

GCC Module 1 Specifications

Version 1.2

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Directorate General of Pharmaceutical Affairs & Drug Control

Ministry of Health

Sultanate of Oman

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1 Introduction

This document specifies Module 1 of the electronic Common Technical Document (eCTD) for Gulf Cooperation Council (GCC).

This document should be read together with the ICH eCTD Specification to prepare a valid eCTD submission for GCC. The latest version of the ICH eCTD Specification can be found at: <http://estri.ich.org/ectd>

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, life cycle management and archiving 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.

1.1. 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.

1.2. 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 regional Administrative Information and Prescribing Information is

described in Module 1. The CTD does not describe the content of module 1 because it is regional specific, 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 life cycle of the product, such as variations and amendments.

1.3. Technical Requirements

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

- Copying and pasting
- Viewing and printing of documents
- Annotation of documentation
- Facilitating the exporting of information to databases
- Searching within and across applications
- Navigating throughout the eCTD and its subsequent amendments/variations

1.4. 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

1.5. Glossary

A brief glossary of terms (for the purpose of this document only) is indicated below:

Applicant	A pharmaceutical company or its agent that is submitting information in support of an <i>application</i> .
Application	A collection of documents compiled by a pharmaceutical company or its agent in compliance with guidelines in order to seek a marketing authorization or any amendments thereof.
CTD	Common Technical Document
DTD	Document Type Definition
eCTD	electronic Common Technical Document An <i>eCTD application</i> may comprise a number of <i>sequences</i> .
EOI	Extension of Indication
EWG	Expert Working Group ; charged with developing a harmonised guideline that meets the objectives in the Concept Paper and Business Plan.
GCC	Gulf Cooperation Council
ICH	International Conference on Harmonisation of technical requirements for registration of pharmaceuticals for human use
JPEG	Joint Photographic Experts Group
PDF	Portable Document Format
PNG	Portable Network Graphics
Procedure	A registration procedure for the authorization of medicinal products
Regulatory activity	A collection of sequences covering the start to the end of a specific business process, e.g. an initial MA application or Type II variation. It is a concept used in some review tools to group together several business related sequences.
RTF	Rich Text Format
Submission	A single set of information and/or documents supplied by the applicant as a part of, or the complete, Application. In the context of eCTD, this is equivalent to ' <i>sequence</i> '
SVG	Scalable Vector Graphics
ToC	Table of Contents
XML	eXtensible Markup Language
XSL	eXtensible StyleSheet Language

2 GCC Module 1: Regional Information

The ICH Common Technical Document (CTD) specifies that Module 1 should contain region specific administrative and product information. The content and numbering of Module 1 for GCC is specified in the latest version of the *Guidance for Submission*

It should be noted that for subsequent submissions in the lifecycle of a medicinal product, e.g. for a variation, not all of the above mentioned kind of documents need be included in Module 1. In addition, other items such as the rationale for variations and renewal documentation could also be included in Module 1.

This document describes only the region-specific information that is common to all eCTD submissions in the Gulf Cooperation countries.

2.1. General Considerations

Typically, an eCTD application will cover all strengths of a product under one invented name.

2.1.1 Document granularity

Submissions are a collection of documents and each document should be provided as a separate file. The detailed structure of the eCTD should conform to the ICH Granularity Document and GCC M1 specifications.

2.1.2 Correspondence

In addition to the eCTD application information may need to be exchanged to assist the processing or handling of the application. Not all that correspondence should be included in the eCTD. This is because the eCTD exchange is currently one way only, from applicant to Agency, and not all correspondence is directly relevant to the application dossier.

2.1.3 Sequence Numbers

Sequence numbers are used to differentiate between different submissions of the same application over the life cycle of the product.

2.1.4 Bookmarks and hypertext links

Navigation through an electronic submission is greatly enhanced by the intelligent use of bookmarks and hypertext links. ICH guidance states “It is expected that any document that has a Table of Contents (TOC) will have bookmarks (see the eCTD specification for details). Documents without TOCs should have bookmarks included where it aids in the navigation around the document content. For example, a 4 page document summarizing findings could require bookmarks to aid navigation. However, a 300 page file containing a single data listing might not require bookmarks as there is no further internal structure. Please consult national guidance documents for further details.”

In general terms, bookmarks and hyperlinks should be used to aid navigation. The overuse of hyperlinks may confuse rather than help assessors and may cause problems later in life cycle management.

Additional details on creating bookmarks and hypertext links in PDF documents can be found in the ICH eCTD Specification, Appendix 7.

2.2. Regional File Formats

2.2.1. Module 1

The file formats that can be included in Module 1 are given in Table 1. In addition to the common format PDF as defined by the ICH eCTD Specification Document, for other formats see regional guidance for narrative documents to be included in Module 1.

XML is also an acceptable format for the delivery of structured data in Module 1, specifically the application form and product information, as long as the XML is produced to the standard defined in the electronic Application Forms.

Although the use of the file formats defined in Table 1 is strongly recommended, the GCC and applicants could agree on the use of other formats in Module 1, for example, the proprietary format MS Word is for Product Information documents in Module 1.3 (see specific national guidance).

