CONFERENCE ON HARMONISATION OF TECHNICAL REQUIREMENTS FOR REGISTRATION OF PHARMACEUTICALS FOR HUMAN USE

ICH M2 EWG

Electronic Common Technical Document Specification

This specification has been developed by the ICH M2 Expert Working Group in accordance with the ICH Process as pertains to the M2 EWG.

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ICH eCTD Specification

Introduction

The ICH M4 Expert Working Group (EWG) has defined the Common Technical Document (CTD). The ICH M2 EWG has defined, in the current document, the specification for the Electronic Common Technical Document (eCTD). The eCTD is defined as an interface for industry to agency transfer of regulatory information while at the same time taking into consideration the facilitation of the creation, review, lifecycle management and archival of the electronic submission. The eCTD specification lists the criteria that will make an electronic submission technically valid. The focus of the specification is to provide the ability to transfer the registration application electronically from industry to a regulatory authority. Industry to industry and agency to agency transfer is not addressed.

The specification is divided into a series of main sections followed by a number of appendices in which detailed technical specifications are given

Background

The specification for the eCTD is based upon content defined within the CTD issued by the ICH M4 EWG. The CTD describes the organization of modules, sections and documents. The structure and level of detail specified in the CTD have been used as the basis for defining the eCTD structure and content but where appropriate, additional details have been developed within the eCTD specification.

The philosophy of the eCTD is to use open standards. Open standards, including proprietary standards, which through their widespread use can be considered *de facto* standards, are deemed to be appropriate in general.

Scope

The CTD as defined by the M4 EWG does not cover the full submission that is to be made in a region. It describes only modules 2 to 5, which are common across all regions. The CTD does not describe the content of module 1, the Regional Administrative Information and Prescribing Information, nor does it describe documents that can be submitted as amendments or variations to the initial application.

The value of producing a specification for the creation of an electronic submission based only upon the modules described in the CTD would be limited. Therefore, the M2 EWG has produced a specification for the eCTD that is applicable to all modules of initial registration applications and for other submissions of information throughout the lifecycle of the product, such as variations and amendments.

This document describes the parts of the registration application that are common to all regions and some of the lifecycle requirements for products. The parts of the registration application that are specific to a region will be covered by regional guidance. However, this backbone has been developed to handle both the regional and common parts of submissions.

Requirements

The specification is designed to support high-level functional requirements such as the following:

- Copy and paste
- Viewing and printing of documents
- Annotation of documentation
- Facilitate the exporting of information to databases
- Searching within and across applications
- Navigation throughout the eCTD and its subsequent amendments/variations

Change Control

The specification for the eCTD is likely to change with time. Factors that could affect the content of the specification include, but are not limited to:

- Change in the content of the CTD, either through the amendment of information, at the same level of detail, or by provision of more detailed definition of content and structure
- Change to the regional requirements for applications that are outside the scope of the CTD
- Updating standards that are already in use within the eCTD
- Identification of new standards that provide additional value for the creation and/or usage of the eCTD
- Identification of new functional requirements
- Experience of use of the eCTD by all parties

Details of the change control management are described in an external ICH document.

Appendix 1: Overall Architecture

Guiding Design Principles

This appendix defines the basic principles that drove the design and architecture of the eCTD. Detailed specifications are defined in appendices 2 and 6.

Business Model

The business process to be supported can be described as follow:

Industry <----> Message <----> Agency

The business process defines specific requirements for the message.

The primary focus of the eCTD is to provide a data interchange message between industry and agencies. Industry initiates the process by creating the initial submission in terms of an electronic CTD. Throughout the lifecycle of this process, additional information will be submitted to update or modify the information contained in the initial submission (e.g., supplement, amendment, variation.) The agency can submit acknowledgements, queries and requests to industry. These are considered simple messages using electronic mail or other transport formats. The overall architecture of the eCTD is designed to provide a commonly agreed upon submission and submission structure that imposes minimal restriction to the industry and agencies.

Modular Structure of the eCTD

The structure of the electronic submission in terms of organization and navigation should be consistent with the modular structure of the Common Technical Document. The goal of this design principle is to standardize the electronic format of the common parts of the eCTD.

XML Based eCTD

The XML eCTD DTD (Document Type Definition) defines the overall structure of the submission. The purpose of the XML backbone is two-fold: (1) to manage meta-data for the entire submission and each document within the submission and (2) to constitute a comprehensive table of contents and provide corresponding navigation aids. Meta-data on submission level include information about submitting and receiving organization, manufacturer, publisher, ID and kind of the submission, and related data items. Examples for meta-data on document level are versioning information, language, descriptive information such as document names and checksums. Details are defined in appendix 6.

The XML instance of any submission should be created and validated according to the XML eCTD DTD as defined in appendix 8.

The XML eCTD DTD describes the hierarchical structure according to the CTD as defined by the ICH M4 Expert Working Group. It includes multiple hierarchical levels depending on the specific module as defined in the CTD. The actual submission can include more hierarchical levels below those defined in the CTD. The XML eCTD instance covers the entire submission including all hierarchical levels and includes references to each individual file.

The submission should include a stylesheet that supports presentation of the XML instance, navigation according to the table of contents, and provides access to all documents within the submission. A standard stylesheet for viewing the eCTD submission is defined and provided by the ICH M2 EWG. Presentation and navigation via other stylesheets on the receiving side should be possible.

The XML eCTD DTD includes a reference for each document to the physical file within the folder structure. The XML eCTD DTD includes attributes for descriptive names of folders and documents.

Multiple Region Support

The scope of each submission is global according to the Common Technical Document, meaning that modules 2 through 5 of a submission are intended for all regions with the exception of selected documents (e.g., in the quality module), which have a regional scope. Module 1 of a submission is regional in nature.

The DTD as defined by the ICH M2 expert working group specifies the structure of the common parts of the eCTD primarily focusing on module 2 through 5. It allows linking to regional DTDs for module 1, which will be defined by the authorities in each region.

Lifecycle Management

The applicant creates a submission that is stored in a local repository. The applicant submits the initial submission to the agency, which imports the submission into another local repository. The nature and kind of the local repositories is not within the scope of the eCTD. The initial submission should be self-contained meaning that it includes all documents and no references to other submissions. Regional guidance should be consulted if references to other submissions are needed.

Following the initial submission, the applicant can submit incremental updates such as amendments and variations. Updates can refer to documents in the previous submissions. Updates should be designed in a way that they can be loaded into the repository by fully preserving the initial or previous submission via version control. The XML backbone should include meta-data identifying the update and providing navigation aids to filter for different submission types.

It is preferred that when a Common Technical Document is submitted electronically, the entire submission should be in electronic form with the exception of certain regional forms that currently require written signatures. See appendix 5 for regional requirements. See appendix 6 for a description of how to submit a CTD containing both paper and electronic components.

Appendix 2: The eCTD Submission

Introduction

This appendix specifies the Information Technology aspect of the eCTD submission. Informally, the eCTD submission is a directory structure with files including the XML eCTD instance, reports, data and other submission information. The eCTD submission supports multilingual and multi-region aspects.

The eCTD Submission

An eCTD submission is a collection of data objects that follows the eCTD specification. The main function of the eCTD submission is data exchange. Information systems would have to be created to process the eCTD submission. The biggest benefits are expected when the eCTD submission is loaded into an information system that supports the review process. However, one can view an eCTD submission with a Web browser as it is Web ready. In the Web environment, the eCTD submission should be usable without processing in at least in the following ways:

- Standalone: Viewable with a Web browser.
- Network: Loadable into a Web server.

The eCTD submission is composed of the following:

- Directory structure
- XML eCTD instance
- Content files

Directory Structure

The directory structure is a structure of directories and files. There should be a reasonable maximum number of entries (directories and files) per directory. The directory structure should follow the rules below. The files could be in several formats as specified of below.

The name of the files and directories are identifiers. They should be short. The file names are not intended to convey meta-data, though some meaning in the names helps (i.e., no random names.)

Names for directories and files are recommended in Appendix 4. Any directory names and file names that are added to the eCTD submission by the applicant should be descriptive and logical.

XML eCTD Instance

The instance is in the submission sequence number directory (see appendix 6). The submission sequence number directory should contain at least two files and one or more directories. One of the files in the submission sequence directory is the instance and the other is the MD5 checksum of the instance. The instance is the starting file for the processing by an XML processor.

The intention is to have links from the instance to leaf files in the eCTD submission as opposed to creating a single XML document that contains the entire eCTD submission. The instance should contain mostly linking facilities to the leaf files. The instance also contains meta-data at the leaf level.

eCTD Template

The ICH Web site includes an eCTD template that is an empty directory. It is an illustration of an eCTD submission and it is ready to be populated with the applicant data. Appendix 4 defines the directories used to create this template.

Logical Documents and Files

A logical document comprises one or more CTD table of contents sections that together contain the minimum amount of information to be exchanged. In general, the XML eCTD DTD should map explicitly to the CTD table of contents, but there are exceptions where the XML eCTD DTD may map to the level of use designated by the appropriate ICH CTD Implementation Working Group (IWG) instead. Ideally, a logical document consists of a single physical file. In the event the physical file exceeds the recommended maximum file size due to graphics, data content, scanned images, or other large format content, additional files can make up the logical document. Furthermore, if the logical document consists of multiple file formats, then more than one physical file would be needed. An example of such a case would be PDF and XML data that together represent the logical document.

Formats

Formats should be readable at least for as long as it is needed for the regulatory process. This process could be very long; (e.g., 50 years.) This points to neutral formats: formal standard, industrial standard, vendor independent, and text-like. The format should be adapted to the type of data. Appendix 7 describes the way in which these files should be constructed.

The list of agreed to formats will be updated as technology evolves and new requirements arise. XML will be the preferred format for all types of data.

Common Formats

The common formats that can be included in an eCTD submission are:

- Narrative: Portable Document Format (PDF)
- Structured: Extensible Markup Language (XML)
- Graphic: Whenever possible, use PDF. When appropriate or when PDF is not possible, use Joint Photographic Experts Group (JPEG), Portable Network Graphics (PNG), Scalable Vector Graphics (SVG), and Graphics Interchange Format (GIF). Special formats for very high resolutions may be appropriate on a case-by-case basis.

Regional Use of Other Formats

Regulatory authorities and applicants could agree to use other formats regionally (i.e., non-common formats or uses of the common formats in a different way from above.) The use of other formats is discouraged and the intention is to use as much as possible the common formats. The intention of the use of other formats is for transition.

There are two classes of transitions:

- Legacy Transition: from the past to the present (i.e., old formats to present formats.)
- Future Transition: from the present to the future (i.e., from present formats to new formats.) The new formats would normally be candidates for common formats.

Links

Links among objects in the eCTD submission should be relative. The intention is to make the eCTD submission self-contained. All literature references introduced by the applicant should be included in the submission.

One can always point to a file. The capacity to point to a specific location within a file depends on the linking technology. Different formats allow for the use of different linking technology. See Appendix 7.

Presentation

Presentation is closely associated with formats. To associate a stylesheet with a file usually one has to use a linking technology. The linking between stylesheet (that could be in a separate file) and a data file should

be relative. In addition, there is the dimension of media. One file could have several stylesheets; the one used depends on the media. For example, there could be one presentation for the screen and another for paper.

Checksums

The eCTD submission should contain checksums for each individual file including a checksum file for the eCTD XML instance. Initially, the MD5 Message-Digest Algorithm (MD5) should be used for this purpose. Including a checksum for each individual file provides a number of benefits including:

- The integrity of each file can be verified by comparing the checksum submitted with the file and the computed checksum.
- The checksum can be used to verify that the file has not been altered in the historical archive of the regulatory authority. This is especially useful as the files are migrated from one storage medium to another, as in the case of backup to magnetic tape storage.

Element to File Directory Mapping

Follow these rules:

- The rules below for the file and directories take precedence.
- Add the corresponding extension to the file.
- If needed, use a reasonable abbreviation.

File Extension

All files should have one and only one file extension. The file extension should be used to indicate the format of the file. For example:

hello.pdf	PDF
hello.rtf	RTF

The mapping between formats and extensions are:

IANA nomenclature text/css text/html text/xml application/pdf application/rtf application/vnd.ms-excel image/jpeg image/png	css html or htm xml pdf rtf xls jpg png
image/gif	gif
Non IANA nomenclature DTD XPT (SAS)	dtd xpt
XSL	xsl

The eCTD submission could use formats not registered with the Internet Assigned Numbers Authority (IANA).

The presence of a format in this list does not imply that it would be considered an acceptable format. For formats absent from this list, widely used mapping between the formats and the extensions should be used.

Future direction: if a mechanism (e.g., standard) becomes available that associates the formats with file extension, it should be considered for this specification.

Name

Name is a token composed of the following characters:

- Letters "a" to "z" [U+0061 to U+007A].
- Digits "0" to "9" [U+0030 to U+0039].
- "-" [HYPHEN-MINUS, U+002D].

The notation "U+" refers to the Unicode [UNICODE] notation.

Correct names (only the name without the extension): part-b myfile hello

Incorrect names (only the name without the extension): part a (' '; SPACE is not allowed) myfile.xml ('.'; FULL STOP is not allowed) hello:pdf ('.'; COLON is not allowed) part_a ('_', LOW LINE is not allowed) Parta (UPPERCASE is not allowed)

Directory name is a name.

File name is one name followed by one name separated by a '.' (FULL STOP, U+002E).

Correct file names (with the extension):

myfile.pdf hello.cml

Incorrect file names (with the extension):: a part.pdf (''; SPACE is not allowed) hello (missing extension) hello:xml (':'; COLON is not allowed)

The maximum length of the name of a single folder or file is 64 characters including the extension. Only lower case letters should be used in all file and directory names. The maximum length of a path is 256 characters, including file name, and extension. If the path exceeds the 256 character limit, then folder and file names created by the applicant, and not those listed in Appendix 4 should be abbreviated first. Applicants should also consult regional media formats for possible folder limits imposed by the media.

Document name is the first name in the file name. For example, "docname" in the file name "docname.ext".

Character encoding

The character encoding (charset) in order of preference is:

- Unicode UTF-8, Unicode 16 bits [ISO-10646].
- ISO-8859-1 (Latin-1) or appropriate ISO-8859-x; e.g., ISO-8859-7 for Greek.
- The appropriate SHIFT JIS.
- Other character encoding agreed upon regionally by the regulatory authority and applicant.

References

[CML] Chemical Markup Language

http://www.xml-cml.org

[CSS2] Cascading Style Sheets, level 2 http://www.w3.org/TR/REC-CSS2

[ECMAScript] *ECMAScript Language Specification*, 3rd edition. ECMA- 262 http://www.ecma.ch/ecma1/STAND/ECMA-262.HTM

[EXCEL] Microsoft Excel http://www.microsoft.com/office/excel/default.htm

[GIF] *Graphics Interchange Format* http://tronche.com/computer-graphics/gif/gif89a.html

[HTML] *HTML 4.01 Specification* http://www.w3.org/TR/html4

[IANA] Internet Assigned Numbers Authority http://www.iana.org

[IMT] Internet Media Types http://www.isi.edu/in-notes/iana/assignments/media-types/media-types

[ISO-10646] Information Technology -- Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane, ISO/IEC 10646-1:1993

[ISO-639] Codes for the representation of names of languages ISO 639:1988. http://www.iso.ch/cate/d4766.html http://www.oasis-open.org/cover/iso639a.html.

[JPEG] Joint Photographic Experts Group http://www.jpeg.org/public/wg1n1807.txt

[MD5] *The MD5 Message-Digest Algorithm* http://ietf.org/rfc/rfc1321.txt

[PDF] *Portable Document Format* http://partners.adobe.com/asn/developer/technotes.html#pdfspec

[PNG] *PNG (Portable Network Graphics) Specification Version 1.0* http://www.w3.org/TR/REC-png.html

[RTF] *Rich Text Format (RTF) Specification, version 1.6* http://msdn.microsoft.com/library/specs/rtfspec.htm

[SVG] *Scalable Vector Graphics (SVG) 1.0 Specification* (work in progress) http://www.w3.org/TR/1999/WD-SVG-19991203

[UNICODE] Unicode Consortium http://www.unicode.org

[XHTML] XHTML 1.0: The Extensible HyperText Markup Language http://www.w3.org/TR/WD-html-in-xml

[XML] *Extensible Markup Language (XML) 1.0 (Second Edition)* http://www.w3.org/TR/REC-xml.html

[XSL] *Extensible Stylesheet Language (XSL)* W3C Candidate Recommendation 21 November 2000 (work in progress) http://www.w3.org/TR/WD-xsl

[XSLT] XSL Transformations http://www.w3.org/TR/xslt.html

Appendix 3: General Considerations for the CTD Modules

Introduction

Documents that are provided in the different modules should be formatted as defined by the ICH Common Technical Document. There should also be consistency in the way navigational aids are provided. Within each document, bookmarks and hypertext links from the table of contents should be provided to all tables, figures, publications, and appendices.

Hypertext links should be provided throughout the body of these documents to aid efficient navigation to annotations, related sections, publications, appendices, tables, and figures that are not located on the same page. If a list of references is included at the end of a document, there should be hypertext links to the appropriate publication.

Documents should be generated from electronic source documents and not from scanned material, except where access to the source electronic file is unavailable or where a signature is required.

Folder and File Naming Conventions

A folder and file organization is presented in this specification. This could be used in most cases, however applicants may modify this specification where appropriate.¹ For example, include an additional folder for information where an appropriate folder name is unavailable in the eCTD specification. It is recommended that applicants maintain folder names listed in this specification. This should not be interpreted to mean that the actual eCTD XML DTD should be changed or altered in any way.

The maximum length of the name of a single folder or file is 64 characters including the extension. Folder or file names should be written in lower case only. All files should have one and only one file extension. The file extension should be used to indicate the format of the file. More details on the naming conventions are given in Appendix 2, and examples in Appendix 4.

Typically, the file name would be the applicant's internal numbering or naming convention for the studies. The following table gives an example how files could be named.

Description	File Name
Study Report 1	study-report-1.pdf
Study Report 2	study-report-2.pdf
Study Report n	study-report-n.pdf

Table	3-1
-------	-----

Screenshots and Folder Hierarchy

Screenshots are provided in the following chapters for all modules down to the level of hierarchy as described in this appendix. The representation in module 3 is in alphabetical order due to the nature of the computer operating system and is therefore not entirely consistent with the sequence of the CTD. In a Web browser the content will appear in the order of the CTD table of contents.

¹ Regulatory authorities should be notified of additions and changes to the folder structure according to regional guidance.

Detailed options on the folders and files are provided in Appendix 4 in case the applicant chooses to submit more granular documents. It is not mandatory to use the full folder hierarchy. Empty directories can be omitted; however, when the content is expected justification should be provided why it is missing.

Module 1 Administrative Information and Prescribing Information

The name of the folder for module 1 should be m1.

This module contains administrative information that is unique for each region. Regional guidance will provide the specific instructions on how to provide the administrative forms and detailed prescribing information. Please refer to Appendix 5 when preparing module 1.

Module 2 Summaries

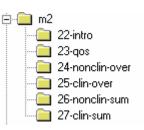
The files in this module should be provided as PDF text with the exception of a few embedded images, when needed. The name of the folder for module 2 should be m2. The folders in module 2 should be named as follows.

Section in CTD	Description	Folder Name
2.2	Introduction	22-intro
2.3	Quality overall summary	23-qos
2.4	Nonclinical Overview	24-nonclin-over
2.5	Clinical Overview	25-clin-over
2.6	Nonclinical Written and Tabulated Summaries	26-nonclin-sum
2.7	Clinical summary	27-clin-sum

Table 3-2

The folder hierarchy for module 2 is presented in the screenshot in figure 3-1.

Figure 3-1 Screenshot of the folder structure of module 2



Module 3 Quality

The name of the folder for module 3 should be m3. The folders in module 3 should be named as follows.

Table 3-3

	Table 5-5		
Section in	Description	Folder Name	
CTD			

Section in CTD	Description	Folder Name
3.2	Body of Data	32-body-data
3.2.8	Drug Substance	32s-drug-sub
3.2.8	Drug Substance [Drug Substance Name] [Manufacturer] ²	substance-1-manufacturer-1
3.2.S.1	General Information (name, manufacturer)	32s1-gen-info
3.2.8.2	Manufacture (name, manufacturer)	32s2-manuf
3.2.8.3	Characterisation (name, manufacturer)	32s3-charac
3.2.S.4	Control of Drug Substance (name, manufacturer)	32s4-contr-drug-sub
3.2.S.4.1	Specification (name, manufacturer)	32s41-spec
3.2.8.4.2	Analytical Procedures (name, manufacturer)	32s42- analyt-proc
3.2.8.4.3	Validation of Analytical Procedures (name, manufacturer)	32s43-val-analyt-proc
3.2.8.4.4	Batch Analyses (name, manufacturer)	32s44-batch-analys
3.2.S.4.5	Justification of Specification (name, manufacturer)	32s45-justif-spec
3.2.8.5	Reference Standards or Materials (name, manufacturer)	32s5-ref-stand
3.2.S.6	Container Closure System (name, manufacturer)	32s6-cont-closure-sys
3.2.S.7	Stability (name, manufacturer)	32s7-stab
3.2.P	Drug Product (name, dosage form) ³	32p-drug-prod
3.2.P	Drug Product (name, dosage form) - Name	product-1
3.2.P.1	Description and Composition of the Drug Product (name, dosage form)	32p1-desc-comp
3.2.P.2	Pharmaceutical Development (name, dosage form)	32p2-pharm-dev
3.2.P.3	Manufacture (name, dosage form)	32p3-manuf
3.2.P.4	Control of Excipients (name, dosage form)	32p4-contr-excip
3.2.P.4	Control of Excipients (name, dosage form) - Excipient 1	excipient-1
3.2.P.5	Control of Drug Product (name, dosage form)	32p5-contr-drug-prod

²Each drug substance-manufacturer should be placed in a separate subordinate folder. Folders and files should be created for each drug substance-manufacturer section included in the submission in accordance with the hierarchy identified in the following chapters. ³Each drug product should be placed in a separate subordinate folder. Folders and files should be created

³ Each drug product should be placed in a separate subordinate folder. Folders and files should be created for each drug product section included in the submission in accordance with the hierarchy identified in the following chapters. Reference should be made to regional guidance to determine whether the inclusion of multiple products within a single application is considered appropriate.

Section in	Description	Folder Name
CTD		
3.2.P.5.1	Specification(s) (name, dosage form)	32p51-spec
3.2.P.5.2	Analytical Procedures (name, dosage form)	32p52-analyt-proc
3.2.P.5.3	Validation of Analytical Procedures (name, dosage form)	32p53-val-analyt-proc
3.2.P.5.4	Batch Analyses (name, dosage form)	32p54-batch-analys
3.2.P.5.5	Characterisation of Impurities (name, dosage form)	32p55-charac-imp
3.2.P.5.6	Justification of Specifications (name, dosage form)	32p56-justif-spec
3.2.P.6	Reference Standards or Materials (name, dosage form)	32p6-ref-stand
3.2.P.7	Container Closure System (name, dosage form)	32p7-cont-closure-sys
3.2.P.8	Stability (name, dosage form)	32p8-stab
3.2.A	Appendices	32a-app
3.2.A.1	Facilities and Equipment (name, manufacturer)	32a1-fac-equip
3.2.A.2	Adventitious Agents Safety Evaluation (name, dosage form, manufacturer)	32a2-advent-agent
3.2.A.3	Excipients- Name ⁴	32a3-excip-name-1
3.2.R	Regional Information ⁵	32r-reg-info
3.3	Literature References	33-lit-ref

⁴ The folder name should include the name of the excipient, abbreviated as necessary to remain within the

⁶⁴ character limit. ⁵ This folder should be included where regional information is appropriate. Reference should be made to regional guidance for the types of information to be included in this section.

The folder hierarchy for module 3 is presented in the screenshot in figure 3-2.

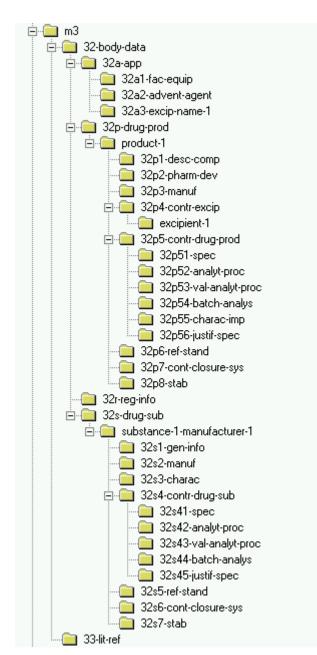


Figure 3-2 Screenshot of the folder structure of module 3

Module 4 Nonclinical Study Reports

The name of the folder for module 4 should be m4. The folders in module 4 should be named as follows.

