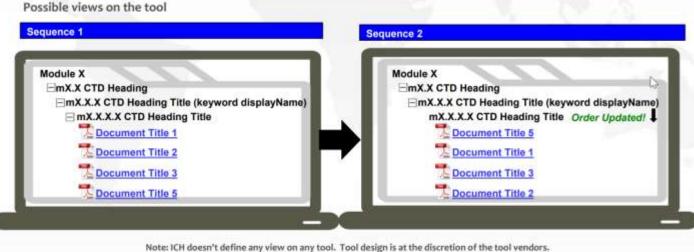
```
Module 3 Quality
m3.2 Body of data
  m3.2.p.7 Container closure system (blister)
     Group Title 1
          Document Title 1
          Document Title 2
           Document Title 3
        Document Title 4
     Group Title 2
          Document Title 5
          Document Title 6
```

#### **Priority Number**



#### Sets the order of documents within a CTD section.

- Explicitly defines display order of documents under a Context of Use (CoU) or Context Group
- Sender may reorder submission content or insert submission content into a specific order within the existing content over time



#### Document Identifier



#### Every document assigned a unique identifier

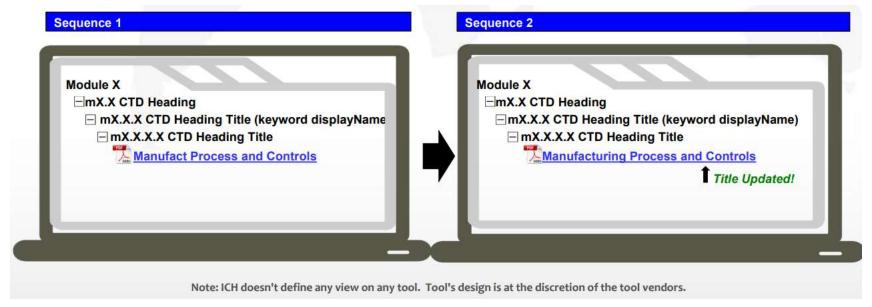
- Unique identifier approach means documents can be referenced/reused more effectively without resubmitting the physical file
  - → Across a Submission Unit (sequence)
  - Across regulatory activities with an application
- Used to reference the document in a context of use or context group
- Reuse document metadata (e.g., document title, location)

#### **Update Document Information**



Update document title

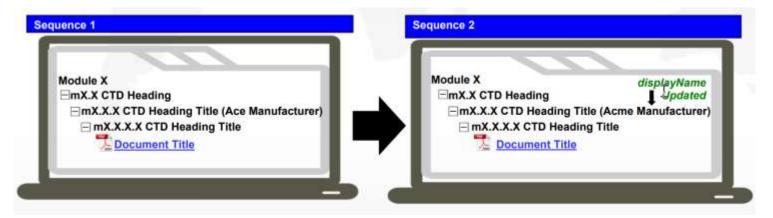
⊖ e.g., fix typo



## **Update Display Name Values**



 Update display name values in eCTD headings without need to life cycle content

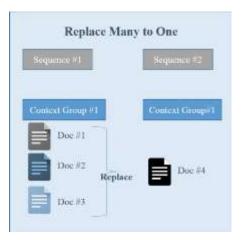


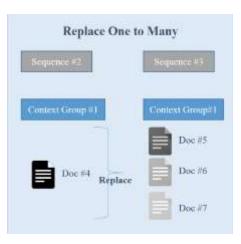
### Document Life cycle



- Document Life cycle
  - ⊕ Replace:
    - One to One

    - ⊕ One to Many





#### Challenge Question #1



An eCTD v4.0 sequence contains a harmonized submission unit message called submissionunit.xml

A. True

B. False

## Challenge Question #2



## eCTD v4.0 document life cycle functionality allows

- A. One to one
- B. One to many
- C. Many to one
- D. All of the above



# FDA eCTD v4.0 Implementation Strategy

#### **ICH Activities**



- ICH eCTD v4.0 Implementation Package
  - → V1.5 May 2022
- Q&A Change Requests
- Regional Implementation Information posted on ICH eCTD v4.0 webpage
  - Regional planned Technical Pilots & Implementation Dates

ch.org/page/ich-electronic-comm	on-technical-document-ectd-v40	
Step 4 Implementation Pack To download the package, clic		
	e comprises multiple documents and files. Note that the n with the Regional/Module I documents provided on each selow).	
Document	File Name	Version Number
ICH eCTD v4.0 Implementation Package History	eCTD v4_0_Implementation_Package_History_v1_5.pdf	V1.5
ICH eCTD v4.0 Implementation Guide	ICH_eCTDv4_0_ImplementationGuide_v1_S.pdf	V1.5
ICH Code List for eCTD v4.0	ICH_eCTDv4_0_CVv5.xlsx	V5.0
M8 Genericode Schema and Files	Genericode	14
Schema Files for eCTD v4.0	ICH_eCTD_v4_SchemaFiles	