These documents, if requested, should not be referenced in the eCTD backbone, and should always be provided in addition to the PDF versions.

Table 1: Acceptable file formats for GCC Module 1

Document	File Format	Remark
<u>Administrative forms:</u> <ul style="list-style-type: none"> • Application form and its annexes • Variation application form incl. background for the variation • Renewal form and its annexes 	XML, PDF, RTF PDF, RTF PDF, RTF	Documents should be generated from electronic source documents, any signature may be embedded as graphic file in the PDF text if desired, although this is not necessary as the hard paper copy contains the legally binding signature.
<u>Product Information:</u> <ul style="list-style-type: none"> • Labeling text • Packaging mock-ups • Reference to Specimens • Readability Testing • Information relating to Orphan Applications 	XML, PDF, RTF XML, PDF, RTF PDF PDF PDF	If a higher resolution is necessary for the mock-ups, use JPEG, GIF, PNG or SVG on a case-by-case basis. Labeling texts can be submitted in XML format according to the PIM Data Exchange Standard. In that context, images can be transmitted in JPEG, GIF, PNG, TIF, SVG, or MathML.
Other	PDF, RTF	PDF preferably generated from electronic source
Document Type Definitions and Stylesheets	DTD, XSL	These are XML specific file formats and must only be the specified versions of the specific files required for the submission of electronic Application Forms

2.2.2. Modules 2 to 5

No additional file formats are defined for Modules 2 to 5 other than those mentioned in the ICH eCTD Specification Document. The GCC and pharmaceutical companies could agree on a case-by-case basis to use formats other than the common formats (e.g. RTF). However, the use of formats other than those specified by the ICH eCTD Specification Document is discouraged.

2.3. Handling of Empty or Missing eCTD Sections

For new applications (including generic applications), detailed statements justifying the absence of data or specific eCTD sections should be provided in the relevant Quality Overall Summary and/or Non-Clinical/Clinical Overviews (Module 2.3, 2.4, 2.5).

Note that placeholder documents highlighting 'no relevant content' should not be placed in the eCTD structure, as these would create a document lifecycle for non-existent documents, and unnecessary complication and maintenance of the eCTD.

Note: for a generic application, there is no need to provide a justification for content that is typically absent.

2.4. Technical information

2.4.1. Use of Electronic Signatures

The use of advanced electronic signatures (digital signatures) will be crucial in achieving pure electronic communication between the pharmaceutical industry and regulatory agencies, particularly for authentication of electronic submissions and documents contained therein. Currently however, the use of digital signatures for electronic submissions within GCC is not fully supported and digital signatures should therefore not be used (Please refer to each national competent authority for detailed guidance on this matter).

2.4.2. Security issues

The physical security of the submission during transportation is the responsibility of the applicant. Once received by national competent authority, security and submission integrity is the sole responsibility of the national competent authority.

2.4.3. Virus protection

The applicant is responsible for checking the submission for viruses. Checking should be performed with an up-to-date virus checker and be confirmed in the cover letter.

2.4.4. Password protection

Submission or file level security is not permitted. If one-time security settings or password protection of electronic submissions are used this could constitute grounds for the rejection of the submission.

2.5. General Architecture of Module 1

The GCC Module 1 architecture is similar to that of modules 2 to 5 of the eCTD, comprising a directory structure and a backbone with leaves. The backbone must be a

valid XML document according to the GCC Regional Document Type Definition (DTD). The backbone instance (the `gc-regional.xml` file) contains meta-data for the leaves, including pointers to the files in the directory structure. In addition, the GCC Regional DTD defines meta-data at the submission level in the form of an envelope. The root element is "gc-backbone" and contains two elements: "gc-envelope" and "m1-gc".

The GCC Regional DTD is modularized i.e. the envelope and leaves are referenced from the main part of the DTD as external entities called respectively "gc-envelope.mod" and "gc-leaf.mod". The "gc-leaf" is identical to the leaf element described in the ICH eCTD DTD; reference is made to Table 6-8 of the ICH eCTD Specification. A full description of the GCC Regional DTD can be found in Appendix 4 of this specification.

2.5.1. Checksum

- ✓ GCC Module 1 v1.0 checksum for "gc-regional.dtd" is:
19f1aa5324b111812e5a3017598f1a6d
- ✓ GCC Module 1 v1.0 checksum for "gc-envelope.mod" is:
bab6b4c85354b14809985c3e2605fdd0
- ✓ GCC Module 1 v1.0 checksum for "gc-leaf.mod" is:
f131823f73b74c4c8d16291d02643bec
- ✓ GCC Module 1 v1.0 checksum for "gc-regional.xsl" is:
be9267682f550c181e86683963065c21

Note : See "checksum.pdf" for complete hash values

2.5.2. Envelope

The "gc-envelope" element is designed to be used for all types of submissions (initial, variations, renewals, etc.) for a given medicinal product and will mainly be used for the first simple processing at the agency level. The envelope provides meta-data at the submission level. A description of each "envelope" element is provided in [Appendix 1](#) of this specification.