Section in CTD	Description	Folder Name
4.2	Study Reports	42-stud-rep

Table 3-4

Section in CTD	Description	Folder Name
4.2.1	Pharmacology	421-pharmacol
4.2.1.1	Primary Pharmacodynamics	4211-prim-pd
4.2.1.2	Secondary Pharmacodynamics	4212-sec-pd
4.2.1.3	Safety Pharmacology	4213-safety-pharmacol
4.2.1.4	Pharmacodynamic Drug Interactions	4214-pd-drug-interact
4.2.2	Pharmacokinetics	422-pk
4.2.2.1	Analytical Methods and Validation Reports (if separate reports are available)	4221-analyt-met-val
4.2.2.2	Absorption	4222-absorp
4.2.2.3	Distribution	4223-distrib
4.2.2.4	Metabolism	4224-metab
4.2.2.5	Excretion	4225-excr
4.2.2.6	Pharmacokinetic Drug Interactions (nonclinical)	4226-pk-drug-interact
4.2.2.7	Other Pharmacokinetic Studies	4227-other-pk-stud
4.2.3	Toxicology	423-tox
4.2.3.1	Single-Dose Toxicity (in order by species, by route)	4231-single-dose-tox
4.2.3.2	Repeat-Dose Toxicity (in order by species, by route, by duration, including supportive toxicokinetics evaluations)	4232-repeat-dose-tox
4.2.3.3	Genotoxicity	4233-genotox
4.2.3.3.1	In vitro	42331-in-vitro
4.2.3.3.2	In vivo (including supportive toxicokinetics evaluations)	42332-in-vivo
4.2.3.4	Carcinogenicity (including supportive toxicokinetics evaluations)	4234-carcigen
4.2.3.4.1	Long-term studies (in order by species, including range-finding studies that cannot be appropriately included under repeat-dose toxicity or pharmacokinetics)	42341-lt-stud
4.2.3.4.2	Short-or medium-term studies (including range- finding studies that cannot be appropriately included under repeat-dose toxicity or pharmacokinetics)	42342-smt-stud

Section in CTD	Description	Folder Name
4.2.3.4.3	Other studies	42343-other-stud
4.2.3.5	Reproductive and Developmental Toxicity (including range-finding studies and supportive toxicokinetics evaluations)(If modified study designs are used, the following subheadings should be modified accordingly)	4235-repro-dev-tox
4.2.3.5.1	Fertility and early embryonic development	42351-fert-embryo-dev
4.2.3.5.2	Embryo-fetal development	42352-embryo-fetal-dev
4.2.3.5.3	Prenatal and postnatal development, including maternal function	42353-pre-postnatal-dev
4.2.3.5.4	Studies in which the offspring (juvenile animals) are dosed and/or further evaluated	42354-juv
4.2.3.6	Local Tolerance	4236-loc-tol
4.2.3.7	Other Toxicity Studies (if available)	4237-other-tox-stud
4.2.3.7.1	Antigenicity	42371-antigen
4.2.3.7.2	Immunotoxicity	42372-immunotox
4.2.3.7.3	Mechanistic studies (if not included elsewhere)	42373-mechan-stud
4.2.3.7.4	Dependence	42374-dep
4.2.3.7.5	Metabolites	42375-metab
4.2.3.7.6	Impurities	42376-imp
4.2.3.7.7	Other	42377-other
4.3	Literature References	43-lit-ref

The folder hierarchy for module 4 is presented in the screenshot in figure 3-3.

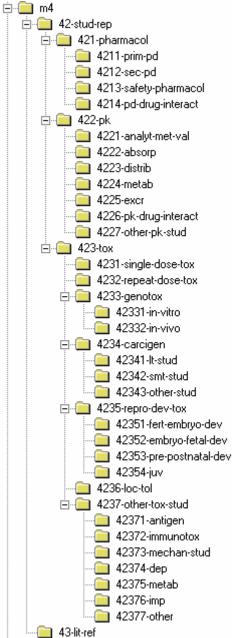


Figure 3-3 Screenshot of the folder structure of module 4

Module 5 Clinical Study Reports

The name of the folder for module 5 should be m5. The folders in module 5 should be named as follows.

Section in CTD	Description	Folder Name	
5.2	Tabular Listing of all Clinical Studies	52-tab-list	

Table 3-5

Section in CTD	Description	Folder Name
5.3	Clinical Study Reports	53-clin-stud-rep
5.3.1	Reports of Biopharmaceutic Studies	531-rep-biopharm-stud
5.3.1.1	Bioavailability (BA) Study Reports	5311-ba-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.1.2	Comparative BA and Bioequivalence (BE) Study Reports	5312-compar-ba-be-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.1.3	In vitro – In vivo Correlation Study Reports	5313-in-vitro-in-vivo-corr-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.1.4	Reports of Bioanalytical and Analytical Methods for Human Studies	5314-bioanalyt-analyt-met
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.2	Reports of Studies Pertinent to Pharmacokinetics using Human Biomaterials	532-rep-stud-pk-human-biomat
5.3.2.1	Plasma Protein Binding Study Reports	5321-plasma-prot-bind-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.2.2	Reports of Hepatic Metabolism and Drug Interaction Studies	5322-rep-hep-metab-interact-stud
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2

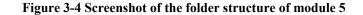
Section in CTD	Description	Folder Name
	"Study Report 3"	study-report-3
5.3.2.3	Reports of Studies Using Other Human Biomaterials	5323-stud-other-human-biomat
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.3	Reports of Human Pharmacokinetic (PK) Studies	533-rep-human-pk-stud
5.3.3.1	Healthy Subject PK and Initial Tolerability Study Reports	5331-healthy-subj-pk-init-tol-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.3.2	Patient PK and Initial Tolerability Study Reports	5332-patient-pk-init-tol-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.3.3	Intrinsic Factor PK Study Reports	5333-intrin-factor-pk-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.3.4	Extrinsic Factor PK Study Reports	5334-extrin-factor-pk-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.3.5	Population PK Study Reports	5335-popul-pk-stud-rep
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3

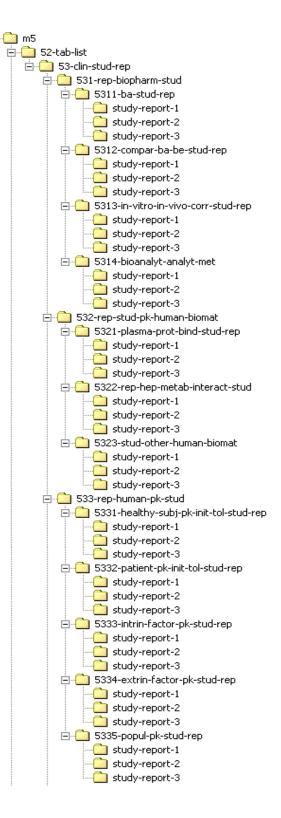
Section in CTD	Description	Folder Name	
5.3.4	Reports of Human Pharmacodynamic (PD) Studies	534-rep-human-pd-stud	
5.3.4.1	Healthy Subject PD and PK/PD Study Reports	5341-healthy-subj-pd-stud-rep	
	"Study Report 1"	study-report-1	
	"Study Report 2"	study-report-2	
	"Study Report 3"	study-report-3	
5.3.4.2	Patient PD and PK/PD Study Reports	5342-patient-pd-stud-rep	
	"Study Report 1"	study-report-1	
	"Study Report 2"	study-report-2	
	"Study Report 3"	study-report-3	
5.3.5	Reports of Efficacy and Safety Studies	535-rep-effic-safety-stud	
5.3.5	Reports of Efficacy and Safety Studies – Indication Name	indication-1	
5.3.5.1	Study Reports of Controlled Clinical Studies Pertinent to the Claimed Indication	5351-stud-rep-contr	
	"Study Report 1"	study-report-1	
	"Study Report 2"	study-report-2	
	"Study Report 3"	study-report-3	
5.3.5.2	Study Reports of Uncontrolled Clinical Studies	5352-stud-rep-uncontr	
	"Study Report 1"	study-report-1	
	"Study Report 2"	study-report-2	
	"Study Report 3"	study-report-3	
5.3.5.3	Reports of Analyses of Data from More than One Study	5353-rep-analys-data-more-one-stud	
	"Study Report 1"	study-report-1	
	"Study Report 2"	study-report-2	
	"Study Report 3"	study-report-3	
5.3.5.4	Other Study Reports	5354-other-stud-rep	
	"Study Report 1"	study-report-1	

Section in CTD	Description	Folder Name
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.3.6	Reports of Postmarketing Experience	536-postmark-exp
5.3.7	Case Report Forms and Individual Patient Listings ⁶	537-crf-ipl
	"Study Report 1"	study-report-1
	"Study Report 2"	study-report-2
	"Study Report 3"	study-report-3
5.4	Literature References	54-lit-ref

 $^{^{6}}$ This folder contains as many folders as studies are included that have included case report forms and/or individual patient listings. The folders should be named like the corresponding study. The content of the folders should follow regional guidance.

The folder hierarchy for module 5 is presented in the screenshot in figure 3-4.





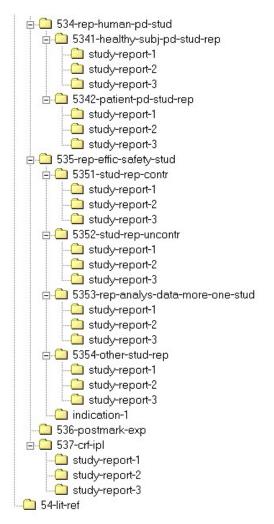


Figure 3-4 Screenshot of the folder structure of module 5 (cont)

Appendix 4: File Organization for the eCTD

Each item in the file organization table that is listed in this appendix includes the information outlined below:

Sequential		Each item in the table has a unique sequentially assigned reference number. These reference numbers can
number		change with each version of this appendix.
	Number	CTD section number
	Title	CTD title
	Element	Element name in the Backbone
	File/Directory	Relative path of the File/Directory. The file extension corresponds to the file type; i.e., the "pdf" extension is only illustrative. Refer to Table 6.1, Appendix 6, for details for the head of the path name
	Comment	Comments

The file organization table covers files that constitute the backbone itself plus necessary additional files to make the submission complete, readable and processable.

Where file names are presented in italics applicants would substitute these with file names in accordance with their own naming conventions.

		I able 4-1
	Number	
	Title	
1	Element	
	File	index.xml
	Comment	This is the Backbone
	Number	
	Title	
	Element	
	File	index-md5.txt
	Comment	The MD5 of the Backbone

	Number	1
3	Title	Administrative Information and Prescribing Information
	Element	m1-administrative-information-and-prescribing-information
	Directory	m1
	Comment	Only one of the regional directories is needed
	Number	
	Title	
4	Element	
4	Directory	m1/eu
	Comment	EU directory : In addition to the appropriate regional documents, the regional xml instance should be located in this folder. Refer to regional guidance for details
	Number	
	Title	
5	Element	
5	Directory	m1/jp
	Comment	Japan directory : In addition to the appropriate regional documents, the regional xml instance should be located in this folder. Refer to regional guidance for details
	Number	
	Title	
6	Element	
0	Directory	m1/us
	Comment	US directory : In addition to the appropriate regional documents, the regional xml instance should be located in this folder. Refer to regional guidance for details
7	Number	
	Title	
	Element	
'	Directory	m1/xx
	Comment	xx directory; where xx is a two character country code from ISO-3166-1. In addition to the appropriate regional documents, the regional xml instance should be located in this folder. Refer to regional guidance for details

· · · · · ·	b	
	Number	2
	Title	Common Technical Document Summaries
8	Element	m2-common-technical-document-summaries
	Directory	m2
	Comment	
	Number	2.2
	Title	Introduction
9	Element	m2-2-introduction
	Directory	m2/22-intro
	Comment	
	Number	2.2
	Title	Introduction
10	Element	m2-2-introduction
	File	m2/22-intro/introduction.pdf
	Comment	
	Number	2.3
	Title	Quality Overall Summary
11	Element	m2-3-quality-overall-summary
	Directory	m2/23-qos
	Comment	
	Number	2.3
	Title	Introduction
12	Element	m2-3-introduction
	File	m2/23-qos/introduction.pdf
	Comment	
13	Number	2.3.S
	Title	Drug Substance - Name - Manufacturer
Element m2-3-s-drug-substance		
	File	m2/23-qos/drug-substance.pdf

	Comment	This logical document may consist of a single file where the further heading levels defined within the CTD guidance are subheadings within the document. Alternatively, separate files may be provided for each of the lower level headings 2.3.S.1 through 2.3.S.7. Where there are more than one drug substance and/or manufacturer, separate files should be provided for each. The file name should always include the name of the drug substance e.g., ranitidine hydrochloride through inclusion of the International Non-proprietary Name to give 'ranitidine-hydrochloride'. Similarly, for manufacturer, the file name should always include the name of the manufacturer e.g., <i>ranitidine-hydrochloride-manufacturer-1.pdf</i> . Where there is more than one manufacturer, the drug substance file should be repeated but with an indication of each manufacturer concerned included in the file name, the first instance e.g., 'drug- <i>substance-1- manufacturer-1.pdf</i> and the second ' <i>drug-substance-1-manufacturer-2.pdf</i> '.
	Number	2.3.P
	Title	Drug Product -Name
	Element	m2-3-p-drug-product
	File	m2/23-qos/drug-product- <i>name</i> .pdf
14	Comment	This logical document may consist of a single file where the further heading levels defined within the CTD guidance are subheadings within the document. Alternatively, separate files may be provided for each of the lower level headings 2.3.P.1 through 2.3.P.8. The file name should always include the name of the drug product through inclusion of the name of the form/strength to give e.g., ' <i>drug-product-tablet-5mg</i> '. Where the application is for a complex presentation with multiple components the file name should identify additional items such as the component. Refer to regional guidance for definition of what constitutes a drug product and the acceptability of more than one drug product in an application. Where more than one drug product is acceptable in an application, a separate file should be provided for each drug product.
	Number	2.3.A
	Title	Appendices
15	Element	m2-3-a-appendices
15	File	m2/23-qos/appendices.pdf
	Comment	This logical document may consist of a single file. Alternatively, separate files may be provided for each of the appendices 2.3.A.1 through 2.3.A.3.
	Number	2.3.R
	Title	Regional Information
16	Element	m2-3-r-regional-information
	File	m2/23-qos/regional-information.pdf
	Comment	This logical document may consist of a single file. Alternatively, separate files may be provided for each of the subsections as defined according to regional guidance.
17 Number 2.4		-,.
1	Title	Nonclinical Overview

	Element	m2-4-nonclinical-overview
	Directory	m2/24-nonclin-over
	Comment	
	Number	2.4
	Title	Nonclinical Overview
18	Element	m2-4-nonclinical-overview
10	File	m2/24-nonclin-over/nonclinical-overview.pdf
	Comment	Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings.
	Number	2.5
	Title	Clinical Overview
19	Element	m2-5-clinical-overview
	Directory	m2/25-clin-over
	Comment	
		2.5
	Title	Clinical Overview
20	Element	m2-5-clinical-overview
20	File	m2/25-clin-over/clinical-overview.pdf
	Comment	Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings.
	Number	2.6
	Title	Nonclinical Written and Tabulated Summaries
21	Element	m2-6-nonclinical-written-and-tabulated-summaries
	Directory	m2/26-nonclin-sum
	Comment	
	Number	2.6.1
		Introduction
		m2-6-1-introduction
	File	m2/26-nonclin-sum/introduction.pdf
	Comment	
23		2.6.2
		Pharmacology Written Summary
		m2-6-2-pharmacology-written-summary
File m2/26-nonclin-sum/pharmacol-written-summary.pdf		m2/26-nonclin-sum/pharmacol-written-summary.pdf

	Comment	Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings.
	Number	2.6.3
	Title	Pharmacology Tabulated Summary
24	Element	m2-6-3-pharmacology-tabulated-summary
	File	m2/26-nonclin-sum/phamacol-tabulated-summary.pdf
	Comment	Should have further navigation via bookmarks
	Number	2.6.4
	Title	Pharmacokinetics Written Summary
25	Element	m2-6-4-pharmacokinetics-written-summary
23	File	m2/26-nonclin-sum/pharmkin-written-summary.pdf
	Comment	Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings.
	Number	2.6.5
	Title	Pharmacokinetics Tabulated Summary
26	Element	m2-6-5-pharmacokinetics-tabulated-summary
	File	m2/26-nonclin-sum/pharmkin-tabulated-summary.pdf
	Comment	Should have further navigation via bookmarks
	Number	2.6.6
	Title	Toxicology Written Summary
27	Element	m2-6-6-toxicology-written-summary
21	File	m2/26-nonclin-sum/toxicology-written-summary.pdf
	Comment	Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided
		within the document to these sub-headings.
	Number	2.6.7
	Title	Toxicology Tabulated Summary
28	Element	m2-6-7-toxicology-tabulated-summary
	File	m2/26-nonclin-sum/toxicology-tabulated-summary.pdf
	Comment	Should have further navigation via bookmarks
	Number	2.7
	Title	Clinical Summary
29	Element	m2-7-clinical-summary
	Directory	m2/27-clin-sum
	Comment	
30	Number	2.7.1

File m2/27-clin-sum/summary-clin-pharm.pdf Comment Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings. Number 2.7.3 Title Summary of Clinical Efficacy – Indication Element m2-7-3-summary-of-clinical-efficacy File m2/27-clin-sum/summary-clin-efficacy-indication pdf 32 The file name should always include the indication being claimed (abbreviated if appropriate) e.g., 'summary-clin-efficacy-asthma'. Where there is more than one indication (e.g., asthma & migraine) then the first indication has a file name 'summary-clin-efficacy-asthma' and the second' summary-clin-efficacy-migraine'. Comment second 'summary-of-clinical-safety Number 2.7.4 Title Summary of Clinical Safety Element m2-7-4-summary-of-clinical-safety.pdf Comment Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings. 33 Element m2-7-4-summary-of-clinical-safety.pdf Gomment Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings. Number 2.7.5		Title	Summary of Biopharmaceutic Studies and Associated Analytical Methods
Comment Typically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings. Number 2.7.2 Title Summary of Clinical Pharmacology Studies Element m2-7-2-summary-of-clinical-pharmacology-studies File m2-7-2-ine-sum/summary-clin-pharmacology-studies Comment Twpically, this logical document should consist of a single file. The CTD defines further heading levels and navigation should be provided within the document to these sub-headings. Number 2.7.3 Title Summary of Clinical Efficacy – Indication Element m2-7-clini-sum/summary-clinical-efficacy- File m2/27-clini-sum/summary-clinication pdf File m2/27-clini-sum/summary-clinication pdf Comment second 'summary-clinication consist of a single file. The CTD defines further heading levels and navigation should be provided within the document should consist of a single file. The CTD defines further heading levels and navigation should be provided Number 2.7.4 Title Summary of Clinical Safety File m2/27-clinisum/summary-clinical-safety File m2/27-clinisum/summary-clinical-safety Tittle Summa		Element	m2-7-1-summary-of-biopharmaceutic-studies-and-associated-analytical-methods
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34 Element m2-7-5-literature-references File m2/27-clin-sum/literature-references.pdf Comment		Number	2.7.5
File m2/27-clin-sum/literature-references.pdf Comment		Title	Literature-References
Comment 35 Number 2.7.6 Title Synopses of Individual Studies Element m2-7-6-synopses-of-individual-studies	34	Element	m2-7-5-literature-references
Comment 35 Number 2.7.6 Title Synopses of Individual Studies Element m2-7-6-synopses-of-individual-studies		File	m2/27-clin-sum/literature-references.pdf
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Element m2-7-6-synopses-of-individual-studies			
			m2/27-clin-sum/synopses-indiv-studies.pdf

Comme	Comment	These synopses should already be located in the Clinical Study Reports in Module 5 and should not, therefore, be repeated in Module 2. It is	\$
	Comment	considered sufficient to provide hyperlinks from the listing of the studies, located here, to the locations of the synopses in Module 5.	

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	Number	3
	Title	Quality
36	Element	m3-quality
	Directory	m3
	Comment	
	Number	3.2
	Title	Body of Data
37	Element	m3-2-body-of-data
	Directory	m3/32-body-data
	Comment	
	Number	3.2.8
		Drug Substance
38	Element	m3-2-s-drug-substance
	Directory	m3/32-body-data/32s-drug-sub
	Comment	
39	Number	3.2.8
	Title	Drug Substance - Drug Substance Name - Manufacturer
	Element	m3-2-s-drug-substance
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1

		The folder name should always include the name of the drug substance e.g., ranitidine through inclusion of the International Non-proprietary Name to give 'ranitidine-hydrochloride'. Similarly, for manufacturer, the folder name should always include the name of the manufacturer e.g., <i>ranitidine-manufacturer-1</i> . Where there is more than one manufacturer, the drug substance folder should be repeated but with an indication of each manufacturer concerned included in the folder name, the first instance e.g., <i>'drug-substance-1- manufacturer-1'</i> and the second <i>'drug-substance-1-manufacturer-2'</i> .
	Comment	Where there is more than one drug substance (e.g., ranitidine hydrochloride and cimetidine) then the first drug substance has a folder 'ranitidine-hydrochloride' and the second 'cimetidine'.
		In this example a set of folders can include: ranitidine-hydrochloride-manufacturer-1 ranitidine-hydrochloride-manufacturer-2 cimetidine-hydrochloride-manufacturer-1 cimetidine-hydrochloride-manufacturer-2
		Typically the applicant would include the specific manufacturer(s) (and/or site) in the folder name.
	Number	3.2.S.1
	Title	General Information (name, manufacturer)
40	Element	m3-2-s-1-general-information
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s1-gen-info
	Comment	
	Number	3.2.8.1.1
	Title	Nomenclature (name, manufacturer)
41	Element	m3-2-s-1-1-nomenclature
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s1-gen-info/nomenclature.pdf
	Comment	
	Number	3.2.8.1.2
12	Title	Structure (name, manufacturer)
42	Element	m3-2-s-1-2-structure
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s1-gen-info/structure.pdf
42	Comment	
43	Number	3.2.8.1.3

	Title	General Properties (name, manufacturer)
	Element	m3-2-s-1-3-general-properties
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s1-gen-info/general-properties.pdf
	Comment	
	Number	3.2.8.2
	Title	Manufacture (name, manufacturer)
44	Element	m3-2-s-2-manufacture
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf
	Comment	
	Number	3.2.8.2.1
	Title	Manufacturer(s) (name, manufacturer)
45	Element	m3-2-s-2-1-manufacturer
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/manufacturer.pdf
	Comment	For this document there should be only information regarding one manufacturer
	Number	3.2.8.2.2
	Title	Description of Manufacturing Process and Process Controls (name, manufacturer)
46	Element	m3-2-s-2-description-of-manufacturing-process-and-process-controls
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/manuf-process-and-controls.pdf
	Comment	
	Number	3.2.8.2.3
	Title	Control of Materials (name, manufacturer)
47	Element	m3-2-s-2-3-control-of-materials
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/control-of-materials.pdf
	Comment	The applicant has the option to submit one or multiple files, one for each material
	Number	3.2.8.2.4
	Title	Controls of Critical Steps and Intermediates (name, manufacturer)
48	Element	m3-2-s-2-4-controls-of-critical-steps-and-intermediates
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/control-critical-steps.pdf
	Comment	The applicant has the option to submit one or multiple files, one for each step
	Number	3.2.8.2.5
	Title	Process Validation and/or Evaluation (name, manufacturer)
49	Element	m3-2-s-2-5-process-validation-and-or-evaluation
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/process-validation.pdf
	Comment	The applicant has the option to submit one or multiple files, one for each validation

	Number	3.2.8.2.6
	Title	Manufacturing Process Development (name, manufacturer)
50	Element	m3-2-s-2-6-manufacturing-process-development
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s2-manuf/manuf-process-development.pdf
	Comment	The applicant has the option to submit one or multiple files, one for each material
	Number	3.2.8.3
	Title	Characterisation (name, manufacturer)
51	Element	m3-2-s-3-characterisation
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s3-charac
	Comment	
	Number	3.2.8.3.1
	Title	Elucidation of Structure and Other Characteristics (name, manufacturer)
52	Element	m3-2-s-3-1-elucidation-of-structure-and-other-characteristics
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s3-charac/elucidation-of-structure.pdf
	Comment	
	Number	3.2.8.3.2
	Title	Impurities (name, manufacturer)
53	Element	m3-2-s-3-2-impurities
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s3-charac/impurities.pdf
	Comment	
	Number	3.2.8.4
	Title	Control of Drug Substance (name, manufacturer)
54	Element	m3-2-s-4-control-of-drug-substance
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub
	Comment	
	Number	3.2.8.4.1
	Title	Specification (name, manufacturer)
55	Element	m3-2-s-4-1-specification
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s41-spec
	Comment	
	Number	3.2.8.4.1
	Title	Specification (name, manufacturer)
56	Element	m3-2-s-4-1-specification
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s41-spec/specification.pdf
	Comment	