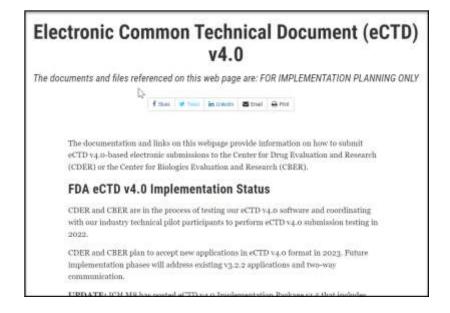
#### FDA Activities



- eCTD v4.0 Technical Conformance Guide and FDA eCTD v4.0 Module 1 Implementation Package
  - Posted February 2020 for public comment
  - Posted updates on September 2022
- Specifications for eCTD v4.0 Validation Criteria (October 2022)
- eCTD v4.0 Comprehensive Table of Contents Headings and Hierarchy (June 2021)
- Software updates and testing

  © Currently testing eCTD v4.0 vendor software

  - eCTD v4.0 Technical Pilot



### FDA Implementation Strategy



- Initial release/acceptance for new applications in eCTD v4.0
  - → Technical Pilot (completed)
  - → Accept sample submissions for technical feedback
    - ⊙ Open to all (planned for late 2023)
  - → Begin accepting new applications in eCTD v4.0 in 2024
- Future phases

#### eCTD v4.0 Webpages



- ICH eCTD v4.0 Webpage (<a href="https://www.ich.org/page/ich-electronic-common-technical-document-ectd-v40">https://www.ich.org/page/ich-electronic-common-technical-document-ectd-v40</a>)
  - □ ICH eCTD v4.0 Implementation Package
  - Supplemental Documents for eCTD v4.0 Implementation Package
- FDA eCTD v4.0 Webpage (<a href="https://www.fda.gov/drugs/electronic-regulatory-submission-and-review/electronic-common-technical-document-ectd-v40">https://www.fda.gov/drugs/electronic-regulatory-submission-and-review/electronic-common-technical-document-ectd-v40</a>)
  - → FDA eCTD v4.0 M1 Implementation Package
  - ⊕ eCTD v4.0 Technical Conformance Guide, CTOC, Validations
  - Link to ICH eCTD v4.0 webpage



## Prepare for eCTD v4.0

### How to Prepare for eCTD v4.0



- Discuss eCTD v4.0 development plans with your vendor and/or IT organization
  - Understanding the specifications

  - Send questions to ICH or FDA
- Become familiar with eCTD v4.0 concepts and enhancements
  - ICH Supplemental Documents for eCTD v4.0
    - Support Documentation and Orientation Material for eCTD v4.0 Implementation Package
  - → FDA eCTD v4.0 Technical Conformance Guide
- Know where to find the eCTD v4.0 information
- Submit an eCTD v4.0 sample submission for technical feedback
  - Information will be posted on the eCTD Sample Submission Process webpage later this year (https://www.fda.gov/drugs/electronic-regulatory-submission-and-review/submit-ectd-orstandardized-data-sample-fda)

#### Poll Question #1



## My company plans to submit an eCTD v4.0 test submission in:

- A. 2023
- B. 2024
- C. Already submitted
- D. No plans at this time

#### Summary



- eCTD v4.0 builds upon the success of v3.2.2
  - ⊕ Enhanced document replacement

  - Utilization of controlled vocabularies
  - Ability to rename documents and context groups
- eCTD v4.0 is ready to implement
  - ⊖ Regulators are actively working on their regional implementations
- FDA has published regional specifications, completed pilot testing, and working toward acceptance of eCTD v4.0 submissions in 2024
- FDA eCTD website (<u>www.fda.gov/ectd</u>) contains all regional eCTD v4.0 specifications and links to ICH specifications



## Questions?

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