2.5.3. XML Catalogue

The “m1-gc” element of the GCC regional DTD is based on the same conceptual approach as the common part of the ICH eCTD DTD. It provides an XML catalogue with meta-data at the leaf level including pointers to the location of files in a directory structure. As for the ICH eCTD DTD, the “m1-gc” element maps to the directory structure. (There may at times be what is seen to be a 'redundant' directory structure, but this is necessary in order to be able to use the same file/directory structure for all procedures.)

2.5.4. Directory / File Structure

The GCC Module 1 Specification provides the directory and file structure (see [Appendix 2](#)).

2.5.5. File Naming Convention

The eCTD file naming conventions described in the ICH M2 eCTD Specification and this document are highly recommended. If an applicant wishes to submit multiple files in one section, where only one highly recommended name is available, this can be achieved using a suffix to the filename,

File names have fixed and variable components. Components are separated by a hyphen. No hyphens or spaces should be used within each component.

Fixed components are mandatory. The variable component is optional and should be used as appropriate to further define these files. The variable component if used should be a meaningful concatenation of words without separation and should be kept as brief and descriptive as possible. File extensions in line with this specification should be applied as applicable.

The first component in a file name must be the country code as per [Appendix 5](#) except when the document is valid for all countries within the particular procedure. The second component must be the document type code. The third component if necessary should be the variable component.

There are no recommendations for variable components in this specification. The format of the file is indicated by the file extension. File names must always be in lowercase, in line with the ICH eCTD specification.

Examples are:

om-cover.pdf (Oman)
ae-cover.pdf (UAE)
bh-cover.pdf (Bahrain)
kw-cover.pdf (Kuwait)
qa-cover.pdf (Qatar)
ye-cover.pdf (Yemen)
sa-cover.pdf (Saudi Arabia)

2.6. Business protocol

The detailed business process between industry and the GCC will form part of the Industry Guidance for eCTDs. For some period of time the exchange of regulatory information will take place through exchange of physical media such as CD/DVD-Rs:

1. The actual submission of the physical media on which the application is contained should be accompanied by at least a signed, paper copy of the cover letter (the content of this cover letter is defined in the ICH eCTD Specification Document Appendix 5, as is the packaging of the media units)
2. The GCC will acknowledge the proper receipt and result of the validation process (technical [e.g. virus check, XML check, etc.] and content based) to the Sponsor or Agent that submitted the eCTD.

2.7. Change control

The GCC Module 1 specification 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 Module 1 for 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
- Update of 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, in particular Module 1.

2.8. Instructions for renewal submissions

Please note that a renewal application can be used as the first eCTD in a product lifecycle in a similar manner to variations.

2.9. Instructions for Extension Submissions

Several strengths can be managed within a single eCTD application, and this helps avoid submission of data multiple times (e.g. active substance changes). Submissions for an extension can either be submitted within an existing eCTD application, as a new sequence (continuous sequence numbering), or as a new eCTD application (sequence 0000), depending on the procedure.

For Extension applications, only new data should be submitted as a new sequence in the already submitted eCTD. The submission type has to be “extension”.

If single eCTDs are used for each strength, full data concerning the extension applied for has to be included in the submitted eCTD and therefore clear information should be given to the assessor on what is new compared to earlier submitted data for the product to avoid unnecessary assessment.

APPENDIX

Appendix 1: Envelope Element Description

The “gc-envelope” element is the root element that defines meta-data of the submission. This element may contain several envelope entries.

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
gc-envelope		Root element that provides meta-data for the submission. This element may contain several envelopes, which are country specific.		Mandatory	Unique
envelope	country	This element must be country specific (See appendix 5)	om	Mandatory	Unique
application		This is the number issued for the sponsor and the product by the GCC and remains for the full lifecycle of the product from the first data submission		Mandatory	Unique
applicant		The name of the company submitting the eCTD	ompharma	Mandatory	Unique
agency	code	Parent element for the identification of the receiving agency (See appendix 5)	OM-MOH		
ATC		Pick list ATC code			Repeatable
submission		Provides administrative information associated with the submission.		Mandatory	Unique
	type	See appendix 5	new-nce	Mandatory	Unique
procedure		See appendix 5			
invented-name		The name of the medicinal product	Dawa	Mandatory	Repeatable
inn		International Non-proprietary Name, used to identify pharmaceutical substances or active pharmaceutical ingredients. Each INN is a unique name that is globally recognized and is public property. A nonproprietary name is also known as a generic name.	Allopurinol	Optional	Repeatable
sequence		This is the sequence number	0000	Mandatory	Unique

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
		of the submission – this should start at 0000 for the initial submission, and then increase incrementally with each subsequent submission related to the same product e.g. 0000, 0001, 0002, 0003 etc.			
related-sequence		This is the sequence number of a previous submission to which this submission relates e.g. the responses to questions to a particular variation.	0001	Optional	Repeatable
submission-description		This element is used to briefly describe the submission		Mandatory	Unique
number		This is any number, used by an agency or the applicant to track the submission, in any procedure, in relation to a particular product.		Mandatory	Repeatable

Example of the use of the Related Sequence:

The related sequence number describes the relationship of additional information to the original submission or subsequent submissions.

An illustration of how the related sequence number is used to describe the relationship of additional information to the original and subsequent submissions follows.