Title Analytical Procedures (name, manufacturer) 57 Directory m3/2-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc 57 Directory m3/2-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc 58 Element m3-2-s-4-2-analytical-procedures 58 Element m3-2-s-4-2-analytical-procedures 59 Element m3-2-s-4-2-analytical-procedures 59 Element m3-2-s-4-2-analytical-procedures 51 m3/2-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Mumber 32.5.4.2.2 Title Analytical Procedure-2 51 Element m3-2-s-4-2-analytical-procedures 52 File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Mumber 32.5.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures 51 Element m3-2-s-4-2-analytical-procedures 51 Analytical Procedure		Number	3.2.8.4.2
57 Directory n3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.8.4.2.1 Title Analytical Procedure-1 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Number Number 3.2.8.4.2.2 Title Analytical Procedure-2 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number Number 3.2.8.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment m3/32-body-data/32s-drug-sub/substance-1-manufact		Title	Analytical Procedures (name, manufacturer)
57 Directory n3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.8.4.2.1 Title Analytical Procedure-1 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Number Number 3.2.8.4.2.2 Title Analytical Procedure-2 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number Number 3.2.8.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment m3/32-body-data/32s-drug-sub/substance-1-manufact		Element	m3-2-s-4-2-analytical-procedures
Comment approach will be organized. Number 32.8.4.2.1 Title Analytical Procedure-1 S8 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Number Number 3.2.5.4.2.2 Title Analytical Procedure-2 File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Mumber Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Mumber Number 3.2.S.4.3.3 Title Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number Number 3.2.S.4.3 Title Validation of Analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-dr	57	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc
Number 3.2.8.4.2.1 7 Title Analytical Procedure-1 8 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Mumber 3.2.8.4.2.2 Title Analytical Procedure-2 59 Element m3-2.s-4.2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.8.4.2.3 Number 3.2.8.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment S.S.4.3 Title Vaniber 3.2.8.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Title 7 Validation of Analytical Procedures Title Validation-of-analytical-p		Comment	
58 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Title Analytical Procedure-2 59 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Validation of Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment m3/32		Number	
File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf Comment Number 3.2.8.4.2.2 Title Analytical Procedure-2 59 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.8.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.8.4.3 Title Validation of Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.8.4.3 Title Validation of Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc <td< td=""><td></td><td>Title</td><td>Analytical Procedure-1</td></td<>		Title	Analytical Procedure-1
Comment Comment Number 3.2.S.4.2.2 Title Analytical Procedure-2 59 Element m3/2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3/2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment mayroach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-man	58	Element	m3-2-s-4-2-analytical-procedures
Number 3.2.S.4.2.2 Title Analytical Procedure-2 59 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment 3.2.S.4.2.3 Title Mandytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-avalidation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment Reprised the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures Eleme		File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-1.pdf
Title Analytical Procedure-2 59 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf Comment Title		Comment	
59 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.S.4.2.3 File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc 61 Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment Number 3.2.S.4.3.1 File m3/32-body-data/32s-drug-sub/substance-1 The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 <td></td> <td>Number</td> <td>3.2.8.4.2.2</td>		Number	3.2.8.4.2.2
File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf Comment Number 3.2.S.4.2.3 Title Analytical Procedure-3 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/subst		Title	Analytical Procedure-2
Comment Comment Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2	59	Element	m3-2-s-4-2-analytical-procedures
Number 3.2.S.4.2.3 Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-2.pdf
Title Analytical Procedure-3 60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Comment	
60 Element m3-2-s-4-2-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 E2 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Number	3.2.8.4.2.3
File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf Comment Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 E2 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf Comment Sector Sector 63 Number 3.2.S.4.3.2		Title	Analytical Procedure-3
Comment Image: Construction of the const	60	Element	m3-2-s-4-2-analytical-procedures
Number 3.2.S.4.3 Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s42-analyt-proc/analytical-procedure-3.pdf
Title Validation of Analytical Procedures Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf Comment File 63 Number 3.2.S.4.3.2		Comment	
61 Element m3-2-s-4-3-validation-of-analytical-procedures (name, manufacturer) Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Number	3.2.8.4.3
61 Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Title	5
Directory m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc Comment The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf Comment 3.2.S.4.3.2	61	Element	
Comment approach will be organized. Number 3.2.S.4.3.1 Title Validation of Analytical Procedure-1 62 Element m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2	01	Directory	
Title Validation of Analytical Procedure-1 62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Comment	approach will be organized.
62 Element m3-2-s-4-3-validation-of-analytical-procedures File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf 63 Number 3.2.S.4.3.2		Number	3.2.8.4.3.1
File m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf Comment 63 Number 3.2.S.4.3.2	62	Title	Validation of Analytical Procedure-1
Comment 63 Number 3.2.S.4.3.2		Element	
63 Number 3.2.S.4.3.2		File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-1.pdf
		Comment	
	63	Number	3.2.8.4.3.2
		Title	Validation of Analytical Procedure-2

	Element	m3-2-s-4-3-validation-of-analytical-procedures
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-2.pdf
	Comment	
	Number	3.2.8.4.3.3
	Title	Validation of Analytical Procedure-3
64	Element	m3-2-s-4-3-validation-of-analytical-procedures
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s43-val-analyt-proc/validation-analyt-procedure-3.pdf
	Comment	
	Number	3.2.8.4.4
	Title	Batch Analyses (name, manufacturer)
65	Element	m3-2-s-4-4-batch-analyses
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s44-batch-analys
	Comment	
	Number	3.2.8.4.4
	Title	Batch Analyses (name, manufacturer)
66	Element	m3-2-s-4-4-batch-analyses
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s44-batch-analys/batch-analyses.pdf
	Comment	
	Number	3.2.8.4.5
	Title	Justification of Specification (name, manufacturer)
67	Element	m3-2-s-4-5-justification-of-specification
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s45-justif-spec
	Comment	
	Number	3.2.8.4.5
	Title	Justification of Specification (name, manufacturer)
68	Element	m3-2-s-4-5-justification-of-specification
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s4-contr-drug-sub/32s45-justif-spec/justification-of-specification.pdf
	Comment	
	Number	3.2.8.5
	Title	Reference Standards or Materials (name, manufacturer)
69	Element	m3-2-s-5-reference-standards-or-materials
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s5-ref-stand
	Comment	
70	Number	3.2.8.5

	Title	Reference Standards or Materials (name, manufacturer)
	Element	m3-2-s-5-reference-standards-or-materials
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s5-ref-stand/reference-standards.pdf
	Comment	The applicant can decide whether one file is provided that covers all reference standards or individual files are provided for each reference standard. In deciding whether one or more files are appropriate, it should be considered that once a particular approach has been adopted, this should be maintained throughout the life of the dossier. Where a multiple file approach is taken, the file names should indicate which reference standard is covered in the document.
	Number	3.2.8.6
	Title	Container Closure System (name, manufacturer)
71	Element	m3-2-s-6-container-closure-system
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s6-cont-closure-sys
	Comment	
	Number	3.2.8.6
	Title	Container Closure System (name, manufacturer)
72	Element	m3-2-s-6-container-closure-system
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s6-cont-closure-sys/container-closure-system.pdf
	Comment	
	Number	3.2.8.7
	Title	Stability (name, manufacturer)
73	Element	m3-2-s-7-stability
	Directory	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s7-stab
	Comment	
	Number	3.2.8.7.1
	Title	Stability Summary and Conclusions (name, manufacturer)
74	Element	m3-2-s-7-1-stability-summary-and-conclusions
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s7-stab/stability-summary.pdf
	Comment	
	Number	3.2.8.7.2
	Title	Post-approval Stability Protocol and Stability Commitment (name, manufacturer)
75	Element	m3-2-s-7-2-post-approval-stability-protocol-and-stability-commitment
	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s7-stab/postapproval-stability.pdf
	Comment	
76	Number	3.2.8.7.3
	Title	Stability Data (name, manufacturer)
	Element	m3-2-s-7-3-stability-data

	File	m3/32-body-data/32s-drug-sub/substance-1-manufacturer-1/32s7-stab/stability-data.pdf
	Comment	
	Number	3.2.P
	Title	Drug Product (name, dosage form)
77	Element	m3-2-p-drug-product
	Directory	m3/32-body-data/32p-drug-prod
	Comment	
	Number	3.2.P
	Title	Drug Product (name, dosage form) – Name
	Element	m3-2-p-drug-product
	Directory	m3/32-body-data/32p-drug-prod/product-1
78	Comment	The folder name should always include the name of the drug product through inclusion of the name of the form/strength to give e.g., 'tablet- 5mg'. Where there is more than one drug product (e.g., powder for reconstitution and diluent) then the first drug product has a folder 'powder-for-reconstitution' and the second 'diluent'. Refer to regional guidance for definition of what constitutes a drug product and the acceptability of more than one drug product in an application.
	Number	3.2.P.1
	Title	Description and Composition of the Drug Product (name, dosage form)
79	Element	m3-2-p-1-description-and-composition-of-the-drug-product
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p1-desc-comp
	Comment	
	Number	3.2.P.1
	Title	Description and Composition of the Drug Product (name, dosage form)
80	Element	m3-2-p-1-description-and-composition-of-the-drug-product
	File	m3/32-body-data/32p-drug-prod/product-1/32p1-desc-comp/description-and-composition.pdf
	Comment	
	Number	3.2.P.2
	Title	Pharmaceutical Development (name, dosage form)
81	Element	m3-2-p-2-pharmaceutical-development
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p2-pharm-dev
	Comment	
82	Number	3.2.P.2
	Title	Pharmaceutical Development (name, dosage form)
	Element	m3-2-p-2-pharmaceutical-development

	File	m3/32-body-data/32p-drug-prod/product-1/32p2-pharm-dev/pharmaceutical-development.pdf
		A single pdf file covering all sub-sections can be provided. If applicants wish to subdivide the document into its constituent parts as defined
		in the CTD, they can choose to do so and should utilize the following file names.
		• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/components-drug-product.pdf
		• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/drug-product.pdf
		• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/manuf-process-development.pdf
	Comment	• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/container-closure-system.pdf
		• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/microbiological-attributes.pdf
		• m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p2-pharm-dev/compatibility.pdf
		In deciding whether one or more files are appropriate, it should be considered that once a particular approach has been adopted, this should
		be maintained throughout the life of the dossier.
	Number	3.2.P.3
83	Title	Manufacture (name, dosage form)
83	Element	m3-2-p-3-manufacture
	Directory	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p3-manuf
	Comment	
	Number	3.2.P.3.1
	Title	Manufacturer(s) (name, dosage form)
84	Element	m3-2-p-3-1-manufacturers
	File	m3/32-body-data/32p-drug-prod/product-1/32p3-manuf/manufacturers.pdf
	Comment	
	Number	3.2.P.3.2
	Title	Batch Formula (name, dosage form)
85	Element	m3-2-p-3-2-batch-formula
	File	m3/32-body-data/32p-drug-prod/product-1/32p3-manuf/batch-formula.pdf
	Comment	
	Number	3.2.P.3.3
	Title	Description of Manufacturing Process and Process Controls (name, dosage form)
86	Element	m3-2-p-3-3-description-of-manufacturing-process-and-process-controls
	File	m3/32-body-data/32p-drug-prod/product-1/32p3-manuf/manuf-process-and-controls.pdf
	Comment	
87	Number	3.2.P.3.4

	Title	Controls of Critical Steps and Intermediates (name, dosage form)
	Element	m3-2-p-3-4-controls-of-critical-steps-and-intermediates
	File	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p3-manuf/control-critical-steps.pdf
	Comment	
	Number	3.2.P.3.5
	Title	Process Validation and/or Evaluation (name, dosage form)
88	Element	m3-2-p-3-5-process-validation-and-or-evaluation
	File	m3/32-body-data/32p-drug-prod/product-1/32p3-manuf/process-validation.pdf
	Comment	The applicant has the option to submit one or multiple files, one for each validation or evaluation.
	Number	3.2.P.4
	Title	Control of Excipients (name, dosage form)
89	Element	m3-2-p-4-control-of-excipients
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip
	Comment	
	Number	3.2.P.4
	Title	Control of Excipients (name, dosage form) – Excipient
	Element	m3-2-p-4-control-of-excipients
90	Directory	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/excipient-1
50	Comment	For a drug product containing more than one excipient, the information requested for sections $3.2.P.4.1 - 3.2.P.4.4$ should be provided in its entirety for each excipient. For compendial excipient(s) without additional specification tests, it is appropriate to have all information in one file, making sure to introduce a folder for each of new documents to avoid mixing files and folders at the same level. Non-compendial excipients should follow the structure outlined below.
	Number	3.2.P.4.1
	Title	Specifications (name, dosage form)
91	Element	m3-2-p-4-1-specifications
	File	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p4-contr-excip/ <i>excipient-1</i> /specifications.pdf
	Comment	See comment under 3.2.P.4.
	Number	3.2.P.4.2
	Title	Analytical Procedures (name, dosage form)
92	Element	m3-2-p-4-2-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/excipient-1/analytical-procedures.pdf
	Comment	See comment under 3.2.P.4.
93	Number	3.2.P.4.3
	Title	Validation of Analytical Procedures (name, dosage form)
	Element	m3-2-p-4-3-validation-of-analytical-procedures

	File	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/excipient-1/validation-analyt-procedures.pdf
	Comment	See comment under 3.2.P.4.
	Number	3.2.P.4.4
	Title	Justification of Specifications (name, dosage form)
94	Element	m3-2-p-4-4-justification-of-specifications
	File	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/excipient-1/justification-of-specifications.pdf
	Comment	See comment under 3.2.P.4.
	Number	3.2.P.4.5
	Title	Excipients of Human or Animal Origin (name, dosage form)
95	Element	m3-2-p-4-5-excipients-of-human-or-animal-origin
	File	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/excipients-human-animal.pdf
	Comment	
	Number	3.2.P.4.6
	Title	Novel Excipients (name, dosage form)
96	Element	m3-2-p-4-6-novel-excipients
	File	m3/32-body-data/32p-drug-prod/product-1/32p4-contr-excip/novel-excipients.pdf
	Comment	
	Number	3.2.P.5
	Title	Control of Drug Product (name, dosage form)
97	Element	m3-2-p-5-control-of-drug-product
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod
	Comment	
	Number	3.2.P.5.1
	Title	Specification(s) (name, dosage form)
98	Element	m3-2-p-5-1-specifications
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p51-spec
	Comment	
	Number	3.2.P.5.1
	Title	Specification(s) (name, dosage form)
99	Element	m3-2-p-5-1-specifications
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p51-spec/specifications.pdf
	Comment	
100	Number	3.2.P.5.2
	Title	Analytical Procedures (name, dosage form)

	Element	m3-2-p-5-2-analytical-procedures
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p52-analyt-proc
	Comment	The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized.
	Number	3.2.P.5.2.1
	Title	Analytical Procedure – 1
101	Element	m3-2-p-5-2-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p52-analyt-proc/analytical-procedure-1.pdf
	Comment	
	Number	3.2.P.5.2.2
	Title	Analytical Procedure – 2
102	Element	m3-2-p-5-2-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p52-analyt-proc/analytical-procedure-2.pdf
	Comment	
	Number	3.2.P.5.2.3
	Title	Analytical Procedure – 3
103	Element	m3-2-p-5-2-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p52-analyt-proc/analytical-procedure-3.pdf
	Comment	
	Number	3.2.P.5.3
	Title	Validation of Analytical Procedures (name, dosage form)
104	Element	m3-2-p-5-3-validation-of-analytical-procedures
101	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p53-val-analyt-proc
	Comment	The applicant has the option to submit one or multiple files, one for each procedure. The example below shows how a multiple file approach will be organized.
	Number	3.2.P.5.3.1
	Title	Validation of Analytical Procedures – 1
105	Element	m3-2-p-5-3-validation-of-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p53-val-analyt-proc/validation-analytical-procedures-1.pdf
	Comment	
106	Number	3.2.P.5.3.2
	Title	Validation of Analytical Procedures – 2
	Element	m3-2-p-5-3-validation-of-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p53-val-analyt-proc/validation-analytical-procedures-2.pdf

	Comment	
	Number	3.2.P.5.3.3
	Title	Validation of Analytical Procedures – 3
107	Element	m3-2-p-5-3-validation-of-analytical-procedures
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p53-val-analyt-proc/validation-analytical-procedures-3.pdf
	Comment	
	Number	3.2.P.5.4
	Title	Batch Analyses (name, dosage form)
108	Element	m3-2-p-5-4-batch-analyses
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p54-batch-analys
	Comment	
	Number	3.2.P.5.4
	Title	Batch Analyses (name, dosage form)
109	Element	m3-2-p-5-4-batch-analyses
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p54-batch-analys/batch-analyses.pdf
	Comment	
	Number	3.2.P.5.5
	Title	Characterisation of Impurities (name, dosage form)
110	Element	m3-2-p-5-5-characterisation-of-impurities
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p55-charac-imp
	Comment	
	Number	3.2.P.5.5
	Title	Characterisation of Impurities (name, dosage form)
111	Element	m3-2-p-5-5-characterisation-of-impurities
	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p55-charac-imp/characterisation-impurities.pdf
	Comment	
	Number	3.2.P.5.6
	Title	Justification of Specifications (name, dosage form)
112	Element	m3-2-p-5-6-justification-of-specifications
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p56-justif-spec
	Comment	
113	Number	3.2.P.5.6
	Title	Justification of Specifications (name, dosage form)
	Element	m3-2-p-5-6-justification-of-specifications

	File	m3/32-body-data/32p-drug-prod/product-1/32p5-contr-drug-prod/32p56-justif-spec/justification-of-specifications.pdf
	Comment	
	Number	3.2.P.6
	Title	Reference Standards or Materials (name, dosage form)
114	Element	m3-2-p-6-reference-standards-or-materials
	Directory	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p6-ref-stand
	Comment	
	Number	3.2.P.6
	Title	Reference Standards or Materials (name, dosage form)
	Element	m3-2-p-6-reference-standards-or-materials
115	File	m3/32-body-data/32p-drug-prod/product-1/32p6-ref-stand/reference-standards.pdf
	Comment	The applicant can decide whether one file is provided that covers all reference standards or individual files are provided for each reference standard. In deciding whether one or more files are appropriate, it should be considered that once a particular approach has been adopted, this should be maintained throughout the life of the dossier. When a multiple file approach is taken, the file names should indicate which reference standard is covered in the document.
	Number	3.2.P.7
	Title	Container Closure System (name, dosage form)
116	Element	m3-2-p-7-container-closure-system
	Directory	m3/32-body-data/32p-drug-prod/product-1/32p7-cont-closure-sys
	Comment	
	Number	3.2.P.7
	Title	Container Closure System (name, dosage form)
117	Element	m3-2-p-7-container-closure-system
	File	m3/32-body-data/32p-drug-prod/product-1/32p7-cont-closure-sys/container-closure-system.pdf
	Comment	
	Number	3.2.P.8
	Title	Stability (name, dosage form)
118	Element	m3-2-p-8-stability
	Directory	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p8-stab
	Comment	
1	Number	3.2.P.8.1
1	Title	Stability Summary and Conclusion (name, dosage form)
	Element	m3-2-p-8-1-stability-summary-and-conclusion
	File	m3/32-body-data/32p-drug-prod/product-1/32p8-stab/stability-summary.pdf
	Comment	

	Number	3.2.P.8.2
	Title	Post-approval Stability Protocol and Stability Commitment (name, dosage form)
120	Element	m3-2-p-8-2-post-approval-stability-protocol-and-stability-commitment
	File	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p8-stab/postapproval-stability.pdf
	Comment	
	Number	3.2.P.8.3
	Title	Stability Data (name, dosage form)
121	Element	m3-2-p-8-3-stability-data
	File	m3/32-body-data/32p-drug-prod/ <i>product-1</i> /32p8-stab/stability-data.pdf
	Comment	
	Number	3.2.A
	Title	Appendices
122	Element	m3-2-a-appendices
	Directory	m3/32-body-data/32a-app
	Comment	
	Number	3.2.A.1
	Title	Facilities and Equipment (name, manufacturer)
123	Element	m3-2-a-1-facilities-and-equipment
123	Directory	m3/32-body-data/32a-app/32a1-fac-equip
	Comment	Several reports are likely to be included in this appendix. The organisation is left to the applicant to define. However, where there is more
	Comment	than one manufacturer a folder should be created for each manufacturer and the identify of the manufacturer included in the directory name.
	Number	3.2.A.1.1
	Title	Facilities and Equipment Report 1
124	Element	m3-2-a-1-facilities-and-equipment
	File	m3/32-body-data/32a-app/32a1-fac-equip/facilities-and-equipment-report-1.pdf
	Comment	
	Number	3.2.A.1.2
	Title	Facilities and Equipment Report 2
125	Element	m3-2-a-1-facilities-and-equipment
	File	m3/32-body-data/32a-app/32a1-fac-equip/facilities-and-equipment-report-2.pdf
	Comment	
126	Number	3.2.A.1.3
	Title	Facilities and Equipment Report 3
	Element	m3-2-a-1-facilities-and-equipment
	File	m3/32-body-data/32a-app/32a1-fac-equip/facilities-and-equipment-report-3.pdf

	Comment	
	Number	3.2.A.2
	Title	Adventitious Agents Safety Evaluation (name, dosage form, manufacturer)
	Element	m3-2-a-2-adventitious-agents-safety-evaluation
127	Directory	m3/32-body-data/32a-app/32a2-advent-agent
		Nonviral adventitious agents reports should be placed in this folder. For viral adventitious agents the following sub-folder structure should
	Comment	be used. However, where the is more than one drug substance, drug product, manufacturer etc., a directory should be created each option
		and its identity included in the directory name.
	Number	3.2.A.2.1
	Title	Adventitious Agents Safety Evaluation Report 1
128	Element	m3-2-a-2-adventitious-agents-safety-evaluation
	File	m3/32-body-data/32a-app/32a2-advent-agent/adventitious-agents-report-1.pdf
	Comment	
	Number	3.2.A.2.2
	Title	Adventitious Agents Safety Evaluation Report 2
129	Element	m3-2-a-2-adventitious-agents-safety-evaluation
	File	m3/32-body-data/32a-app/32a2-advent-agent/adventitious-agents-report-2.pdf
	Comment	
	Number	3.2.A.2.3
	Title	Adventitious Agents Safety Evaluation Report 3
130	Element	m3-2-a-2-adventitious-agents-safety-evaluation
	File	m3/32-body-data/32a-app/32a2-advent-agent/adventitious-agents-report-3.pdf
	Comment	
	Number	3.2.A.3
	Title	Excipients – Name
	Element	m3-2-a-3-excipients
	Directory	m3/32-body-data/32a-app/32a3-excip-name-1
131		The name of any novel excipient should be included in the folder name. If there is more than one novel excipient then each folder should
		have unique identification through the use of different names e.g., '32a3-excip-name-1' and '32a3-excip-name-2'.
	Comment	
		The directory/file structure would typically follow that of the drug substance section in Module 3. Refer to Regional guidances for the need
		for such information to be included in the submission directly as opposed to its inclusion in a Drug Master File.
132	Number	3.2.R
1	Title	Regional Information
	Element	m3-2-r-regional-information

	Directory	m3/32-body-data/32r-reg-info
		115/52-00dy-data/521-1eg-1110
	Comment	
	Number	3.3
	Title	Literature References
133	Element	m3-3-literature-references
	Directory	m3/33-lit-ref
	Comment	Copies of literature references should ordinarily be submitted as individual files (i.e., one for each reference).
	Number	3.3.1
	Title	Reference 1
134	Element	m3-3-literature-references
	File	m3/33-lit-ref/ <i>reference-1.pdf</i>
	Comment	
	Number	3.3.2
	Title	Reference 2
135	Element	m3-3-literature-references
	File	m3/33-lit-ref/ <i>reference-2.pdf</i>
	Comment	
	Number	3.3.3
	Title	Reference 3
136	Element	m3-3-literature-references
	File	m3/33-lit-ref/ <i>reference-3.pdf</i>
	Comment	

	Number	4
	Title	Nonclinical Study Reports
	Element	m4-nonclinical-study-reports
		m4
	Comment	
	Number	4.2
	Title	Study Reports
138	Element	m4-2-study-reports
	Directory	m4/42-stud-rep
	Comment	
	Number	4.2.1
	Title	Pharmacology
139	Element	m4-2-1-pharmacology
	Directory	m4/42-stud-rep/421-pharmacol
-	Comment	
		4.2.1.1
		Primary Pharmacodynamics
140		m4-2-1-1-primary-pharmacodynamics
	5	m4/42-stud-rep/421-pharmacol/4211-prim-pd
	Comment	
		4.2.1.1.1
	Title	Study Report 1
		m4-2-1-1-primary-pharmacodynamics
	File	m4/42-stud-rep/421-pharmacol/4211-prim-pd/ <i>study-report-1.pdf</i>
141	Comment	Typically a single file should be provided for each study report in Module 4. However, where the study report is large, e.g., a carcinogenicity study, the applicant can choose to submit the report as more than one files. In this case the text portion of the report should be one file and the appendices may be one or more files. Where the approach of multiple files is used it is recommended that a directory is created at the study report level and the relevant files included within the directory. It is possible to have the additional graphical file(s) inserted directly into the PDF file, thus making management of the file easier. Alternatively, the applicant can choose to manage graphical files independently.
		This comment is applicable to all study reports in Module 4.
142		4.2.1.1.2
	Title	Study Report 2
	Element	m4-2-1-1-primary-pharmacodynamics

	File	m4/42-stud-rep/421-pharmacol/4211-prim-pd/study-report-2.pdf
	Comment	
	Number	4.2.1.1.3
	Title	Study Report 3
	Element	m4-2-1-1-primary-pharmacodynamics
	File	m4/42-stud-rep/421-pharmacol/4211-prim-pd/study-report-3.pdf
	Comment	
	Number	4.2.1.2
	Title	Secondary Pharmacodynamics
	Element	m4-2-1-2-secondary-pharmacodynamics
	Directory	m4/42-stud-rep/421-pharmacol/4212-sec-pd
	Comment	
	Number	4.2.1.2.1
	Title	Study Report 1
145	Element	m4-2-1-2-secondary-pharmacodynamics
	File	m4/42-stud-rep/421-pharmacol/4212-sec-pd/study-report-1.pdf
	Comment	
	Number	4.2.1.2.2
	Title	Study Report 2
146	Element	m4-2-1-2-secondary-pharmacodynamics
	File	m4/42-stud-rep/421-pharmacol/4212-sec-pd/study-report-2.pdf
	Comment	
	Number	4.2.1.2.3
	Title	Study Report 3
147	Element	m4-2-1-2-secondary-pharmacodynamics
	File	m4/42-stud-rep/421-pharmacol/4212-sec-pd/study-report-3.pdf
	Comment	
	Number	4.2.1.3
	Title	Safety Pharmacology
	Element	m4-2-1-3-safety-pharmacology
	Directory	m4/42-stud-rep/421-pharmacol/4213-safety-pharmacol
	Comment	
	Number	4.2.1.3.1
	Title	Study Report 1
	Element	m4-2-1-3-safety-pharmacology