Example of how the Related Sequence should be used:

Sequence	Submission Description	Related Sequence	Comment
0000	Application for New Generic application	<none>	This is a new regulatory submission and so no related sequence is included
0001	Responses to Section 31 for New Generic application	0000	This is continued activity for the regulatory submission initiated in 0000 and so the related sequence points to the beginning of that submission
0002	Updated information for New Generic application	0000	This is the completion of the regulatory activity for this submission initiated in 0000 and so the related sequence points to the beginning of that submission

Sequence	Submission Description	Related Sequence	Comment
0003	Application for EXTENSION OF INDICATION (EOI) for the approved product	<none>	This is the beginning of a new regulatory submission and so no related sequence is included
0004	Responses Section 31 for the change in manufacturing site for the approved product	0003	This is continued activity for the regulatory submission initiated in 0003 and so the related sequence points to the beginning of that submission
0005	Responses to CLIN Section 31 EOI for the approved product	0003	This is continued activity for the regulatory submission initiated in 0003 and so the related sequence points to the beginning of that submission

Appendix 2: Directory/File Structure for GCC Module 1

The directory / file structure is defined in this appendix as a table containing the following information:

Sequential number		Each item in the table has a unique sequentially assigned reference number. These reference numbers can change with each version of this appendix.
	Number	CTD section number
	Title	CTD title
	Element	Element name in the GCC Backbone
	File/Directory	File/Directory name from m1-gc should be relative path from <i>gc-m1</i> e.g. <i>12-form/om/om-form.pdf</i> This is consistent with ICH standards. The file extension corresponds to the file type; i.e., the “pdf” extension is only illustrative.
	Comment	Comments

The names of the actual files and directories used should be presented in lower case in accordance with the eCTD specification. The codes “VAR” and “EXT” represent a variable component of the file name and a representation of a file extension respectively. The use of upper case for those codes is for illustrative purposes only to show differentiation between the variable parts and the fixed part of the name.

Please note that “CC” represents the country code and “LL” the language code. It is added to a directory if a file is specific to a country. If the file applied to all GCC countries, CC will be “common”.

1	Number	
	Title	GCC Module 1
	Element	m1-gc
	Directory	m1/gc
	Comment	Top level directory for the GCC Module 1 as per ICH eCTD Specification
2	Number	
	Title	GCC Module 1 – DTD version 1.0
	Element	
	File	m1/gc/gc-regional.xml
	Comment	The GCC Regional XML instance including the envelope information. Note that the operation attribute for the <i>gc-regional.xml</i> should always be set to ‘new’

3	Number	1.0
	Title	Cover letter
	Element	m1-0-cover
	Directory	m1\gc\10-cover
	Comment	General place holder for cover letter information If there is a special cover letter from specific agency, please add the country and language to the directory m1\gc\10-cover\CC\LL.
4	Number	
	Title	Cover letter for OM-MOH
	Element	m1-0-cover
	Directory	m1\gc\10-cover
	File	CC-cover-VAR.EXT
	Comment	Example for the cover letter specific for Oman MOH, the placeholder will be m1\gc\10-cover\om\om-cover.pdf
5	Number	1.1
	Title	Module 1 table of contents
	Element	m1-1-table-of-contents
	Directory	0000
	Comment	The table of contents should include a list of all documents provided in the data submission by module. In eCTD, the xml backbone replaces the table of contents 0000\index.xml
6	Number	1.2
	Title	Application form
	Element	m1-2-application-form
	Directory	m1\gc\12-form
	File	CC-form-VAR.EXT
	Comment	General place holder for application form information.
7	Number	1.3
	Title	Product Information
	Element	m1-3-product-information
	Directory	m1\gc\13-pi
	Comment	General placeholder for Product Information
8	Number	1.3.1
	Title	Summary of Product Characteristics (SPC)
	Element	m1-3-1-spc
	Directory	m1\gc\13-pi\131-spc
	File	CC-spc-VAR.EXT
	Comment	General placeholder for SPC. Arabic SPC, the directory is m1\gc\13-pi\131-spc\CC\ar English SPC the directory is m1\gc\13-pi\131-spc\CC\en
9	Number	1.3.2

	Title	Labeling
	Element	m1-3-2-label
	Directory	m1\gc\13-pi\132-labeling
	File	CC-label-VAR.EXT
	Comment	General placeholder for labeling The directory is m1\gc\13-pi\132-labeling\CC\LL
10	Number	1.3.3
	Title	Patient information leaflet
	Element	m1-3-3-pil
	Directory	m1\gc\13-pi\133-leaflet
	Comment	General placeholder for Patient information leaflet
11	Number	1.3.3.1
	Title	Arabic Patient information leaflet
	Element	m1-3-3-pil
	Directory	m1\gc\13-pi\133-leaflet\CC\ar
	File	CC-leaflet-VAR.EXT
	Comment	Document in Arabic
12	Number	1.3.3.2
	Title	English Patient information leaflet
	Element	m1-3-3-pil
	Directory	m1\gc\13-pi\133-leaflet\CC\en
	Comment	Document in English
13	Number	1.3.4
	Title	Artwork (mock-ups)
	Element	m1-3-4-mockup
	Directory	m1\gc\13-pi\134-artwork\CC\LL
	File	CC-artwork-VAR.EXT
	Comment	Artwork or Mock-ups
14	Number	1.3.5
	Title	Samples
	Element	m1-3-5-samples
	Directory	m1\gc\13-pi\135-samples\CC\LL
	File	CC-samples-VAR.EXT
	Comment	Samples
15	Number	1.4
	Title	Information on the Experts
	Element	m1-4-expert
	Directory	m1\gc\14-expert
	Comment	
16	Number	1.4.1
	Title	Quality
	Element	m1-4-1-quality