	File	m4/42-stud-rep/421-pharmacol/4213-safety-pharmacol/study-report-1.pdf
	Comment	
	Number	4.2.1.3.2
	Title	Study Report 2
150	Element	m4-2-1-3-safety-pharmacology
	File	m4/42-stud-rep/421-pharmacol/4213-safety-pharmacol/study-report-2.pdf
	Comment	
	Number	4.2.1.3.3
	Title	Study Report 3
151	Element	m4-2-1-3-safety-pharmacology
	File	m4/42-stud-rep/421-pharmacol/4213-safety-pharmacol/study-report-3.pdf
	Comment	
		4.2.1.4
	Title	Pharmacodynamic Drug Interactions
152	Element	m4-2-1-4-pharmacodynamic-drug-interactions
	Directory	m4/42-stud-rep/421-pharmacol/4214-pd-drug-interact
	Comment	
	Number	4.2.1.4.1
	Title	Study Report 1
153	Element	m4-2-1-4-pharmacodynamic-drug-interactions
	File	m4/42-stud-rep/421-pharmacol/4214-pd-drug-interact/study-report-1.pdf
	Comment	
	Number	4.2.1.4.2
	Title	Study Report 2
	Element	m4-2-1-4-pharmacodynamic-drug-interactions
	File	m4/42-stud-rep/421-pharmacol/4214-pd-drug-interact/study-report-2.pdf
	Comment	
		4.2.1.4.3
	Title	Study Report 3
	Element	m4-2-1-4-pharmacodynamic-drug-interactions
	File	m4/42-stud-rep/421-pharmacol/4214-pd-drug-interact/study-report-3.pdf
	Comment	
	Number	4.2.2
	Title	Pharmacokinetics

	Element	m4-2-2-pharmacokinetics
		m4/42-stud-rep/422-pk
	Comment	
		4.2.2.1
	Title	Analytical Methods and Validation Reports (if separate reports are available)
	Element	m4-2-2-1-analytical-methods-and-validation-reports
1		m4/42-stud-rep/422-pk/4221-analyt-met-val
	Comment	
		4.2.2.1.1
	Title	Study Report 1
		m4-2-2-1-analytical-methods-and-validation-reports
1	File	m4/42-stud-rep/422-pk/4221-analyt-met-val/study-report-1.pdf
	Comment	
		4.2.2.1.2
	Title	Study Report 2
159	Element	m4-2-2-1-analytical-methods-and-validation-reports
	File	m4/42-stud-rep/422-pk/4221-analyt-met-val/study-report-2.pdf
	Comment	
	Number	4.2.2.1.3
	Title	Study Report 3
160	Element	m4-2-2-1-analytical-methods-and-validation-reports
	File	m4/42-stud-rep/422-pk/4221-analyt-met-val/study-report-3.pdf
	Comment	
	Number	4.2.2.2
	Title	Absorption
161	Element	m4-2-2-absorption
	Directory	m4/42-stud-rep/422-pk/4222-absorp
	Comment	
	Number	4.2.2.2.1
	Title	Study Report 1
162		m4-2-2-absorption
		m4/42-stud-rep/422-pk/4222-absorp/study-report-1.pdf
	Comment	
		4.2.2.2.2
	Title	Study Report 2

	Element	m4-2-2-2-absorption
	File	m4/42-stud-rep/422-pk/4222-absorp/study-report-2.pdf
	Comment	
	Number	4.2.2.2.3
	Title	Study Report 3
164	Element	m4-2-2-2-absorption
	File	m4/42-stud-rep/422-pk/4222-absorp/study-report-3.pdf
	Comment	
	Number	4.2.2.3
	Title	Distribution
165	Element	m4-2-2-3-distribution
	Directory	m4/42-stud-rep/422-pk/4223-distrib
	Comment	
	Number	4.2.2.3.1
	Title	Study Report 1
166	Element	m4-2-2-3-distribution
	File	m4/42-stud-rep/422-pk/4223-distrib/study-report-1.pdf
	Comment	
		4.2.2.3.2
	Title	Study Report 2
		m4-2-2-3-distribution
	File	m4/42-stud-rep/422-pk/4223-distrib/study-report-2.pdf
	Comment	
		4.2.2.3.3
	Title	Study Report 3
	Element	m4-2-2-3-distribution
	File	m4/42-stud-rep/422-pk/4223-distrib/study-report-3.pdf
	Comment	
	Number	4.2.2.4
	Title	Metabolism
	Element	m4-2-2-4-metabolism
	~	m4/42-stud-rep/422-pk/4224-metab
	Comment	
		4.2.2.4.1
	Title	Study Report 1

	Element	m4-2-2-4-metabolism
	File	m4/42-stud-rep/422-pk/4224-metab/study-report-1.pdf
	Comment	
	Number	4.2.2.4.2
	Title	Study Report 2
171	Element	m4-2-2-4-metabolism
	File	m4/42-stud-rep/422-pk/4224-metab/study-report-2.pdf
	Comment	
		4.2.2.4.3
	Title	Study Report 3
172		m4-2-2-4-metabolism
		m4/42-stud-rep/422-pk/4224-metab/study-report-3.pdf
	Comment	
		4.2.2.5
		Excretion
		m4-2-2-5-excretion
		m4/42-stud-rep/422-pk/4225-excr
	Comment	
		4.2.2.5.1
		Study Report 1
		m4-2-2-5-excretion
		m4/42-stud-rep/422-pk/4225-excr/study-report-1.pdf
	Comment	
		4.2.2.5.2
	Title	Study Report 2
		m4-2-2-5-excretion
	File	m4/42-stud-rep/422-pk/4225-excr/study-report-2.pdf
	Comment	
	Number	4.2.2.5.3
	Title	Study Report 3
176	Element	m4-2-2-5-excretion
	File	m4/42-stud-rep/422-pk/4225-excr/study-report-3.pdf
	Comment	
177	Number	4.2.2.6

	Title	Pharmacokinetic Drug Interactions (nonclinical)
	Element	m4-2-2-6-pharmacokinetic-drug-interactions
	Directory	m4/42-stud-rep/422-pk/4226-pk-drug-interact
	Comment	
	Number	4.2.2.6.1
	Title	Study Report 1
178	Element	m4-2-2-6-pharmacokinetic-drug-interactions
	File	m4/42-stud-rep/422-pk/4226-pk-drug-interact/study-report-1.pdf
	Comment	
	Number	4.2.2.6.2
	Title	Study Report 2
179	Element	m4-2-2-6-pharmacokinetic-drug-interactions
	File	m4/42-stud-rep/422-pk/4226-pk-drug-interact/study-report-2.pdf
	Comment	
	Number	4.2.2.6.3
	Title	Study Report 3
180	Element	m4-2-2-6-pharmacokinetic-drug-interactions
	File	m4/42-stud-rep/422-pk/4226-pk-drug-interact/study-report-3.pdf
	Comment	
	Number	4.2.2.7
	Title	Other Pharmacokinetic Studies
181	Element	m4-2-2-7-other-pharmacokinetic-studies
	Directory	m4/42-stud-rep/422-pk/4227-other-pk-stud
	Comment	
	Number	4.2.2.7.1
	Title	Study Report 1
182	Element	m4-2-2-7-other-pharmacokinetic-studies
	File	m4/42-stud-rep/422-pk/4227-other-pk-stud/study-report-1.pdf
_	Comment	
		4.2.2.7.2
	Title	Study Report 2
	Element	m4-2-2-7-other-pharmacokinetic-studies
	File	m4/42-stud-rep/422-pk/4227-other-pk-stud/study-report-2.pdf
	Comment	
184	Number	4.2.2.7.3

	Title	Study Report 3
	Element	m4-2-2-7-other-pharmacokinetic-studies
	File	m4/42-stud-rep/422-pk/4227-other-pk-stud/study-report-3.pdf
	Comment	
	Number	4.2.3
	Title	Toxicology
185	Element	m4-2-3-toxicology
	Directory	m4/42-stud-rep/423-tox
	Comment	
	Number	4.2.3.1
	Title	Single-Dose Toxicity (in order by species, by route)
186	Element	m4-2-3-1-single-dose-toxicity
	Directory	m4/42-stud-rep/423-tox/4231-single-dose-tox
	Comment	
	Number	4.2.3.1.1
	Title	Study Report 1
187	Element	m4-2-3-1-single-dose-toxicity
	File	m4/42-stud-rep/423-tox/4231-single-dose-tox/study-report-1.pdf
	Comment	
	Number	4.2.3.1.2
	Title	Study Report 2
		m4-2-3-1-single-dose-toxicity
	File	m4/42-stud-rep/423-tox/4231-single-dose-tox/study-report-2.pdf
	Comment	
	Number	4.2.3.1.3
	Title	Study Report 3
189	Element	m4-2-3-1-single-dose-toxicity
	File	m4/42-stud-rep/423-tox/4231-single-dose-tox/study-report-3.pdf
	Comment	
	Number	4.2.3.2
	Title	Repeat-Dose Toxicity (in order by species, by route, by duration, including supportive toxicokinetics evaluations)
190	Element	m4-2-3-2-repeat-dose-toxicity
	Directory	m4/42-stud-rep/423-tox/4232-repeat-dose-tox
	Comment	

	Number	4.2.3.2.1
	Title	Study Report 1
191	Element	m4-2-3-2-repeat-dose-toxicity
	File	m4/42-stud-rep/423-tox/4232-repeat-dose-tox/study-report-1.pdf
	Comment	
	Number	4.2.3.2.2
	Title	Study Report 2
192	Element	m4-2-3-2-repeat-dose-toxicity
	File	m4/42-stud-rep/423-tox/4232-repeat-dose-tox/study-report-2.pdf
	Comment	
	Number	4.2.3.2.3
	Title	Study Report 3
193	Element	m4-2-3-2-repeat-dose-toxicity
	File	m4/42-stud-rep/423-tox/4232-repeat-dose-tox/study-report-3.pdf
	Comment	
	Number	4.2.3.3
	Title	Genotoxicity
194	Element	m4-2-3-3-genotoxicity
	Directory	m4/42-stud-rep/423-tox/4233-genotox
	Comment	
		4.2.3.3.1
	Title	In vitro
195	Element	m4-2-3-3-1-in-vitro
	Directory	m4/42-stud-rep/423-tox/4233-genotox/42331-in-vitro
	Comment	
	Number	4.2.3.3.1.1
	Title	Study Report 1
196	Element	m4-2-3-3-1-in-vitro
	File	m4/42-stud-rep/423-tox/4233-genotox/42331-in-vitro/study-report-1.pdf
	Comment	
197		4.2.3.3.1.2
		Study Report 2
		m4-2-3-3-1-in-vitro
	File	m4/42-stud-rep/423-tox/4233-genotox/42331-in-vitro/study-report-2.pdf

	Comment	
	Number	4.2.3.3.1.3
	Title	Study Report 3
198	Element	m4-2-3-3-1-in-vitro
	File	m4/42-stud-rep/423-tox/4233-genotox/42331-in-vitro/study-report-3.pdf
	Comment	
	Number	4.2.3.3.2
	Title	In vivo (including supportive toxicokinetics evaluations)
199	Element	m4-2-3-3-2-in-vivo
	Directory	m4/42-stud-rep/423-tox/4233-genotox/42332-in-vivo
	Comment	
	Number	4.2.3.3.2.1
	Title	Study Report 1
200	Element	m4-2-3-3-2-in-vivo
	File	m4/42-stud-rep/423-tox/4233-genotox/42332-in-vivo/study-report-1.pdf
	Comment	
	Number	4.2.3.3.2.2
	Title	Study Report 2
201	Element	m4-2-3-3-2-in-vivo
	File	m4/42-stud-rep/423-tox/4233-genotox/42332-in-vivo/study-report-2.pdf
	Comment	
		4.2.3.3.2.3
	Title	Study Report 3
202	Element	m4-2-3-3-2-in-vivo
	File	m4/42-stud-rep/423-tox/4233-genotox/42332-in-vivo/study-report-3.pdf
	Comment	
	Number	4.2.3.4
	Title	Carcinogenicity (including supportive toxicokinetics evaluations)
203	Element	m4-2-3-4-carcinogenicity
	Directory	m4/42-stud-rep/423-tox/4234-carcigen
	Comment	
204	Number	4.2.3.4.1
	Title	Long-term studies (in order by species, including range-finding studies that cannot be appropriately included under repeat-dose toxicity or pharmacokinetics)

	Element	m4-2-3-4-1-long-term-studies
		m4/2-stud-rep/423-tox/4234-carcigen/42341-lt-stud
	Comment	
		4.2.3.4.1.1
	Title	Study Report 1
		m4-2-3-4-1-long-term-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42341-lt-stud/study-report-1.pdf
1	Comment	1114/+2-5000-10p/+25+000/+25+-00101g011/+25+1-10-5000/5000y-report-1.puj
		4.2.3.4.1.2
	Title	Study Report 2
		m4-2-3-4-1-long-term-studies
	File	m4/2-stud-rep/423-tox/4234-carcigen/42341-lt-stud/study-report-2.pdf
	Comment	1114/42-stud-1ep/425-t0x/4254-catelgen/42541-it-stud/study-report-2.puj
	Number	4.2.3.4.1.3
	Title	4.2.3.4.1.5 Study Report 3
	Element	m4-2-3-4-1-long-term-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42341-lt-stud/study-report-3.pdf
		m4/42-stud-rep/425-tox/4254-carcigen/42541-it-stud/study-report-5.paj
	Comment Number	4.2.3.4.2
·	Number	4.2.3.4.2 Short- or medium-term studies (including range-finding studies that cannot be appropriately included under repeat-dose toxicity or
	Title	pharmacokinetics)
208	Elamont	m4-2-3-4-2-short-or-medium-term-studies
	Element	m4-2-3-4-2-short-or-medium-term-studies m4/42-stud-rep/423-tox/4234-carcigen/42342-smt-stud
1	2	m4/42-stud-rep/423-tox/4234-carcigen/42342-smt-stud
	Comment Number	4.2.3.4.2.1
	Title	Study Report 1
	Element	m4-2-3-4-2-short-or-medium-term-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42342-smt-stud/study-report-1.pdf
	Comment	
	Number	4.2.3.4.2.2
	Title	Study Report 2
	Element	m4-2-3-4-2-short-or-medium-term-studies
1	File	m4/42-stud-rep/423-tox/4234-carcigen/42342-smt-stud/study-report-2.pdf
	Comment	
211	Number	4.2.3.4.2.3

	Title	Study Report 3
	Element	m4-2-3-4-2-short-or-medium-term-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42342-smt-stud/study-report-3.pdf
	Comment	
	Number	4.2.3.4.3
	Title	Other studies
212	Element	m4-2-3-4-3-other-studies
	Directory	m4/42-stud-rep/423-tox/4234-carcigen/42343-other-stud
	Comment	
	Number	4.2.3.4.3.1
	Title	Study Report 1
213	Element	m4-2-3-4-3-other-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42343-other-stud/study-report-1.pdf
	Comment	
	Number	4.2.3.4.3.2
	Title	Study Report 2
214	Element	m4-2-3-4-3-other-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42343-other-stud/study-report-2.pdf
	Comment	
	Number	4.2.3.4.3.3
	Title	Study Report 3
215	Element	m4-2-3-4-3-other-studies
	File	m4/42-stud-rep/423-tox/4234-carcigen/42343-other-stud/study-report-3.pdf
	Comment	
		4.2.3.5
	Title	Reproductive and Developmental Toxicity (including range-finding studies and supportive toxicokinetics evaluations) (If modified study
216		designs are used, the following subheadings should be modified accordingly)
_	Element	m4-2-3-5-reproductive-and-developmental-toxicity
	Directory	m4/42-stud-rep/423-tox/4235-repro-dev-tox
	Comment	
		4.2.3.5.1
		Fertility and early embryonic development
	Element	m4-2-3-5-1-fertility-and-early-embryonic-development
		m4/42-stud-rep/423-tox/4235-repro-dev-tox/42351-fert-embryo-dev
	Comment	

	Number	4.2.3.5.1.1
	Title	Study Report 1
218	Element	m4-2-3-5-1-fertility-and-early-embryonic-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42351-fert-embryo-dev/study-report-1.pdf
	Comment	
	Number	4.2.3.5.1.2
	Title	Study Report 2
219	Element	m4-2-3-5-1-fertility-and-early-embryonic-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42351-fert-embryo-dev/study-report-2.pdf
	Comment	
		4.2.3.5.1.3
	Title	Study Report 3
	Element	m4-2-3-5-1-fertility-and-early-embryonic-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42351-fert-embryo-dev/study-report-3.pdf
	Comment	
		4.2.3.5.2
	Title	Embryo-fetal development
221	Element	m4-2-3-5-2-embryo-fetal-development
	2	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42352-embryo-fetal-dev
	Comment	
		4.2.3.5.2.1
	Title	Study Report 1
		m4-2-3-5-2-embryo-fetal-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42352-embryo-fetal-dev/study-report-1.pdf
	Comment	
		4.2.3.5.2.2
	Title	Study Report 2
	Element	m4-2-3-5-2-embryo-fetal-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42352-embryo-fetal-dev/study-report-2.pdf
	Comment	
224	Number	4.2.3.5.2.3
	Title	Study Report 3
		m4-2-3-5-2-embryo-fetal-development
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42352-embryo-fetal-dev/study-report-3.pdf

	Comment	
		4.2.3.5.3
	Title	Prenatal and postnatal development, including maternal function
225	Element	m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function
	Directory	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42353-pre-postnatal-dev
	Comment	
	Number	4.2.3.5.3.1
	Title	Study Report 1
226	Element	m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42353-pre-postnatal-dev/study-report-1.pdf
	Comment	
	Number	4.2.3.5.3.2
	Title	Study Report 2
227	Element	m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42353-pre-postnatal-dev/study-report-2.pdf
	Comment	
	Number	4.2.3.5.3.3
	Title	Study Report 3
		m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42353-pre-postnatal-dev/study-report-3.pdf
	Comment	
		4.2.3.5.4
	Title	Studies in which the offspring (juvenile animals) are dosed and/or further evaluated
229	Element	m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated
	5	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42354-juv
	Comment	
		4.2.3.5.4.1
	Title	Study Report 1
	Element	m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42354-juv/study-report-1.pdf
	Comment	
231		4.2.3.5.4.2
	Title	Study Report 2
	Element	m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42354-juv/study-report-2.pdf

	Comment	
	Number	4.2.3.5.4.3
	Title	Study Report 3
232	Element	m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated
	File	m4/42-stud-rep/423-tox/4235-repro-dev-tox/42354-juv/study-report-3.pdf
	Comment	
	Number	4.2.3.6
	Title	Local Tolerance
233	Element	m4-2-3-6-local-tolerance
	Directory	m4/42-stud-rep/423-tox/4236-loc-tol
	Comment	
		4.2.3.6.1
	Title	Study Report 1
234	Element	m4-2-3-6-local-tolerance
	File	m4/42-stud-rep/423-tox/4236-loc-tol/study-report-1.pdf
	Comment	
		4.2.3.6.2
	Title	Study Report 2
	Element	m4-2-3-6-local-tolerance
	File	m4/42-stud-rep/423-tox/4236-loc-tol/study-report-2.pdf
	Comment	
	Number	4.2.3.6.3
	Title	Study Report 3
	Element	m4-2-3-6-local-tolerance
	File	m4/42-stud-rep/423-tox/4236-loc-tol/study-report-3.pdf
	Comment	
	Number	4.2.3.7
	Title	Other Toxicity Studies (if available)
	Element	m4-2-3-7-other-toxicity-studies
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud
	Comment	
	Number	4.2.3.7.1
	Title	Antigenicity
	Element	m4-2-3-7-1-antigenicity
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42371-antigen

	Comment	
	Number	4.2.3.7.1.1
	Title	Study Report 1
239	Element	m4-2-3-7-1-antigenicity
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42371-antigen/study-report-1.pdf
	Comment	
	Number	4.2.3.7.1.2
	Title	Study Report 2
240	Element	m4-2-3-7-1-antigenicity
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42371-antigen/study-report-2.pdf
	Comment	
	Number	4.2.3.7.1.3
	Title	Study Report 3
		m4-2-3-7-1-antigenicity
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42371-antigen/study-report-3.pdf
	Comment	
	Number	4.2.3.7.2
		Immunotoxicity
242	Element	m4-2-3-7-2-immunotoxicity
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42372-immunotox
	Comment	
	Number	4.2.3.7.2.1
	Title	Study Report 1
		m4-2-3-7-2-immunotoxicity
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42372-immunotox/study-report-1.pdf
	Comment	
		4.2.3.7.2.2
	Title	Study Report 2
		m4-2-3-7-2-immunotoxicity
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42372-immunotox/study-report-2.pdf
	Comment	
245	Number	4.2.3.7.2.3
	Title	Study Report 3
	Element	m4-2-3-7-2-immunotoxicity

	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42372-immunotox/study-report-3.pdf
	Comment	In the studiet of the test studiet of studiet 2572 minimulo to issuing report story
		4.2.3.7.3
	Title	Mechanistic studies (if not included elsewhere)
	Element	m4-2-3-7-3-mechanistic-studies
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42373-mechan-stud
	Comment	
		4.2.3.7.3.1
	Title	Study Report 1
247	Element	m4-2-3-7-3-mechanistic-studies
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42373-mechan-stud/study-report-1.pdf
	Comment	
	Number	4.2.3.7.3.2
	Title	Study Report 2
248	Element	m4-2-3-7-3-mechanistic-studies
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42373-mechan-stud/study-report-2.pdf
	Comment	
	Number	4.2.3.7.3.3
	Title	Study Report 3
249	Element	m4-2-3-7-3-mechanistic-studies
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42373-mechan-stud/study-report-3.pdf
	Comment	
	Number	4.2.3.7.4
	Title	Dependence
250	Element	m4-2-3-7-4-dependence
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42374-dep
	Comment	
	Number	4.2.3.7.4.1
	Title	Study Report 1
251	Element	m4-2-3-7-4-dependence
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42374-dep/study-report-1.pdf
	Comment	
		4.2.3.7.4.2
	Title	Study Report 2
	Element	m4-2-3-7-4-dependence

	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42374-dep/study-report-2.pdf
	Comment	in the state rep tes tok test other tok state test t depistually report 2.pag
	•••••••	4.2.3.7.4.3
		Study Report 3
		m4-2-3-7-4-dependence
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42374-dep/study-report-3.pdf
	Comment	
		4.2.3.7.5
	Title	Metabolites
254	Element	m4-2-3-7-5-metabolites
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42375-metab
	Comment	
	Number	4.2.3.7.5.1
	Title	Study Report 1
255		m4-2-3-7-5-metabolites
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42375-metab/study-report-1.pdf
	Comment	
	Number	4.2.3.7.5.2
	Title	Study Report 2
256	Element	m4-2-3-7-5-metabolites
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42375-metab/study-report-2.pdf
	Comment	
	Number	4.2.3.7.5.3
	Title	Study Report 3
257	Element	m4-2-3-7-5-metabolites
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42375-metab/study-report-3.pdf
	Comment	
	Number	4.2.3.7.6
	Title	Impurities
258	Element	m4-2-3-7-6-impurities
		m4/42-stud-rep/423-tox/4237-other-tox-stud/42376-imp
	Comment	
259		4.2.3.7.6.1
	Title	Study Report 1

	Element	m4-2-3-7-6-impurities
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42376-imp/study-report-1.pdf
	Comment	
	Number	4.2.3.7.6.2
	Title	Study Report 2
260	Element	m4-2-3-7-6-impurities
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42376-imp/study-report-2.pdf
	Comment	
		4.2.3.7.6.3
	Title	Study Report 3
261	Element	m4-2-3-7-6-impurities
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42376-imp/study-report-3.pdf
	Comment	
		4.2.3.7.7
		Other
		m4-2-3-7-7-other
	Directory	m4/42-stud-rep/423-tox/4237-other-tox-stud/42377-other
	Comment	
		4.2.3.7.7.1
	Title	Study Report 1
263	Element	m4-2-3-7-7-other
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42377-other/study-report-1.pdf
	Comment	
	Number	4.2.3.7.7.2
	Title	Study Report 2
264	Element	m4-2-3-7-7-other
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42377-other/study-report-2.pdf
	Comment	
	Number	4.2.3.7.7.3
	Title	Study Report 3
		m4-2-3-7-7-other
	File	m4/42-stud-rep/423-tox/4237-other-tox-stud/42377-other/study-report-3.pdf
	Comment	
266	Number	4.3

	Title	Literature References
	-	m4-3-literature-references
		m4/43-lit-ref
	Comment	Copies of literature references should ordinarily be submitted as individual files (i.e., one for each reference).
	Number	4.3.1
	Title	Reference 1
267	Element	m4-3-literature-references
	File	m4/43-lit-ref/ <i>reference-1.pdf</i>
	Comment	
	Number	4.3.2
	Title	Reference 2
268		m4-3-literature-references
	File	m4/43-lit-ref/ <i>reference-2.pdf</i>
	Comment	
	Number	4.3.3
	Title	Reference 3
269	Element	m4-3-literature-references
	File	m4/43-lit-ref/ <i>reference-3.pdf</i>
	Comment	