	Directory	m1\gc\14-expert\141-quality
	File	quality-VAR.EXT
	Comment	
17	Number	1.4.2
	Title	Non clinical
	Element	m1-4-2-non-clinical
	Directory	m1\gc\14-expert\142-nonclinical
	File	nonclinical-VAR.EXT
	Comment	
18	Number	1.4.3
	Title	Clinical
	Element	m1-4-3-clinical
	Directory	m1\gc\14-expert\143-clinical
	File	clinical-VAR.EXT
	Comment	
19	Number	1.5
	Title	Environmental Risk Assessment
	Element	m1-5-environrisk
	Directory	m1\gc\15-environrisk
	Comment	
20	Number	1.5.1
	Title	Non-GMO
	Element	m1-5-1-non-gmo
	Directory	m1\gc\15-environrisk\151-nongmo
	File	nongmo-VAR.EXT
	Comment	
21	Number	1.5.2
	Title	GMO
	Element	m1-5-2-gmo
	Directory	m1\gc\15-environrisk\152-gmo
	File	gmo-VAR.EXT
	Comment	
22	Number	1.6
	Title	Pharmacovigilance
	Element	m1-6-pharmacovigilance
	Directory	m1\gc\16-pharmacovigilance
	Comment	
23	Number	1.6.1
	Title	Pharmacovigilance System
	Element	m1-6-pharmacovigilance-system
	Directory	m1\gc\16-pharmacovigilance\161-phvig-system
	File	phvigsystem-VAR.EXT
	Comment	

24	Number	1.6.2
	Title	Risk Management Plan
	Element	m1-6-2-risk-management-system
	Directory	m1\gc\16-pharmacovigilance\162-riskmgt-system
	File	riskmgtsystem-VAR.EXT
	Comment	
25	Number	1.7
	Title	Certificates and Documents
	Element	m1-7-certificates
	Directory	m1\gc\17-certificates
	Comment	
26	Number	1.7.1
	Title	GMP Certificate
	Element	m1-7-1-gmp
	Directory	m1\gc\17-certificates\171-gmp
	File	CC-gmp-VAR.EXT
	Comment	
27	Number	1.7.2
	Title	CPP or Free-sales
	Element	m1-7-2-cpp
	Directory	m1\gc\17-certificates\172-cpp
	File	CC-cpp-VAR.EXT
	Comment	
28	Number	1.7.3
	Title	Certificate of analysis – Drug Substance / Finished Product
	Element	m1-7-3-analysis-substance
	Directory	m1\gc\17-certificates\173-analysis-substance
	File	CC-drugsubstance-VAR.EXT
	Comment	
29	Number	1.7.4
	Title	Certificate of analysis – Excipients
	Element	m1-7-4-analysis-excipients
	Directory	m1\gc\17-certificates\174-analysis-excipients
	File	CC-excipients-VAR.EXT
	Comment	
30	Number	1.7.5
	Title	Alcohol-content declaration
	Element	m1-7-5-alcohol-content
	Directory	m1\gc\17-certificates\175-alcohol-content
	File	CC-alcoholcontent-VAR.EXT
	Comment	
31	Number	1.7.6
	Title	Pork-content declaration

	Element	m1-7-6-pork-content
	File	<i>CC-porkcontent-VAR.EXT</i>
	Directory	m1\gc\17-certificates\176-pork-content
	Comment	
32	Number	1.7.7
	Title	Certificate of suitability for TSE
	Element	m1-7-7-certificate-tse
	Directory	m1\gc\17-certificates\177-certificate-tse
	File	<i>CC-tse-VAR.EXT</i>
	Comment	
33	Number	1.7.8
	Title	The diluents and coloring agents in the product formula
	Element	m1-7-8-diluent-coloring-agents
	Directory	m1\gc\17-certificates\178-diluent-coloring-agents
	File	<i>CC-diluent-VAR.EXT</i>
	Comment	
34	Number	1.7.9
	Title	Patent Information
	Element	m1-7-9-patent-information
	Directory	m1\gc\17-certificates\179-patent-information
	File	<i>CC-patent-VAR.EXT</i>
	Comment	
35	Number	1.7.10
	Title	Letter of access or acknowledgements to DMF
	Element	m1-7-10-letter-access-dmf
	Directory	m1\gc\17-certificates\1710-letter-access-dmf
	File	<i>CC-accessdmf-VAR.EXT</i>
	Comment	
36	Number	1.8
	Title	Pricing
	Element	m1-8-pricing
	Directory	m1\gc\18-pricing
	Comment	
37	Number	1.8.1
	Title	Price list
	Element	m1-8-1-price-list
	Directory	m1\gc\18-pricing\181-price-list
	File	<i>CC-price-VAR.EXT</i>
	Comment	
38	Number	1.8.2
	Title	Other documents related
	Element	m1-8-2-other-document
	Directory	m1\gc\18-pricing\182-other-doc

	File	<i>CC-others-VAR.EXT</i>
	Comment	
39	Number	1.9
	Title	Responses to questions
	Element	m1-9-responses
	Directory	m1\gc\19-responses\CC
	File	<i>CC-responses-VAR.EXT</i>
	Comment	
40	Number	m1-additional-data
	Title	Additional data
	Element	m1-additional-data
	Directory	m1\gc\additional-data\CC
	File	<i>CC-additionaldata-VAR.EXT</i>
	Comment	Any additional data requested should be put on this place such as documents that don't really fit in any other sections (transfer agreement, declaration of conformity of translation, etc.)

Appendix 3: Country Specific Elements

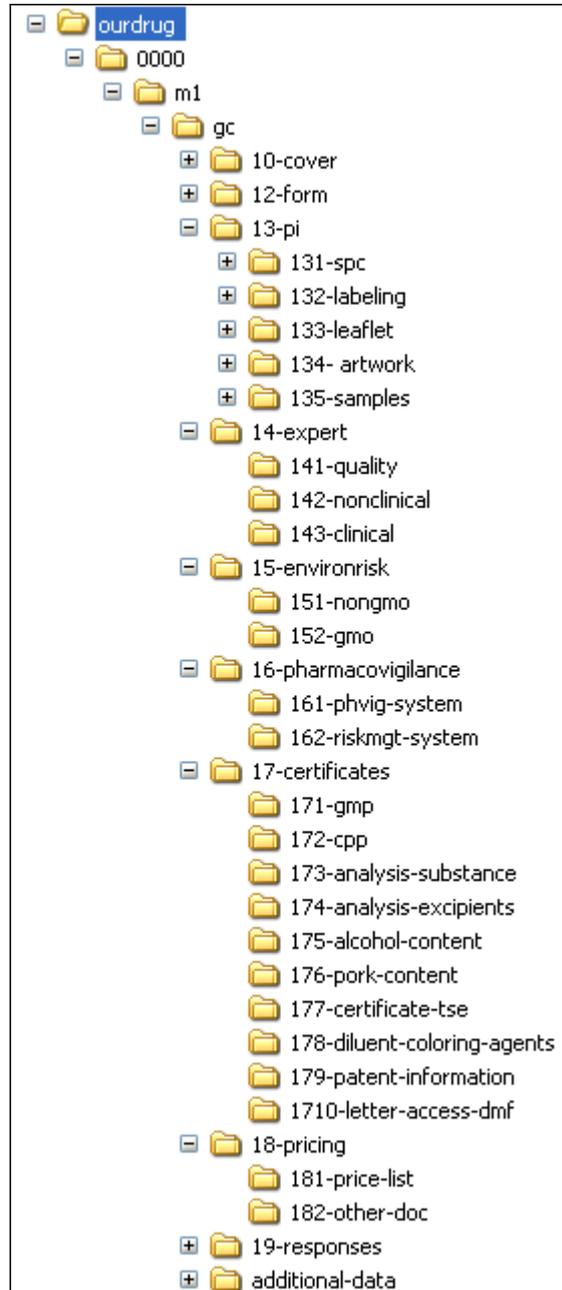
A number of the elements that represent Module 1 *TOC* headings possess the child element “specific”, which allows country specificity of content to be explicitly indicated.

Module 1 elements that have “specific” child elements can therefore contain multiple documents, each with content for review by a different country in the Gulf Cooperation countries. These elements are listed below:

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
Specific		Parent element for identifying the receiving country for a document or documents.		Mandatory	Repeatable
	country	The receiving country for the document (see appendix 5)	om	Mandatory	Unique

Appendix 4: Example Screenshot

This appendix is included only to demonstrate how the directory structure may appear for Module 1 for Gulf Cooperation Council (GCC).



Appendix 5: List of codes
GCC Agencies (in alphabetic order)

Country	Code agency	Description
Bahrain	BH-MOH	Ministry of Health
Kuwait	KW-MOH	Ministry of Health
Oman	OM-MOH	Ministry of Health
Qatar	QA-NHA	National Health Authority
Republic of Yemen	YE-MOPH	Ministry of Public Health and Population
Saudi Arabia	SA-SFDA	Saudi Food and Drug Authority
UAE	AE-MOH	Ministry of Health

Procedure

Type	Description
gcc	GCC procedure
national	National procedure

Submission

Type	Description
new-gen	MAA - Generic (Multisource)
new-nce	MAA - New chemical Entity
new-bio	MAA - Biological
new-rad	MAA - Radiopharmaceuticals
renewal	Renewal of Marketing Authorization
var-type1	Variation Type 1
var-type2	Variation Type 2
transfer-ma	Transfer of Marketing Authorization
withdrawal	Withdrawal
responses	Responses to Questions
psur	Periodic Safety Update Report

DESTINATION

In most cases the destination code is an ISO-3166-1 code usually called “country code”.