	Number	5
	Title	Clinical Study Reports
	Element	m5-clinical-study-reports
	5	m5
	Comment	
	Number	
	Title	Tabular Listing of all Clinical Studies
	Element	m5-2-tabular-listing-of-all-clinical-studies
	Directory	m5/52-tab-list
	Comment	
	Number	5.2
	Title	Tabular Listing of all Clinical Studies
272	Element	m5-2-tabular-listing-of-all-clinical-studies
	File	m5/52-tab-list/tabular-listing.pdf
	Comment	
	Number	5.3
	Title	Clinical Study Reports
273	Element	m5-3-clinical-study-reports
	Directory	m5/53-clin-stud-rep
	Comment	
	Number	5.3.1
	Title	Reports of Biopharmaceutic Studies
274	Element	m5-3-1-reports-of-biopharmaceutic-studies
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud
	Comment	
	Number	5.3.1.1
	Title	Bioavailability (BA) Study Reports
275	Element	m5-3-1-1-bioavailability-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5311-ba-stud-rep
	Comment	
	Number	5.3.1.1.1
_,,,	Title	Study Report 1
	Element	m5-3-1-1-bioavailability-study-reports
		m5/53-clin-stud-rep/531-rep-biopharm-stud/5311-ba-stud-rep/study-report-1
I	Diffetory	morss-enn-suu-teprost-tep-otopharm-suu-suu-teprstuu-teprstuu-teprott-1

		The applicants should ordinarily provide the study reports as multiple files (a core study report and appropriate appendices). Appendices should be organized in accordance with the ICH E3 guideline which describes the content and format of the clinical study report. It is possible to have the additional graphic file(s) inserted directly into the PDF file, thus making management of the file easier. Alternatively, the applicant can choose to manage these graphic files independently. This comment is applicable to all study reports in Module 5. A directory should be created for each study and the files associated with the study report should be organized within the directory.
	Number	5.3.1.1.2
	Title	Study Report 2
277	Element	m5-3-1-1-bioavailability-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5311-ba-stud-rep/study-report-2
	Comment	
	Number	5.3.1.1.3
	Title	Study Report 3
278	Element	m5-3-1-1-bioavailability-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5311-ba-stud-rep/study-report-3
	Comment	
	Number	5.3.1.2
	Title	Comparative BA and Bioequivalence (BE) Study Reports
279	Element	m5-3-1-2-comparative-ba-and-bioequivalence-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5312-compar-ba-be-stud-rep
	Comment	
	Number	5.3.1.2.1
	Title	Study Report 1
280	Element	m5-3-1-2-comparative-ba-and-bioequivalence-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5312-compar-ba-be-stud-rep/study-report-1
	Comment	
	Number	5.3.1.2.2
	Title	Study Report 2
281	Element	m5-3-1-2-comparative-ba-and-bioequivalence-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5312-compar-ba-be-stud-rep/study-report-2
	Comment	
282	Number	5.3.1.2.3
	Title	Study Report 3
	Element	m5-3-1-2-comparative-ba-and-bioequivalence-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5312-compar-ba-be-stud-rep/study-report-3

	Comment	
	Number	5.3.1.3
	Title	In vitro – In vivo Correlation Study Reports
283	Element	m5-3-1-3-in-vitro-in-vivo-correlation-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5313-in-vitro-in-vivo-corr-stud-rep
	Comment	
	Number	5.3.1.3.1
	Title	Study Report 1
284	Element	m5-3-1-3-in-vitro-in-vivo-correlation-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5313-in-vitro-in-vivo-corr-stud-rep/study-report-1
	Comment	
	Number	5.3.1.3.2
	Title	Study Report 2
285	Element	m5-3-1-3-in-vitro-in-vivo-correlation-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5313-in-vitro-in-vivo-corr-stud-rep/study-report-2
	Comment	
	Number	5.3.1.3.3
	Title	Study Report 3
286		m5-3-1-3-in-vitro-in-vivo-correlation-study-reports
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5313-in-vitro-in-vivo-corr-stud-rep/study-report-3
	Comment	
		5.3.1.4
		Reports of Bioanalytical and Analytical Methods for Human Studies
287		m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5314-bioanalyt-analyt-met
	Comment	
		5.3.1.4.1
	Title	Study Report 1
288	Element	m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies
	2	m5/53-clin-stud-rep/531-rep-biopharm-stud/5314-bioanalyt-analyt-met/study-report-1
	Comment	
289		5.3.1.4.2
	Title	Study Report 2
		m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5314-bioanalyt-analyt-met/study-report-2

	Comment	
	Number	5.3.1.4.3
	Title	Study Report 3
290	Element	m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies
	Directory	m5/53-clin-stud-rep/531-rep-biopharm-stud/5314-bioanalyt-analyt-met/study-report-3
	Comment	
	Number	5.3.2
	Title	Reports of Studies Pertinent to Pharmacokinetics using Human Biomaterials
291	Element	m5-3-2-reports-of-studies-pertinent-to-pharmacokinetics-using-human-biomaterials
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat
	Comment	
	Number	5.3.2.1
	Title	Plasma Protein Binding Study Reports
292		m5-3-2-1-plasma-protein-binding-study-reports
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5321-plasma-prot-bind-stud-rep
	Comment	
	Number	5.3.2.1.1
	Title	Study Report 1
293		m5-3-2-1-plasma-protein-binding-study-reports
	5	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5321-plasma-prot-bind-stud-rep/study-report-1
	Comment	
		5.3.2.1.2
	Title	Study Report 2
294	Element	m5-3-2-1-plasma-protein-binding-study-reports
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5321-plasma-prot-bind-stud-rep/study-report-2
	Comment	
		5.3.2.1.3
	Title	Study Report 3
	Element	m5-3-2-1-plasma-protein-binding-study-reports
	2	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5321-plasma-prot-bind-stud-rep/study-report-3
	Comment	
296		5.3.2.2
		Reports of Hepatic Metabolism and Drug Interaction Studies
		m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5322-rep-hep-metab-interact-stud

	Comment	
		5.3.2.2.1
	Title	Study Report 1
297	Element	m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5322-rep-hep-metab-interact-stud/study-report-1
	Comment	
	Number	5.3.2.2.2
	Title	Study Report 2
298		m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies
	5	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5322-rep-hep-metab-interact-stud/study-report-2
	Comment	
	Number	5.3.2.2.3
	Title	Study Report 3
299	Element	m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5322-rep-hep-metab-interact-stud/study-report-3
	Comment	
		5.3.2.3
		Reports of Studies Using Other Human Biomaterials
		m5-3-2-3-reports-of-studies-using-other-human-biomaterials
	2	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5323-stud-other-human-biomat
	Comment	
		5.3.2.3.1
	Title	Study Report 1
301		m5-3-2-3-reports-of-studies-using-other-human-biomaterials
	2	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5323-stud-other-human-biomat/study-report-1
	Comment	
		5.3.2.3.2
	Title	Study Report 2
1		m5-3-2-3-reports-of-studies-using-other-human-biomaterials
	2	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5323-stud-other-human-biomat/study-report-2
	Comment	
		5.3.2.3.3
	Title	Study Report 3
		m5-3-2-3-reports-of-studies-using-other-human-biomaterials
	Directory	m5/53-clin-stud-rep/532-rep-stud-pk-human-biomat/5323-stud-other-human-biomat/study-report-3

	Comment	
	Number	5.3.3
		Reports of Human Pharmacokinetic (PK) Studies
304		m5-3-3-reports-of-human-pharmacokinetics-pk-studies
		m5/53-clin-stud-rep/533-rep-human-pk-stud
	Comment	mo/ss-em-stud-rep/sss-rep-numan-pk-stud
		5.3.3.1
		Healthy Subject PK and Initial Tolerability Study Reports
		m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports
		m5/53-clin-stud-rep/533-rep-human-pk-stud/5331-healthy-subj-pk-init-tol-stud-rep
	Comment	insiss chiristed repisss rep numun pk stedisser neutring subj pk nint tor sted rep
		5.3.3.1.1
	Title	Study Report 1
206		
		m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports
	~	m5/53-clin-stud-rep/533-rep-human-pk-stud/5331-healthy-subj-pk-init-tol-stud-rep/study-report-1
_	Comment	
		5.3.3.1.2
	Title	Study Report 2
		m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports
		m5/53-clin-stud-rep/533-rep-human-pk-stud/5331-healthy-subj-pk-init-tol-stud-rep/study-report-2
	Comment	
		5.3.3.1.3
	Title	Study Report 3
		m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports
	5	m5/53-clin-stud-rep/533-rep-human-pk-stud/5331-healthy-subj-pk-init-tol-stud-rep/study-report-3
	Comment	
	Number	5.3.3.2
	Title	Patient PK and Initial Tolerability Study Reports
309	Element	m5-3-3-2-patient-pk-and-initial-tolerability-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5332-patient-pk-init-tol-stud-rep
	Comment	
310	Number	5.3.3.2.1
1	Title	Study Report 1
	Element	m5-3-3-2-patient-pk-and-initial-tolerability-study-reports

	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5332-patient-pk-init-tol-stud-rep/study-report-1
	Comment	
		5.3.3.2.2
	Title	Study Report 2
		m5-3-3-2-patient-pk-and-initial-tolerability-study-reports
1		m5/53-clin-stud-rep/533-rep-human-pk-stud/5332-patient-pk-init-tol-stud-rep/study-report-2
	Comment	
		5.3.3.2.3
	Title	Study Report 3
312	Element	m5-3-3-2-patient-pk-and-initial-tolerability-study-reports
		m5/53-clin-stud-rep/533-rep-human-pk-stud/5332-patient-pk-init-tol-stud-rep/study-report-3
	Comment	
	Number	5.3.3.3
	Title	Intrinsic Factor PK Study Reports
313	Element	m5-3-3-intrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5333-intrin-factor-pk-stud-rep
	Comment	
	Number	5.3.3.1
	Title	Study Report 1
314	Element	m5-3-3-intrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5333-intrin-factor-pk-stud-rep/study-report-1
	Comment	
	Number	5.3.3.2
	Title	Study Report 2
315		m5-3-3-intrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5333-intrin-factor-pk-stud-rep/study-report-2
	Comment	
		5.3.3.3
	Title	Study Report 3
316		m5-3-3-intrinsic-factor-pk-study-reports
	2	m5/53-clin-stud-rep/533-rep-human-pk-stud/5333-intrin-factor-pk-stud-rep/study-report-3
	Comment	
		5.3.3.4
		Extrinsic Factor PK Study Reports
	Element	m5-3-3-4-extrinsic-factor-pk-study-reports

	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5334-extrin-factor-pk-stud-rep
	Comment	
	Number	5.3.3.4.1
	Title	Study Report 1
318	Element	m5-3-3-4-extrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5334-extrin-factor-pk-stud-rep/study-report-1
	Comment	
	Number	5.3.3.4.2
	Title	Study Report 2
319	Element	m5-3-3-4-extrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5334-extrin-factor-pk-stud-rep/study-report-2
	Comment	
	Number	5.3.3.4.3
	Title	Study Report 3
320		m5-3-3-4-extrinsic-factor-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5334-extrin-factor-pk-stud-rep/study-report-3
	Comment	
	Number	5.3.3.5
	Title	Population PK Study Reports
321	Element	m5-3-3-5-population-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5335-popul-pk-stud-rep
	Comment	
	Number	5.3.3.5.1
	Title	Study Report 1
-		m5-3-3-5-population-pk-study-reports
		m5/53-clin-stud-rep/533-rep-human-pk-stud/5335-popul-pk-stud-rep/study-report-1
	Comment	
		5.3.3.5.2
	Title	Study Report 2
		m5-3-3-5-population-pk-study-reports
-	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5335-popul-pk-stud-rep/study-report-2
	Comment	
		5.3.3.5.3
	Title	Study Report 3

	Element	m5-3-3-5-population-pk-study-reports
	Directory	m5/53-clin-stud-rep/533-rep-human-pk-stud/5335-popul-pk-stud-rep/study-report-3
	Comment	
	Number	5.3.4
	Title	Reports of Human Pharmacodynamic (PD) Studies
325	Element	m5-3-4-reports-of-human-pharmacodynamics-pd-studies
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud
	Comment	
	Number	5.3.4.1
		Healthy Subject PD and PK/PD Study Reports
326	Element	m5-3-4-1-healthy-subject-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5341-healthy-subj-pd-stud-rep
	Comment	
	Number	5.3.4.1.1
	Title	Study Report 1
327		m5-3-4-1-healthy-subject-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5341-healthy-subj-pd-stud-rep/study-report-1
	Comment	
		5.3.4.1.2
	Title	Study Report 2
328		m5-3-4-1-healthy-subject-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5341-healthy-subj-pd-stud-rep/study-report-2
	Comment	
	Number	5.3.4.1.3
	Title	Study Report 3
329	Element	m5-3-4-1-healthy-subject-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5341-healthy-subj-pd-stud-rep/study-report-3
	Comment	
	Number	5.3.4.2
	Title	Patient PD and PK/PD Study Reports
330		m5-3-4-2-patient-pd-and-pk-pd-study-reports
		m5/53-clin-stud-rep/534-rep-human-pd-stud/5342-patient-pd-stud-rep
	Comment	
		5.3.4.2.1

	Title	Study Report 1
	Element	m5-3-4-2-patient-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5342-patient-pd-stud-rep/study-report-1
	Comment	
	Number	5.3.4.2.2
	Title	Study Report 2
332	Element	m5-3-4-2-patient-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5342-patient-pd-stud-rep/study-report-2
	Comment	
	Number	5.3.4.2.3
	Title	Study Report 3
333	Element	m5-3-4-2-patient-pd-and-pk-pd-study-reports
	Directory	m5/53-clin-stud-rep/534-rep-human-pd-stud/5342-patient-pd-stud-rep/study-report-3
	Comment	
	Number	5.3.5
	Title	Reports of Efficacy and Safety Studies
334	Element	m5-3-5-reports-of-efficacy-and-safety-studies
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud
	Comment	
		5.3.5
		Reports of Efficacy and Safety Studies - Indication Name
335		m5-3-5-reports-of-efficacy-and-safety-studies
555	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1
	Comment	The folder name should always include the indication being claimed, for example, 'asthma' (abbreviated if appropriate). Where there is more than one indication (e.g., asthma and migraine), then the first indication has a folder 'asthma' and the second 'migraine'.
	Number	5.3.5.1
	Title	Study Reports of Controlled Clinical Studies Pertinent to the Claimed Indication
336	Element	m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5351-stud-rep-contr
	Comment	
	Number	5.3.5.1.1
	Title	Study Report 1
337		m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5351-stud-rep-contr/study-report-1
	Comment	

	Number	5.3.5.1.2
	Title	Study Report 2
338	Element	m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5351-stud-rep-contr/study-report-2
	Comment	
	Number	5.3.5.1.3
	Title	Study Report 3
339		m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication
		m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5351-stud-rep-contr/study-report-3
	Comment	
		5.3.5.2
	Title	Study Reports of Uncontrolled Clinical Studies
340		m5-3-5-2-study-reports-of-uncontrolled-clinical-studies
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5352-stud-rep-uncontr
	Comment	
		5.3.5.2.1
	Title	Study Report 1
341		m5-3-5-2-study-reports-of-uncontrolled-clinical-studies
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5352-stud-rep-uncontr/study-report-1
	Comment	
	Number	5.3.5.2.2
	Title	Study Report 2
342		m5-3-5-2-study-reports-of-uncontrolled-clinical-studies
		m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5352-stud-rep-uncontr/study-report-2
	Comment	
		5.3.5.2.3
	Title	Study Report 3
343		m5-3-5-2-study-reports-of-uncontrolled-clinical-studies
	5	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5352-stud-rep-uncontr/study-report-3
	Comment	
344		5.3.5.3
		Reports of Analyses of Data from More than One Study
	Element	m5-3-5-3-reports-of-analyses-of-data-from-more-than-one-study
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5353-rep-analys-data-more-one-stud

	Comment		
	Number	5.3.5.3.1	
	Title	Study Report 1	
345	Element	m5-3-5-3-reports-of-analyses-of-data-from-more-than-one-study	
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5353-rep-analys-data-more-one-stud/study-report-1	
	Comment		
	Number	5.3.5.3.2	
	Title	Study Report 2	
346		m5-3-5-3-reports-of-analyses-of-data-from-more-than-one-study	
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5353-rep-analys-data-more-one-stud/study-report-2	
	Comment		
	Number	5.3.5.3.3	
	Title	Study Report 3	
347		m5-3-5-3-reports-of-analyses-of-data-from-more-than-one-study	
	~	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5353-rep-analys-data-more-one-stud/study-report-3	
	Comment		
		5.3.5.4	
	Title	Other Study Reports	
348		m5-3-5-4-other-study-reports	
	2	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5354-other-stud-rep	
	Comment		
	Number	5.3.5.4.1	
	Title	Study Report 1	
349		m5-3-5-4-other-study-reports	
	,	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5354-other-stud-rep/study-report-1	
	Comment		
		5.3.5.4.2	
	Title	Study Report 2	
350	Element	m5-3-5-4-other-study-reports	
	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5354-other-stud-rep/study-report-2	
	Comment		
351 Number 5.3.5.4.3			
Title Study Report 3		Study Report 3	
	Element	m5-3-5-4-other-study-reports	

	Directory	m5/53-clin-stud-rep/535-rep-effic-safety-stud/indication-1/5354-other-stud-rep/study-report-3
	Comment	insiss chiristud repisss rep chie sulety studinaetaion 175554 other stud repistally report 5
		5.3.6
		Reports of Postmarketing Experience
		m5-3-6-reports-of-postmarketing-experience
		m5/53-clin-stud-rep/536-postmark-exp
	Comment	
		5.3.7
	Title	Case Report Forms and Individual Patient Listings
353	Element	m5-3-7-case-report-forms-and-individual-patient-listings
	Directory	m5/53-clin-stud-rep/537-crf-ipl
	Comment	
	Number	5.3.7.1
	Title	Study 1
354	Element	m5-3-7-case-report-forms-and-individual-patient-listings
	Directory	m5/53-clin-stud-rep/537-crf-ip1/study-1
	Comment	
	Number	5.3.7.1.1
	Title	Document/Dataset 1
355	Element	m5-3-7-case-report-forms-and-individual-patient-listings
555	File	m5/53-clin-stud-rep/537-crf-ipl/study-1/filename-1.pdf
	Comment	The filename and extension should include the description of the file and appropriate file extension according to Appendix 2. Reference should be made to regional guidance for the acceptability of submission of datasets
	Number	5.3.7.1.2
	Title	Document/Dataset 2
356	Element	m5-3-7-case-report-forms-and-individual-patient-listings
	File	m5/53-clin-stud-rep/537-crf-ip1/study-1/filename-2.pdft
	Comment	
	Number	5.3.7.1.3
	Title	Document/Dataset 3
357		m5-3-7-case-report-forms-and-individual-patient-listings
	File	m5/53-clin-stud-rep/537-crf-ipl/study-1/filename-3.pdf
	Comment	
		5.3.7.2

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364 Title Document/Dataset 2 364 Element m5-3-7-case-report-forms-and-individual-patient-listings File m5/53-clin-stud-rep/537-crf-ipl/study-3/filename-2.pdf			
364 Element m5-3-7-case-report-forms-and-individual-patient-listings File m5/53-clin-stud-rep/537-crf-ipl/study-3/filename-2.pdf		Number	5.3.7.3.2
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			m5/53-clin-stud-rep/537-crf-ipl/study-3/filename-2.pdf
		Comment	

	Number	5.3.7.3.3
		Document/Dataset 3
365	Element	m5-3-7-case-report-forms-and-individual-patient-listings
	File	m5/53-clin-stud-rep/537-crf-ipl/study-3/filename-3.pdf
	Comment	
	Number	5.4
		Literature References
366	Element	m5-4-literature-references
	Directory	m5/54-lit-ref
	Comment	Copies of literature references should ordinarily be submitted as individual files (i.e,. one for each reference).
	Number	5.4.1
		Reference 1
367		m5-4-literature-references
	File	m5/54-lit-ref/ <i>reference-1.pdf</i>
	Comment	
	Number	5.4.2
		Reference 2
368		m5-4-literature-references
	File	m5/54-lit-ref/ <i>reference-2.pdf</i>
	Comment	
	Number	5.4.3
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369	Element	m5-4-literature-references
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370	Element	
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	Title	
371	Element	
	Directory	util/dtd
	Comment	DTDs – it is not necessary to include regional DTDs other than the one for the region to which the application is being made
	Number	
	Title	
372	Element	
		util/dtd/ich-ectd-3-0.dtd
		DTD for the instance – the version used to create the eCTD submission must be included
	Number	
	Title	
373	Element	
		util/dtd/eu-regional-1-0.dtd
	Comment	DTD for the EU specific documentation
	Number	
	Title	
	Element	
		util/dtd/jp-regional-1-0.dtd
		DTD for the Japan specific documentation
	Number	
	Title	
	Element	
		util/dtd/us-regional-1-0.dtd
		DTD for the US specific documentation
	Number	
	Title	
	Element	

	File util/dtd/xx-regional-1-0.dtd			
	Comment DTD for the xx specific documentation, where xx is a two character country code from ISO-3166-1			
	Number			
	Title			
377	Element			
	Directory	util/style		
	Comment	Directory for style sheets – default (ICH) and applicant specific stylesheets		
378	Number			
	Title			
	Element			
	File	util/style/ectd-1-0.xsl		
	Comment	The specific version of the eCTD stylesheet used by the applicant as a reference during the creation of the submission should be included.		

Appendix 5: Region Specific Information Including Transmission and Receipt

Introduction

This section describes region specific information for content that is not explicitly included in the Common Technical Document and logistical details appropriate for the transmission and receipt of submissions using the electronic Common Technical Document.

Region Specific Information: Module 1

This module contains administrative information that is unique for each region. There will be local requirements for both the content and electronic component of module 1. The eCTD backbone was developed to allow the transfer of the regional information included in a regulatory dossier.

Regional guidance will provide the specific instructions on how to provide the administrative forms and detailed prescribing information. Please refer to this information and appendix 6 when preparing module 1. Module 1 includes all administrative documents (e.g., forms and certifications) and labeling, including the documents described in regional guidance.

Not all regionally specific documents are included in module 1. Technical reports required for a specific region should be placed in modules 2 to 5. These reports should be included in the module most appropriate for the content of the information provided.

Each region provides specific guidance on the format and content of the regional requirements of each module. Table 5-1 provides contact information for each region.

Region	Internet Address	Electronic Mail Contact
European Union	http://www.emea.eu.int	esubmission@emea.eu.int
Food And Drug Administration,	http://www.fda.gov/cber	Esubprep@cber.fda.gov
USA	http://www.fda.gov/cder	esub@cder.fda.gov
Ministry of Health, Labour and	http://www.mhlw.go.jp	e-submission@nihs.go.jp
Welfare, Japan	http://www.nihs.go.jp	
Health Canada	http://www.hc-sc.gc.ca/hpb-	mike_ward@hc-sc.gc.ca
	dgps/therapeut	

Table 5-1

Submission Addresses

Submissions should be sent directly to the appropriate regulatory authority. Information needed to send physical media to each regulatory authority is found at the reference location in Table 5-2.

Regulatory Authority	Reference location
EMEA, European Union	http://www.eudra.org/
or national agencies	http://heads.medagencies.org
Ministry of Health, Labour and Welfare, Japan	http://www.mhlw.go.jp
	http://www.nihs.go.jp
Food and Drug Administration, United States of	http://www.fda.gov/
America	

Table 5-2

Health Canada, Health Protection Branch, Canada	http://www.hc-sc.gc.ca/hpb-dgps/therapeut
---	---

Media

Regulatory authorities are prepared to accept electronic submissions provided on the media listed in Table 5-3. To optimize processing efficiency, we recommend choosing media with a capacity most appropriate to the size of the submission. Whenever possible, applicants should choose media capable of holding the submission on the fewest number of units. For example, for a submission of 50 megabytes, use 1 CD-ROM instead of 50 floppy disks.

Recommendations for Media		Regulatory
Example Size of Submission	Media and Format	Authority
Less than 1.4 MB	3.5 inch DOS Formatted Floppy Disks	EU
Less than 10 MB	3.5 inch DOS Formatted Floppy Disks	USA
Less than 650 MB	CD-ROM ISO 9660 - Joliet	EU, Japan
Less than 7 GB	CD-ROM ISO 9660 - Joliet	Japan, USA, Canada
Greater than 7 GB	Digital Tape	USA
More than 650 MB	DVD	EU, Canada

Table 5-3⁷

Cover Letter

Applicants should provide a cover letter as a PDF file (cover.pdf). A paper cover letter should also be included with non-electronic portions of the submission (such as forms with signatures or seals, and certifications). The cover letter should include:

- A description of the submission including appropriate regulatory information.
- A listing of the sections of the submission filed as paper, electronic, or both paper and electronic.
- A description of the electronic submission including type and number of electronic media, approximate size of the submission, and if appropriate, format used for DLT tapes.
- A statement that the submission is virus free with a description of the software used to check the files for viruses.
- The printed contents of the index-md5.txt file as an appendix.
- The regulatory and information technology points of contact for the submission.

Preparing the Media

CD-ROMs should be packaged carefully to ensure that they arrive in a usable condition. Particularly vulnerable are diskettes and CD-ROM jewel cases shipped in envelopes without bubble-type protective material or stiff backing. A jiffy-type bag alone does not provide adequate protection for shipping electronic media.

Transport

Secure data exchange over the Internet is the recommended means for transporting submissions. However, until the regulatory authorities can develop secure electronic gateways, submissions should continue to be physically transported by courier or registered mail.

⁷ For details applicants should consult the regulatory authority.

Security

An MD5 checksum should be included for each physical file in the eCTD. The checksum allows the recipient to verify integrity of the physical files in the submission. The XML eCTD DTD provides the location of the files and a tag name contains the checksums.

A checksum of the XML eCTD instance should also be included. Applicants should name this checksum file index-md5.txt and include it as a file in the same directory as the XML eCTD instance. Applicants should print the contents of the index-md5.txt file and include the paper copy with the paper cover letter for the submission.

An applicant can provide the eCTD as an encrypted file in accordance with the ICH M2 Recommendation 4.1, if the regulatory body has implemented it. This solution allows the eCTD to be encrypted and transferred over the Internet (if Internet receipt is implemented regionally) or to be encrypted on one of the approved physical media standards. The purpose of encryption is to protect the privacy of the confidential information and to ensure it is only available to the authorized receiver. Encryption is always appropriate when the eCTD is sent via the Internet.

Encryption is not considered necessary if the information is sent using a physical media, although encryption is an option. The applicant should assume all liability for the media until it is delivered to the regulatory authority.

Applicants should not include any file level security settings or password protection for individual files in the eCTD. Applicants should allow printing, changes to the document, selecting text and graphics, and adding or changing notes and form fields. Internal security and access control processes in the regulatory authority should maintain the integrity of the submitted files.

Receipt

Upon arrival at the regulatory authority, the submission is archived according to local regulations. A readonly copy of the submission is then made available to the review community in the regulatory authority. This is typically done by placing the copy on a network server.

Acknowledgment

Each regulatory authority should acknowledge the receipt of the eCTD submission according to the policy and procedure of the individual regulatory authority. Applicants should use the address in Table 5-1 to find guidance regarding acknowledgments.

Appendix 6: The eCTD XML Submission

Background

Many factors have influenced the design of the eCTD. Factors that have had a significant impact on the design are listed below:

- The submissions should accommodate full regulatory dossiers, supplements, amendments, and variations.
- The submissions should be able to accommodate regional requirements that are represented in regional guidance documents, regulations, and statutes.
- The technology should be extensible so that as technology changes, the new electronic solutions can be accommodated.

The eCTD is designed around the concept of a backbone. The backbone is similar to a container that holds the files that are part of the submission. The backbone is based on an XML Document Type Definition (DTD). There is a close relationship between the logical documents defined in the CTD and entities in the backbone. The backbone will provide the navigation links to the various files and information that make up the submission.

The file that is produced based on the XML eCTD DTD is the eCTD XML instance or XML backbone. The XML backbone allows more than one entry or link to point to the same physical file. This should be done with caution since managing the life cycle of that file can be more difficult for the regulatory authority if there is more than one pointer to the file.

File Names and Directory Structure

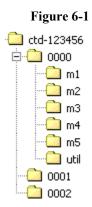
Recipients of the eCTD should be able to directly navigate through the submission at the folder and file level (i.e., without benefit of a customized end user application.) The structure of the eCTD and instructions for how to create folder names facilitate this type of navigation.

In order to preserve the navigational linkages that can be present in the documents contained in the eCTD, the directory structure should be preserved by the agencies. The navigational links should be relative links within a module.

Specific folder and file names have been defined in appendix 4. The top level of the directory structure will vary by region. The identification of the top-level folder uniquely identifies the submission in a region. The submission identification should be used as the folder name in the top-level directory. For example, if the submission number were CTD 123456, the root directory would be named "ctd-123456". The original submission and subsequent amendments and variations should use the same top-level folder name. Submissions should be differentiated by a subfolder named according to the sequence number of the submission in that region. Table 6-1 and Figure 6-1 illustrate this naming convention.

Submission number	Sequence number	Type of submission
ctd-123456	0000	Original Submission
ctd-123456	0001	First amendment, supplement or variation
ctd-123456	0002	Second amendment, supplement or variation
ctd-123456	nnnn	Nth amendment, supplement or variation

Table 6-1



You should submit the XML backbone as a single file named *index.xml*, which should be placed in the submission sequence number folder for that submission. In the example shown in Figure 6-1, there should be an *index.xml* file in folder "0000", folder "0001" and folder "0002". The MD5 checksum file, *index-md5.txt*, should be in each folder with the corresponding *index.xml* file. The DTD for *index.xml* should be in the "util" folder for each submission.

The regional administrative XML backbone file, if supplied, should be in the region specific module 1 folder for each submission. The DTD for the regional XML backbone file should be in the util folder for each submission.

Table 6-2		
Submission Folder	Files	
ctd-123456/0000	index.xml	
	index-md5.txt	
ctd-123456/0000/m1/us	us-regional.xml	
ctd-123456/0000/util	ich-ectd-3-0.dtd	
	us-regional-1-0.dtd	
ctd-123456/0001	index.xml	
	index-md5.txt	
ctd-123456/0001/m1/us	us-regional.xml	
ctd-123456/0001/util	ich-ectd-3-0.dtd	
	us-regional-1-0.dtd	
ctd-123456/0002	index.xml	
	index-md5.txt	
ctd-123456/0002/m1/us	us-regional.xml	
ctd-123456/0002/util	ich-ectd-3-0.dtd	
	us-regional-1-0.dtd	

Table 6-2 presents the file locations for the example in Figure 6-1.

Lifecycle Management

It is important for the recipients of an eCTD to be able to establish the location of the submission in the lifecycle of a product.

The eCTD is capable of containing initial submissions, supplements, amendments, and variations. There are no uniform definitions for these terms in the three regions, but amendments and supplements are terms used in the United States. Variations apply in Europe. The variations, supplements, and amendments are used to provide additional information to an original regulatory dossier. For example, if a new manufacturer for the drug substance were being proposed, this would result in submission of an amendment or supplement to the FDA and a variation to Europe. When regulatory authorities request additional information is also provided as a variation, supplement, or amendment to the original

submission. Therefore, the regulatory agencies should have a way to manage the lifecycle of the submission. This function should be provided by each regulatory authority in the form of guidance that can include regional DTDs and specifications. The relevant regional DTD should be referenced in the eCTD DTD by the applicant.

The eCTD DTD provides some facilities for lifecycle management at the file level but does not fully support the life cycle at the submission level. When revisions are sent to a regulatory authority, the new file should be submitted as a leaf element associated with the same tag name as the file being amended or deleted. The "modified-file" attribute of the leaf element should contain the name and relative directory path of the file being amended, replaced, or deleted. This will allow the regulatory authority to accurately locate the original file and update the original file's status.

Operation Attribute

The operation attribute is a key to managing each individual file in a submission. The applicant uses the operation attribute to tell the regulatory authority how the applicant intends the files in the submission to be used. The operation attribute describes the relation between files in subsequent submissions during the life cycle of a medicinal product. In the very first submission all the files will be new. In the second, third, and subsequent submissions, all the newly submitted files can have different operation attributes due to having or not having a relation with previously submitted files. Table 6-2 describes the meaning of each allowed value of the operation attribute.

Operation attribute		when using	eviewer might see the Agency review oftware
value	Meaning	This file	Previous file
New	The file has no relationship with files submitted previously.	Current	
Append	The file itself is new, but due to the relation this file has with a previously submitted file, the attribute is "append". The append status is linked to a previously submitted file on which this operation has to be executed. The previously submitted file is indicated by the "modified file" attribute of the leaf element.	Current	Current - Appended
Replace	The file itself is new, but due to the relation this file has with a previously submitted file, the attribute is "replace". The "replace" status is linked to a previously submitted file on which this operation is executed. The previously submitted file is indicated by the "modified file" attribute of the leaf element.	Current	Replaced
Delete	There is no new file submitted in this case. Instead, the leaf has the operation of "delete" and the "modified- file" attribute identifies the file in a previous submission that is to be considered no longer relevant to the review.		No longer relevant to the review

Table 6-3 Understanding the Operation Attribute

The following case examples show the use of each of the operation attribute values. These examples do not cover all possible situations. Consult the appropriate regulatory authority if you have specific questions about the use of the operation attribute. When actually populating the XML instance, use the relative path to refer to files.

Case 1 – The first submission of a dossier.

Table 6-4					
Submission	File name	Operation	Modified file	Sample logical display	
sequence #				in a review tool	
0000	0000\\structure.pdf	New		structure.pdf (current)	

Case 2 – Two submissions. Submission 0000 is the first submission of a dossier. Submission 0001 is a subsequent amendment or variation in which the applicant intends to completely replace the structure.pdf file in submission 0000. The intent is to keep the original structure.pdf for historical purposes but to consider only the contents of the 0001...\structure.pdf as relevant to the review. These two submissions could be described as follows:

- Submission 0000 is the first submission of the file structure.pdf, and this file is the current version of this file.
- Submission 0001, which is submitted at a later time, is the submission of the file structure.pdf, which is now current and replaces the file structure.pdf in submission 0000.

	Table 0-5				
Submission	File name	Operation	Modified file	Sample logical	
sequence #				display in a review	
				tool	
0000	0000\\structure.pdf	New		structure.pdf	
				(current)	
0001	0001\\structure.pdf	Replace	0000\\structure.pdf	structure.pdf	
				(replaced)	
				structure.pdf	
				(current)	

Case 3 -Two submissions. Submission 0000 is the first submission of a dossier. Submission 0001 is an amendment or variation where the applicant intends to add new information to the original structure.pdf file, which was submitted in submission 0000. The intent is to have the reviewer consider the contents of both files relevant to the submission. These two submissions could be described as follows:

- Submission 0000 is the first submission of the file structure.pdf, and this file is the current version of this file.
- Submission 0001, submitted at a later time, is the submission of the file structure.pdf, which is the current file but contains information that should be appended to file structure.pdf in submission 0000. Both files should be considered relevant to the review of the dossier.

		I able	0-0	
Submission sequence #	File name	Operation	Modified file	Sample logical display in a review tool
0000	0000\\structure.pdf	New		structure.pdf (current)
0001	0001\\structure.pdf	Append	0000\\structure.pdf	structure.pdf (current - appended)

Table 6-6

		structure.pdf
		(current)

Case 4 – Two submissions. Submission 0000 is the first submission of a dossier. Submission 0001 is an amendment or variation where the applicant intends to delete a file in the previous submission. The intent is to have the reviewer disregard the contents of the original file, possibly because it should not have been submitted with the original dossier. These two submissions could be described as follows:

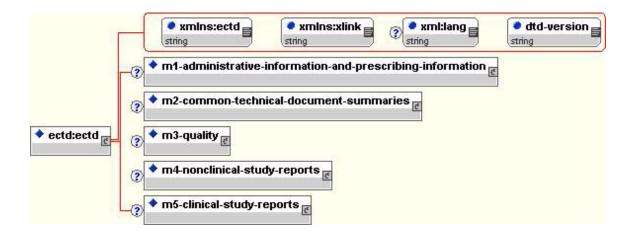
- Submission 0000 is the first submission of the file structure.pdf and this file is the current version of this file.
- Submission 0001, submitted at a later time, requests that the file structure.pdf in submission _ 0000 be deleted and no longer considered relevant to the review of the dossier.

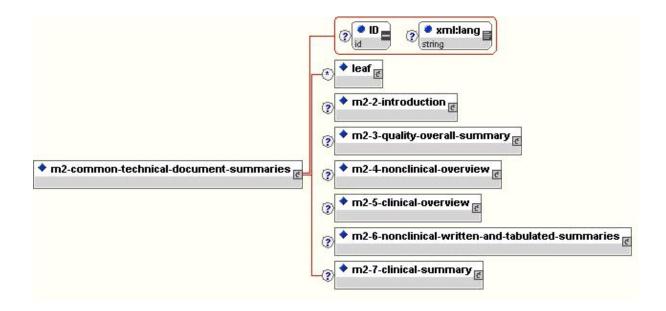
Table 6-7				
Submission sequence #	File name	Operation	Modified file	Sample logical display in a review tool
0000	0000\\structure.pdf	New		structure.pdf (current)
0001		Delete	0000\\structure.pdf	structure.pdf (no longer relevant to the review)

Table	6-7
rabic	0-1

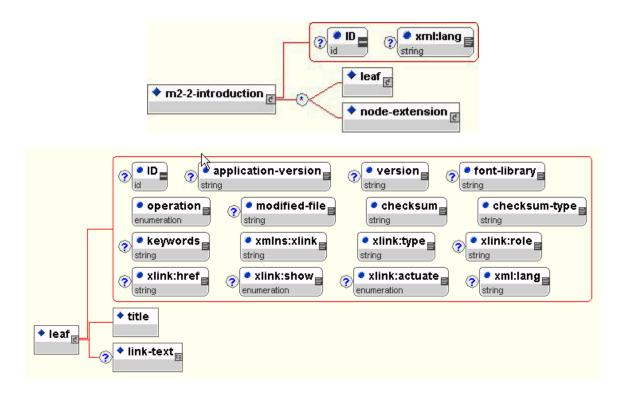
DTD Content Model

The content model of the eCTD is derived from the organization of the Common Technical Document. The graphic representation of a portion of the content model is shown below. The content model is hierarchical starting at the "ectd" and going down to a specific item to be included in the submission. This example shows how the section of the CTD containing summaries is structured.





Once the appropriate tag has been selected, use the <leaf> element and attributes to specify a file in the submission. See "Instructions for preparing the eCTD" in this appendix for details.



eCTD Element/Attribute Instructions

The eCTD consists of 5 primary modules:

- m1-administrative-information-and-prescribing-information
- m2-common-technical-document-summaries
- m3-quality
- m4-nonclinical-study-reports
- m5-clinical-study-reports

Each of the 5 modules is divided into sub elements, each with a distinct <tag> that represents a CTD table of contents location. The steps should be completed as shown in the following example, where all files are submitted for modules 1 through 5:

- 1. You should select a tag element that best corresponds to the CTD table of contents location for a document or file being submitted. For example, select the tag <m2-4-nonclinical-overview> to submit the nonclinical overview document.
- 2. You should create a child <leaf> element underneath the <m2-4-nonclinical-overview> tag.
- 3. You should provide the relative location and file name of the actual file containing the nonclinical overview in the "xlink:href" attribute for the <leaf> element.
- 4. You should provide a descriptive title for the file that contains the nonclinical overview in the <title> element of the <leaf>.
- 5. You should provide information for the appropriate attributes of the <leaf> element as described in Table 6-8.

The table 6-8 describes each of these elements and attributes in further detail. In the current review environment, the following leaf attributes are the most useful to the end user:

- ID
- xml:lang
- checksum
- checksum-type
- modified-file
- operation
- application-version
- xlink:href

Table 6-8

	Tuble 0.0				
Element	Attribute	Description/Instructions	Example		
Any table of		A table of contents tag represents a grouping			
contents tag such		of one or more files related to a specific			
as <m2-4-< td=""><td></td><td>section of the Common Technical</td><td></td></m2-4-<>		section of the Common Technical			
nonclinical-		Document.			
overview>		One or more child <leaf> elements can be</leaf>			
		declared for a parent table of contents tag.			
		It is possible to extend a table of contents tag			
		by providing a <node-extension> element.</node-extension>			
		This can be done at the lowest level of the			
		defined table of contents tags but should be			
		done only when absolutely necessary. See			
		the section "Instructions for extending eCTD			
		tag elements" in this appendix.			
	ID	A unique identifier for this location in the			
		XML instance.			

Element	Attribute	Description/Instructions	Example
	xml:lang	The primary language used by the files in this entire section of the submission. Use	en
		ISO-639 standard language abbreviations	
<leaf></leaf>		A leaf corresponds to a file. One or more child leaf elements can be submitted for a parent table of contents tag.	
	application- version	The version of the software application that was used to create this file.	Acrobat 5
	font-library	Commercial name of fonts/font set used to create the document.	
	ID	Unique identifier for this file in the XML instance.	ID050520
	checksum	The checksum value for the file being submitted.	e854d3002c02a61fe5cbe926fd97b001
	checksum-type	The checksum algorithm used.	MD5
	modified-file	The name of the file to be modified as indicated in the "operation" attribute. This file name should include the relative path to the file. If no file is being modified, then you should not supply the "modified-file" attribute.	0000/m2/27-clin-sum/literature- references.pdf
	operation	Indicates the operation to be performed on the "modified-file". You should select one of the following valid values:	New
	version	The file submitter's internal version number or version identification for the report.	V23.5
	xlink:actuate	Not Currently Used	
	xlink:href	Provide the pointer to the actual file. Use the relative path to the file and the file name.	0000/m2/27-clin-sum/literature- references.pdf
	xlink:role	Not Currently Used	
	xlink:show	Not Currently Used.	
	xlink:type	Fixed value of "simple".	simple
	keywords	Not Currently Used	
<title></td><td></td><td>This element is associated with a "leaf" and provides a description of the file being submitted.</td><td>study report 1234</td></tr><tr><td></td><td>ID</td><td>Unique identifier for this location in the XML instance</td><td></td></tr></tbody></table></title>			

*Instructions for a Simple New Submission*⁸ The following XML fragment demonstrates the submission of a clinical overview of efficacy as a single PDF document.

⁸ Note that these XML examples are examples only and do not necessarily contain all of the elements and attributes that you should use when preparing an eCTD submission.

This submission includes the file "clinical-overview.pdf" in the relative directory "m2/25-clin-over/" (i.e. the one starting below the dossier number directory). The file is "new" and has a descriptive name of "Clinical Overview"

The regional review application should treat this as a new submission to be associated with the submission identified in CTD module 1, which is region specific.

If this is the first submission for Dossier CTD 123456, all the files in this submission are in the ctd-123456\0000 directory and below.

Instructions for an Amendment, Supplement, or Variation

In the previous example, a clinical overview was submitted. In this example, it is replaced by an updated version.

To replace a file, add the replacement file <leaf> element under the same tag element as the original file. If this is the second submission for Dossier CTD 123456, all the files in this submission are in the ctd-123456\0001 directory and below.

</ectd:ectd>

Instructions for Multiple Indications

Multiple therapeutic indications use an additional attribute associated with the <m2-7-3-summary-ofclinical-efficacy> and the <m5-3-5-reports-of-efficacy-and-safety-studies> elements to allow multiple indications to be submitted. The following table shows the use of these attributes.

Table 6-9					
Element Attribute Description/Instructions Example					

Element	Attribute	Description/Instructions	Example
<m2-7-3-summary- of-clinical-efficacy></m2-7-3-summary- 	Indication	Name of the indication	pain
<m5-3-5-reports-of- efficacy-and-safety- studies></m5-3-5-reports-of- 	Indication	Name of the indication.	pain

Note that the indication attribute is used by the regulatory authority to apply to all the table of contents tags beneath the <m2-7-3-summary-of-clinical-efficacy> and <m5-3-5-reports-of-efficacy-and-safety-studies> tags. This is an example of the a section of the instance showing the submission of information about two indications:

```
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE ectd:ectd SYSTEM "util/dtd/ich-ectd-3-0.dtd">
<ectd:ectd xmlns:ectd = "http://www.ich.org/ectd" xmlns:xlink = "http://www.w3c.org/1999/xlink">
         <m2-common-technical-document-summaries>
                   <m2-7-clinical-summary>
                             <m2-7-3-summary-of-clinical-efficacy indication = "pain">
                                      <leaf operation = "new" xlink:type = "simple"
                                      checksum-type="md5" checksum =
                              "e854d3002c02a61fe5cbe926fd973401" ID="ID050520"
                                      xlink:href =
                                          "m2/27-clin-sum/summary-clin-efficacy-pain.pdf">
                                                <title>pain efficacy summary</title>
                                      </leaf>
                             </m2-7-3-summary-of-clinical-efficacy>
                             <m2-7-3-summary-of-clinical-efficacy indication = "nausea">
                                      <leaf operation = "new" xlink:type = "simple"
checksum-type="md5" checksum =
                              "e854d3002c02a61fe54be926fd973401" ID="ID050521"
                                      xlink:href =
                                          "m2/27-clin-summ/summary-clin-efficacy-nausea.pdf">
                                                <title>nausea efficacy summary</title>
                                      </leaf>
                             </m2-7-3-summary-of-clinical-efficacy>
                   </m2-7-clinical-summary>
         </m2-common-technical-document-summaries>
         <m5-clinical-study-reports>
                   <m5-3-clinical-study-reports>
                             <m5-3-5-reports-of-efficacy-and-safety-studies indication = "pain">
                                      <leaf operation = "new" xlink:type = "simple" checksum-type="md5"</li>
                                      checksum =
                              "e854d3002c02a61fe544e926fd973401" ID="ID050522"
                                      xlink:href =
                                    "m5/53-clin-stud-rep/535-rep-eff-safety-stud/pain/pain-sr1.pdf">
                                                <title>pain study report 1</title>
                                </leaf>
                             </m5-3-5-reports-of-efficacy-and-safety-studies>
                             <m5-3-5-reports-of-efficacy-and-safety-studies indication = "nausea">
                                      <leaf operation = "new" xlink:type = "simple" checksum-type="md5"
                                      checksum =
                              "e854d3002c02a614e54be926fd973401" ID="ID050523"
                                      xlink:href =
                                   "m5/53-clin-stud-rep/535-rep-eff-safety-stud/nausea/nausea-sr15.pdf">
                                                <title>nausea study report 15</title>
                                </leaf>
                             </m5-3-5-reports-of-efficacy-and-safety-studies>
                   </m5-3-clinical-study-reports>
         </m5-clinical-study-reports>
</ectd:ectd>
```

Instructions for Multiple Drug Substances, Manufacturers, and Products

Multiple drug substances use additional attributes associated with the <m3-2-s-drug-substance> element to allow unique combinations of the drug substance name and manufacturer to be submitted. The following table shows the use of these attributes.

Element	Attribute	Description/Instructions	Example		
<m3-2-s-drug- substance></m3-2-s-drug- 	Substance	Name of one of the drug substances	Acetaminophen		
	Manufacturer	Name of the manufacturer of the drug substance	my supplier		

Table 6-10

This is an example of the a section of the instance showing the submission of information about two drug substances, one of which is supplied by two manufacturers:

```
<m3-2-body-of-data>
```

```
<m3-2-s-drug-substance substance = "acetaminophen" manufacturer = "my supplier">
                           leaf operation = "new" xlink:type = "simple" checksum-type="md5" checksum =
                             "e854d3002c02361fe54be926fd973401" ID="ID050521"
                           xlink:href =
                    "m3/32-body-data/32s-drug-sub/acetaminophen-my-supplier/acetaminophen.pdf">
                           <title>acetaminophen my supplier data</title>
                  </leaf>
         </m3-2-s-drug-substance>
         <m3-2-s-drug-substance substance = "acetaminophen" manufacturer = "bulk company 2">
                           <leaf operation = "new" xlink:type = "simple" checksum-type="md5" checksum =
                             "e854d3002402a61fe54be926fd973401" ID="ID050522"
                            xlink:href =
                    "m3/32-body-data/32s-drug-sub/acetaminophen-bulk-company-2/acetaminophen2.pdf">
                           <title>acetaminophen company 2 data</title>
                  </leaf>
         </m3-2-s-drug-substance>
         <m3-2-s-drug-substance substance = "codeine" manufacturer = "drug company 2">
                           <leaf operation = "new" xlink:type = "simple" checksum-type="md5" checksum =
                             "e854d3002c02461fe54be926fd973401" ID="ID050523"
                            xlink:href =
                    "m3/32-body-data/32s-drug-sub/codeine-drug-company-2/codeine-quality-data.pdf">
                           <title>codeine data</title>
                  </leaf>
         </m3-2-s-drug-substance>
</m3-2-body-of-data>
```

Multiple drug products use additional attributes associated with the <m3-2-p-drug-product> element to allow unique combinations of the drug product name and dosage form to be submitted. The following table shows the use of these attributes.

Element	Attribute	Description/Instructions	Example		
<m3-2-p-drug- product></m3-2-p-drug- 	product-name	Name of one of the drug products	Wonder drug		
	dosageform	Dosage form and strength of the drug product	Tablet-5 mg		
	manufacturer	Manufacturer of the drug product	Company A		

Table 6-11

This is an example of a section of the instance showing the submission of information about two drug products:

```
<m3-2-body-of-data>
         <m3-2-p-drug-product product-name = "wonder drug" dosageform="capsule-5mg">
                  <leaf operation = "new" xlink:type = "simple" checksum-type="md5" checksum =
                             "e854d3002c02a61fe5cbe226fd973401" ID= "ID43545"
                            xlink:href =
                    "m3/32-body-data/32p-drug-prod/capsule-5mg/32p1-desc-comp/description-and-
                            composition.pdf">
                            <title>wonder drug capsule product information</title>
                  </leaf>
         </m3-2-p-drug-product>
         <m3-2-p-drug-product product-name = "wonder drug" dosageform="tablet-5mg">
                  <leaf operation = "new" xlink:type = "simple" checksum-type="md5" checksum =</li>
                             "e854d3002c02a61fe5cbe926fd973401" ID= "ID1234555"
                            xlink:href =
                  "m3/32-body-data/32p-drug-prod/tablet-5mg/32p1-desc-comp/description-and-
                           composition.pdf">
                            <title>wonder drug tablet product data</title>
                  </leaf>
         </m3-2-p-drug-product>
</m3-2-body-of-data>
```

Instructions for Extending XML eCTD DTD Elements

An applicant can extend the definition of an element by creating node extensions beneath a defined table of contents tag. Using node extensions is discouraged and should only be done when there is no other feasible means to submit information. The child element <node-extension> should be used for each new table of contents node created. The <title> element value is inherited from the parent element. You should follow the following principles when using <node-extension>:

- 1. You should only extend the lowest level of defined elements. For example you can extend the <m2-3-r-regional-information> element but not the <m2-3-quality-overall-summary> element since the latter is not the lowest element defined in the table of contents.
- 2. Do not extend the element more than one level. For example, you should not extend <nodeextension> <title>special-fda-summary</title> </node-extension> with another <node-extension>.