Country code	Destination
AE	State of United Arab Emirates
BH	Kingdom of Bahrain
KW	State of Kuwait

Country code	Destination
OM	Sultanate of Oman
QA	State of Qatar
SA	Saudi Arabia
YE	Republic of Yemen

Note: Use “common” as country code when the submission applies to all countries.

LANGUAGE

Language	Description
ar	Arabic (when required)
en	English

Appendix 6: Modularized DTD for GCC Module 1

GCC Regional DTD

```
<!--  
PUBLIC "-//GC//DTD eCTD GCBackbone 1.0//EN"  
In the eCTD File Organisation: "util/dtd/gc-regional.dtd"
```

Created: August 2009

Modified: Oct 2012

Minor changes on elements:

change "m1-7-5-alcohol-free" in "m1-7-5-alcohol-content"

change "m1-7-6-pork-free" in "m1-7-6-pork-content"

samples from leaf-node in specific

Meaning or value of the suffixes:

? : element must appear 0 or 1 time

* : element must appear 0 or more time

+ : element must appear 1 or more times

<none>: element must appear once and only once

-->

```
<!-- General declarations, external modules  
references..... -->
```

```
<!ENTITY % countries "(ae|common|bh|kw|om|qa|sa|ye)">
```

```
<!ENTITY % languages "(en|ar)">
```

```
<!ENTITY % leaf-node "(( leaf | node-extension )*)">
```

```
<!ENTITY % envelope-module SYSTEM "gc-envelope.mod" >  
%envelope-module;
```

```
<!ENTITY % leaf-module SYSTEM "gc-leaf.mod" >  
%leaf-module;
```

```
<!ELEMENT specific (  
  %leaf-node;  
)>
```

```
<!ATTLIST specific  
  country %countries; #REQUIRED  
>
```

```
<!-- Root element
```

```
..... -->
```

```
<!ELEMENT gc:gc-backbone (  
  gc-envelope,  
  m1-gc  
)>
```

```
<!ATTLIST gc:gc-backbone  
  xmlns:gc          CDATA #FIXED  
  xmlns:xlink       CDATA #FIXED  
  "http://www.w3c.org/1999/xlink"  
  xml:lang          CDATA #IMPLIED  
  dtd-version       CDATA #FIXED   "1.0"  
>
```

```

<!--
..... -->
<!ELEMENT m1-gc (
  m1-0-cover,
  m1-2-form?,
  m1-3-pi?,
  m1-4-expert?,
  m1-5-environrisk?,
  m1-6-pharmacovigilance?,
  m1-7-certificates?,
  m1-8-pricing?,
  m1-9-responses?,
  m1-additional-data?
)>

<!--
..... -->
<!ELEMENT m1-0-cover (
  specific+
)>

<!--
..... -->
<!ELEMENT m1-2-form (
  specific+
)>

<!--
..... -->
<!ELEMENT m1-3-pi (
  m1-3-1-spc?,
  m1-3-2-label?,
  m1-3-3-pil?,
  m1-3-4-mockup?,
  m1-3-5-samples?
)>

<!ELEMENT m1-3-1-spc (
  pi-doc+
)>
<!ELEMENT m1-3-2-label (
  pi-doc+
)>
<!ELEMENT m1-3-3-pil (
  pi-doc+
)>
<!ELEMENT m1-3-4-mockup (
  specific+
)>
<!ELEMENT m1-3-5-samples (
  specific+
)>

```

```

<!ELEMENT pi-doc (
  %leaf-node;
)>
<!ATTLIST pi-doc
  xml:lang %languages; #REQUIRED
  type      (spc|label|pil) #REQUIRED
  country   %countries;    #REQUIRED
>

<!--
..... -->
<!ELEMENT m1-4-expert (
  m1-4-1-quality?,
  m1-4-2-non-clinical?,
  m1-4-3-clinical?
)>

<!ELEMENT    m1-4-1-quality      %leaf-node;>
<!ELEMENT    m1-4-2-non-clinical %leaf-node;>
<!ELEMENT    m1-4-3-clinical     %leaf-node;>

<!--
..... -->
<!ELEMENT m1-5-environrisk (
  (m1-5-1-non-gmo | m1-5-2-gmo)?
)>
<!ELEMENT    m1-5-1-non-gmo    %leaf-node;>
<!ELEMENT    m1-5-2-gmo       %leaf-node;>

<!--
..... -->
<!ELEMENT m1-6-pharmacovigilance (
  m1-6-1-pharmacovigilance-system?,
  m1-6-2-risk-management-system?
)>
<!ELEMENT    m1-6-1-pharmacovigilance-system %leaf-node;>
<!ELEMENT    m1-6-2-risk-management-system   %leaf-node;>

<!--
..... -->
<!ELEMENT m1-7-certificates (
  m1-7-1-gmp?,
  m1-7-2-cpp?,
  m1-7-3-analysis-substance?,
  m1-7-4-analysis-excipients?,
  m1-7-5-alcohol-content?,
  m1-7-6-pork-content?,
  m1-7-7-certificate-tse?,
  m1-7-8-diluent-coloring-agents?,
  m1-7-9-patent-information?,