The following is an example of a section of the eCTD instance in which an applicant extends the <m2-3-r-regional-information> to provide specific regional information as requested by a regulatory authority. The title element associated with the <node-extension> describes the extension. Alternatively, the regional information in this example could have been provided as a <leaf> element under the <m2-3-r-regional-information> element without the use of a "node extension".

To update a file that has been submitted as an extended node, you should submit the replacement file using exactly the same element and "node extension" information, including the <title> element for the <node-

extension>. This makes it possible for the regulatory authority to locate the original file and update its status.

Instructions for Submitting Sections as Paper

During the transition to fully electronic submissions of the CTD, some regions will accept that some sections can be submitted as paper only. Please refer to regional guidance. These sections should be identified in the XML eCTD instance by including a PDF file in the instance that describes the content and location of the paper section. For example, the PDF file might consist of only one page with the name of the CTD document and the physical volume number and tab identifier. The <title> element in the XML eCTD instance that this is a paper submission.

This is an example of the instance showing the submission of a paper efficacy overview document.

Appendix 7: Specification for Submission Formats

Introduction

This appendix describes the way files should be constructed for inclusion in the eCTD. This section includes file formats that are commonly used in electronic submissions. Other formats can be used according to guidance published in each region.

PDF

Adobe Portable Document Format (PDF) is a published format created by Adobe Systems Incorporated (http://www.adobe.com). It is not necessary to use a product from Adobe or from any specific company to produce PDF documents. PDF is accepted as a standard for documents defined in this specification. The following recommendations support the creation of PDF files that agencies can review effectively. For any specification of the Japanese version of Adobe Acrobat, or where Japanese characters will be in the file, please refer to the regional guidance.

To ensure that PDF files can be accessed efficiently, PDF files should be no larger than 50 megabytes. The files should be saved "optimized" as shown in figure 7-1 for Acrobat 4.0.

	Figure 7-1	
File name:	Tour.pdf	Save
Save as type:	Acrobat (*.pdf)	Cancel
Security		
None	Settings	🔽 Optimize

With Acrobat 5.0, using "Save As" will automatically optimize the file.

In order to confirm that the file has been in fact optimized, the following dialog in Figure 7-2 is displayed when "Summary" is selected under "Property" under the "File" menu of Acrobat.

Figure 7-2

Document Summary				
File:	C:\pdfs\Appendix7JapaneseAddendum.pdf			
<u>T</u> itle:	Appendix7Japanese.indd			
<u>S</u> ubject:				
<u>A</u> uthor:				
<u>K</u> eywords:				
<u>B</u> inding:	Right Edge			
Creator:	Adobe InDesign 2.0J			
Producer:	Adobe PDF Library 5.0			
Created:	2002/05/10 17:07:33			
Modified:	2002/05/10 17:46:42			
File Size:	155.9 KB (159,691 Bytes)			
Security:	None			
PDF Version:	1.3 (Acrobat 4.x) Fast Web View: Yes			
Page Size:	8.5 in x 11.93 in Tagged PDF: No			
Number of Pages:	3			
	OK Cancel			

If many documents exist that have not been optimized, they can be optimized all at once using Acrobat's Batch processing function.

File -> Batch processing -> Fast Web View

Version

Agencies should be able to read all PDF files with version 4.0 or higher of the Acrobat Reader. Agencies should not need any additional software to read and navigate the PDF files. However, review can be facilitated through use of Adobe Acrobat since significantly more functionality is available in this product than with Acrobat Reader.

Fonts

PDF viewing software automatically substitutes a font to display text if the font used to create the text is unavailable on the reviewer's computer. Font substitution can affect a document's appearance and structure, and in some cases, the information conveyed by a document. Agencies cannot guarantee the availability of any fonts except Times New Roman, Arial, and Courier and fonts supported in the Acrobat product set itself. Therefore, all additional fonts used in the PDF files should be embedded to ensure that those fonts would always be available to the reviewer. When embedding fonts, all characters for the font should be embedded, not just a subset of the fonts being used in the document

Embedding fonts requires additional computer storage space. Three techniques to help limit the storage space taken by embedding fonts include:

- Limiting the number of fonts used in each document
- Using only True Type or Adobe Type 1 fonts
- Avoiding customized fonts

Japanese fonts (2-byte fonts) are larger than Roman fonts (1-byte fonts), therefore, the specification allows a subset to be embedded for all Japanese fonts. The purpose of embedding fonts to is to allow the receiver of the document to use a personal computer to display and print the document correctly without having the same fonts installed in the computer. Therefore, it is not necessary to embed all Japanese fonts. Embedding a subset of Japanese fonts should work satisfactorily.

Definition of Subset

A subset means to embed only those characters used in the document. Embedding a full-set means all characters that comprise the font are embedded, even characters that are not used in the document. All two-byte fonts such as Japanese should be embedded as a sub-set.

Notes on Embedding Japanese Fonts:

The following should be considered when embedding fonts:

Advantages:

- Embedding fonts allows the PDF file to be correctly displayed and printed on any receiving PC environment.
- The computer does not need the original fonts installed.

Disadvantages:

- The file size increases when fonts are embedded.
- When document contains many pages, this may make the document slower to print.
- Many eCTD documents contain a large number of pages. Printing time in such cases becomes a concern.
- When using Japanese fonts, rules of operation should be established between the sender and receiver. (See regional guidance)
- The use of popular fonts only would allow the sender and receiver to view and print the document correctly without embedding fonts.

Font Size

Resizing a document because the contents are too small to read is inefficient. Times New Roman, 12-point font, the font used for this document, is adequate in size for narrative text and should be used whenever possible. It is sometimes tempting to use fonts which are smaller than 12 point in tables and charts but this should be avoided whenever possible. When choosing a font size for tables, a balance should be sought between providing sufficient information on a single page to facilitate data comparisons for the reviewer while maintaining a font size that remains legible. The corollary of this is that in using larger font size, more tables might be necessary, which can complicate data comparisons since data might now be included in separate tables. Generally, Times New Roman font sizes 9-10 or an equivalent size of other recommended fonts are considered acceptable in tables but smaller font sizes should be avoided.

Use of Color Fonts

The use of a black font color is recommended. Blue can be used for hypertext links. Light colors that do not print well on grayscale printers should be avoided. Color reproduction can be tested prior to submission by printing sample pages from the document using a gray scale printer. The use of background shadowing should be avoided.

Page Orientation

Pages should be properly oriented so that all portrait pages are presented in portrait and all landscape pages are presented in landscape. To achieve this, the page orientation of landscape pages should be set to landscape prior to saving the PDF document in final form.

Page Size and Margins

The print area for pages should fit on a sheet of A4 (210 x 297 mm) and Letter (8.5" x 11") paper. A sufficient margin (at least 2.5 cm) on the left side of each page should be provided to avoid obscuring information if the reviewer subsequently prints and binds the pages for temporary use. For pages in landscape orientation (typically tables and publications), smaller margins (at least 2.0 cm at the top and 0.8 cm left and right) allow more information to be displayed legibly, on the page (see Fonts). Header and footer information can appear within these margins but not so close to the page edge to risk being lost upon printing.

Source of Electronic Document

PDF documents produced by scanning paper documents are usually inferior to those produced from an electronic source document. Scanned documents saved as image files are more difficult to read and do not allow reviewers to search or copy and paste text for editing. Scanning should be avoided where possible.

Methods for Creating PDF Documents and Images

The method used for creating PDF documents should produce the best replication of a paper document. To ensure that the paper and PDF version of the document are the same, the document should be printed from the PDF version. Documents that are available only in paper should be scanned at resolutions that will ensure the pages are legible both on the computer screen and when printed. At the same time, the file size should be limited. It is recommended that scanning be undertaken at a resolution of 300 dots per inch (dpi) to balance legibility and file size. The use of grayscale or color is discouraged because of file size. After scanning, resampling to a lower resolution should be avoided.

When creating PDF files containing images, the images should not be downsampled. Downsampling does not preserve all of the pixels in the original. For PDF images, one of the following lossless compression techniques should be used:

- For lossless compression of color and grayscale images, use Zip/Flate (one technique with two names). This is specified in Internet RFC 1950 and RFC 1951 (http://info.internet.isi.edu/in-notes/rfc/files/rfc1950.txt).
- For lossless compression of black and white images, use the CCITT Group 4 Fax compression technique. It is specified as CCITT recommendations T.6 (1988) *Facsimile coding schemes and coding control functions for Group 4 facsimile apparatus.*

Paper documents containing hand-written notes should be scanned at 300 dpi. Hand-written notes should be done in black ink for clarity.

For photographs, the image should be obtained with a resolution of 600 dpi. If black and white photos are submitted, 8-bit grayscale images should be considered. If color photos are submitted, 24-bit RGB images should be considered. A captured image should not be subjected to non-uniform scaling (i.e., sizing).

Gels and karyotypes should be scanned directly, rather than from photographs. Scanning should be at 600 dpi and 8-bit grayscale depth.

Plotter output graphics should be scanned or captured digitally at 300 dpi.

High-pressure liquid chromatography or similar images should be scanned at 300 dpi. Applicants should validate the quality of the renditions.

Hypertext Linking and Bookmarks

Hypertext links and bookmarks improve navigation through PDF documents. Hypertext links can be designated by rectangles using thin lines or by blue text as appropriate.

In general, for documents with a table of contents, bookmarks for each item listed in the table of contents should be provided including all tables, figures, publications, other references, and appendices. Bookmarks should follow hierarchical level and order of table of contents. These bookmarks are essential for the efficient navigation through documents. The bookmark hierarchy should be identical to the table of contents with no additional bookmark levels beyond those present in the table of contents. Each additional level increases the need for space to read the bookmarks. The use of no more than 4 levels in the hierarchy is recommended.

Hypertext links throughout the document to support annotations, related sections, references, appendices, tables, or figures that are not located on the same page are helpful and improve navigation efficiency. Relative paths should be used when creating hypertext links to minimize the loss of hyperlink functionality when folders are moved between disk drives. Absolute links that reference specific drives and root directories will no longer work once the submission is loaded onto the Agency's network servers.

When creating bookmarks and hyperlinks, the magnification setting *Inherit Zoom* should be used so that the destination page displays at the same magnification level that the reviewer is using for the rest of the document.

Page Numbering

Only the internal page numbers of the document are required (1-n). No additional page/volume numbers running across documents are expected. It is easier to navigate through an electronic document if the page numbers for the document and the PDF file are the same. To accomplish this, the first page of the document should be numbered page 1, and all subsequent pages (including appendices and attachments) should be numbered consecutively with Arabic numerals. Roman numerals should not be used to number pages (e.g., title pages, tables of contents) and pages should not be left unnumbered (e.g., title page.) Numbering in this manner keeps the Acrobat numbering in synchrony with the internal document page numbers.

Two exceptions to this rule can occur (see details in the guidance for the modules of the CTD.

- First, where a document is split because of its size (e.g., >50MB), the second or subsequent file should be numbered consecutively to that of the first or preceding file.
- Second, where several small documents with their own internal page numbering have been combined into a single file, it is not necessary to provide additional page numbering, instead the start of each sub document should be book marked.

Document Information Fields

Recommendations for the document information fields will be provided in the regional guidance for the specific submission type.

Open Dialog Box

The open dialog box sets the document view when the file is opened. The initial view of the PDF files should be set as *Bookmarks* and *Page*. If there are no bookmarks, the initial view as *Page* only should be set. The *Magnification* and *Page Layout* should be set as default.

Security

No security settings or password protection for PDF files should be included. Security fields should be set to allow printing, changes to the document, selecting text and graphics, and adding or changing notes and form fields.

Indexing PDF Documents

Full text indices can be used to find specific documents and/or search for text within documents. When a document or group of documents is indexed, all words and numbers in the file and all information stored in the document information fields are stored in special index files that are accessible using Acrobat search tools. Portions of a document that are imaged are not indexed. Even if the document only contains images, the text in the document information fields of the file will be indexed.

These full text indices should not be confused with a table of contents. Adobe Acrobat Catalog is one example of a tool that can be used to index PDF documents. Indices should not require extensions or additions to off-the-shelf Acrobat programs.

Further recommendations for full text indices will be provided in regional guidance.

The "Adobe Acrobat Catalog" function is valid in the English version of Acrobat 5.0, however, not in the Japanese version. In order to allow the Japanese version to validate this search function using index, third-party plug-ins may be used. The following is a list of the popular plug-ins used:

- XeloSearch PDF for Acrobat (Xelo)
- PDFinder (Institute of Language Engineering)
- XeloSearch Light which is bundled with the Japanese version of Acrobat 5.0 can be used for ordinary text searching without using index, or one time only index search (with no index saving function).

Use of Acrobat Plug-Ins

It is appropriate to use plug-ins to assist in the creation of a submission. However, the review of the submission should not require the use of any plug ins in addition to those provided with Adobe Acrobat because agencies should not be required to archive additional plug-in functionality.

XML Files

A working group at the World Wide Web Consortium (W3C) developed XML. It is a nonproprietary language developed to improve on previous markup languages including standard generalized markup language (SGML) and hypertext markup language (HTML).

Information in an XML file is divided into specific pieces. These pieces are called objects or element types. The element type identifies the piece of information. For example, the name of the company submitting a registration application in eCTD format for review is identified with the element type <applicant>. All element type names are bracketed using the special characters <>>. Inside the XML document, the element type name is placed just prior to the piece of information and after the information. This is called tagging. So, in the XML file, the applicant could be tagged as follows . The "/" prior to the element type denotes that this is the end of the information about the applicant.

By using a hierarchical structure, XML allows you to relate two or more elements. This is accomplished by nesting one element within another.

Additional information about the element type is provided by attributes. Attributes are placed within the element types and are surrounded by quotation marks ("".) For example, if you wanted to show that the applicant name is presented in the English language, you could add this piece of information as an attribute. This could be represented in the XML file as Worldwide Pharmaceuticals Inc./applicant>.

XML files are read by a parser found in Internet browsers. Stylesheets provide the browser with the information to create tables, fonts, and colors for display.

The specific names of the element types and attributes as well as the valid syntax, structure and format for defining the XML elements are included in a file called document type definition (DTD). If the XML document does not follow the DTD, then the file will not be able to be used properly.

The top three lines of the XML file should include the XML version, the stylesheet type and address, and the DTD name and address.

Additional information about the XML standard can be found at the W3C Web site at http://www.w3c.org.

SVG Files

SVG is a language for describing two-dimensional graphics in XML. SVG allows for three types of graphic objects: vector graphic shapes (e.g., paths consisting of straight lines and curves), images, and text. Graphical objects can be grouped, styled, transformed and composited into previously rendered objects. Text can be in any XML namespace suitable to the application, which enhances searchability and accessibility of the SVG graphics. The feature set includes nested transformations, clipping paths, alpha masks, filter effects, template objects, and extensibility.

SVG drawings can be dynamic and interactive. The Document Object Model (DOM) for SVG, which includes the full XML DOM, allows for straightforward and efficient vector graphics animation via scripting. A rich set of event handlers such as onmouseover and onclick can be assigned to any SVG graphical object. Because of its compatibility and leveraging of other Web standards, features like scripting can be done on SVG elements and other XML elements from different namespaces simultaneously within the same Web page.⁹

The specific use of SVG in a submission should be discussed with the regulatory authority.

⁹ This description of SVG is from w3c Web page <u>http://www.w3c.org/graphics/svg</u>

Appendix 8: XML eCTD DTD

<?xml version='1.0' encoding='UTF-8' ?>

<!-- Changes prior to Version 1.00 captured in file "Historical Changes.txt

ICH eCTD DTD Version 1.0 - March 6, 2002 Version 3.0 - Sept 11, 2002 Version 3.0 - Oct 1, 2002 Version 30 - Oct 8, 2002

Removed Generated by XML Authority

Changed m2-6-nonclinical-written-and-tabulated-summary to ...-summaries Changed m2-7-1-summary-of-biopharmaceutic... to ...-studies-... Changed m2-7-5-references to m2-7-5-literature-references Moved m4-2-4 and m4-2-5 under m4-2-3 (6-7) and renumbered sub-elements Made m3-2-a-1 and m3-2-a-2 repeatable (manufacturer, substance, dosageform, product-name Added attribute "manufacturer" to m3-2-p Changed m3-2-a-3-novel-excipients to m3-2-a-3-excipients Changed version attribute to "3.0" Removed the following elements 10/1/2002

```
m3-2-p-2-1-components-of-the-drug-product?, m3-2-p-2-2-drug-product?, m3-2-p-2-3-manufacturing-process-development?, m3-2-p-2-4-container-closure-system?, m3-2-p-2-5-microbiological-attributes?, m3-2-p-2-6-compatibility 
<!ELEMENT m3-2-p-2-1-components-of-the-drug-product ((leaf | node-extension)?)>
```

===== -->

```
<!ATTLIST m3-2-p-2-1-components-of-the-drug-product %att; > 
<!ELEMENT m3-2-p-2-2-drug-product ((leaf | node-extension)*)>
```

<!ATTLIST m3-2-p-2-2-drug-product %att; > <!ELEMENT m3-2-p-2-3-manufacturing-process-development ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-2-3-manufacturing-process-development %att; > <!ELEMENT m3-2-p-2-4-container-closure-system ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-2-4-container-closure-system %att; > <!ELEMENT m3-2-p-2-5-microbiological-attributes ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-2-5-microbiological-attributes %att; > <!ELEMENT m3-2-p-2-6-compatibility ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-2-6-compatibility %att; > End of removed elements --> <!ENTITY % att " ID ID #IMPLIED

xml:lang CDATA #IMPLIED">

<!ELEMENT ectd:ectd (m1-administrative-information-and-prescribing-information?, m2-commontechnical-document-summaries?, m3-quality?, m4-nonclinical-study-reports?, m5-clinical-studyreports?)>

= --->

== -->

= -->

<!ATTLIST ectd:ectd xmlns:ectd CDATA #FIXED 'http://www.ich.org/ectd' xmlns:xlink CDATA #FIXED 'http://www.w3c.org/1999/xlink' xml:lang CDATA #IMPLIED dtd-version CDATA #FIXED '3.00' >

<!-- Leaf content -->

<!ELEMENT leaf (title , link-text?)>

<!ATTLIST leaf ID ID #IMPLIED application-version CDATA #IMPLIED version CDATA #IMPLIED font-library CDATA #IMPLIED operation (new | append | replace | delete) #REQUIRED modified-file CDATA #IMPLIED checksum CDATA #REQUIRED checksum-type CDATA #REQUIRED keywords CDATA #IMPLIED xmlns:xlink CDATA #FIXED 'http://www.w3c.org/1999/xlink' xlink:type CDATA #FIXED 'simple' xlink:role CDATA #IMPLIED xlink:href CDATA #IMPLIED xlink:show (new | replace | embed | other | none) #IMPLIED xlink:actuate (onLoad | onRequest | other | none) #IMPLIED CDATA #IMPLIED > xml:lang

<!ELEMENT title (#PCDATA)>

<!ATTLIST title ID ID #IMPLIED > <!ELEMENT link-text (#PCDATA | xref)*>

```
<!ATTLIST link-text ID ID #IMPLIED >
<!ELEMENT xref EMPTY>
```

<!ATTLIST xref ID ID #IMPLIED xmlns:xlink CDATA #FIXED 'http://www.w3c.org/1999/xlink' xlink:type CDATA #FIXED 'simple' xlink:role CDATA #IMPLIED xlink:title CDATA #REQUIRED xlink:href CDATA #REQUIRED xlink:show (new | replace | embed | other | none) #IMPLIED xlink:actuate (onLoad | onRequest | other | none) #IMPLIED > <!ELEMENT node-extension (title, (leaf | node-extension)+)>

<!ATTLIST node-extension ID ID #IMPLIED xml:lang CDATA #IMPLIED >

<!-- CTD Backbone structures -->

<! ELEMENT m1-administrative-information-and-prescribing-information (leaf*)>

<!ATTLIST m1-administrative-information-and-prescribing-information %att; >

<!--=

<!--=

<!ELEMENT m2-common-technical-document-summaries (leaf*, m2-2-introduction?, m2-3-quality-overall-summary?, m2-4-nonclinical-overview?, m2-5-clinical-overview?, m2-6-nonclinical-written-and-tabulated-summaries?, m2-7-clinical-summary?)>

<!ATTLIST m2-common-technical-document-summaries %att; > <!ELEMENT m2-2-introduction ((leaf | node-extension)*)>

<!ATTLIST m2-2-introduction %att; > <!ELEMENT m2-3-quality-overall-summary (leaf*, m2-3-introduction?, m2-3-s-drug-substance*, m2-3p-drug-product*, m2-3-a-appendices?, m2-3-r-regional-information?)>

<!ATTLIST m2-3-quality-overall-summary %att; > <!ELEMENT m2-3-introduction ((leaf | node-extension)*)>

<!ATTLIST m2-3-introduction %att; > <!ELEMENT m2-3-s-drug-substance ((leaf | node-extension)*)>

<!ATTLIST m2-3-s-drug-substance %att; substance CDATA #REQUIRED manufacturer CDATA #REQUIRED > <!ELEMENT m2-3-p-drug-product ((leaf | node-extension)*)>

<!ATTLIST m2-3-p-drug-product %att; product-name CDATA #IMPLIED dosageform CDATA #IMPLIED manufacturer CDATA #IMPLIED > <!ELEMENT m2-3-a-appendices ((leaf | node-extension)*)>

<!ATTLIST m2-3-a-appendices %att; > <!ELEMENT m2-3-r-regional-information ((leaf | node-extension)*)>

<!ATTLIST m2-3-r-regional-information %att; > <!ELEMENT m2-4-nonclinical-overview ((leaf | node-extension)*)>

<!ATTLIST m2-4-nonclinical-overview %att; > <!ELEMENT m2-5-clinical-overview ((leaf | node-extension)*)>

<!ATTLIST m2-5-clinical-overview %att; >

<!ELEMENT m2-6-nonclinical-written-and-tabulated-summaries (leaf*, m2-6-1-introduction?, m2-6-2-pharmacology-written-summary?, m2-6-3-pharmacology-tabulated-summary?, m2-6-4-pharmacokinetics-written-summary?, m2-6-5-pharmacokinetics-tabulated-summary?, m2-6-6-toxicology-written-summary?, m2-6-7-toxicology-tabulated-summary?)>

<!ATTLIST m2-6-nonclinical-written-and-tabulated-summaries %att; > <!ELEMENT m2-6-1-introduction ((leaf | node-extension)*)>

<!ATTLIST m2-6-1-introduction %att; > <!ELEMENT m2-6-2-pharmacology-written-summary ((leaf | node-extension)*)>

<!ATTLIST m2-6-2-pharmacology-written-summary %att; > <!ELEMENT m2-6-3-pharmacology-tabulated-summary ((leaf | node-extension)*)>

<!ATTLIST m2-6-3-pharmacology-tabulated-summary %att; > <!ELEMENT m2-6-4-pharmacokinetics-written-summary ((leaf | node-extension)*)>

<!ATTLIST m2-6-4-pharmacokinetics-written-summary %att; >

<!ELEMENT m2-6-5-pharmacokinetics-tabulated-summary ((leaf | node-extension)*)>

<!ATTLIST m2-6-5-pharmacokinetics-tabulated-summary %att; > <!ELEMENT m2-6-6-toxicology-written-summary ((leaf | node-extension)*)>

<!ATTLIST m2-6-6-toxicology-written-summary %att; > <!ELEMENT m2-6-7-toxicology-tabulated-summary ((leaf | node-extension)*)>

<!ATTLIST m2-7-clinical-summary %att; > <!ELEMENT m2-7-1-summary-of-biopharmaceutic-studies-and-associated-analytical-methods ((leaf | node-extension)*)>

<!ATTLIST m2-7-1-summary-of-biopharmaceutic-studies-and-associated-analytical-methods %att; > <!ELEMENT m2-7-2-summary-of-clinical-pharmacology-studies ((leaf | node-extension)*)>

<!ATTLIST m2-7-2-summary-of-clinical-pharmacology-studies %att; > <!ELEMENT m2-7-3-summary-of-clinical-efficacy ((leaf | node-extension)*)>

<!ATTLIST m2-7-3-summary-of-clinical-efficacy %att; indication CDATA #IMPLIED > <!ELEMENT m2-7-4-summary-of-clinical-safety ((leaf | node-extension)*)>

<!ATTLIST m2-7-4-summary-of-clinical-safety %att; > <!ELEMENT m2-7-5-literature-references ((leaf | node-extension)*)>

<!ATTLIST m2-7-5-literature-references %att; > <!ELEMENT m2-7-6-synopses-of-individual-studies ((leaf | node-extension)*)>

<!ATTLIST m2-7-6-synopses-of-individual-studies %att; > <!ELEMENT m3-quality (leaf*, m3-2-body-of-data?, m3-3-literature-references?)>

<!ATTLIST m3-quality %att; > <!ELEMENT m3-2-body-of-data (leaf*, m3-2-s-drug-substance*, m3-2-p-drug-product*, m3-2-aappendices?, m3-2-r-regional-information?)>