```

```

    m1-7-10-letter-access-dmf?
  )>
<!ELEMENT    m1-7-1-gmp                %leaf-node;>
<!ELEMENT    m1-7-2-cpp                %leaf-node;>
<!ELEMENT    m1-7-3-analysis-substance %leaf-node;>
<!ELEMENT    m1-7-4-analysis-excipients %leaf-node;>
<!ELEMENT    m1-7-5-alcohol-content    %leaf-node;>
<!ELEMENT    m1-7-6-pork-content       %leaf-node;>
<!ELEMENT    m1-7-7-certificate-tse    %leaf-node;>
<!ELEMENT    m1-7-8-diluent-coloring-agents %leaf-node;>
<!ELEMENT    m1-7-9-patent-information %leaf-node;>
<!ELEMENT    m1-7-10-letter-access-dmf %leaf-node;>

<!--
.....
..... -->
<!ELEMENT m1-8-pricing (
    m1-8-1-price-list?,
    m1-8-2-other-document?
)
)
<!ELEMENT m1-8-1-price-list    %leaf-node;>
<!ELEMENT m1-8-2-other-document %leaf-node;>

<!--
.....
..... -->
<!ELEMENT m1-9-responses (
    specific+
)
)

<!--
.....
..... -->
<!ELEMENT m1-additional-data (
    specific+
)
)

```

GCC Envelope

```
<!--
In the eCTD File Organisation: "util/dtd/gc-envelope.mod"
Version 1.0
May 2009
-->

<!--
..... -->
<!ELEMENT gc-envelope (
    envelope+
)>

<!ELEMENT envelope (
    application,
    applicant,
    agency,
    atc*,
    submission,
    procedure,
    invented-name+,
    inn*,
    sequence,
    related-sequence*,
    submission-description
)>
<!--
..... -->
<!ELEMENT application          ( number* )>
<!ELEMENT applicant            ( #PCDATA )>
<!ELEMENT agency               EMPTY>
<!ELEMENT atc                  ( #PCDATA )>
<!ELEMENT submission           EMPTY >
<!ELEMENT procedure            EMPTY >
<!ELEMENT invented-name        ( #PCDATA )>
<!ELEMENT inn                   ( #PCDATA )>
<!ELEMENT sequence             ( #PCDATA )>
<!ELEMENT related-sequence     ( #PCDATA )>
<!ELEMENT submission-description ( #PCDATA )>
<!ELEMENT number                ( #PCDATA )>

<!--
..... -->
<!ATTLIST agency
code ( AE-MOH | BH-MOH | KW-MOH | OM-MOH | QA-NHA | SA-SFDA |
YE-MOPHP ) #REQUIRED>
```

```

<!--
..... -->
<!ATTLIST procedure
  type (
    gcc
    | national
  ) #REQUIRED
>

<!--
..... -->
<!ATTLIST submission
  type ( new-gen | new-nce | new-bio | new-rad | new-her | new-
hea | new-vet | renewal | var-type1 | var-type2 | transfer-ma |
withdrawal | responses | psur
  ) #REQUIRED
>

<!--
..... -->
<!ENTITY % env-countries "(ae|common|bh|kw|om|qa|sa|ye)">

<!--
..... -->
<!ATTLIST envelope country %env-countries; #REQUIRED >

<!-- +++ -->

```

GCC Leaf

```
<!--
In the eCTD File Organisation: "util/dtd/gc-leaf.mod"
Version 1.0
May 2009
This is based on ich-ectd-3-2.dtd;
If the ich-ectd.dtd is modularized, this one could be
replaced.
Hence, one is certain that the common and GCC leaf are the
same.
-->

<!--
=====
-->
<!ELEMENT node-extension (title, (leaf | node-extension)+)>
<!ATTLIST node-extension
    ID ID #IMPLIED
    xml:lang CDATA #IMPLIED
>
<!--
=====
-->
<!ENTITY % show-list " (new | replace | embed | other | none)
">
<!ENTITY % actuate-list " (onLoad | onRequest | other | none)
">
<!ENTITY % operation-list " (new | append | replace | delete)
">
<!ENTITY % leaf-element " (title, link-text?) ">
<!ENTITY % leaf-att '
    ID ID #REQUIRED
    application-version CDATA #IMPLIED
    version CDATA #IMPLIED
    font-library CDATA #IMPLIED
    operation %operation-list; #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 %show-list; #IMPLIED
    xlink:actuate %actuate-list; #IMPLIED
```

```

xml:lang          CDATA          #IMPLIED
'>

<!ELEMENT leaf %leaf-element;>
<!ATTLIST leaf
    %leaf-att;
>
<!ELEMENT title (#PCDATA)>
<!ELEMENT link-text (#PCDATA | xref)*>

<!ELEMENT xref EMPTY>
<!ATTLIST xref
    ID ID #REQUIRED
    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 %show-list; #IMPLIED
    xlink:actuate %actuate-list; #IMPLIED
>
<!-- +++ -->

```