<!ATTLIST m3-2-body-of-data %att; > <!ELEMENT m3-2-s-drug-substance (leaf*, m3-2-s-1-general-information?, m3-2-s-2-manufacture?, m3-2-s-3-characterisation?, m3-2-s-4-control-of-drug-substance?, m3-2-s-5-reference-standards-ormaterials?, m3-2-s-6-container-closure-system?, m3-2-s-7-stability?)>

<!ATTLIST m3-2-s-drug-substance %att; substance CDATA #REQUIRED manufacturer CDATA #REQUIRED > <!ELEMENT m3-2-s-1-general-information (leaf*, m3-2-s-1-1-nomenclature?, m3-2-s-1-2-structure?, m3-2-s-1-3-general-properties?)>

<!ATTLIST m3-2-s-1-general-information %att; > <!ELEMENT m3-2-s-1-1-nomenclature ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-1-1-nomenclature %att; >

<!ELEMENT m3-2-s-1-2-structure ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-1-2-structure %att; > <!ELEMENT m3-2-s-1-3-general-properties ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-1-3-general-properties %att; >

<!ELEMENT m3-2-s-2-manufacture (leaf*, m3-2-s-2-1-manufacturer?, m3-2-s-2-2-description-of-manufacturing-process-and-process-controls?, m3-2-s-2-3-control-of-materials?, m3-2-s-2-4-controls-of-critical-steps-and-intermediates?, m3-2-s-2-5-process-validation-and-or-evaluation?, m3-2-s-2-6-manufacturing-process-development?)>

<!ATTLIST m3-2-s-2-manufacture %att; > <!ELEMENT m3-2-s-2-1-manufacturer ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-2-1-manufacturer %att; > <!ELEMENT m3-2-s-2-2-description-of-manufacturing-process-and-process-controls ((leaf | nodeextension)*)>

<!ATTLIST m3-2-s-2-2-description-of-manufacturing-process-and-process-controls %att; > <!ELEMENT m3-2-s-2-3-control-of-materials ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-2-3-control-of-materials %att; > <!ELEMENT m3-2-s-2-4-controls-of-critical-steps-and-intermediates ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-2-4-controls-of-critical-steps-and-intermediates %att; > <!ELEMENT m3-2-s-2-5-process-validation-and-or-evaluation ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-2-5-process-validation-and-or-evaluation %att; > <!ELEMENT m3-2-s-2-6-manufacturing-process-development ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-2-6-manufacturing-process-development %att; > <!ELEMENT m3-2-s-3-characterisation (leaf*, m3-2-s-3-1-elucidation-of-structure-and-othercharacteristics?, m3-2-s-3-2-impurities?)>

<!ATTLIST m3-2-s-3-characterisation %att; > <!ELEMENT m3-2-s-3-1-elucidation-of-structure-and-other-characteristics ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-3-1-elucidation-of-structure-and-other-characteristics %att; > <!ELEMENT m3-2-s-3-2-impurities ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-3-2-impurities %att; > <!ELEMENT m3-2-s-4-control-of-drug-substance (leaf*, m3-2-s-4-1-specification?, m3-2-s-4-2analytical-procedures?, m3-2-s-4-3-validation-of-analytical-procedures?, m3-2-s-4-4-batch-analyses?, m3-2-s-4-5-justification-of-specification?)>

<!ATTLIST m3-2-s-4-control-of-drug-substance %att; > <!ELEMENT m3-2-s-4-1-specification ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-4-1-specification %att; > <!ELEMENT m3-2-s-4-2-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-4-2-analytical-procedures %att; > <!ELEMENT m3-2-s-4-3-validation-of-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-4-3-validation-of-analytical-procedures %att; > <!ELEMENT m3-2-s-4-4-batch-analyses ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-4-4-batch-analyses %att; > <!ELEMENT m3-2-s-4-5-justification-of-specification ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-4-5-justification-of-specification %att; > <!ELEMENT m3-2-s-5-reference-standards-or-materials ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-5-reference-standards-or-materials %att; > <!ELEMENT m3-2-s-6-container-closure-system ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-6-container-closure-system %att; > <!ELEMENT m3-2-s-7-stability (leaf*, m3-2-s-7-1-stability-summary-and-conclusions?, m3-2-s-7-2post-approval-stability-protocol-and-stability-commitment?, m3-2-s-7-3-stability-data?)>

<!ATTLIST m3-2-s-7-stability %att; > <!ELEMENT m3-2-s-7-1-stability-summary-and-conclusions ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-7-1-stability-summary-and-conclusions %att; > <!ELEMENT m3-2-s-7-2-post-approval-stability-protocol-and-stability-commitment ((leaf | nodeextension)*)>

<!ATTLIST m3-2-s-7-2-post-approval-stability-protocol-and-stability-commitment %att; > <!ELEMENT m3-2-s-7-3-stability-data ((leaf | node-extension)*)>

<!ATTLIST m3-2-s-7-3-stability-data %att; >

<!ELEMENT m3-2-p-drug-product (leaf*, m3-2-p-1-description-and-composition-of-the-drug-product?, m3-2-p-2-pharmaceutical-development?, m3-2-p-3-manufacture?, m3-2-p-4-control-of-excipients*, m3-2-p-5-control-of-drug-product?, m3-2-p-6-reference-standards-or-materials?, m3-2-p-7-container-closure-system?, m3-2-p-8-stability?)>

<!ATTLIST m3-2-p-drug-product %att; product-name CDATA #IMPLIED dosageform CDATA #IMPLIED manufacturer CDATA #IMPLIED > <!ELEMENT m3-2-p-1-description-and-composition-of-the-drug-product ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-1-description-and-composition-of-the-drug-product %att; > <!ELEMENT m3-2-p-2-pharmaceutical-development ((leaf | node-extension)*)>

< !ATTLIST m3-2-p-2-pharmaceutical-development %att; > < !ELEMENT m3-2-p-3-manufacture (leaf*, m3-2-p-3-1-manufacturers?, m3-2-p-3-2-batch-formula?, m3-2-p-3-3-description-of-manufacturing-process-and-process-controls?, m3-2-p-3-4-controls-of-critical-steps-and-intermediates?, m3-2-p-3-5-process-validation-and-or-evaluation?) >

<!ATTLIST m3-2-p-3-manufacture %att; > <!ELEMENT m3-2-p-3-1-manufacturers ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-3-1-manufacturers %att; > <!ELEMENT m3-2-p-3-2-batch-formula ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-3-2-batch-formula %att; > <!ELEMENT m3-2-p-3-3-description-of-manufacturing-process-and-process-controls ((leaf | nodeextension)*)>

<!ATTLIST m3-2-p-3-3-description-of-manufacturing-process-and-process-controls %att; > <!ELEMENT m3-2-p-3-4-controls-of-critical-steps-and-intermediates ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-3-4-controls-of-critical-steps-and-intermediates %att; > <!ELEMENT m3-2-p-3-5-process-validation-and-or-evaluation ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-3-5-process-validation-and-or-evaluation %att; > <!ELEMENT m3-2-p-4-control-of-excipients (leaf*, m3-2-p-4-1-specifications?, m3-2-p-4-2-analyticalprocedures?, m3-2-p-4-3-validation-of-analytical-procedures?, m3-2-p-4-4-justification-of-specifications? , m3-2-p-4-5-excipients-of-human-or-animal-origin?, m3-2-p-4-6-novel-excipients?)>

<!ATTLIST m3-2-p-4-control-of-excipients %att; excipient CDATA #IMPLIED > <!ELEMENT m3-2-p-4-1-specifications ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-1-specifications %att; > <!ELEMENT m3-2-p-4-2-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-2-analytical-procedures %att; > <!ELEMENT m3-2-p-4-3-validation-of-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-3-validation-of-analytical-procedures %att; > <!ELEMENT m3-2-p-4-4-justification-of-specifications ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-4-justification-of-specifications %att; > <!ELEMENT m3-2-p-4-5-excipients-of-human-or-animal-origin ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-5-excipients-of-human-or-animal-origin %att; > <!ELEMENT m3-2-p-4-6-novel-excipients ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-4-6-novel-excipients %att; > <!ELEMENT m3-2-p-5-control-of-drug-product (leaf*, m3-2-p-5-1-specifications?, m3-2-p-5-2analytical-procedures?, m3-2-p-5-3-validation-of-analytical-procedures?, m3-2-p-5-4-batch-analyses?, m3-2-p-5-5-characterisation-of-impurities?, m3-2-p-5-6-justification-of-specifications?)>

<!ATTLIST m3-2-p-5-control-of-drug-product %att; > <!ELEMENT m3-2-p-5-1-specifications ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-1-specifications %att; > <!ELEMENT m3-2-p-5-2-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-2-analytical-procedures %att; > <!ELEMENT m3-2-p-5-3-validation-of-analytical-procedures ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-3-validation-of-analytical-procedures %att; > <!ELEMENT m3-2-p-5-4-batch-analyses ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-4-batch-analyses %att; > <!ELEMENT m3-2-p-5-5-characterisation-of-impurities ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-5-characterisation-of-impurities %att; > <!ELEMENT m3-2-p-5-6-justification-of-specifications ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-5-6-justification-of-specifications %att; > <!ELEMENT m3-2-p-6-reference-standards-or-materials ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-6-reference-standards-or-materials %att; > <!ELEMENT m3-2-p-7-container-closure-system ((leaf | node-extension)*)> <!ATTLIST m3-2-p-7-container-closure-system %att; > <!ELEMENT m3-2-p-8-stability (leaf*, m3-2-p-8-1-stability-summary-and-conclusion?, m3-2-p-8-2post-approval-stability-protocol-and-stability-commitment?, m3-2-p-8-3-stability-data?)>

<!ATTLIST m3-2-p-8-stability %att; > <!ELEMENT m3-2-p-8-1-stability-summary-and-conclusion ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-8-1-stability-summary-and-conclusion %att; > <!ELEMENT m3-2-p-8-2-post-approval-stability-protocol-and-stability-commitment ((leaf | nodeextension)*)>

<!ATTLIST m3-2-p-8-2-post-approval-stability-protocol-and-stability-commitment %att; > <!ELEMENT m3-2-p-8-3-stability-data ((leaf | node-extension)*)>

<!ATTLIST m3-2-p-8-3-stability-data %att; > <!ELEMENT m3-2-a-appendices (leaf* , m3-2-a-1-facilities-and-equipment* , m3-2-a-2-adventitious-agents-safety-evaluation* , m3-2-a-3-excipients?)>

<!ATTLIST m3-2-a-appendices %att; > <!ELEMENT m3-2-a-1-facilities-and-equipment ((leaf | node-extension)*)>

<!ATTLIST m3-2-a-1-facilities-and-equipment %att; manufacturer CDATA #IMPLIED substance CDATA #IMPLIED dosageform CDATA #IMPLIED product-name CDATA #IMPLIED > <!ELEMENT m3-2-a-2-adventitious-agents-safety-evaluation ((leaf | node-extension)*)>

<!ATTLIST m3-2-a-2-adventitious-agents-safety-evaluation %att; manufacturer CDATA #IMPLIED substance CDATA #IMPLIED dosageform CDATA #IMPLIED product-name CDATA #IMPLIED > <!ELEMENT m3-2-a-3-excipients ((leaf | node-extension)*)>

<!ATTLIST m3-2-a-3-excipients %att; > <!ELEMENT m3-2-r-regional-information ((leaf | node-extension)*)>

<!ATTLIST m3-2-r-regional-information %att; > <!ELEMENT m3-3-literature-references ((leaf | node-extension)*)>

<!ATTLIST m3-3-literature-references %att; > <!ELEMENT m4-nonclinical-study-reports (leaf*, m4-2-study-reports?, m4-3-literature-references?)>

<!ATTLIST m4-nonclinical-study-reports %att; > <!ELEMENT m4-2-study-reports (leaf*, m4-2-1-pharmacology?, m4-2-2-pharmacokinetics?, m4-2-3-toxicology?)>

<!ATTLIST m4-2-study-reports %att; > <!ELEMENT m4-2-1-pharmacology (leaf*, m4-2-1-1-primary-pharmacodynamics?, m4-2-1-2secondary-pharmacodynamics?, m4-2-1-3-safety-pharmacology?, m4-2-1-4-pharmacodynamic-druginteractions?)>

<!ATTLIST m4-2-1-pharmacology %att; > <!ELEMENT m4-2-1-1-primary-pharmacodynamics ((leaf | node-extension)*)> <!ATTLIST m4-2-1-1-primary-pharmacodynamics %att; > <!ELEMENT m4-2-1-2-secondary-pharmacodynamics ((leaf | node-extension)*)>

<!ATTLIST m4-2-1-2-secondary-pharmacodynamics %att; > <!ELEMENT m4-2-1-3-safety-pharmacology ((leaf | node-extension)*)>

<!ATTLIST m4-2-1-3-safety-pharmacology %att; > <!ELEMENT m4-2-1-4-pharmacodynamic-drug-interactions ((leaf | node-extension)*)>

<!ATTLIST m4-2-1-4-pharmacodynamic-drug-interactions %att; > <!ELEMENT m4-2-2-pharmacokinetics (leaf*, m4-2-2-1-analytical-methods-and-validation-reports?, m4-2-2-2-absorption?, m4-2-2-3-distribution?, m4-2-2-4-metabolism?, m4-2-2-5-excretion?, m4-2-2-6-pharmacokinetic-drug-interactions?, m4-2-2-7-other-pharmacokinetic-studies?)>

<!ATTLIST m4-2-2-pharmacokinetics %att; > <!ELEMENT m4-2-2-1-analytical-methods-and-validation-reports ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-1-analytical-methods-and-validation-reports %att; > <!ELEMENT m4-2-2-2-absorption ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-2-absorption %att; > <!ELEMENT m4-2-2-3-distribution ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-3-distribution %att; > <!ELEMENT m4-2-2-4-metabolism ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-4-metabolism %att; > <!ELEMENT m4-2-2-5-excretion ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-5-excretion %att; > <!ELEMENT m4-2-2-6-pharmacokinetic-drug-interactions ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-6-pharmacokinetic-drug-interactions %att; > <!ELEMENT m4-2-2-7-other-pharmacokinetic-studies ((leaf | node-extension)*)>

<!ATTLIST m4-2-2-7-other-pharmacokinetic-studies %att; > <!ELEMENT m4-2-3-toxicology (leaf*, m4-2-3-1-single-dose-toxicity?, m4-2-3-2-repeat-dose-toxicity?, m4-2-3-3-genotoxicity?, m4-2-3-4-carcinogenicity?, m4-2-3-5-reproductive-and-developmental-toxicity? , m4-2-3-6-local-tolerance?, m4-2-3-7-other-toxicity-studies?)>

<!ATTLIST m4-2-3-toxicology %att; > <!ELEMENT m4-2-3-1-single-dose-toxicity ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-1-single-dose-toxicity %att; > <!ELEMENT m4-2-3-2-repeat-dose-toxicity ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-2-repeat-dose-toxicity %att; > <!ELEMENT m4-2-3-3-genotoxicity (leaf*, m4-2-3-3-1-in-vitro?, m4-2-3-3-2-in-vivo?)>

<!ATTLIST m4-2-3-3-genotoxicity %att; > <!ELEMENT m4-2-3-3-1-in-vitro ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-3-1-in-vitro %att; > <!ELEMENT m4-2-3-3-2-in-vivo ((leaf | node-extension)*)> <!ATTLIST m4-2-3-3-2-in-vivo %att; >

 $<\!\!! ELEMENT m4-2-3-4-carcinogenicity (leaf* , m4-2-3-4-1-long-term-studies? , m4-2-3-4-2-short-or-medium-term-studies? , m4-2-3-4-3-other-studies?) \!>$

<!ATTLIST m4-2-3-4-carcinogenicity %att; > <!ELEMENT m4-2-3-4-1-long-term-studies ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-4-1-long-term-studies %att; > <!ELEMENT m4-2-3-4-2-short-or-medium-term-studies ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-4-2-short-or-medium-term-studies %att; > <!ELEMENT m4-2-3-4-3-other-studies ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-4-3-other-studies %att; >

<!ELEMENT m4-2-3-5-reproductive-and-developmental-toxicity (leaf*, m4-2-3-5-1-fertility-and-early-embryonic-development?, m4-2-3-5-2-embryo-fetal-development?, m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function?, m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated?)>

<!ATTLIST m4-2-3-5-reproductive-and-developmental-toxicity %att; > <!ELEMENT m4-2-3-5-1-fertility-and-early-embryonic-development ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-5-1-fertility-and-early-embryonic-development %att; > <!ELEMENT m4-2-3-5-2-embryo-fetal-development ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-5-2-embryo-fetal-development %att; > <!ELEMENT m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-5-3-prenatal-and-postnatal-development-including-maternal-function %att; > <!ELEMENT m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-further-evaluated ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-5-4-studies-in-which-the-offspring-juvenile-animals-are-dosed-and-or-furtherevaluated %att; > <!ELEMENT m4-2-3-6-local-tolerance ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-6-local-tolerance %att; > <!ELEMENT m4-2-3-7-other-toxicity-studies (leaf*, m4-2-3-7-1-antigenicity?, m4-2-3-7-2immunotoxicity?, m4-2-3-7-3-mechanistic-studies?, m4-2-3-7-4-dependence?, m4-2-3-7-5-metabolites?, m4-2-3-7-6-impurities?, m4-2-3-7-7-other?)>

<!ATTLIST m4-2-3-7-other-toxicity-studies %att; > <!ELEMENT m4-2-3-7-1-antigenicity ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-1-antigenicity %att; > <!ELEMENT m4-2-3-7-2-immunotoxicity ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-2-immunotoxicity %att; > <!ELEMENT m4-2-3-7-3-mechanistic-studies ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-3-mechanistic-studies %att; > <!ELEMENT m4-2-3-7-4-dependence ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-4-dependence %att; > <!ELEMENT m4-2-3-7-5-metabolites ((leaf | node-extension)*)> <!ATTLIST m4-2-3-7-5-metabolites %att; > <!ELEMENT m4-2-3-7-6-impurities ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-6-impurities %att; > <!ELEMENT m4-2-3-7-7-other ((leaf | node-extension)*)>

<!ATTLIST m4-2-3-7-7-other %att; > <!ELEMENT m4-3-literature-references ((leaf | node-extension)*)>

<!ATTLIST m4-3-literature-references %att; > <!ELEMENT m5-clinical-study-reports (leaf*, m5-2-tabular-listing-of-all-clinical-studies?, m5-3-clinical-study-reports?)>

<!ATTLIST m5-clinical-study-reports %att; > <!ELEMENT m5-2-tabular-listing-of-all-clinical-studies ((leaf | node-extension)*)>

<!ATTLIST m5-2-tabular-listing-of-all-clinical-studies %att; >

<!ELEMENT m5-3-clinical-study-reports (leaf*, m5-3-1-reports-of-biopharmaceutic-studies?, m5-3-2-reports-of-studies-pertinent-to-pharmacokinetics-using-human-biomaterials?, m5-3-3-reports-of-human-pharmacokinetics-pk-studies?, m5-3-4-reports-of-human-pharmacodynamics-pd-studies?, m5-3-5-reports-of-efficacy-and-safety-studies*, m5-3-6-reports-of-postmarketing-experience?, m5-3-7-case-report-forms-and-individual-patient-listings?)>

<!ATTLIST m5-3-clinical-study-reports %att; > <!ELEMENT m5-3-1-reports-of-biopharmaceutic-studies (leaf*, m5-3-1-1-bioavailability-study-reports?, m5-3-1-2-comparative-ba-and-bioequivalence-study-reports?, m5-3-1-3-in-vitro-in-vivo-correlation-study-reports?, m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies?)>

<!ATTLIST m5-3-1-reports-of-biopharmaceutic-studies %att; > <!ELEMENT m5-3-1-1-bioavailability-study-reports ((leaf | node-extension)*)>

<!ATTLIST m5-3-1-1-bioavailability-study-reports %att; > <!ELEMENT m5-3-1-2-comparative-ba-and-bioequivalence-study-reports ((leaf | node-extension)*)>

<!ATTLIST m5-3-1-2-comparative-ba-and-bioequivalence-study-reports %att; > <!ELEMENT m5-3-1-3-in-vitro-in-vivo-correlation-study-reports ((leaf | node-extension)*)>

<!ATTLIST m5-3-1-3-in-vitro-in-vivo-correlation-study-reports %att; > <!ELEMENT m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies ((leaf | node-extension)*)>

<!ATTLIST m5-3-1-4-reports-of-bioanalytical-and-analytical-methods-for-human-studies %att; > <!ELEMENT m5-3-2-reports-of-studies-pertinent-to-pharmacokinetics-using-human-biomaterials (leaf*, m5-3-2-1-plasma-protein-binding-study-reports?, m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies?, m5-3-2-3-reports-of-studies-using-other-human-biomaterials?)>

<!ATTLIST m5-3-2-reports-of-studies-pertinent-to-pharmacokinetics-using-human-biomaterials %att; > <!ELEMENT m5-3-2-1-plasma-protein-binding-study-reports ((leaf | node-extension)*)>

<!ATTLIST m5-3-2-1-plasma-protein-binding-study-reports %att; > <!ELEMENT m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies ((leaf | nodeextension)*)>

<!ATTLIST m5-3-2-2-reports-of-hepatic-metabolism-and-drug-interaction-studies %att; > <!ELEMENT m5-3-2-3-reports-of-studies-using-other-human-biomaterials ((leaf | node-extension)*)>

<!ATTLIST m5-3-2-3-reports-of-studies-using-other-human-biomaterials %att; > <!ELEMENT m5-3-3-reports-of-human-pharmacokinetics-pk-studies (leaf*, m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports?, m5-3-3-2-patient-pk-and-initial-tolerability-study-reports?, m5-3-3-3-intrinsic-factor-pk-study-reports?, m5-3-3-4-extrinsic-factor-pk-study-reports?, m5-3-3-5-population-pk-study-reports?)>

<!ATTLIST m5-3-3-reports-of-human-pharmacokinetics-pk-studies %att; > <!ELEMENT m5-3-3-1-healthy-subject-pk-and-initial-tolerability-study-reports ((leaf | node-extension)*)>

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indication CDATA #IMPLIED >

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Appendix 9: Glossary

This glossary provides the definition of terms associated with the eCTD.

Architecture

A general term for the design and construction of computer systems, including technical infrastructure, information (data), and applications.

ASCII

American Standard Code for Information Interchange. A specification for representing text as computerreadable information.

Bookmark

A bookmark is a type of link with representative that links to a different view or page in a document.

Browser

A program that allows the user to read hypertext, to view contents of Web pages, and to navigate from one page to another (e.g., Netscape Navigator, Mosaic, Microsoft Internet Explorer.)

Common Technical Document (CTD)

A harmonized format for a regulatory dossier that is considered acceptable in Japan, Europe, the United States and Canada.

Decryption

To reverse encryption.

Directory (see also Folder)

The operating system method of organizing and providing access to individual files. Also called a folder.

DTD

Document Type Definition. A hierarchical organization or representation of the information contents of a document utilized by SGML or XML.

eCTD

The electronic format of the ICH Common Technical Document

Encryption

The process of reversibly confusing text or data using a secret formula.

ESTRI

Electronic Standards for the Transfer of Regulatory Information.

EWG

Expert Working Group.

Folder (see also Directory)

The operating system method of organizing and providing access to individual files. Also called a directory.

HTML

Hypertext Markup Language. Commonly used to format Web pages.

Hypertext

A system that enables links to be established between specific words or figures in a document to other text, tables or image allowing quick access to the linked items (such as on the World Wide Web).

ICH

International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use.

Infrastructure

The basic support services for computing; the hardware, operating system, and network on which applications and data are stored and on which the database management systems run.

Internet

The world-wide network of computers for accessing, sending, sharing, and transferring information between sites at different locations. It is uncontrolled and unadministered, and when you connect to the Internet, you actually become a part of it.

ISO

International Standards Organization, founded in 1946, it is the principal international standards-setting organization.

Leaf

The eCTD DTD XML element that describes the content to be provided. The leaf consists of a file and the meta-data associated with that file. Such files are placed in a directory structure that is similar to branches of a tree.

Logical Document

One or more CTD table of contents sections that together contain the minimum amount of information to be exchanged. Ideally, this is a single physical file.

M2

Multidisciplinary Group 2 (ESTRI) of ICH.

Network

A communication system that connects different computers and enables them to share peripherals such as printers, disk drives and databases. Users (clients) can access applications and databases connected by the network.

Node Extension

The extension of the definition of an element beneath a defined table of contents tag.

PDF

Portable Document Format, a proprietary (Adobe Systems) *de facto* standard for the electronic transfer of documents.

SGML

Standardized Generalized Markup Language. An ISO standard for describing structured information in a platform independent manner.

Software or Software Application

Computer program or application. There are two principal types: system software (e.g., computer operating system or a utility program) (sometimes called a driver) for printing) and application software (e.g., an accounts package or CAD program.)

Standard

A technical specification that addresses a business requirement, has been implemented in viable commercial products, and, to the extent practical, complies with recognized standards organizations such as ISO.

Web page

Any page on the World Wide Web. The page usually offers the reader access to other topics of interest.

World Wide Web (WWW)

Segment of the Internet offering point-and-click (hypertext) access to information (as text, image or sound) on an enormous number of topics from around the world.

XML

Extensible Markup Language. An ISO standard for describing structured information in a platformindependent manner.